

**November 19, 2012**

New York State Department of Environmental Conservation  
Division of Environmental Remediation, Region One  
Stony Brook University  
50 Circle Road, Stony Brook, New York 11790-3409

Attn: Mr. John Sheehan

**Re: Former CAMCO Site Characterization and Investigation  
Supplemental Investigation Phase I Results**  
2125 Smithtown Avenue, Ronkonkoma, New York  
Index # A1-0627-12-09 Site # 152206

Dear Mr. Sheehan:

EnviroTrac Ltd. (EnviroTrac) was retained by the Town of Islip (TOI) to conduct environmental assessment activities at the former CAMCO facility (Site) that are being implemented with oversight of the New York State Department of Environmental Conservation (NYSDEC). The general location of the Site is shown on Figure 1.

A draft Site Characterization and Investigation Report (draft Report) dated April, 2012, summarizing work performed in accordance with the NYSDEC approved Site Characterization and Investigation Work Plan (Work Plan) dated October 12, 2011, was presented to the NYSDEC for review and comment. The NYSDEC subsequently provided comments pertaining to the report in correspondence dated May 22, 2012 that included the following requests for additional evaluations:

- 1) An assessment of private water wells in the vicinity of the Site;
- 2) Documentation regarding demolition of the former building on Parcel A that was conducted by the TOI during late 2011, with a focus on soil quality beneath the removed foundation slab; and
- 3) Performance of a supplemental investigation to further evaluate the areas of the Site that have been identified as being impacted and to determine if the impacted areas will require remediation.

A Supplemental Site Characterization and Investigation Work Plan (Supplemental Work Plan), dated August 17, 2012, that presented elements to address these requests was provided to the NYSDEC and subsequently approved in correspondence dated August 21, 2012. Information pertaining to the private well assessment (Request #1, see above) will be provided in the Final Site Characterization and Investigation Report (Final Report). Information regarding the NYSDEC's enquiry pertaining to the demolition activities conducted at Parcel A (Request #2) was provided in the Supplemental Work Plan. The technical approach presented in the Supplemental Work Plan (Request #3) was developed with the intent of completing the site

characterization and investigation and provides three possible work phases. The need to conduct work beyond Phase I will be determined through evaluation of interim results.

A draft report dated October 18, 2012, summarizing results of the first phase of supplemental work conducted at the Site, was provided to the NYSDEC for review. Comments received in correspondence dated November 16, 2012 were addressed and incorporated into this final version.

## **Phase I Scope of Work**

### *Groundwater Assessment*

There are currently six monitoring wells (Figure 2) that are being used to assess groundwater at and in the near vicinity of the Site. Wells MW-1, MW-2 and MW-3 were installed prior to initiating the current work and the remaining three (MW-4, MW-5 and MW-6) were installed during late 2011 as a component of the Site Characterization and Investigation. Results pertaining to the initial sampling of the more recently installed wells revealed the presence of specific metals, volatile and semi-volatile organic compounds (VOCs and SVOCs) and organochlorine pesticides in groundwater at concentrations exceeding applicable NY Ambient Water Quality Standards (AWQS).

To further assess prior findings, wells MW-1 through MW-6 were sampled on August 30, 2012 (with the exception of MW-3 which was inaccessible on that date) using low-flow protocol in accordance with procedures provided in the Work Plan. Well MW-3 was subsequently sampled on September 4, 2012. These samples, and required quality control blank, spike and blind duplicate sample (taken at the MW-5 location and designated MW-7), were analyzed in the laboratory (Alpha Analytical, Westborough, MA) for the full target compound and analyte list (TCL/TAL) consisting of a comprehensive suite of VOCs, SVOCs, metals, PCBs, organochlorine pesticides and cyanide. Gauging data recorded using the six wells was used to determine the general direction of groundwater flow and calculate hydraulic gradient in the vicinity of the Site.

### *Soil Vapor Sampling*

The draft Report provided a comparison of soil vapor sampling results for testing conducted at Parcel A during March and September, 2008 and February, 2012 that revealed significant decreases in VOCs over that period. However, concentrations of some constituents including tetrachloroethene and trichloroethene were found to remain at levels that may, using criteria developed by the NYSDOH, present concerns pertaining to potential soil vapor intrusion to structures that may be constructed in the future.

An additional round of soil vapor sampling was conducted at Parcel A on August 30, 2012 to further evaluate the attenuation/persistence of VOCs. Existing soil vapor monitoring points SG-1, SG-2, SG-5, SG7, SG-8 and SG-9 (Figure 3) were sampled in accordance with procedures provided in the Work Plan using laboratory supplied and certified 6-liter Summa Canisters. These samples, and a quality control duplicate (designated SG-10) taken at the SG-7 location, were analyzed in the laboratory (Air Toxics, Folsom, CA) for the TO-15 list of VOCs.

## Summary of Results

### *Groundwater*

Groundwater sampling results pertaining to the testing conducted on August 30, and September 4, 2012 are provided in the attached summary tables:

Table 1 – Summary of Groundwater Sampling Results – Offsite

Table 2 – Summary of Groundwater Sampling Results – Parcel B

Table 3 – Summary of Groundwater Sampling Results – Parcel A

Groundwater sampling laboratory results are provided in Attachment 1.

Results of testing conducted during the implementation of the Site Characterization and Investigation indicate that the depth to groundwater in the vicinity of the Site is approximately 53 feet below grade and the direction of groundwater flow is to the southwest under an approximate hydraulic gradient of 0.001 ft/ft. Figure 4 depicts local groundwater flow patterns based on measurements recorded on September 14, 2012.

The following tables provide summaries of pertinent data comparing results of testing conducted during January/February and August/September, 2012.

Table 4 – Summary of Groundwater Elevation Measurements

Table 5 – Summary of Groundwater Sampling Field Parameters

Table 6 - Groundwater Sampling Results Exceeding Comparison Criteria

Overall, results of the September groundwater gauging are consistent with testing conducted earlier during 2012, in January, suggesting a relatively stable local groundwater flow direction. The more recent gauging revealed a slightly shallower horizontal hydraulic gradient.

Off-site wells MW-1 and MW-2, installed prior to initiating the current investigation, were sampled for the first time during August, 2012. Results did not reveal the presence of any VOCs, SVOCs or PCBs at levels exceeding the AWQS. Iron and chlordane were found at concentrations exceeding that criteria in MW-2.

Parcel A well MW-3, installed on the eastern side of the Parcel prior to initiating the current investigation, was sampled in September 2012 for the first time and all results were within the AWQS criteria. Wells MW-5 and MW-6, constructed in December 2011, have been sampled twice in 2012 and a comparison of results revealed a general increase in concentrations for constituents exceeding the AWQS in both of those wells. Constituents found in excess of criteria for both sampling events included metals, VOCs and SVOCs.

Parcel B well MW-4, constructed in December 2011, has been sampled twice in 2012 and a comparison of results revealed a decline in concentrations for all constituents and only chlordane was found exceeding the AWQS in the more recent sampling. Chlordane was also detected upgradient at off-site well MW-2 so the finding at Parcel B may be indicative of a more regional condition resulting from an off-site source.

### *Soil Vapor at Parcel A*

Soil vapor sampling results pertaining to testing conducted on August 30, 2012 are provided in the attached summary table:

#### Table 7 – Summary of Soil Vapor Sampling Results – Parcel A

Soil vapor sampling laboratory results are provided in Attachment 2.

A comparison of results of selected VOCs from sampling conducted during 2008 and 2012 is provided in the attached summary table:

#### Table 8 – Comparison of 2008 and 2012 Soil Vapor Sampling Results - Parcel A

Including the August 2012 testing, soil vapor monitoring points SG-1, SG-2, SG-5, SG-7 and SG-8 have been sampled on three occasions. During the period from 2008 to February, 2012 these wells exhibited declines in total VOC concentrations ranging from 28% to 96%. Comparison of results for the two sampling rounds conducted during 2012 reveal a general increase in concentrations. However, with the exception of SG-1, these increases resulted in levels that notably remained below those from 2008. The total VOC concentration declines in comparing the August 2012 to 2008 results were more modest than those calculated using the February 2012 data (as presented above), and ranged from 15% to 79%, excluding the results for SG-1.

## **Recommendations**

### *Groundwater*

Results from two rounds of testing conducted during 2012 have revealed VOCs to be the primary constituents found in groundwater at levels exceeding regulatory criteria. The wells where criteria were found to exceed criteria consisted of MW-4, MW-5 and MW-6, that are located within Parcels A and B. While concentrations at Parcel B exhibited a consistent decline over the two testing rounds, those in Parcel A generally experienced modest increases. These changes may be due to seasonal variations within the hydrogeologic environment and/or the residual effects of drilling and well installation, as the affected wells were all recently installed. An additional round of testing, as described in Phase 2 of the Supplemental Work Plan, will be conducted in May 2013 that will focus on further assessing the declines at Parcel B and the increases observed at Parcel A. Each of the existing six wells (MW-1 through MW-6) will be sampled and, in consideration of prior testing results, the Phase 2 analytical parameter list will be reduced to include analysis of VOCs only.

### *Soil Vapor at Parcel A*

The August 2012 soil vapor sampling results suggest that concentrations of VOCs in the subsurface are declining based on comparison with data from testing conducted during 2008. However, as increases were observed during 2012 an accurate trending assessment may be premature at this time. Therefore it is recommended that the soil vapor testing presented in the Supplemental Work Plan pertaining to Phase 2 be conducted. Prior testing has been conducted

in the winter and summer. To further assess possible seasonal effects on shallow soil vapor the proposed testing should be conducted during May (spring) of 2013. This approach will also provide additional time for natural degradation to proceed and residual impacts from the demolition activities conducted during late 2011 to further dissipate.

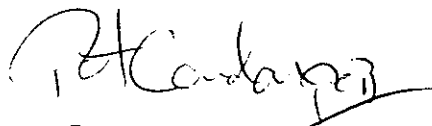
*Reporting of Results*

Following implementation of the recommendations presented, results will be compiled and evaluated as discussed in the Supplemental Work Plan. A summary report similar to this document will be prepared and provided to the NYSDEC for review and comment.

Please do not hesitate to contact the undersigned if you have any questions regarding the results presented or require further information.

