



MACTEC

engineering and constructing a better tomorrow

August 2, 2011

Mr. Brian Jankauskas
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A, 11th Floor
625 Broadway
Albany, New York 12233-7015

Subject: **Site Characterization: May 2011 Results**
 WAWNC Well 57 Study (Site No. 130191)
 Work Assignment #D004434-18
 MACTEC Engineering and Consulting, P.C., PN 3612082117

Dear Mr. Jankauskas:

MACTEC Engineering and Consulting, P.C., (MACTEC), under contract to the New York State Department of Environmental Conservation (NYSDEC) is presenting the results of additional Site Characterization (SC) activities at the Water Authority of Western Nassau County (WAWNC) Well 57 Site (Site No. 130191) in New Hyde Park, Nassau County, New York.

This letter report documents groundwater sampling performed in May 2011, associated analytical results, and disposal of investigation-derived waste water (IDW). This is the final deliverable for Work Assignment 18 (WA-18) under Superfund Standby Contract No. D004434 between the NYSDEC and MACTEC.

BACKGROUND

The objective of WA-18 is to investigate the source(s) of elevated chlorinated organic compounds impacting the WAWNC Station 57 well field. The well field, consisting of two municipal wells (Well 57 and Well 57A), is located at the intersection of Second Avenue and South 6th Street in the Village of New Hyde Park. These production wells, also designated N-7649 and N-7650, have a long history of impact from trichloroethene (TCE) and tetrachloroethene (PCE).

In 2009, MACTEC completed a Record Search that examined the locations of current and historic dry cleaners and other potential properties where solvents were historically used (MACTEC, 2009). MACTEC and the NYSDEC prioritized historical dry cleaners and surrounding industrial areas and developed a site characterization plan to evaluate groundwater downgradient of these properties. In general, the sampling program sought to investigate the potential historic release of solvents by profiling groundwater to the depths achievable by direct-push drilling methods and by sampling soil vapor near selected properties. It was thought that the data might identify a shallow groundwater plume that could be contributing to the impacts observed at the deep production wells.

In 2010, MACTEC performed two separate field sampling events. In March, MACTEC collected groundwater and soil vapor samples as described in the Field Activities Plan (FAP) dated February, 2010 (MACTEC, 2010). Based on direction received from the NYSDEC, MACTEC returned to the area in November and December and completed additional groundwater and soil gas sampling. Work during this second mobilization was executed in accordance with the procedures described in the FAP. The scope of work performed and all analytical findings are documented in a SC Report (MACTEC, 2011). The NYSDEC directed MACTEC, as a final WA activity, to collect groundwater samples from an existing historical monitoring well (MW-10MS) that had not successfully been sampled during the 2010 SC.

SCOPE OF WORK

The following activities are documented in this report:

- Groundwater sampling at monitoring wells (MW-10D and MW-10MS),
- Sampling of drummed waste water IDW,
- Removal and disposal of the one drum of waste water IDW.

Details of the sampling tasks are provided below.

Groundwater Sampling. Groundwater samples were collected from existing monitoring wells MW-10D and MW-10MS. These wells, located on South 10th street, New Hyde Park, were installed as part of a separate groundwater investigation. The shallow well (MW-10D) has a ten-foot screened interval set from 106 to 116 feet below ground surface. The deeper well, MW-10MS, has a 10-foot screened interval from 183 to 193 feet bgs. MACTEC sampled each well using a bladder pump and dedicated sample tubing that was lowered to the approximate midpoint

of the screened interval. Samples were collected using low-flow techniques. Field parameters were collected to document stabilization criteria. Sampling information is provided on groundwater sampling records (attached). A duplicate sample was collected at MW-10MS for quality assurance.

Water samples were analyzed by Chemtech located in Mountainside, New Jersey for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260b.

IDW Sampling. Water purged during well sampling was containerized in a drum staged at the Village of New Hyde Park Department of Public Works facility on Stewart Ave. This drum also contained purge water from the prior 2010 groundwater sampling event. MACTEC collected a characterization sample to be used to profile the waste for disposal. The sample was analyzed by Chemtech for VOCs.

ANALYTICAL RESULTS

VOC results are provided in Table 1.

MW-10MS did not contain any VOCs above reporting limits in either the prime sample or the field duplicate. This well did not have a result from 2010 due to laboratory error (the sample collected in 2010 was not analyzed).

MW-10D contained four chlorinated VOCs at low (< 5 ug/L) concentrations. All compounds detected were below Class GA groundwater criteria or guidance values (NYSDEC 1998). Similar compounds and concentrations were reported in the May 2011 sample as those in the previous SC sample from April 2010 (see the SC report for results).

The table also indicates the results of a trip blank (TB-1) which accompanied the sample shipment and the results of the IDW sample (DRUM1). Trichloroethene (TCE) was the only VOC reported in the drum water sample and was present at 14 ug/L. No VOCs were reported in the water trip blank.

MACTEC reviewed the laboratory data package for completeness and consistency with chain of custody and analytical instructions, but as instructed by the NYSDEC, did not complete a Data

August 2011

Usability Summary Report. The laboratory-reported results appear to be consistent with current Site understanding and prior analyses.

IDW TRANSPORT AND DISPOSAL

The waste water drum was removed and transported by Op-Tech Environmental Services of East Syracuse, NY. The drum, containing approximately 30 gallons of purge water, was transported on July 1, 2011 to Cycle Chem, Inc of Elizabeth, NJ where it was disposed of as non-hazardous waste. Transport documentation is attached.

