Preliminary
Subsurface Evaluation Report for
Central Aviation and Marine Company (CAMCO)
Located at:
Long Island MacArthur Airport
2125 Smithtown Ave
Ronkonkoma, NY 11779

Prepared for:
Town of Islip
Department of Aviation and Transportation
665 Main Street
Islip, NY 11751

Prepared by

N.D. Eryou, PhD, PE
2500 Airport Road South, Suite 210
Naples, FL 34112

In Conjunction With:

Kost Environmental Services, Inc.
117 North 6th Street
Lindenhurst, NY 11757

December 2006

12.27.06

TABLE OF CONTENTS PAGE

1.0 INTRODUCTION

1.1 Background

Central Aviation and Marine Company (CAMCO) operated a repair and overhaul facility for aircraft parts and accessories located at Long Island MacArthur Airport at 2125 Smithtown Avenue in Ronkonkoma, NY from before World War II to approximately 1996. This facility utilized numerous solvents and regulated chemicals and was registered as a small quantity generator of hazardous waste. The Town of Islip, which owns the property that the CAMCO facility was located on, determined in August of 2006 that an environmental assessment should be performed prior to re-development of the site. In mid-September, N.D. Eryou, PhD, PE, Consulting Engineer (Eryou) was retained to perform the required Phase 1 and Phase 2 Environmental Assessment Studies.

In August 2006 NYSDEC advised the Town of Islip in writing that they intended to declare the CAMCO site an Inactive Hazardous Waste Site under the NYSDEC Superfund regulations. (See letter in Appendix C) On November 17th, N.D. Eryou contacted John Swartwout, the author of the DEC letter sent to the Town of Islip and advised him that a preliminary subsurface investigation was being conducted for the Town of Islip and that five copies of the resulting report would be sent to his office for review. The current target date for this submission is January 2nd, 2007.

Mr. Swartwout indicated that within a month of receipt of the preliminary report, a meeting would be held at the NYSDEC Region 1 office to develop a Work Plan for possible additional subsurface investigation at the CAMCO site.

1.2 Scope

For the reasons stated in Section 1.1, the scope of this report is limited to providing a preliminary Subsurface Investigation Report for the CAMCO facility.

1.3 Objective

The objective of this subsurface investigation was to confirm the existence of subsurface contamination at the CAMCO site, as defined in the NYSDEC letter to the Town of Islip in August 2006 (see copy in Appendix C), delineate the areal extent of the contamination and actual ground water flow direction. This information was to be compiled into a preliminary report and forwarded to NYSDEC so that they could use it to make informed decisions with regard to developing a Work Plan to further define the environmental impact of the CAMCO site and remediate it if necessary.

2.0 SITE USE & METHODOLOGY

2.1 Site Use

A location map, site drawing and aerial photograph are provided in Appendix A. The 2.03 acre CAMCO site is characterized by a sprawling one story building and one small storage shed on the north side of the main building. The total area of the main building is approximately 43,000 square feet with the east, north and west sides of the lot (approximately 45,000 square feet) covered with asphalt pavement. The east side paved area is used for vehicular parking. The east side of the paved yard did not have any positive surface drainage and the asphalt pavement is in poor condition. The west side of the paved yard is in good condition and it is drained by several drywells, which are tied into a stormwater drainage system on the north side of the property. (See stormwater drainage map in Appendix A.The main building is very close to the southern property line and a small grass area exists on the southwest corner of the lot. An access road to aircraft hangars abuts the southern border of the property.

A detailed description of the CAMCO facility is contained in a Phase 1 report which is currently in preparation. The overhaul processes which operated on site used several types of virgin organic solvents which generated hazardous waste.

According to the site records, discussed in the Phase 1 report, typical solvents used in this type of industry includes methylene chloride, 1,1,1 trichloroethane, xylene, toluene and trichlorethylene. The facility was registered with NYSDEC under #NYD002412963. According to Suffolk County Department of Health Services records, a total of 11,133 gallons of storage tank capacity was once active at this site in addition to 5,280 gallons of drum storage.

2.2 Methodology

During the recent period October 20th through 24th, a Geoprobe system was used to sample groundwater at five locations (B1 through B5) on or near the CAMCO property, as indicated on the site map in Appendix A. In addition, one soil sample was taken at the groundwater interface level at location B3.

Three of the groundwater samples (B1, B2 and B3) were taken along the southern border of the Garrett property on the access road into the SCPD Hangar. Wells B4 and B5 were installed immediately south of the CAMCO Building (#48). Soil samples were taken from the outdoor drywells (DW-1, DW-2, DW-3 and DW-4) on the property line between CAMCO (Building #48) and Aero Trades (Building # 49) by Geoprobe plus one courtyard drywell (C-1) inside the perimeter of Building #48), by hand auger.