Sincerely,

**EnviroTrac Ltd.**



Patrick Condon  
Project Manager



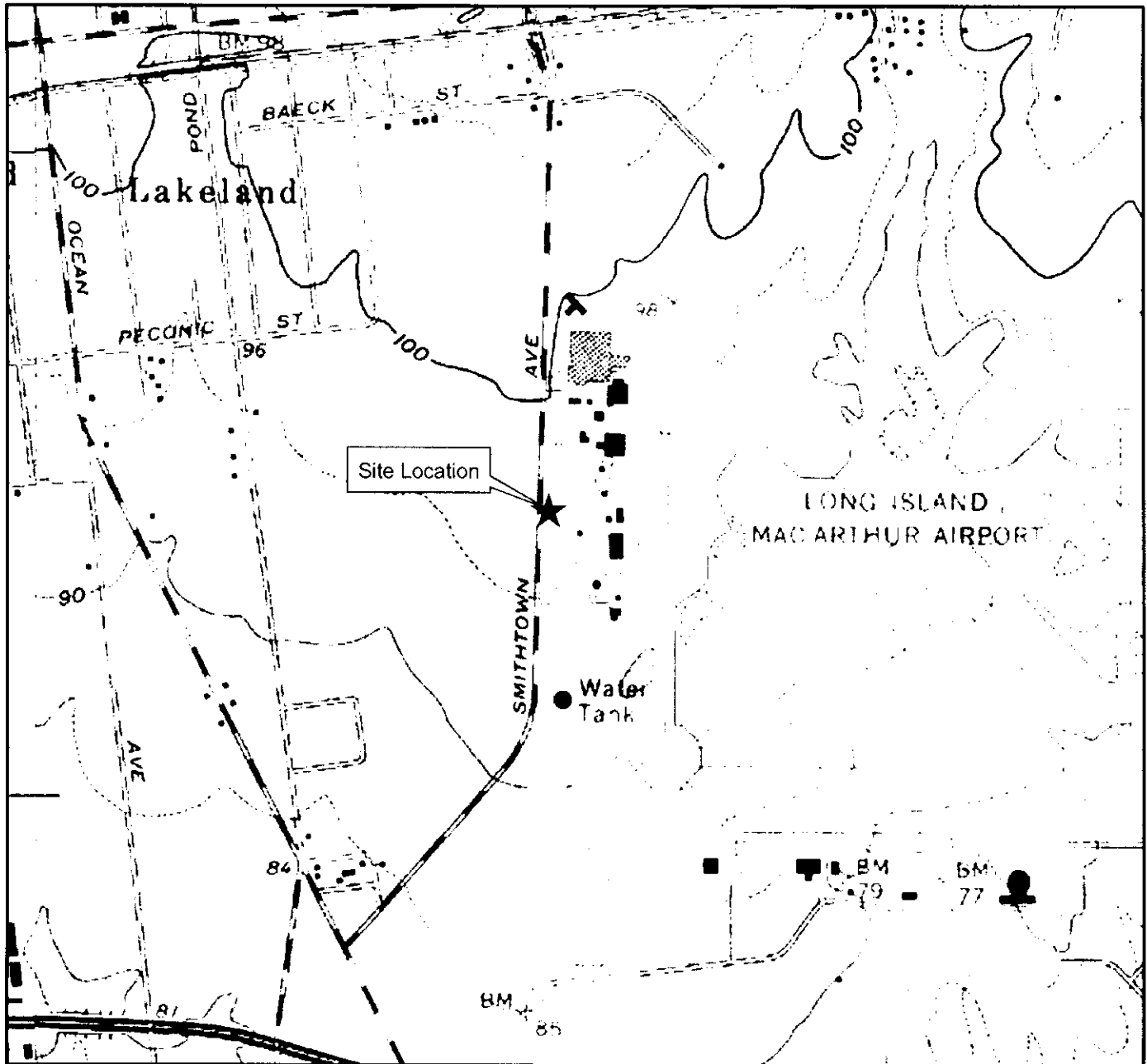
Peter C. Breen, CPG  
Senior Project Manager

Attachments

cc: T. Hennessey, Town of Islip

Figures

# TOPOGRAPHIC MAP



**Figure 1**  
**Site Location**

CAMCO  
2125 Smithtown Avenue  
Ronkonkoma, NY

USGS Quadrangle:  
Central Islip

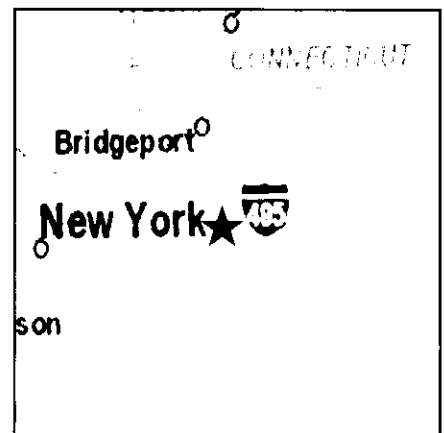
Approx. Elevation:  
87 feet



**EnviroTrac**

Environmental Services  
5 Old Dock Road  
Yaphank, NY 11980

P: 631-924-3001 F: 631-924-5001



# AERIAL PHOTOGRAPH

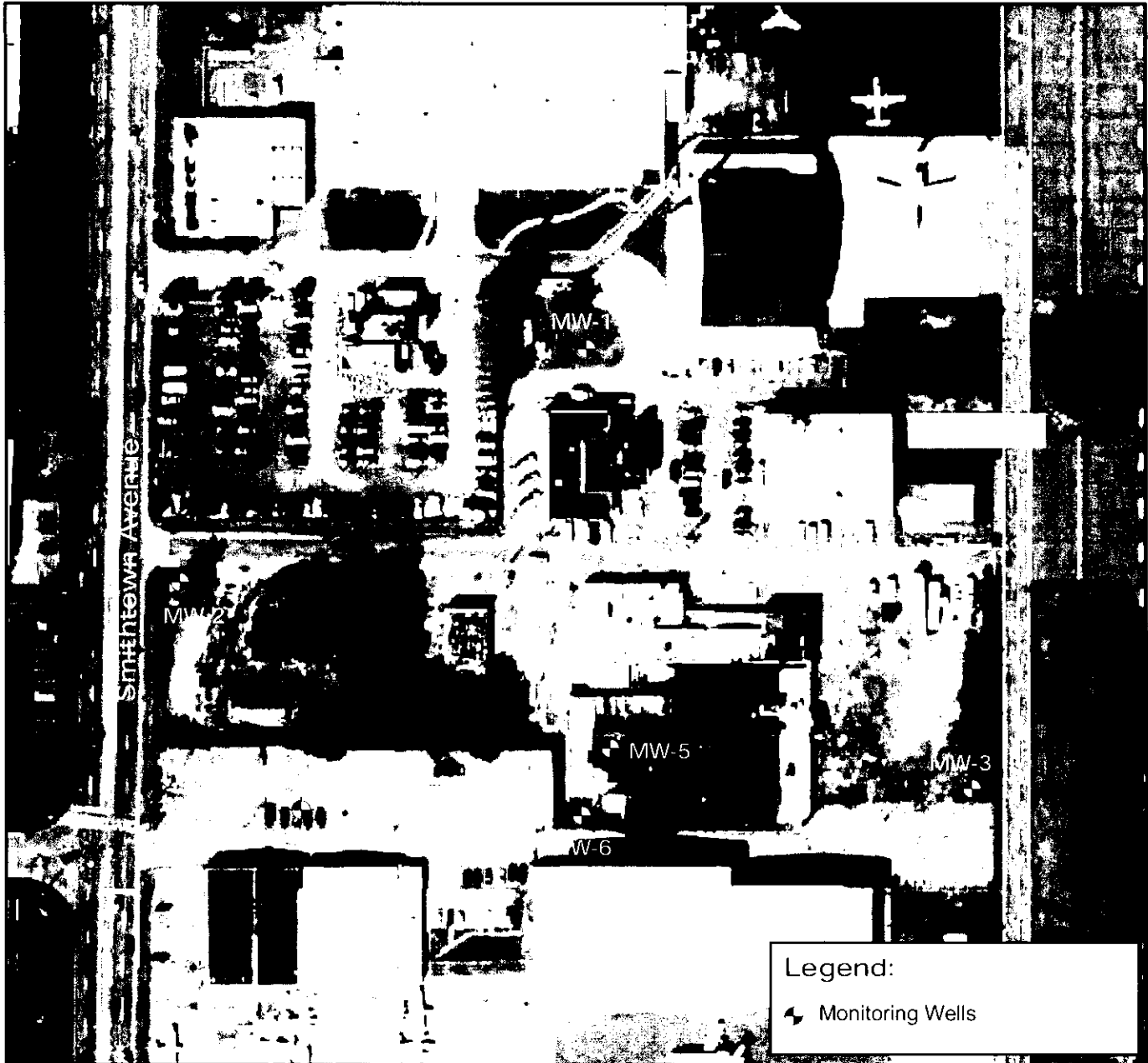


Figure 2  
Monitoring Well  
Locations

CAMCO  
2125 Smithtown Ave.  
Ronkonkoma, NY

0 100 200



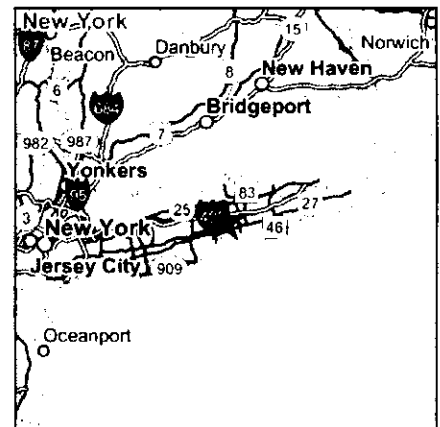
Feet

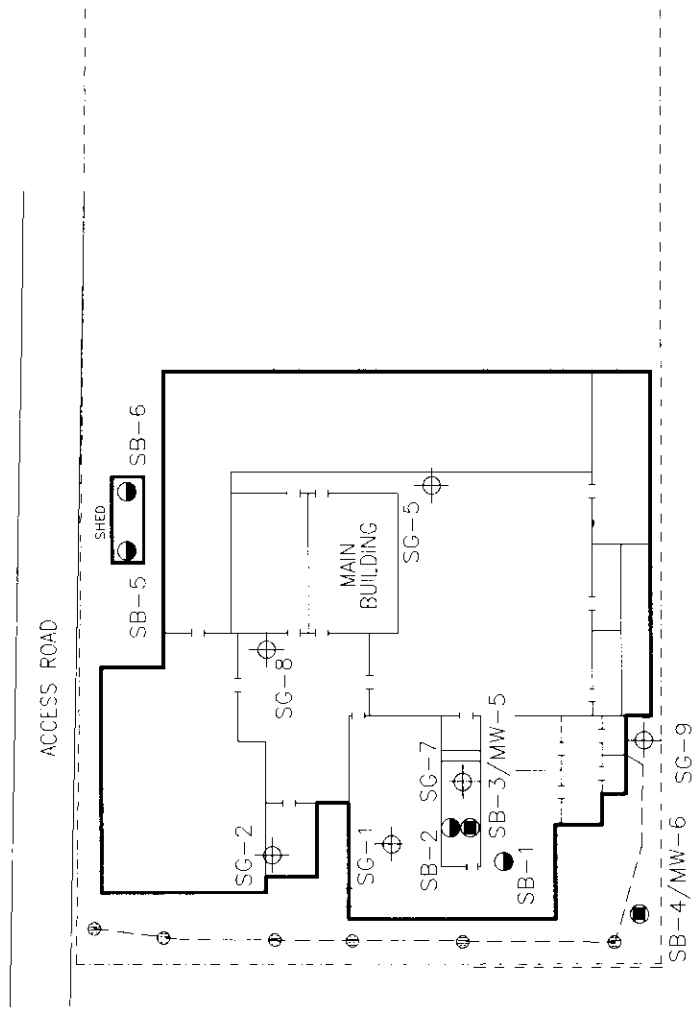
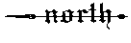