FINDINGS

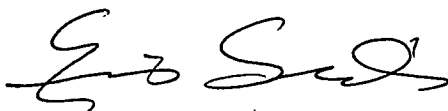
The results from wells MW-10D and MW-10MS are consistent with current understanding of groundwater impacts in this area of New Hyde Park. These wells do not appear to intercept a solvent-impacted groundwater plume that is known to be present at greater depth in the area.

MACTEC understands that the NYSDEC, in consultation with the NYSDOH, will determine the need for further characterization or potential remediation based on the data developed during this study.

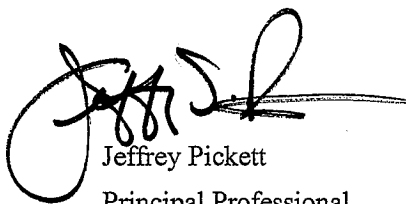
Thank you for the opportunity to assist the New York State Department of Environmental Conservation on this project.

Sincerely,

MACTEC Engineering and Consulting, P.C.



Eric C. Sandin
Project Manager



Jeffrey Pickett
Principal Professional

Enclosures

Attachment 1: Field Data Records

Attachment 2: IDW Disposal Documentation

REFERENCES

MACTEC Engineering and Consulting, P.C., 2009. Record Search and Hydrogeologic Evaluation – Final, WAWNC Well 57, Site No. 1-30-191, September 8, 2009.

MACTEC Engineering and Consulting, P.C., 2010. Field Activities Plan, WAWNC Well 57 Study Site #130191, February 2010.

MACTEC Engineering and Consulting, P.C., 2011. Site Characterization report – Final, WAWNC Well 57, Site No. 1-30-191, May 19, 2011

Table 1: VOC Results May 2011 Sampling Event

Analysis	Parameter	Location ID	MW-10D		MW-10MS		MW-10MS		QC		IDW	
		Sample Date	5/17/2011		5/17/2011		5/17/2011		5/17/2011		5/17/2011	
		Sample ID Qc Code	MW-10D FS		MW-10S FS		MW-10S-DUP FD		TB-1 TB		DRUM1 FS	
		Criteria	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SW8260B	Tetrachloroethene	5	2.2		1 U		1 U		1 U		1 U	
SW8260B	Trichloroethene	5	2		1 U		1 U		1 U		14	
SW8260B	1,1,1-Trichloroethane	5	0.59 J		1 U		1 U		1 U		1 U	
SW8260B	1,1,2,2-Tetrachloroethane	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	1,1,2-Trichloroethane	1	1 U		1 U		1 U		1 U		1 U	
SW8260B	1,1-Dichloroethane	5	0.52 J		1 U		1 U		1 U		1 U	
SW8260B	1,1-Dichloroethene	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	1,2,4-Trichlorobenzene	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	1,2-Dibromo-3-chloropropane	0.04	1 U		1 U		1 U		1 U		1 U	
SW8260B	1,2-Dibromoethane	0.0006	1 U		1 U		1 U		1 U		1 U	
SW8260B	1,2-Dichlorobenzene	3	1 U		1 U		1 U		1 U		1 U	
SW8260B	1,2-Dichloroethane	0.6	1 U		1 U		1 U		1 U		1 U	
SW8260B	1,2-Dichloropropane	1	1 U		1 U		1 U		1 U		1 U	
SW8260B	1,3-Dichlorobenzene	3	1 U		1 U		1 U		1 U		1 U	
SW8260B	1,4-Dichlorobenzene	3	1 U		1 U		1 U		1 U		1 U	
SW8260B	2-Butanone	50*	5 U		5 U		5 U		5 U		5 U	
SW8260B	2-Hexanone	50*	5 U		5 U		5 U		5 U		5 U	
SW8260B	4-Methyl-2-pentanone	NA	5 U		5 U		5 U		5 U		5 U	
SW8260B	Acetic acid, methyl ester	NA	1 U		1 U		1 U		1 U		1 U	
SW8260B	Acetone	50*	5 U		5 U		5 U		5 U		5 U	
SW8260B	Benzene	1	1 U		1 U		1 U		1 U		1 U	
SW8260B	Bromodichloromethane	50*	1 U		1 U		1 U		1 U		1 U	
SW8260B	Bromoform	50*	1 U		1 U		1 U		1 U		1 U	
SW8260B	Bromomethane	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	Carbon disulfide	60	1 U		1 U		1 U		1 U		1 U	
SW8260B	Carbon tetrachloride	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	Chlorobenzene	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	Chlorodibromomethane	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	Chloroethane	5*	1 U		1 U		1 U		1 U		1 U	
SW8260B	Chloroform	7	1 U		1 U		1 U		1 U		1 U	
SW8260B	Chloromethane	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	Cis-1,2-Dichloroethene	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	cis-1,3-Dichloropropene	0.4	1 U		1 U		1 U		1 U		1 U	
SW8260B	Cyclohexane	NA	1 U		1 U		1 U		1 U		1 U	
SW8260B	Dichlorodifluoromethane	5*	1 U		1 U		1 U		1 U		1 U	
SW8260B	Ethyl benzene	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	Isopropylbenzene	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	Methyl cyclohexane	NA	1 U		1 U		1 U		1 U		1 U	
SW8260B	Methyl Tertbutyl Ether	10*	0.76 J		1 U		1 U		1 U		1 U	
SW8260B	Methylene chloride	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	Styrene	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	Toluene	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	trans-1,2-Dichloroethene	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	trans-1,3-Dichloropropene	0.4	1 U		1 U		1 U		1 U		1 U	
SW8260B	Trichlorofluoromethane	5	1 U		1 U		1 U		1 U		1 U	
SW8260B	Vinyl chloride	2	1 U		1 U		1 U		1 U		1 U	
SW8260B	Xylene, m/p	5	2 U		2 U		2 U		2 U		2 U	
SW8260B	Xylene, o	5	1 U		1 U		1 U		1 U		1 U	

Notes:

Results in microgram per liter (µg/L)

Samples analyzed for VOCs by EPA 8260B

Qualifiers:

U = Not detected at a concentration
greater than the reporting limit

J = Estimated value

Detections are indicated in **BOLD**

QC Code:

FS = Field Sample

FD = Field Duplicate

TB= Trip Blank

Criteria = Class GA Groundwater guidance or
standard values from Technical and Operational
Guidance Series (TOGS) 1.1.1, "Ambient Water
Quality Standards and Guidance Values and
Groundwater Effluent Limitations (NYSDEC 1998)

* = Guidance Value

ATTACHMENT 1

FIELD DATA RECORDS

LOW FLOW GROUNDWATER SAMPLING RECORD



511 Congress Street, Portland Maine 04101

PROJECT NAME WAWNC Well 57 Dry Cleaner Study	
PROJECT NUMBER 3612082117-04.1	
SAMPLE ID MW-100	SAMPLE TIME 1400

LOCATION ID MW-100	DATE May 17, 2011
START TIME 1850	END TIME 1420
SITE NAME/NUMBER 130191-P	PAGE 1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

INITIAL DTW (BMP) 49.99 FT FINAL DTW (BMP) 50.24 FT PROT. CASING STICKUP (AGS) 8 FT

WELL DEPTH (BMP) 116.3 FT SCREEN LENGTH unknown FT PID AMBIENT AIR — PPM

WATER COLUMN ~66.3 FT DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) 20.1 GAL PID WELL MOUTH — PPM

CALCULATED GAL/VOL -10.6 GAL TOTAL VOL. PURGED ~5 GAL DRAWDOWN/TOTAL PURGED 20.01

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

TOC/TOR DIFFERENCE 0.15 FT

REFILL TIMER SETTING 11.5 SEC

DISCHARGE TIMER SETTING 3.5 SEC

PRESSURE TO PUMP 35 PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1301	BEGIN PURGING									
1305	50.35	~400	15.44	0.415	6.21	6.30	20.9	23.7	~112'	
1310	50.34	~250	15.22	0.425	6.09	6.07	70.8	35.1		
1315	50.34	250	15.20	0.425	6.07	6.03	102	41.3		
1320	50.34	250	15.23	0.426	6.06	5.99	117	47.7		
1325	50.31	250	15.26	0.426	6.03	5.90	148	50.5		
1330	50.28	250	15.30	0.426	6.02	5.80	72.9	54.3		
1335	50.27	250	15.25	0.425	6.01	5.83	46.3	58.2		
1340	50.26	250	15.22	0.426	6.01	5.81	25.4	61.13		
1345	50.25	250	15.20	0.426	6.00	5.78	9.83	63.0		
1350	50.25	250	15.19	0.426	6.00	5.68	8.11	64.2		
1355	50.24	250	15.21	0.426	6.00	5.47	7.32	65.9		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 SF max; (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max; nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☐ PERISTALTIC	☒	☒ LIQUINOX	☒	☐ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☒ WL METER	<u>Solinst 200'</u>
☒ SUBMERSIBLE	☒	☒ DEIONIZED WATER	☐	☐ TEFLON TUBING	☐ PVC PUMP MATERIAL	☒ PID	<u>NA</u>
☐ BLADDER	☐	☐ POTABLE WATER	☐	☐ TEFLON LINED TUBING	☐ GEOPROBE SCREEN	☒ WQ METER	<u>YSI 556</u>
☐ WATERA	☐	☐ NITRIC ACID	☐	☐ HDPE TUBING	☒ TEFLON BLADDER	☒ TURB. METER	<u>Hach 2100</u>
☐ OTHER	☐	☐ HEXANE	☒	☐ LDPE TUBING	☐ OTHER	☒ PUMP	<u>Masterflex</u>
☐ OTHER	☐	☐ METHANOL	☐	☐ OTHER	☐ OTHER	☐ OTHER	
☐ OTHER	☐	☐ OTHER	☐	☐ OTHER	☐ OTHER	☐ FILTERS	NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ Volatile Organic Compounds	8260B	N	HCl	3 x 40 mL	☒		<u>See Above</u>
☐							
☐							
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER YES ☒ NO ☐

CONTAINERIZED YES ☒ NO ☐

NO-PURGE METHOD YES ☐ NO ☒

UTILIZED YES ☐ NO ☒

NUMBER OF GALLONS GENERATED ~5

If yes, purged approximately 1 standing volume prior to sampling or NA mL for this sample location.