**EnviroTrac**

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TO  
PARCEL B  
←

**LEGEND:**

- MACARTHUR AIRPORT STORM WATER DRAINAGE SYSTEM
- - - PROPERTY LINE
- STORM DRAIN
- ⊕ SOIL GAS SAMPLE (SG)
- SOIL BORING (SB)
- ⊕ SOIL BORING/MONITORING WELL

0 50  
APPROX. SCALE IN FEET

NOTE:  
SITE PLAN BASED ON A DRAWING PREPARED BY  
FENLEY & NICOL, INC.

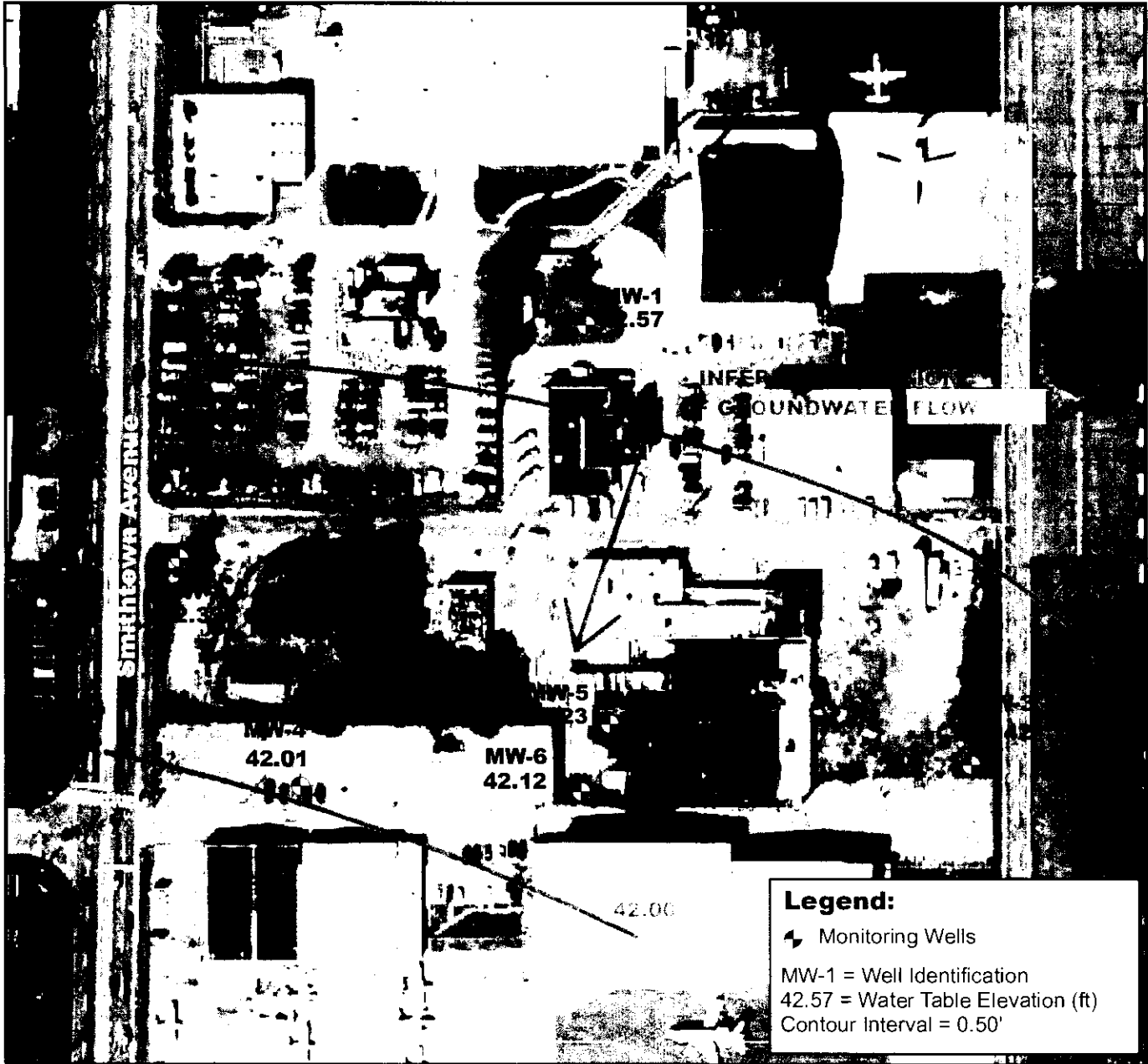
**Envirotrac**  
ENVIRONMENTAL SERVICES  
5 OLD DOG ROAD, PHARMACY, NEW YORK, 11080  
PHONE: (516) 924-3001 FAX: (516) 924-3001

REVISION DATE:  
SEPTEMBER 17, 2012  
REVISED BY:  
T.B.

CAMCO  
2125 SMITHTOWN AVENUE  
RONKONKOMA, NEW YORK

INVESTIGATION LOCATIONS - PARCEL A  
FIGURE #  
3

# AERIAL PHOTOGRAPH



**Figure 4**  
**Groundwater**  
**Flow Patterns**  
**September 14, 2012**

CAMCO  
 2125 Smithtown Ave.  
 Ronkonkoma, NY

0 100 200



Feet



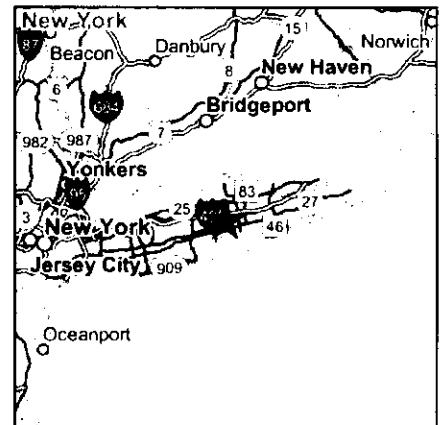
**EnviroTrac**

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Tables

Table 1: Summary of Groundwater Sampling Results - Offsite

Former CAMCO Site  
Ronkonkoma, New York

LOCATION	NY-AWQS	MW-1	MW-2
<b>General Chemistry</b>			
Cyanide, Total (mg/kg)	200	2 J	2 J
<b>Total Metals (ug/l)</b>			
Aluminum, Total		147	1740
Antimony, Total	3	0.8 J	0.8
Arsenic, Total	25	0.5 U	1.9
Barium, Total	1000	8.8	29.2
Beryllium, Total	3	0.5 U	0.1 J
Cadmium, Total	5	0.2 J	0.1 J
Calcium, Total		8870	15000
Chromium, Total	50	1.2	11.8
Cobalt, Total		0.5 U	1
Copper, Total	200	1	4.4
Iron, Total	300	235	3290
Lead, Total	25	0.2 J	4
Magnesium, Total	35000	1460	1900
Manganese, Total	300	2.8	135.6
Mercury, Total	0.7	0.2 U	0.2 U
Nickel, Total	100	0.5 J	5.8
Potassium, Total		1340	1690
Selenium, Total	10	0.4 J	1 J
Silver, Total	50	0.5 U	0.5 U
Sodium, Total	20000	5390	6680
Thallium, Total	0.5	0.5 U	0.1 J
Vanadium, Total		5 U	4.3 J
Zinc, Total	2000	3 J	10.8

<b>Volatile Organics (ug/l)</b>					
1,1,1,2-Tetrachloroethane	5	2.5	U	2.5	U
1,1,1-Trichloroethane	5	2.5	U	2.5	U
1,1,2,2-Tetrachloroethane	5	0.5	U	0.5	U
1,1,2-Trichloroethane	1	1.5	U	1.5	U
1,1-Dichloroethane	5	2.5	U	2.5	U
1,1-Dichloroethene	5	0.5	U	0.5	U
1,1-Dichloropropene	5	2.5	U	2.5	U
1,2,3-Trichlorobenzene	5	2.5	U	2.5	U
1,2,3-Trichloropropane	0.04	2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene		2	U	2	U
1,2,4-Trichlorobenzene	5	2.5	U	2.5	U
1,2,4-Trimethylbenzene	5	2.5	U	2.5	U
1,2-Dibromo-3-chloropropane	0.04	2.5	U	2.5	U
1,2-Dibromoethane	0.0006	2	U	2	U
1,2-Dichlorobenzene	3	2.5	U	2.5	U
1,2-Dichloroethane	0.6	0.5	U	0.5	U
1,2-Dichloropropane	1	1	U	1	U
1,3,5-Trimethylbenzene	5	2.5	U	2.5	U
1,3-Dichlorobenzene	3	2.5	U	2.5	U
1,3-Dichloropropane	5	2.5	U	2.5	U
1,4-Dichlorobenzene	3	2.5	U	2.5	U
1,4-Diethylbenzene		2	U	2	U
2,2-Dichloropropane	5	2.5	U	2.5	U
2-Butanone	50	5	U	5	U
2-Hexanone	50	5	U	5	U
4-Ethyltoluene		2	U	2	U
4-Methyl-2-pentanone		5	U	5	U

Table 1: Summary of Groundwater Sampling Results - Offsite

Former CAMCO Site  
Ronkonkoma, New York

LOCATION	NY-AWQS	MW-1		MW-2	
Acetone	50	5	U	5	U
Acrylonitrile	5	5	U	5	U
Benzene	1	0.5	U	0.5	U
Bromobenzene	5	2.5	U	2.5	U
Bromochloromethane	5	2.5	U	2.5	U
Bromodichloromethane	50	0.5	U	0.5	U
Bromoform	50	2	U	2	U
Bromomethane	5	2.5	U	2.5	U
Carbon disulfide	60	5	U	5	U
Carbon tetrachloride	5	0.5	U	0.5	U
Chlorobenzene	5	2.5	U	2.5	U
Chloroethane	5	0.91	J	2.5	U
Chloroform	7	2.5	U	2.5	U
Chloromethane		2.5	U	2.5	U
cis-1,2-Dichloroethene	5	2.5	U	2.5	U
cis-1,3-Dichloropropene	0.4	0.5	U	0.5	U
Dihromochloromethane	50	0.5	U	0.5	U
Dibromomethane	5	5	U	5	U
Dichlorodifluoromethane	5	5	U	5	U
Ethyl ether		2.5	U	2.5	U
Ethylbenzene	5	2.5	U	2.5	U
Hexachlorobutadiene	0.5	2.5	U	2.5	U
Isopropylbenzene	5	2.5	U	2.5	U
Methyl tert butyl ether	10	2.5	U	2.5	U
Methylene chloride	5	2.5	U	2.5	U
n-Butylbenzene	5	2.5	U	2.5	U
n-Propylbenzene	5	2.5	U	2.5	U
Naphthalene	10	2.5	U	2.5	U
o-Chlorotoluene	5	2.5	U	2.5	U
o-Xylene	5	2.5	U	2.5	U
p-Chlorotoluene	5	2.5	U	2.5	U
p-Isopropyltoluene	5	2.5	U	2.5	U
p/m-Xylene	5	2.5	U	2.5	U
sec-Butylbenzene	5	2.5	U	2.5	U
Styrene	5	2.5	U	2.5	U
tert-Butylbenzene	5	2.5	U	2.5	U
Tetrachloroethene	5	0.5	U	0.5	U
Toluene	5	2.5	U	2.5	U
trans-1,2-Dichloroethene	5	2.5	U	2.5	U
trans-1,3-Dichloropropene	0.4	0.5	U	0.5	U
trans-1,4-Dicbloro-2-butene	5	2.5	U	2.5	U
Trichloroethene	5	0.5	U	0.5	U
Trichlorofluoromethane	5	2.5	U	2.5	U
Vinyl acetate		5	U	5	U
Vinyl chloride	2	1	U	1	U

Semivolatile Organics (ug/l)

1,2,4,5-Tetrachlorobenzene	5	10	U	10	U
1,2,4-Trichlorobenzene	5	5	U	5	U
1,2-Dichlorobenzene	3	2	U	2	U
1,3-Dichlorobenzene	3	2	U	2	U
1,4-Dichlorobenzene	3	2	U	2	U
2,4,5-Trichlorophenol		5	U	5	U
2,4,6-Trichlorophenol		5	U	5	U
2,4-Dichlorophenol	1	5	U	5	U
2,4-Dimethylphenol	50	5	U	5	U
2,4-Dinitrophenol	10	20	U	20	U

Table 1: Summary of Groundwater Sampling Results - Offsite

Former CAMCO Site  
 Ronkonkoma, New York

LOCATION	NY-AWQS	MW-1	MW-2
2,4-Dinitrotoluene	5	5 U	5 U
2,6-Dinitrotoluene	5	5 U	5 U
2-Chlorophenol		2 U	2 U
2-Methylphenol		5 U	5 U
2-Nitroaniline	5	5 U	5 U
2-Nitrophenol		10 U	10 U
3,3'-Dichlorobenzidine	5	5 U	5 U
3-Methylphenol/4-Methylphenol		5 U	5 U
3-Nitroaniline	5	5 U	5 U
4,6-Dinitro-o-cresol		10 U	10 U
4-Bromophenyl phenyl ether		2 U	2 U
4-Chloroaniline	5	5 U	5 U
4-Chlorophenyl phenyl ether		2 U	2 U
4-Nitroaniline	5	5 U	5 U
4-Nitrophenol		10 U	10 U
Acetophenone		5 U	5 U
Benzoic Acid		50 U	50 U
Benzyl Alcohol		2 U	2 U
Biphenyl		2 U	2 U
Bis(2-chloroethoxy)methane	5	5 U	5 U
Bis(2-chloroethyl)ether	1	2 U	2 U
Bis(2-chloroisopropyl)ether	5	2 U	2 U
Bis(2-Ethylhexyl)phthalate	5	3 U	3 U
Butyl benzyl phthalate	50	5 U	5 U
Carbazole		2 U	2 U
Di-n-butylphthalate	50	5 U	5 U
Di-n-octylphthalate	50	5 U	5 U
Dibenzofuran		2 U	2 U
Diethyl phthalate	50	5 U	5 U
Dimethyl phthalate	50	5 U	5 U
Hexachlorocyclopentadiene	5	20 U	20 U
Isophorone	50	5 U	5 U
n-Nitrosodi-n-propylamine		5 U	5 U
Nitrobenzene	0.4	2 U	2 U
NitrosoDiPhenylAmine(NDPA)/DF	50	2 U	2 U
P-Chloro-M-Cresol		2 U	2 U
Phenol	1	5 U	5 U
2-Chloronaphthalene	10	0.2 U	0.2 U
2-Methylnaphthalene		0.2 U	0.2 U
Acenaphthene	20	0.2 U	0.2 U
Acenaphthylene		0.2 U	0.2 U
Anthracene	50	0.2 U	0.2 U
Benzo(a)anthracene		0.2 U	0.2 U
Benzo(a)pyrene		0.2 U	0.2 U
Benzo(b)fluoranthene	0.002	0.2 U	0.2 U
Benzo(ghi)perylene		0.2 U	0.2 U
Benzo(k)fluoranthene	0.002	0.2 U	0.2 U
Chrysene	0.002	0.2 U	0.2 U
Dibenzo(a,h)anthracene		0.2 U	0.2 U
Fluoranthene	50	0.2 U	0.2 U
Fluorene	50	0.2 U	0.2 U
Hexachlorobenzene	0.04	0.8 U	0.8 U
Hexachlorobutadiene	0.5	0.5 U	0.5 U
Hexachloroethane	5	0.8 U	0.8 U
Indeno(1,2,3-cd)Pyrene	0.002	0.2 U	0.2 U
Naphthalene	10	0.2 U	0.2 U
Pentachlorophenol	1	0.8 U	0.8 U

Table 1: Summary of Groundwater Sampling Results - Offsite

Former CAMCO Site  
Ronkonkoma, New York

LOCATION	NY-AWQS	MW-1	MW-2
Phenanthrene	50	0.2 U	0.2 U
Pyrene	50	0.2 U	0.2 U

Polychlorinated Biphenyls (ug/l)

Aroclor 1016	0.09	0.25 U	0.25 U
Aroclor 1221	0.09	0.25 U	0.25 U
Aroclor 1232	0.09	0.25 U	0.25 U
Aroclor 1242	0.09	0.25 U	0.25 U
Aroclor 1248	0.09	0.25 U	0.25 U
Aroclor 1254	0.09	0.25 U	0.25 U
Aroclor 1260	0.09	0.25 U	0.25 U

Organochlorine Pesticides (ug/l)

4,4'-DDD	0.3	0.04 U	0.04 U
4,4'-DDE	0.2	0.04 U	0.04 U
4,4'-DDT	0.2	0.04 U	0.04 U
Aldrin		0.02 U	0.02 U
Alpha-BHC	0.01	0.02 U	0.02 U
Beta-BHC	0.04	0.02 U	0.02 U
Chlordane	0.05	0.2 U	0.123 J
Delta-BHC	0.04	0.02 U	0.02 U
Dieldrin	0.004	0.04 U	0.04 U
Endosulfan I		0.02 U	0.02 U
Endosulfan II		0.04 U	0.04 U
Endosulfan sulfate		0.04 U	0.04 U
Endrin		0.04 U	0.04 U
Endrin ketone	5	0.04 U	0.04 U
Heptachlor	0.04	0.02 U	0.02 U
Heptachlor epoxide	0.03	0.02 U	0.02 U
Lindane	0.05	0.02 U	0.02 U
Methoxychlor	35	0.2 U	0.2 U
Toxaphene	0.06	0.2 U	0.2 U
trans-Chlordane		0.02 U	0.011 J

Notes:

Sampling conducted August 30, 2012.

U - Compound was not detected relative to the indicated limit.

J - Estimated value.

Result exceeds the NY-AWQS - NYSDEC Part 703 Groundwater Quality Standard/Guidance Value.