SKETCH/NOTES

Ⓢ prior to pump placement

Sample Signature: [Signature]

Print Name: Brandon Shaw

Checked By:

Date:

LOW FLOW GROUNDWATER SAMPLING RECORD



511 Congress Street, Portland Maine 04101

PROJECT NAME WAWNC Well 57 Dry Cleaner Study	
PROJECT NUMBER 3612082117-04.1	
SAMPLE ID mw-105	SAMPLE TIME 1220

LOCATION ID mw-10MS	DATE May 17, 2011
START TIME 0820	END TIME 1240
SITE NAME/NUMBER 130191-P	PAGE 1 OF 3

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☒ 1/8 ☒ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

YES	NO	N/A
☒	☐	☐
☒	☐	☐
☒	☐	☐

INITIAL DTW (BMP) 50.55 FT	FINAL DTW (BMP) 54.81 FT	PROT. CASING STICKUP (AGS) 0 FT	TOC/TOR DIFFERENCE 0.38 FT
WELL DEPTH (BMP) 196.7 FT	SCREEN LENGTH UNKNOWN FT	PID AMBIENT AIR — PPM	REFILL TIMER SETTING 11.5 SEC
WATER COLUMN 146.2 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) ~0.7 GAL	PID WELL MOUTH — PPM	DISCHARGE TIMER SETTING 3.5 SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) ~23.4 GAL	TOTAL VOL. PURGED ~7 GAL	DRAWDOWN/ TOTAL PURGED ~0.1	PRESSURE TO PUMP 35 PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
0849	BEGIN PURGING									
0853	Pump off i need to get supplies,									
1011	Pump on again									
1016	48.70	~300	14.89	0.149	6.49	9.02	18.3	-25.6		
1021	51.20	~300	15.01	0.198	6.12	2.09	997	-28.4		
1026	52.38	~175	14.95	0.276	6.01	1.03	71000	-35.0		
1031	53.04	175	14.95	0.278	6.05	0.92	71000	-40.1		
1036	53.32	175	15.01	0.283	6.13	0.78	71000	-44.3		
1041	53.85	175	15.06	0.281	6.22	0.76	71000	-49.0		
1046	54.12	175	14.47	0.280	6.27	0.75	71000	-53.7		
1051	54.27	175	14.96	0.278	6.24	0.67	71000	-59.0		
1056	54.41	175	14.45	0.276	6.32	0.65	71000	-65.1		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

TEMP: nearest degree (ex. 10.1 = 10)
CONC: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 5.51 = 5.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☐ PERISTALTIC	☒	☒ LIQUINOX	☒	☐ SILICON TUBING	☐	☒ S. STEEL PUMP MATERIAL	☒ WL METER Solinst 200
☒ SUBMERSIBLE	☒	☒ DEIONIZED WATER	☐	☐ TEFLON TUBING	☐	☒ PVC PUMP MATERIAL	☒ PID
☐ BLADDER	☐	☐ POTABLE WATER	☐	☐ TEFLON LINED TUBING	☐	☒ GEOPROBE SCREEN	☒ WQ METER VS1556
☐ WATERA	☐	☐ NITRIC ACID	☐	☐ HDPE TUBING	☒	☒ TEFLON BLADDER	☒ TURB. METER
☐ OTHER	☐	☐ HEXANE	☒	☐ LDPE TUBING	☐	☐ OTHER	☒ PUMP
☐ OTHER	☐	☐ METHANOL	☐	☐ OTHER	☐	☐ OTHER	☒ FILTERS
☐ OTHER	☐	☐ OTHER	☐	☐ OTHER	☐	☐ OTHER	☐ NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ Volatile Organic Compounds	8260B	N	HCl	3 x 40 mL	✓	✓	see Above
☐							
☐							
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☒ NO ☐

NO-PURGE METHOD UTILIZED YES ☐ NO ☒

NUMBER OF GALLONS GENERATED ~7

If yes, purged approximately 1 standing volume prior to sampling or NA mL for this sample location.

SKETCH/NOTES

① prior to placing pump in well;

TOC-TOR = 0.38

Sampler Signature: Print Name: Brandon Shaw

Checked By: _____ Date: _____

LOW FLOW GROUNDWATER SAMPLING RECORD



511 Congress Street, Portland Maine 04101

PROJECT NAME
WAWNC Well 57 Dry Cleaner Study

PROJECT NUMBER
3612082117-04.1

SAMPLE ID
MW-105

SAMPLE TIME
1220

LOCATION ID
MW-105

DATE
May 17, 2011

START TIME
0820

END TIME
1240

SITE NAME/NUMBER
130191-P

PAGE
2 OF 3

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☒ 1/8 ☒ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

YES NO N/A

CAP ☒ ☐ ☐

CASING ☒ ☐ ☐

LOCKED ☒ ☐ ☐

COLLAR ☒ ☐ ☐

INITIAL DTW (BMP) 50.55 FT FINAL DTW (BMP) 54.81 FT PROT. CASING STICKUP (AGS) 0 FT TOC/TOR DIFFERENCE 0.28 FT

WELL DEPTH (BMP) 146.7 FT SCREEN LENGTH unknown FT PID AMBIENT AIR - PPM REFILL TIMER SETTING 11.5 SEC

WATER COLUMN 146.2 FT DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) 0.7 GAL PID WELL MOUTH - PPM DISCHARGE TIMER SETTING 3.5 SEC