Table 2: Summary of Groundwater Sampling Results - Parcel B

Former CAMCO Site  
Ronkonkoma, New York

LOCATION	NY-AWQS	MW-4	
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General Chemistry

Cyanide, Total (mg/kg)	200	3	J
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Total Metals (ug/l)

Aluminum, Total		17	
Antimony, Total	3	0.7	J
Arsenic, Total	25	0.5	U
Barium, Total	1000	19.2	
Beryllium, Total	3	0.5	U
Cadmium, Total	5	0.5	U
Calcium, Total		16300	
Chromium, Total	50	0.8	J
Cobalt, Total		0.5	U
Copper, Total	200	0.5	J
Iron, Total	300	110	
Lead, Total	25	1	U
Magnesium, Total	35000	3390	
Manganese, Total	300	5.1	
Mercury, Total	0.7	0.2	U
Nickel, Total	100	0.5	
Potassium, Total		1100	
Selenium, Total	10	5	U
Silver, Total	50	0.5	U
Sodium, Total	20000	17300	
Thallium, Total	0.5	0.5	U
Vanadium, Total		5	U
Zinc, Total	2000	5.1	J

Volatile Organics (ug/l)

1,1,1,2-Tetrachloroethane	5	2.5	U
1,1,1-Trichloroethane	5	2.5	U
1,1,2,2-Tetrachloroethane	5	0.5	U
1,1,2-Trichloroethane	1	1.5	U
1,1-Dichloroethane	5	2.5	U
1,1-Dichloroethene	5	0.5	U
1,1-Dichloropropene	5	2.5	U
1,2,3-Trichlorobenzene	5	2.5	U
1,2,3-Trichloropropane	0.04	2.5	U
1,2,4,5-Tetramethylbenzene		2	U
1,2,4-Trichlorobenzene	5	2.5	U
1,2,4-Trimethylbenzene	5	2.5	U
1,2-Dibromo-3-chloropropane	0.04	2.5	U
1,2-Dibromoethane	0.0006	2	U
1,2-Dichlorobenzene	3	2.5	U
1,2-Dichloroethane	0.6	0.5	U
1,2-Dichloropropane	1	1	U
1,3,5-Trimethylbenzene	5	2.5	U
1,3-Dichlorobenzene	3	2.5	U
1,3-Dichloropropane	5	2.5	U
1,4-Dichlorobenzene	3	2.5	U
1,4-Diethylbenzene		2	U
2,2-Dichloropropane	5	2.5	U
2-Butanone	50	5	U
2-Hexanone	50	5	U
4-Ethyltoluene		2	U

Table 2: Summary of Groundwater Sampling Results - Parcel B

Former CAMCO Site  
Ronkonkoma, New York

LOCATION	NY-AWQS	MW-4	
4-Methyl-2-pentanone		5	U
Acetone	50	5	U
Acrylonitrile	5	5	U
Benzene	1	0.5	U
Bromobenzene	5	2.5	U
Bromochloromethane	5	2.5	U
Bromodichloromethane	50	0.5	U
Bromoform	50	2	U
Bromomethane	5	2.5	U
Carbon disulfide	60	5	U
Carbon tetrachloride	5	0.5	U
Chlorobenzene	5	2.5	U
Chloroethane	5	2.5	U
Chloroform	7	2.5	U
Chloromethane		2.5	U
cis-1,2-Dichloroethene	5	2.5	U
cis-1,3-Dichloropropene	0.4	0.5	U
Dibromochloromethane	50	0.5	U
Dibromomethane	5	5	U
Dichlorodifluoromethane	5	5	U
Ethyl ether		2.5	U
Ethylbenzene	5	2.5	U
Hexachlorobutadiene	0.5	2.5	U
Isopropylbenzene	5	2.5	U
Methyl tert butyl ether	10	2.5	U
Methylene chloride	5	2.5	U
n-Butylbenzene	5	2.5	U
n-Propylbenzene	5	2.5	U
Naphthalene	10	2.5	U
o-Chlorotoluene	5	2.5	U
o-Xylene	5	2.5	U
p-Chlorotoluene	5	2.5	U
p-Isopropyltoluene	5	2.5	U
p/m-Xylene	5	2.5	U
sec-Butylbenzene	5	2.5	U
Styrene	5	2.5	U
tert-Butylbenzene	5	2.5	U
Tetrachloroethene	5	0.5	U
Toluene	5	2.5	U
trans-1,2-Dichloroethene	5	2.5	U
trans-1,3-Dichloropropene	0.4	0.5	U
trans-1,4-Dichloro-2-butene	5	2.5	U
Trichloroethene	5	0.5	U
Trichlorofluoromethane	5	2.5	U
Vinyl acetate		5	U
Vinyl chloride	2	1	U

Semivolatile Organics (ug/l)

1,2,4,5-Tetrachlorobenzene	5	10	U
1,2,4-Trichlorobenzene	5	5	U
1,2-Dichlorobenzene	3	2	U
1,3-Dichlorobenzene	3	2	U
1,4-Dichlorobenzene	3	2	U
2,4,5-Trichlorophenol		5	U
2,4,6-Trichlorophenol		5	U
2,4-Dichlorophenol	1	5	U

Table 2: Summary of Groundwater Sampling Results - Parcel B

Former CAMCO Site  
Ronkonkoma, New York

LOCATION	NY-AWQS	MW-4	
2,4-Dimethylphenol	50	5	U
2,4-Dinitrophenol	10	20	U
2,4-Dinitrotoluene	5	5	U
2,6-Dinitrotoluene	5	5	U
2-Chlorophenol		2	U
2-Methylphenol		5	U
2-Nitroaniline	5	5	U
2-Nitrophenol		10	U
3,3'-Dichlorobenzidine	5	5	U
3-Methylphenol/4-Methylphenol		5	U
3-Nitroaniline	5	5	U
4,6-Dinitro-o-cresol		10	U
4-Bromophenyl phenyl ether		2	U
4-Chloroaniline	5	5	U
4-Chlorophenyl phenyl ether		2	U
4-Nitroaniline	5	5	U
4-Nitrophenol		10	U
Acetophenone		5	U
Benzoic Acid		50	U
Benzyl Alcohol		2	U
Biphenyl		2	U
Bis(2-chloroethoxy)methane	5	5	U
Bis(2-chloroethyl)ether	1	2	U
Bis(2-chloroisopropyl)ether	5	2	U
Bis(2-Ethylhexyl)phthalate	5	3	U
Butyl benzyl phthalate	50	5	U
Carbazole		2	U
Di-n-butylphthalate	50	5	U
Di-n-octylphthalate	50	5	U
Dibenzofuran		2	U
Diethyl phthalate	50	5	U
Dimethyl phthalate	50	5	U
Hexachlorocyclopentadiene	5	20	U
Isophorone	50	5	U
n-Nitrosodi-n-propylamine		5	U
Nitrobenzene	0.4	2	U
NitrosoDiPhenylAmine(NDPA)/DPA	50	2	U
P-Chloro-M-Cresol		2	U
Phenol	1	5	U
2-Chloronaphthalene	10	0.2	U
2-Methylnaphthalene		0.2	U
Acenaphthene	20	0.2	U
Acenaphthylene		0.2	U
Anthracene	50	0.2	U
Benzo(a)anthracene		0.2	U
Benzo(a)pyrene		0.2	U
Benzo(b)fluoranthene	0.002	0.2	U
Benzo(ghi)perylene		0.2	U
Benzo(k)fluoranthene	0.002	0.2	U
Chrysene	0.002	0.2	U
Dibenzo(a,h)anthracene		0.2	U
Fluoranthene	50	0.2	U
Fluorene	50	0.2	U
Hexachlorobenzene	0.04	0.8	U
Hexachlorobutadiene	0.5	0.5	U
Hexachloroethane	5	0.8	U

Table 2: Summary of Groundwater Sampling Results - Parcel B

Former CAMCO Site  
Ronkonkoma, New York

LOCATION	NY-AWQS	MW-4	
Indeno(1,2,3-cd)Pyrene	0.002	0.2	U
Naphthalene	10	0.2	U
Pentachlorophenol	1	0.8	U
Phenanthrene	50	0.2	U
Pyrene	50	0.2	U

Polychlorinated Biphenyls (ug/l)

Aroclor 1016	0.09	0.25	U
Aroclor 1221	0.09	0.25	U
Aroclor 1232	0.09	0.25	U
Aroclor 1242	0.09	0.25	U
Aroclor 1248	0.09	0.25	U
Aroclor 1254	0.09	0.25	U
Aroclor 1260	0.09	0.25	U

Organochlorine Pesticides (ug/l)

4,4'-DDD	0.3	0.04	U
4,4'-DDE	0.2	0.04	U
4,4'-DDT	0.2	0.04	U
Aldrin		0.02	U
Alpha-BHC	0.01	0.02	U
Beta-BHC	0.04	0.02	U
Chlordane	0.05	0.356	
Delta-BHC	0.04	0.02	U
Dieldrin	0.004	0.04	U
Endosulfan I		0.02	U
Endosulfan II		0.04	U
Endosulfan sulfate		0.04	U
Endrin		0.04	U
Endrin ketone	5	0.04	U
Heptachlor	0.04	0.02	U
Heptachlor epoxide	0.03	0.02	U
Lindane	0.05	0.02	U
Methoxychlor	35	0.2	U
Toxaphene	0.06	0.2	U
trans-Chlordane		0.019	J

Notes:

Sampling conducted August 30, 2012.

U - Compound was not detected relative to the indicated limit.

J - Estimated value.

Result exceeds the NY-AWQS - NYSDEC Part 703 Groundwater Quality Standard/Guidance Value.

Table 3: Summary of Groundwater Sampling Results - Parcel A

Former CAMCO Site  
Ronkonkoma, New York

LOCATION	NY-AWQS	MW-3 (2)	MW-5 (1)	MW-7 (1,3)	MW-6 (1)	
<b>General Chemistry</b>						
Cyanide, Total (mg/kg)	200	6	2	J	5 U	3 J

**Total Metals (ug/l)**

Aluminum, Total		158		9	J	7	J	82	
Antimony, Total	3	2.5	U	0.7	J	0.9	J	0.9	J
Arsenic, Total	25	2.5	U	0.2	J	0.2	J	3.4	
Barium, Total	1000	5.5		28.4		29.9		49.4	
Beryllium, Total	3	2.5	U	0.5	U	0.5	U	0.5	U
Cadmium, Total	5	2.5	U	0.5		0.4	J	1.8	
Calcium, Total		12200		17400		17400		18300	
Chromium, Total	50	5	U	0.6	J	0.7	J	3	
Cobalt, Total		2.5	U	0.5	U	0.5	U	0.2	J
Copper, Total	200	2.2	J	0.9	J	0.5	J	2.8	
Iron, Total	300	209	J	4620		4080		2100	
Lead, Total	25	5	U	1	U	1	U	0.7	J
Magnesium, Total	35000	2650		3310		3320		3030	
Manganese, Total	300	4.8		86.7		78.3		28.2	
Mercury, Total	0.7	0.2	U	0.2	U	0.2	U	0.2	U
Nickel, Total	100	2.5	U	0.4	J	0.5		1.7	
Potassium, Total		650		3100		3070		2700	
Selenium, Total	10	2.5	U	5	U	5	U	1	J
Silver, Total	50	2.5	U	0.5	U	0.5	U	0.5	U
Sodium, Total	20000	7280		11200		10900		40400	
Thallium, Total	0.5	2.5	U	0.5	U	0.5	U	0.1	J
Vanadium, Total		1.3	J	0.2	J	5	U	1.2	J
Zinc, Total	2000	12.3	J	3.3	J	3.9	J	14.2	