CALCULATED GAL/VOL 23.4 GAL TOTAL VOL. PURGED 7 GAL DRAWDOWN/ TOTAL PURGED 0.1 PRESSURE TO PUMP 35 PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1011	BEGIN PURGING									
1101	54.78	175	15.08	0.261	6.22	0.75	71000	-54.1	193	
1106	54.81	175	15.26	0.270	6.32	0.65	71001	-61.6		
1111	54.80	175	15.32	0.271	6.36	0.62	71000	-62.3		
1116	54.81	175	15.27	0.274	6.40	0.60	71000	-65.6		
1121	54.80	175	15.22	0.276	6.41	0.53	71000	-68.3		
1126	54.80	175	15.19	0.275	6.40	0.60	71000	-65.4		
1131	54.80	175	15.19	0.275	6.35	0.63	933	-60.0		
1136	54.80	175	15.09	0.278	6.30	2.23	623	-54.3		
1141	54.80	175	15.06	0.281	6.26	4.02	574	-47.7		
1146	54.80	175	15.05	0.282	6.12	5.65	497	-29.8		
1151	54.81	175	15.09	0.285	6.17	5.62	319	-35.1		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP ☒ PERISTALTIC ☒ SUBMERGIBLE ☒ BLADDER

DECON FLUIDS USED ☒ LIQUINOX ☒ DEIONIZED WATER ☐ POTABLE WATER ☐ NITRIC ACID ☒ HEXANE ☐ METHANOL ☐ OTHER

TUBING/PUMP/BLADDER MATERIALS ☒ SILICON TUBING ☐ S. STEEL PUMP MATERIAL ☐ TEFLON TUBING ☐ PVC PUMP MATERIAL ☐ TEFLON LINED TUBING ☐ GEOPROBE SCREEN ☒ HDPE TUBING ☐ TEFLON BLADDER ☐ LDPE TUBING ☐ OTHER ☐ OTHER ☐ OTHER

EQUIPMENT USED ☒ WL METER 501mst 200' ☒ PID N4 ☒ WQ METER XSI 556 ☒ TURB. METER Hach 210cp ☒ PUMP muffs chalk ☐ OTHER ☐ FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ Volatile Organic Compounds	8260B	N	HCl	3 x 40 mL	✓	✓	See Above
☐							
☐							
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER YES NO
CONTAINERIZED ☒ ☐

NO-PURGE METHOD YES NO
UTILIZED ☐ ☒

NUMBER OF GALLONS GENERATED 7

If yes, purged approximately 1 standing volume prior to sampling or 7 mL for this sample location.

SKETCH/NOTES

see updated report figure

Sampler Signature

Print Name: Brandon Shaw

Checked By:

Date:

LOW FLOW GROUNDWATER SAMPLING RECORD



511 Congress Street, Portland Maine 04101

PROJECT NAME WAWNC Well 57 Dry Cleaner Study	
PROJECT NUMBER 3612082117-04.1	
SAMPLE ID MW-105	SAMPLE TIME

LOCATION ID MW-10MS	DATE May 17, 2011
START TIME 0820	END TIME 1240
SITE NAME/NUMBER 130191-P	PAGE 3 OF 3

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER _____

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER _____

MEASUREMENT POINT (MP) ☒ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER _____

WELL INTEGRITY

	YES	NO	N/A
CAP	☒	☐	☐
CASING	☒	☐	☐
LOCKED	☒	☐	☐
COLLAR	☒	☐	☐

INITIAL DTW (BMP) 50.55 FT	FINAL DTW (BMP) 54.81 FT	PROT. CASING STICKUP (AGS) 0. FT	TOC/TOR DIFFERENCE 0.38 FT
WELL DEPTH (BMP) 54.81 FT	SCREEN LENGTH Unknown FT	PID AMBIENT AIR PPM	REFILL TIMER SETTING 11.5 SEC
WATER COLUMN 146.2 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) ~1.7 GAL	PID WELL MOUTH PPM	DISCHARGE TIMER SETTING 3.5 SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041) ~23.4 GAL	TOTAL VOL. PURGED ~7 GAL	DRAWDOWN/TOTAL PURGED ~0.1	PRESSURE TO PUMP 35 PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

FIELD PARAMETERS WITH PROGRAM CALIBRATION ON 11/11/2011										
TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1011	BEGIN PURGING									
1156	54.81	175	15.08	0.293	6.22	1.09	272	-46.1	-193'	
1201	54.81	175	15.11	0.295	6.18	0.93	206	-37.3	↓	
1206	54.81	175	15.13	0.290	6.15	0.70	210	-35.6		
1211	54.81	175	15.14	0.283	6.14	0.63	204	-34.1		
1216	54.81	175	15.16	0.274	6.14	0.88	200	-31.2		
1220	Collected water sample @ mw - 10ms									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures [SF])

TEMP.: nearest degree (ex. 10.1 = 10)
 COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
 pH: nearest tenth (ex. 5.53 = 5.5)
 DO: nearest tenth (ex. 3.51 = 3.5)
 TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
 ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP		DECON FLUIDS USED		TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
☐ PERISTALTIC	☒	☒ LIQUINOX	☒	☐ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☒ WL METER	Solinst 200
☒ SUBMERSIBLE	☒	☒ DEIONIZED WATER	☒	☐ TEFLON TUBING	☐ PVC PUMP MATERIAL	☒ PID	NA
☐ BLADDER	☐	☐ POTABLE WATER	☐	☐ TEFLON LINED TUBING	☐ GEOPROBE SCREEN	☒ WQ METER	YSI 556
☐ WATERA	☐	☐ NITRIC ACID	☐	☐ HDPE TUBING	☒ TEFLON BLADDER	☒ TURB. METER	Hach 2100P
☐ OTHER	☐	☐ HEXANE	☒	☐ LDPE TUBING	☐ OTHER	☒ PUMP	Marschall
☐ OTHER	☐	☐ METHANOL	☐	☐ OTHER	☐ OTHER	☐ FILTERS	NO. TYPE
☐ OTHER	☐	☐ OTHER	☐	☐ OTHER	☐ OTHER		

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ Volatile Organic Compounds	8260B	N	HCl	3 x 40 mL	✓	✓	See Above
☐							
☐							
☐							
☐							
☐							
☐							
☐							
☐							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☒ NO ☐

NO-PURGE METHOD UTILIZED YES ☐ NO ☒

NUMBER OF GALLONS GENERATED ~7

If yes, purged approximately 1 standing volume prior to sampling or NA mL for this sample location.

SKETCH/NOTES

Collected duplicate sample here

Sampler Signature:

Print Name: Brandon Shaw

Checked By:

Date:

FIELD INSTRUMENTATION CALIBRATION RECORD

PROJECT NAME: WAWNC WELL 57 DRY CLEANERS STUDY TASK NO: 4 DATE: May 17, 2011
 PROJECT NUMBER: 3612082117-04.1 MACTEC CREW: BAS
 PROJECT LOCATION: New Hyde Park, New York SAMPLER NAME: Brandon Shaw
 WEATHER CONDITIONS (AM): 54°F, raining very hard. SAMPLER SIGNATURE: [Signature]
 WEATHER CONDITIONS (PM): 57°F, light rain CHECKED BY: DATE:

MULTI-PARAMETER WATER QUALITY METER

METER TYPE YSI

MODEL NO. #556

UNIT ID NO. 665

AM CALIBRATION

Start Time 0610 /End Time 0635

	Units	Standard Value	Meter Value	*Acceptance Criteria (AM)
pH (4)	SU	4.0	4.01	+/- 0.1 pH Units
pH (7)	SU	7.0	7.00	+/- 0.1 pH Units
pH (10)	SU	10.0	—	+/- 0.1 pH Units
Redox	+/- mV	240	246.4	+/- 10 mV
Conductivity	mS/cm	1.413	1.414	+/- 0.5 % of standard
DO (saturated)	%	100	99.8%	+/- 2% of standard
DO (saturated)	mg/L ¹ (see Chart 1)	9.1	9.46	+/- 0.2 mg/L
DO (<0.1)	mg/L	<0.1	—	<0.5 mg/L
Temperature	°C	—	17.95	—
Baro. Press.	mmHg	—	757.4	—

POST CALIBRATION CHECK

Start Time 2017 /End Time 2046

	Standard Value	Meter Value	*Acceptance Criteria (PM)
pH (4)	4.0	3.97	—
pH (7)	7.0	6.93	+/- 0.3 pH Units
Redox	240	247.6	+/- 10 mV
Conductivity	1.413	1.404	+/- 5% of standard
DO (saturated)	—	96.1	—
DO (<0.1)	—	9.08	+/- 0.5 mg/L of standard
Temperature	—	17.58	—
Baro. Press.	—	766.4	—

TURBIDITY METER

METER TYPE Hach

MODEL NO. 2100P

UNIT ID NO. Pine 12357

	Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
<0.1 Standard	NTU	<0.1	0.11	+/- 0.3 NTU of stan.
20 Standard	NTU	20	20.3	+/- 5% of standard
100 Standard	NTU	100	102	+/- 5% of standard
800 Standard	NTU	800	790	+/- 5% of standard

PHOTOIONIZATION DETECTOR

METER TYPE Background

MODEL NO. —

UNIT ID NO. —

	Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
Background	ppmv	<0.1	—	within 5 ppmv of BG
Span Gas	ppmv	100	—	+/- 10% of standard

O₂-LEL 4 GAS METER

METER TYPE —

MODEL NO. —

UNIT ID NO. —

	Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
Methane	%	50	—	+/- 10% of standard
O ₂	%	20.9	—	+/- 10% of standard
H ₂ S	ppmv	25	—	+/- 10% of standard
CO	ppmv	50	—	+/- 10% of standard

OTHER METER

METER TYPE —

MODEL NO. —

UNIT ID NO. —

	Units	Standard Value	Meter Value	*Acceptance Criteria (PM)
—	—	—	—	See Notes Below for Additional Information



Equipment calibrated within the Acceptance Criteria specified for each of the parameters listed above.



Equipment (not) calibrated within the Acceptance Criteria specified for each of the parameters listed above**.

MATERIALS RECORD

Deionized Water Source: Portland FOS
 Lot#/Date Produced: —
 Trip Blank Source: —
 Sample Preservatives Source: —
 Disposable Filter Type: 0.45µm cellulose
 Calibration Fluids / Standard Source:
 - DO Calibration Fluid (<0.1 mg/L) Portland FOS
 - Other —
 - Other —
 - Other —

	Cal. Standard Lot Number	Exp. Date
pH (4)	2010169	10-12
pH (7)	2011038	10-12
pH (10)	—	—
ORP	2424	06-15
Conductivity	8547	01-12
<0.1 Turb. Stan.	A1047	02-12
20 Turb. Stan.	A1066	13-12
100 Turb. Stan.	A1074	02-12
800 Turb. Stan.	A1056	02-12
PID Span Gas	—	—
O ₂ -LEL Span Gas	—	—
Other	—	—

NOTES:

* = Unless otherwise noted, calibration procedures and acceptance criteria are in general accordance with USEPA Region 1 SOPs for Field Instrument Calibration (EQASOP-FieldCalibrat) and Low Stress Purging and Sampling (EQASOP-GW001), each dated 1/19/2010. Additional acceptance criteria obtained from instrument specific manufacturer recommendations.