**Volatile Organics (ug/l)**

1,1,1,2-Tetrachloroethane	5	2.5	U	6.2	U	12	U	2.5	U
1,1,1-Trichloroethane	5	2.5	U	6.2	U	12	U	2.5	U
1,1,2,2-Tetrachloroethane	5	0.5	U	1.2	U	2.5	U	0.5	U
1,1,2-Trichloroethane	1	1.5	U	3.8	U	7.5	U	1.5	U
1,1-Dichloroethane	5	2.5	U	6.2	U	12	U	1.1	J
1,1-Dichloroethene	5	0.5	U	1.2	U	2.5	U	0.5	U
1,1-Dichloropropene	5	2.5	U	6.2	U	12	U	2.5	U
1,2,3-Trichlorobenzene	5	2.5	U	6.2	U	12	U	2.5	U
1,2,3-Trichloropropane	0.04	2.5	U	6.2	U	12	U	2.5	U
1,2,4,5-Tetramethylbenzene		2	U	9.3		9.7	J	11	
1,2,4-Trichlorobenzene	5	2.5	U	6.2	U	12	U	2.5	U
1,2,4-Trimethylbenzene	5	2.5	U	320		480		56	
1,2-Dibromo-3-chloropropane	0.04	2.5	U	6.2	U	12	U	2.5	U
1,2-Dibromoethane	0.0006	2	U	5	U	10	U	2	U
1,2-Dichlorobenzene	3	2.5	U	14		14		5.3	
1,2-Dichloroethane	0.6	0.5	U	1.2	U	2.5	U	0.5	U
1,2-Dichloropropane	1	1	U	2.5	U	5	U	1	U
1,3,5-Trimethylbenzene	5	2.5	U	120		170		22	
1,3-Dichlorobenzene	3	2.5	U	6.2	U	12	U	2.5	U
1,3-Dichloropropane	5	2.5	U	6.2	U	12	U	2.5	U
1,4-Dichlorobenzene	3	2.5	U	3.4	J	3.6	J	1.8	J
1,4-Diethylbenzene		2	U	35		36		7.5	
2,2-Dichloropropane	5	2.5	U	6.2	U	12	U	2.5	U
2-Butanone	50	5	U	5.5	J	13	J	5	U
2-Hexanone	50	5	U	12	U	25	U	5	U
4-Ethyltoluene		2	U	170		230		28	
4-Methyl-2-pentanone		5	U	12	U	25	U	5	U
Acetone	50	1.6	J	2.7	J	6.4	J	2	J

Table 3: Summary of Groundwater Sampling Results - Parcel A

Former CAMCO Site  
Roukonkoma, New York

LOCATION	NY-AWQS	MW-3 (2)	MW-5 (1)	MW-7 (1,3)	MW-6 (1)
Acrylonitrile	5	5 U	12 U	25 U	5 U
Benzene	1	0.5 U	1.2 U	2.5 U	0.5 U
Bromobenzene	5	2.5 U	6.2 U	12 U	2.5 U
Bromochloromethane	5	2.5 U	6.2 U	12 U	2.5 U
Bromodichloromethane	50	0.5 U	1.2 U	2.5 U	0.5 U
Bromoform	50	2 U	5 U	10 U	2 U
Bromomethane	5	2.5 U	6.2 U	12 U	2.5 U
Carbon disulfide	60	5 U	12 U	25 U	5 U
Carbon tetrachloride	5	0.5 U	1.2 U	2.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.4 J	12 U	2.5 U
Chloroethane	5	2.5 U	6.2 U	12 U	2.5 U
Chloroform	7	2.5 U	6.2 U	12 U	2.5 U
Chloromethane		2.5 U	6.2 U	12 U	2.5 U
cis-1,2-Dichloroethene	5	2.5 U	6.2 U	12 U	2.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.2 U	2.5 U	0.5 U
Dibromochloromethane	50	0.5 U	1.2 U	2.5 U	0.5 U
Dibromomethane	5	5 U	12 U	25 U	5 U
Dichlorodifluoromethane	5	5 U	12 U	25 U	5 U
Ethyl ether		2.5 U	6.2 U	12 U	2.5 U
Ethylbenzene	5	2.5 U	7.5 U	8 J	1.1 J
Hexachlorobutadiene	0.5	2.5 U	6.2 U	12 U	2.5 U
Isopropylbenzene	5	2.5 U	11 U	11 J	8.5 U
Methyl tert butyl ether	10	2.5 U	6.2 U	12 U	2.5 U
Methylene chloride	5	2.5 U	6.2 U	12 U	2.5 U
n-Butylbenzene	5	2.5 U	3.9 J	4.7 J	3 U
n-Propylbenzene	5	2.5 U	33 U	26 U	12 U
Naphthalene	10	2.5 U	51 U	56 U	30 U
o-Chlorotoluene	5	2.5 U	6.2 U	12 U	2.5 U
o-Xylene	5	2.5 U	30 U	32 U	4 U
p-Chlorotoluene	5	2.5 U	6.2 U	12 U	2.5 U
p-Isopropyltoluene	5	2.5 U	8.6 U	9.8 J	12 U
p/m-Xylene	5	2.5 U	43 U	44 U	2.9 U
sec-Butylbenzene	5	2.5 U	7.4 U	8.7 J	10 U
Styrene	5	2.5 U	6.2 U	12 U	2.5 U
tert-Butylbenzene	5	2.5 U	2.1 J	12 U	3.8 U
Tetrachloroethene	5	0.5 U	0.75 J	2.5 U	0.5 U
Toluene	5	2.5 U	6.2 U	12 U	2.5 U
trans-1,2-Dichloroethene	5	2.5 U	6.2 U	12 U	2.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.2 U	2.5 U	0.5 U
trans-1,4-Dichloro-2-butene	5	2.5 U	6.2 U	12 U	2.5 U
Trichloroethene	5	0.5 U	1.2 U	2.5 U	1.6 U
Trichlorofluoromethane	5	2.5 U	6.2 U	12 U	2.5 U
Vinyl acetate		5 U	12 U	25 U	5 U
Vinyl chloride	2	1 U	2.5 U	5 U	1 U

Semivolatiles Organics (ug/l)

1,2,4,5-Tetrachlorobenzene	5	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	3	2 U	7.2 U	6.8 U	2.5 U
1,3-Dichlorobenzene	3	2 U	0.75 J	0.69 J	2 U
1,4-Dichlorobenzene	3	2 U	1.8 J	1.6 J	0.91 J
2,4,5-Trichlorophenol		5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol		5 U	5 U	5 U	5 U
2,4-Dichlorophenol	1	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	50	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	10	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5	5 U	5 U	5 U	5 U

Table 3: Summary of Groundwater Sampling Results - Parcel A

Former CAMCO Site  
Ronkonkoma, New York

LOCATION	NY-AWQS	MW-3 (2)		MW-5 (1)		MW-7 (1,3)		MW-6 (1)	
2-Chlorophenol		2	U	2	U	2	U	2	U
2-Methylphenol		5	U	5	U	5	U	5	U
2-Nitroaniline	5	5	U	5	U	5	U	5	U
2-Nitrophenol		10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	5	5	U	5	U	5	U	5	U
3-Methylphenol/4-Methylphenol		5	U	5	U	5	U	5	U
3-Nitroaniline	5	5	U	5	U	5	U	5	U
4,6-Dinitro-o-cresol		10	U	10	U	10	U	10	U
4-Bromophenyl phenyl ether		2	U	2	U	2	U	2	U
4-Chloroaniline	5	5	U	5	U	5	U	5	U
4-Chlorophenyl phenyl ether		2	U	2	U	2	U	2	U
4-Nitroaniline	5	5	U	5	U	5	U	5	U
4-Nitrophenol		10	U	10	U	10	U	10	U
Acetophenone		5	U	5	U	5	U	5	U
Benzoic Acid		50	U	50	U	50	U	50	U
Benzyl Alcohol		2	U	2	U	2	U	2	U
Biphenyl		2	U	2	U	2	U	2	U
Bis(2-chloroethoxy)methane	5	5	U	5	U	5	U	5	U
Bis(2-chloroethoxy)ether	1	2	U	2	U	2	U	2	U
Bis(2-chloroisopropyl)ether	5	2	U	2	U	2	U	2	U
Bis(2-Ethylhexyl)phthalate	5	3	U	3	U	3	U	3	U
Butyl benzyl phthalate	50	5	U	5	U	5	U	5	U
Carbazole		2	U	2	U	2	U	2	U
Di-n-butylphthalate	50	5	U	5	U	5	U	5	U
Di-n-octylphthalate	50	5	U	5	U	5	U	5	U
Dibenzofuran		2	U	2	U	2	U	2	U
Diethyl phthalate	50	5	U	5	U	5	U	5	U
Dimethyl phthalate	50	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	5	20	U	20	U	20	U	20	U
Isopharone	50	5	U	5	U	5	U	5	U
n-Nitrosodi-n-propylamine		5	U	5	U	5	U	5	U
Nitrobenzene	0.4	2	U	2	U	2	U	2	U
NitrosoDiPhenylAmine(NDPA)/DP	50	2	U	2	U	2	U	2	U
P-Chloro-M-Cresol		2	U	2	U	2	U	2	U
Phenol	1	5	U	5	U	5	U	5	U
2-Chloronaphthalene	10	0.2	U	0.4	U	0.4	U	0.2	U
2-Methylnaphthalene		0.2	U	0.84		0.73		0.74	
Acenaphthene	20	0.2	U	0.4	U	0.4	U	0.2	U
Acenaphthylene		0.2	U	0.4	U	0.4	U	0.2	U
Anthracene	50	0.2	U	0.4	U	0.4	U	0.2	U
Benzo(a)anthracene		0.2	U	0.4	U	0.4	U	0.2	U
Benzo(a)pyrene		0.2	U	0.4	U	0.4	U	0.2	U
Benzo(b)fluoranthene	0.002	0.2	U	0.4	U	0.4	U	0.2	U
Benzo(ghi)perylene		0.2	U	0.4	U	0.4	U	0.2	U
Benzo(k)fluoranthene	0.002	0.2	U	0.4	U	0.4	U	0.2	U
Chrysene	0.002	0.2	U	0.4	U	0.4	U	0.2	U
Dibenzo(a,h)anthracene		0.2	U	0.4	U	0.4	U	0.2	U
Fluoranthene	50	0.2	U	0.4	U	0.4	U	0.2	U
Fluorene	50	0.2	U	0.4	U	0.4	U	0.2	U
Hexachlorobenzene	0.04	0.8	U	1.6	U	1.6	U	0.8	U
Hexachlorobutadiene	0.5	0.5	U	1	U	1	U	0.5	U
Hexachloroethane	5	0.8	U	1.6	U	1.6	U	0.8	U
Indeno(1,2,3-cd)Pyrene	0.002	0.2	U	0.4	U	0.4	U	0.2	U
Naphthalene	10	0.2	U	24		21		11	
Pentachlorophenol	1	0.8	U	1.6	U	1.6	U	0.8	U
Phenanthrene	50	0.2	U	0.4	U	0.4	U	0.2	U
Pyrene	50	0.2	U	0.4	U	0.4	U	0.2	U