** = If meter reading is not within acceptance criteria, clean/replace probe and re-calibrate, or use calibrated back-up meter if available. If project requirements necessitate use of the instrument, clearly document any deviations from acceptance criteria on all data sheets and log book entries.

1 = DO Saturated standard value is calculated based on Oxygen Solubility at Indicated Pressure Chart from the USEPA Region 1 SOP for Field Instrument Calibration (EQASOP-FieldCalibrat), dated 1/19/2010.



511 Congress Street, Portland Maine 04101

FIGURE 6-1

FIELD INSTRUMENT CALIBRATION RECORD
 NYSDEC QUALITY ASSURANCE PROJECT PLAN

ATTACHMENT 2

IDW DISPOSAL DOCUMENTATION

Cycle Chem, Inc. 217 South First Street Elizabeth, NJ 07206 Phone: (908) 355-5800 Fax: (908) 355-0562	550 Industrial Dr. Lewisberry, PA 17339 Phone: (717) 938-4700 Fax: (717) 938-3301	General Chemical 133 Leland St. Framingham, MA 01701 Phone: (508) 872-5000 Fax: (508) 875-5271	Material Profile Sheet Generator Number: _____ Product Code: _____ Sales Code: _____
--	--	---	--

A. Generator Information

Generator Name	NYS Department of Environmental Conservation	Generator USEPA ID	NOT REQUIRED
Mailing Address	NYSDEC, Remedial Bureau A, 11 th Floor, 625 Broadway, Albany NY 12233-7015 Attn: Brian Jankauskas		
Site Address	NYSDEC Site No. 1-30-191 (various drilling locations New Hyde Park, NY 11042). Waste stored at 498 Stewart Ave New Hyde Park Dept of Public Works, NY 11042		
Generator Contact	Brian Jankauskas (NYSDEC Project Manager)	Phone #	518-402-9620
	Eric Sandin (Contractor: MACTEC Engineering)	Fax #	518-402-9022
			207 828-3556
			207-772-4762
Billing Address	1 Adler Drive, East Syracuse, NY 13057		
Billing Contact	Matthew Bard	Phone #	732-650-0080
		Fax #	732-650-0177

Name of Waste Purged Groundwater	Process Generating Waste Well Sampling
---	---

B. Physical Characteristics of Waste

Color/Physical Description: Groundwater Specific Gravity: _____

Strong Incidental Odor Present?: ☐ Yes ☒ No Wastewater?: ☐ Yes ☒ No

Physical State @ 70°:

☐ Solid ☒ Liquid ☐ Powder ☐ Semi-solid ☐ Single Phase ☐ Bi-layered ☐ Multilayered ☐ Sludge
 % Sludge _____ % Suspended solids _____ % Solid/Debris _____ % Free Liquids 100
 Dumpable: ☒ Yes ☐ No Pumpable: ☒ Yes ☐ No Pourable: ☒ Yes ☐ No

Flashpoint: ☐ <70° ☐ 70-100° ☐ 101-141° ☐ 142-200° ☐ >200° ☒ No Flash ☐ Exact _____

Ignitable Solid: ☐ Yes ☒ No

pH: ☐ <2 ☐ 2.01-5 ☒ 5.01-9 ☐ 9.01-12.4 ☐ >12.5 ☐ Exact _____

C. Shipping Information

Quantity: 1 Units: gal

Price: _____

Container : 55 gal drum

D. Transport Information

☐ CCI/GCC to Provide Transportation
☒ Customer to Deliver to CCI/GCC
☐ Customer to Deliver to end facility Via CCI/GCC

E. Chemical Composition

Description	Range Minimum	Range Maximum
See attached analytical – Purge Water	100.0%	0.0%

F. Regulatory Information

EPA Hazardous Waste?: ☐ Yes ☒ No USEPA Code(s): _____

Applicable Subcategories: _____

State Hazardous Waste?: ☐ Yes ☒ No State Code(s): _____

D.O.T. Hazardous Waste?: ☐ Yes ☒ No Proper Shipping Name: Groundwater, Single Phase Liquid

Class: Non-RCRA I.D. NO: Non-DOT P.G.: _____ R.Q.: _____

G. Special Handling Considerations

Project Codes: _____

Special Handling: _____

Special Handling: _____

Special Pricing: _____

H. Other Hazardous Characteristics

☐ RCRA Reactive ☐ Water Reactive ☐ Radioactive ☐ Subject to Subpart ☐ Etiological FF Benzene ☐ TSCA Regulated ☐ Oxidizing ☐ Pyrophoric ☐ Explosive ☒ None	None Actual PCB's ☒ Cyanides ☒ Phenolics ☒ Sulfides ☒ VOC's ☒	☐ Is this waste characteristically hazardous (EPA Waste Codes D004-D043): ☐ Does this waste contain underlying hazardous constituents As defined In 40 CFR 268(2)(I) at at concentrations exceeding the UTS treatment standards? If yes, list In section C.
--	---	--