Table 3: Summary of Groundwater Sampling Results - Parcel A

Former CAMCO Site  
Ronkonkoma, New York

LOCATION	NY-AWQS	MW-3 (2)	MW-5 (1)	MW-7 (1,3)	MW-6 (1)
<b>Polychlorinated Biphenyls (ug/l)</b>					
Aroclor 1016	0.09	0.083 U	0.25 U	0.25 U	0.25 U
Aroclor 1221	0.09	0.083 U	0.25 U	0.25 U	0.25 U
Aroclor 1232	0.09	0.083 U	0.25 U	0.25 U	0.25 U
Aroclor 1242	0.09	0.083 U	0.25 U	0.25 U	0.25 U
Aroclor 1248	0.09	0.083 U	0.25 U	0.25 U	0.25 U
Aroclor 1254	0.09	0.083 U	0.25 U	0.25 U	0.25 U
Aroclor 1260	0.09	0.083 U	0.25 U	0.25 U	0.25 U
<b>Organochlorine Pesticides (ug/l)</b>					
4,4'-DDD	0.3	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDE	0.2	0.04 U	0.04 U	0.04 U	0.04 U
4,4'-DDT	0.2	0.04 U	0.04 U	0.04 U	0.04 U
Aldrin		0.02 U	0.02 U	0.02 U	0.02 U
Alpha-BHC	0.01	0.02 U	0.02 U	0.02 U	0.02 U
Beta-BHC	0.04	0.02 U	0.02 U	0.02 U	0.02 U
Chlordane	0.05	0.2 U	0.2 U	0.2 U	0.2 U
Delta-BHC	0.04	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan I		0.02 U	0.02 U	0.02 U	0.02 U
Endosulfan II		0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan sulfate		0.04 U	0.04 U	0.04 U	0.04 U
Endrin		0.04 U	0.04 U	0.04 U	0.04 U
Endrin ketone	5	0.04 U	0.04 U	0.04 U	0.04 U
Heptachlor	0.04	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor epoxide	0.03	0.02 U	0.02 U	0.02 U	0.02 U
Lindane	0.05	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35	0.2 U	0.2 U	0.2 U	0.2 U
Toxaphene	0.06	0.2 U	0.2 U	0.2 U	0.2 U
trans-Chlordane		0.02 U	0.02 U	0.02 U	0.02 U

**Notes:**

- (1) Sampling conducted August 30, 2012.
- (2) Sampling conducted September 4, 2012.
- (3) - Duplicate of sample MW-5.
- U - Compound was not detected relative to the indicated limit.
- E - Estimated value.

Result exceeds the NY-AWQS - NYSDEC Part 703 Groundwater Quality Standard/Guidance Value.
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Table 5: Summary of Groundwater Sampling Field Parameters

Former CAMCO Site  
Ronkonkoma, New York

WELL NO.	MW-1	MW-2	MW-4	MW-3	MW-5	MW-6
	Off-Site		Parcel B		Parcel A	
LOCATION	8/30/2012	8/30/2012	1/13/2012	9/4/2012	8/30/2012	8/30/2012
SAMPLING DATE	8/30/2012	8/30/2012	1/13/2012	9/4/2012	8/30/2012	8/30/2012
FIELD PARAMETER	RESULTS (1)					
Specific Conductance	0.859	0.905	NM	1.012	0.348	0.406
pH	5.79	6.26	9.51	6.00	8.60	9.09
Eh (ORP)	134.1	124.2	-152.7	85.7	-197.7	52.5
Temperature	18.4	16.65	12.25	21.64	12.12	12.56
Dissolved Oxygen	NM	NM	0.99	4.47	2.93	4.73
						0.98
						1.029
						6.10
						51.4
						17.28
						3.99

Notes:

(1) - Measurements represent final set taken prior to sample collection.



Table 7: Summary of Soil Vapor Sampling Results - Parcel A

Former CAMCO Site  
Ronkonkoma, New York

COMPOUND NAME	CASNUM	SG-1		SG-2		SG-5		SG-7	
		REPLM	RESULTS	REPLM	RESULTS	REPLM	RESULTS	REPLM	RESULTS
Freon 12	75-71-8	6.8	ND	0.80	2.4	1.4	2.1	40	ND
Freon 114	76-14-2	9.6	ND	1.1	ND	2.0	ND	56	ND
Chloromethane	74-87-3	2.8	ND	0.33	1.4	0.58	2.0	66	ND
Vinyl Chloride	75-01-4	3.5	ND	0.41	ND	0.72	ND	20	ND
1,3-Butadiene	106-99-0	3.0	ND	0.36	ND	0.62	ND	18	ND
Bromomethane	74-83-9	5.3	ND	0.62	1.2	1.1	3.2	31	ND
Chloroethane	75-00-3	18	ND	2.1	ND	3.7	ND	85	ND
Freon 11	75-69-4	7.7	11	0.90	6.6	1.6	ND	45	ND
Ethanol	64-17-5	13	70	1.5	53	2.6	63	61	ND
Freon 113	76-13-1	10	15	1.2	34	2.1	3.2	62	ND
1,1-Dichloroethene	75-35-4	5.4	ND	0.64	ND	1.1	ND	32	ND
Acetone	67-64-1	16	210	1.9	280	3.3	490	76	180
2-Propanol	67-63-0	17	ND	2.0	4.6	3.4	ND	79	ND
Carbon Disulfide	75-15-0	21	ND	2.5	7.1	4.4	ND	25	ND
3-Chloropropene	107-05-1	21	ND	2.5	ND	4.4	ND	100	ND
Methylene Chloride	75-09-2	9.5	ND	1.1	2.8	1.9	ND	28	ND
Methyl tert-butyl ether	1634-04-4	4.9	ND	0.58	3.0	1.0	ND	29	ND
trans-1,2-Dichloroethene	156-60-5	5.4	10	0.64	ND	1.1	ND	32	110
Hexane	110-54-3	4.8	ND	0.57	7.4	0.99	19	28	ND
1,1-Dichloroethane	75-34-3	5.5	ND	0.65	ND	1.1	2.2	32	ND
2-Butanone (Methyl Ethyl Ketone)	78-93-3	20	ND	2.4	28	4.1	28	95	ND
cis-1,2-Dichloroethene	156-59-2	5.4	67	0.64	ND	1.1	1.7	32	3800
Tetrahydrofuran	109-99-9	20	ND	2.4	18	4.1	ND	24	ND
Chloroform	67-66-3	6.7	9.3	0.79	3.0	1.4	ND	39	ND
1,1,1-Trichloroethane	71-55-6	7.5	240	0.88	2.60	1.5	160	44	95
Cyclohexane	110-82-7	4.7	ND	0.55	ND	0.96	ND	28	ND
Carbon Tetrachloride	56-23-5	8.6	ND	1.0	ND	1.8	ND	51	ND
2,2,4-Trimethylpentane	540-84-1	32	ND	3.8	7.4	6.5	ND	38	ND
Benzene	71-43-2	4.4	6.5	0.51	8.8	0.89	1.5	26	ND
1,2-Dichloroethane	107-06-2	5.5	ND	0.65	ND	1.1	ND	32	ND
Heptane	142-82-5	5.6	6.4	0.66	12	1.1	7.0	33	ND
1,2-Dichloropropane	78-87-5	6.3	ND	0.74	ND	1.3	ND	37	ND

Table 7: Summary of Soil Vapor Sampling Results - Parcel A

Former CAMICO Site  
Ronkonkoma, New York

COMPOUND NAME	CASNUM	SG-1		SG-2		SG-5		SG-7	
		REPLMT	RESULTS	REPLMT	RESULTS	REPLMT	RESULTS	REPLMT	RESULTS
1,4-Dioxane	123-91-1	4.9	ND	0.58	ND	1.0	ND	120	ND
Bromodichloromethane	75-27-4	9.2	ND	1.1	ND	1.9	ND	54	ND
cis-1,3-Dichloropropene	10061-01-5	6.2	ND	0.73	ND	1.3	ND	36	ND
4-Methyl-2-pentanone	108-10-1	5.6	ND	0.66	1.1	1.1	1.3	33	ND
Toluene	108-88-3	5.2	170	0.61	170	1.0	44	30	110
trans-1,3-Dichloropropene	10061-02-6	6.2	ND	0.73	ND	1.3	ND	36	ND
1,1,2-Trichloroethane	79-00-5	7.5	ND	0.88	ND	1.5	ND	44	ND
Tetrachloroethene	127-18-4	9.3	280	1.1	12	1.9	12	55	1900
2-Hexanone	591-78-6	28	ND	3.3	ND	5.7	ND	130	ND
Dibromochloromethane	124-48-1	12	ND	1.4	ND	2.4	ND	68	ND
1,2-Dibromoethane (EDB)	106-93-4	10	ND	1.2	ND	2.2	ND	62	ND
Chlorobenzene	108-90-7	6.3	ND	0.74	ND	1.3	ND	37	ND
Ethyl Benzene	100-41-4	5.9	19	0.70	21	1.2	11	35	ND
m,p-Xylene	108-38-3/106-42-3	5.9	73	0.70	83	1.2	31	35	41
o-Xylene	95-47-6	5.9	24	0.70	31	1.2	12	35	ND
Styrene	100-42-5	5.8	ND	0.68	ND	1.2	18	34	ND
Bromoform	75-25-2	14	ND	1.7	ND	2.9	ND	83	ND
Cumene	98-82-8	6.7	ND	0.79	2.1	1.4	ND	40	ND
1,1,2,2-Tetrachloroethane	79-34-5	9.4	ND	1.1	ND	1.9	ND	55	ND
Propylbenzene	103-65-1	6.7	ND	0.79	4.5	1.4	2.3	40	ND
4-Ethyltoluene	622-96-8	6.7	19	0.79	22	1.4	7.4	40	ND
1,3,5-Trimethylbenzene	108-67-8	6.7	ND	0.79	6.1	1.4	1.9	40	ND
1,2,4-Trimethylbenzene	95-63-6	6.7	18	0.79	23	1.4	6.0	40	ND
1,3-Dichlorobenzene	541-73-1	8.2	ND	0.97	ND	1.7	ND	48	ND
1,4-Dichlorobenzene	106-46-7	8.2	130	0.97	120	1.7	22	48	120
alpha-Chlorotoluene	100-44-7	7.1	ND	0.83	ND	1.4	ND	42	ND
1,2-Dichlorobenzene	95-50-1	8.2	ND	0.97	ND	1.7	ND	48	ND
1,2,4-Trichlorobenzene	120-82-1	51	ND	6.0	ND	10	ND	240	ND
Hexachlorobutadiene	87-68-3	73	ND	8.6	ND	15	ND	340	ND
Trichloroethene	79-01-6	1.5	1308	0.17	75	0.30	310	43	26000