GENERATOR CERTIFICATION: I hereby certify that all information submitted in this and attached documents is complete, contains true and accurate descriptions and is representative of the waste material, and that all relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed. If CCI discovers, after having taken delivery of the waste, that any waste does not conform to the identification and description on this MPS then CCI shall provide notice of such condition to the Generator and coordinate the return of the nonconforming waste to the point of origin as set forth on the manifest or to such other locations designated in writing by the Generator. Generator agrees to reimburse CCI for all handling, packaging, clean-up and transportation costs or charges, damage to equipment, and costs associated with lost time incurred by CCI during the receipt, handling, temporary storage and return of such nonconforming waste to point of origin or to such other location designated by Generator. I hereby authorize CCI to amend and/or correct any information on the MPS with the full understanding that if any amendment or correction is performed, I will be contacted as such to issue any approval.

AUTHORIZED SIGNATURE: Eric Sandin (acting as agent for NYS DEC) TITLE: Project Manager DATE: 6/29/2011

NON-HAZARDOUS WASTE MANIFEST

102123677A

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <u>N/A</u>		Manifest Document No. <u>070111-1</u>		2. Page 1 of 1	
3. Generator's Name and Mailing Address <u>Village of New Hyde Park Garage</u> <u>448 Stewart Ave</u> <u>New Hyde Park, NY 11042</u>				4. Generator's Phone <u>(318) 402-9620</u>			
5. Transporter 1 Company Name <u>OF-TECH Environmental</u>				6. US EPA ID Number <u>NYD 986980783</u>		A. State Transporter's ID <u>64166</u>	
7. Transporter 2 Company Name				8. US EPA ID Number		B. Transporter 1 Phone <u>732-650-0080</u>	
9. Designated Facility Name and Site Address <u>Cycle Chem Inc</u> <u>217 South 1st St</u> <u>Elizabeth, NJ 07206</u>				10. US EPA ID Number <u>NJ 0022 00046</u>		C. State Transporter's ID	
						D. Transporter 2 Phone	
						E. State Facility's ID	
						F. Facility's Phone <u>908 355 5800</u>	
11. WASTE DESCRIPTION				12. Containers		13. Total Quantity	
				No. Type		Unit Wt./Vol.	
a. <u>Groundwater, Single Phase Liquid (ChemDOT, Non-PCRA)</u>				1 Drum		30 gal	
b.							
c.							
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <u>a) Rem 002-1</u> <u>24 hr emergency response number 800-225-6750</u> <u>Truck # 959</u> <u>Decal # 15765</u> <u>Plate # 63554-JT</u>							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name <u>Joseph J Hickey</u>				Signature <u>Joseph J Hickey</u>		Date <u>7/1/11</u>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name <u>Dennis Flores</u>		Signature <u>[Signature]</u>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature	
18. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 18				Printed/Typed Name <u>[Signature]</u>		Signature <u>[Signature]</u>	
						Date <u>07/01/11</u>	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



OP-TECH

Standard DPR (Rev. 2009.10)



Daily Description: Picked up 1 new HAZ Drum
in New Hyde PARK, N.Y. Took it to
Cycle Chem in ELIZABETH.

Date: 7/1/2011

Job #: EMH-0009

Customer: MACTEC

Final DPR for this job? ☒ Y ☐ N

LABOR

(EE CODE to be completed by Office Administrator)

BILL CODE	LAST NAME FIRST INITIAL	EE CODE	TIME IN	BREAK	TIME OUT	HRS	BILL CODE	LAST NAME FIRST INITIAL	EE CODE	TIME IN	BREAK	TIME OUT	HRS
03	D. Flores	3818	0700	0	1200	5							

EQUIPMENT

BILL CODE	QTY	TYPE	EQUIPMENT FLEET #s	TIME IN	TIME OUT	HRS
16		Utility Truck				
10		Wet Vac				
11		Wet/Dry Vac				
18		Box Van				
25		Dump Truck				
06		Spill Trailer				
22		Backhoe				
03		Tractor				
28		Lowboy				
70		4 Gas Meter				
71		1" DD PUMP				
37		Pressure Wash (3000 psi)-SBO				
36		Compressor				
86		Cell Phone /day				
26		2-Way Radio /day				
84		Camera /day				

MATERIALS TAKEN FROM STOCK

BILL CODE	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
	55g Poly C/T Drum			
DR29	55g Steel Recon Drum			
DR15	85g Steel Overpack Dr			
SOR09	Sorbent Pads 100's			
SOR10	Sorbent Pads 200's			
SOR01	Sorbent Boom 5"			
SOR02	Sorbent Boom 8"			
SOR24	Speedi Dr			
HS24	Tyvek Suit, Polycoated			
HS01	Boots, Pullover			
HS03	Boot Covers			
HS10	Gloves, Nitrile			
HS08	Gloves, Leather			
HS11	Gloves, PVC			
MIS23	Poly Sheeting, 6m			
MIS57	Poly Trash Bags			
MIS47	Duct Tape			
CHE05	Degreaser			
HS17	Resp. Cartridges			

COSTS TO COME THROUGH A/P (VENDORS, SUBS, DISPOSAL, LABS, ETC.)

NAME	DESCRIPTION

APPROVAL SIGNATURES

OP-TECH Foreman

OP-TECH Manager

Customer Signature

Customer Name & Title