Table 7: Summary of Soil Vapor Sampling Results - Parcel A

Former CAMCO Site  
Ronkonkoma, New York

COMPOUND NAME	CASNUM	SG-10 (I)			SG-8			SG-9		
		REPLAMT	RESULTS	REPLAMT	RESULTS	REPLAMT	RESULTS	REPLAMT	RESULTS	
Freon 12	75-71-8	40	ND	1.8	ND	1.7	2.4	1.7	2.4	
Freon 114	76-14-2	56	ND	2.6	ND	2.4	ND	2.4	ND	
Chloromethane	74-87-3	66	ND	0.77	1.1	0.72	1.7	0.72	1.7	
Vinyl Chloride	75-01-4	20	ND	0.95	ND	0.89	ND	0.89	ND	
1,3-Butadiene	106-99-0	18	ND	0.82	ND	0.77	ND	0.77	ND	
Bromomethane	74-83-9	31	ND	1.4	1.6	1.4	1.8	1.4	1.8	
Chloroethane	75-00-3	85	ND	4.9	ND	4.6	ND	4.6	ND	
Freon 11	75-69-4	45	ND	2.1	8.2	2.0	3.1	2.0	3.1	
Ethanol	64-17-5	61	ND	3.5	43	3.3	70	3.3	70	
Freon 113	76-13-1	62	ND	2.8	140	2.7	6.3	2.7	6.3	
1,1-Dichloroethene	75-35-4	32	ND	1.5	ND	1.4	ND	1.4	ND	
Acetone	67-64-1	76	100	4.4	240	4.2	390	4.2	390	
2-Propanol	67-63-0	79	ND	4.6	ND	4.3	7.4	4.3	7.4	
Carbon Disulfide	75-15-0	25	ND	5.8	ND	5.4	43	5.4	43	
3-Chloropropene	107-05-1	100	ND	5.8	ND	5.5	ND	5.5	ND	
Methylene Chloride	75-09-2	28	ND	2.6	ND	2.4	4.6	2.4	4.6	
Methyl tert-butyl ether	1634-04-4	29	ND	1.3	ND	1.3	ND	1.3	ND	
trans-1,2-Dichloroethene	156-60-5	32	100	1.5	ND	1.4	ND	1.4	ND	
Hexane	110-54-3	28	ND	1.3	7.0	1.2	10	1.2	10	
1,1-Dichloroethane	75-34-3	32	ND	1.5	ND	1.4	ND	1.4	ND	
2-Butanone (Methyl Ethyl Ketone)	78-93-3	95	ND	5.5	15	5.2	39	5.2	39	
cis-1,2-Dichloroethene	156-59-2	32	3700	1.5	3.1	1.4	1.7	1.4	1.7	
Tetrahydrofuran	109-99-9	24	ND	5.5	ND	5.2	25	5.2	25	
Chloroform	67-66-3	39	ND	1.8	2.6	1.7	2.1	1.7	2.1	
1,1,1-Trichloroethane	71-55-6	44	92	2.0	370	1.9	150	1.9	150	
Cyclohexane	110-82-7	28	ND	1.3	ND	1.2	ND	1.2	ND	
Carbon Tetrachloride	56-23-5	51	ND	2.3	ND	2.2	ND	2.2	ND	
2,2,4-Trimethylpentane	540-84-1	38	ND	8.7	ND	8.2	11	8.2	11	
Benzene	71-43-2	26	ND	1.2	ND	1.1	12	1.1	12	
1,2-Dichloroethane	107-06-2	32	ND	1.5	ND	1.4	ND	1.4	ND	
Heptane	142-82-5	33	ND	1.5	3.0	1.4	16	1.4	16	
1,2-Dichloropropane	78-87-5	37	ND	1.7	ND	1.6	ND	1.6	ND	

Table 7: Summary of Soil Vapor Sampling Results - Parcel A

Former CAMCO Site  
Ronkonkoma, New York

COMPOUND NAME	CASNUM	SG-10 (1)		SG-8		SG-9	
		REPLMT	RESULTS	REPLMT	RESULTS	REPLMT	RESULTS
1,4-Dioxane	123-91-1	120	ND	1.3	ND	1.3	ND
Bromodichloromethane	75-27-4	54	ND	2.5	ND	2.3	ND
cis-1,3-Dichloropropene	10061-01-5	36	ND	1.7	ND	1.6	ND
4-Methyl-2-pentanone	108-10-1	33	ND	1.5	ND	1.4	1.8
Toluene	108-88-3	30	110	1.4	17	1.3	180
trans-1,3-Dichloropropene	10061-02-6	36	ND	1.7	ND	1.6	ND
1,1,2-Trichloroethane	79-00-5	44	ND	2.0	ND	1.9	ND
Tetrachloroethene	127-18-4	55	1900	2.5	5.0	2.4	120
2-Hexanone	591-78-6	130	ND	7.6	ND	7.2	ND
Dibromochloromethane	124-48-1	68	ND	3.2	ND	3.0	ND
1,2-Dibromoethane (E:DB)	106-93-4	62	ND	2.9	ND	2.7	ND
Chlorobenzene	108-90-7	37	ND	1.7	ND	1.6	ND
Ethyl Benzene	100-41-4	35	ND	1.6	4.3	1.5	22
m,p-Xylene	108-38-3/106-42-3	35	40	1.6	12	1.5	86
o-Xylene	95-47-6	35	ND	1.6	5.4	1.5	30
Styrene	100-42-5	34	ND	1.6	8.1	1.5	ND
Bromoform	75-25-2	83	ND	3.8	ND	3.6	ND
Cumene	98-82-8	40	ND	1.8	ND	1.7	2.0
1,1,2,2-Tetrachloroethane	79-34-5	55	ND	2.6	ND	2.4	ND
Propylbenzene	103-65-1	40	ND	1.8	ND	1.7	4.5
4-Ethyltoluene	622-96-8	40	ND	1.8	5.5	1.7	22
1,3,5-Trimethylbenzene	108-67-8	40	ND	1.8	ND	1.7	6.1
1,2,4-Trimethylbenzene	95-63-6	40	ND	1.8	5.7	1.7	22
1,3-Dichlorobenzene	541-73-1	48	ND	2.2	ND	2.1	ND
1,4-Dichlorobenzene	106-46-7	48	120	2.2	41	2.1	130
alpha-Chlorotoluene	100-44-7	42	ND	1.9	ND	1.8	ND
1,2-Dichlorobenzene	95-50-1	48	ND	2.2	ND	2.1	ND
1,2,4-Trichlorobenzene	120-82-1	240	ND	14	ND	13	ND
Hexachlorobutadiene	87-68-3	340	ND	20	ND	19	ND
Trichloroethene	79-01-6	43	26000	0.40	300	0.38	73

Notes:

Testing conducted August 30, 2012.

REPLMT - reporting limit.

Reporting limit and results provided in ug m<sup>3</sup>.

ND - compound was not detected relative to the indicated reporting limit.

(1) - Duplicate of sample SG-7.

Table 8: Comparison of 2008 and 2012 Soil Vapor Sampling Results - Parcel A

Former CAMCO Site  
Ronkonkoma, New York

COMPOUND NAME	SG-1			SG-2			SG-5		
	03/18/08	02/09/12	08/30/12	03/18/08	02/09/12	08/30/12	09/15/08	02/09/12	08/30/12
Trichloroethene	940	730	1300	1600	25	75	240	150	310
cis-1,2-Dichloroethene	ND	9.3	67	ND	ND	ND	8.9	ND	1.7
Tetrachloroethene	290	150	280	51	8.3	12	210	7	12
trans-1,2-Dichloroethene	ND	ND	10	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	75	55	240	17	33	260	120	69	160
Chloroform	ND	ND	9.3	ND	1.7	3	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	27	ND	2
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOCs (2)	1305	944.3	1906.3	1668	68	350	605.9	226	485.9
Total VOCs Remaining (3)	100%	72%	146%	100%	4%	21%	100%	37%	80%

COMPOUND NAME	SG-7			SG-10 (1)			SG-8			SG-9		
	09/15/08	02/09/12	08/30/12	02/09/12	08/30/12	09/15/08	02/09/12	08/30/12	02/09/12	08/30/12	02/09/12	08/30/12
Trichloroethene	32000	2300	26000	2500	26000	600	10	300	37	73		
cis-1,2-Dichloroethene	4600	590	3800	650	3700	ND	ND	3.1	0.79	1.7		
Tetrachloroethene	920	150	1900	170	1900	90	2.6	5	54	120		
trans-1,2-Dichloroethene	150	ND	110	ND	100	ND	ND	ND	ND	ND		
1,1,1-Trichloroethane	ND	ND	95	ND	92	130	20	370	48	150		
Chloroform	ND	ND	ND	ND	ND	4.5	ND	2.6	ND	2.1		
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Total VOCs (2)	37670	3040	31905	3320	31792	824.5	32.6	680.7	139.79	346.8		
Total VOCs Remaining (3)	100%	8%	85%	NA	NA	100%	4%	83%	NA	NA		

Notes:

- Results provided in ug/m<sup>3</sup>.
- ND - compound was not detected.
- NA - not applicable.
- (1) - Duplicate of sample SG-7.
- (2) - Based on the provided short list.
- (3) - In percent relative to 2008 concentrations.

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Attachment 1

Laboratory Results

Groundwater Sampling – August 30, 2012

Provided to the NYSDEC Electronically



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Attachment 2

Laboratory Results

Soil Vapor Sampling – August 30, 2012



Provided to the NYSDEC Electronically