The laboratory analysis was done in accordance with EPA 8270 (STARS) semi-volatiles, EPA 8260 volatiles, mercury, PCBs EPA 8082 and Target Metals. Groundwater analytical results were compared to NYSDEC Groundwater Standards and soil analytical results were compared to NYS Recommended Soil Cleanup Objectives (NYSRSCO). In addition, the drywell analytical results were compared to SCDHS SOP No. 9-95 Pumpout and Soil Cleanup Criteria.

3.0 LABORATORY DATA

3.1 Soil Sampling Data

Geoprobe #B3 included a soil sample from a depth of 55' which is approximately at groundwater level. This sample was analyzed as per § 2.2 and the results of the laboratory analysis are contained in Spreadsheet S1 in Appendix B.

3.2 Drywell Sampling Data

Geoprobe borings at drywells #DW1 through #DW4 and C-1 were analyzed as per § 2.2. The results of these laboratory analyses are contained in Spreadsheet S1 in Appendix B.

3.3 Groundwater Sampling Data

Geoprobe borings #B1 through #B13 and monitoring wells MW-1, MW-2 and MW-3 were analyzed as per § 2.2. The results of these laboratory analyses are contained in Spreadsheet GW1 in Appendix B.

4.0 Discussion of Results

4.1 Soil Sampling Results

A soil sample was obtained at Geoprobe location B3 at a depth of approximately 55 feet below grade. As indicated by the data in Appendix B, the analytical results indicated no exceedences of any parameters with respect to NYS Recommended Soil Cleanup Objectives (NYSRSCO).

4.2 Drywell Sampling Results

The drywells were sampled and tested in accordance with SCDHS Article 12 SOP #9-95 "Pumpout and Soil Cleanup Criteria" which requires that samples are taken within the top foot of soil at the base of the drywell. Drywell # DW-1 and #DW-2 samples between CAMCO (Building #48) and Aero Trades (Building # 49) were impacted beyond the SCDHS action level. As indicated by the data in Appendix B, drywell DW-1 exceeded action levels on four contaminants and drywell # DW -2 on 1 contaminant. Drywell C1 inside the CAMCO building came up non-impacted by SCDHS standards.

4.3 Groundwater Sampling Results

As indicated by the data in Appendix B, the groundwater samples from B1, B2 and B3 and the soil sample from B3 indicated that the groundwater in the area upgradient of CAMCO was marginally impacted. Location B1 exhibited 4.4 ppb of methylene chloride; B2 exhibited 31 ppb of acetone and 18 ppb of methylene chloride; and B3 indicated 33 ppb of naphthalene, 3.8 ppb of methylene chloride, 1.4 ppb of 1,2,4,5-tetramethylbenzene and 1.6 ppb of 1,2,4-trimethylbenzene. Since the groundwater flows to the southwest at ISP, this would indicate that the upgradient area, namely the central and eastern part of the Garrett facility appears to be impacting groundwater quality at the CAMCO site.

As indicated by the data in Appendix B, groundwater sampling from Geoprobe locations #B4 and #B5 immediately southwest of CAMCO (Building #48) and drywells (DW-1 through DW-4) came up impacted, with #B4 exhibiting two contaminant levels exceeding NYSDEC Groundwater Standards/Guidelines and #B5 exhibiting eleven contaminant levels exceeding NYSDEC Groundwater Standards/Guidelines. Therefore, it was decided to obtain direct upgradient and downgradient groundwater samples to determine how far the contaminant plume had travelled.

On November 15th, Geoprobe wells B6 and B7 were installed upgradient from the CAMCO facility, near the rear of the SCPD Hangar (Building # 52) and the rear of the Aero Trades Hangar (Building #53) in an attempt to confirm that the source of the contamination is on the CAMCO property, rather than other properties to the northeast (upgradient) of CAMCO.

In addition wells B8, B9 and B10 were installed downgradient of CAMCO and north of Building 40 on November 15th to determine if the CAMCO plume had reached this area.

As indicated by the data in Appendix B, the laboratory results for groundwater samples B6 and B7 indicated the low levels (3.6 ppb and 4.1 ppb) of methylene chloride were flowing onto the CAMCO site with the groundwater and the results of the laboratory analyses of groundwater samples B8, B9 and B10 (4,1, 3.9 and 4.6 ppb of methylene chloride) indicated that the trace levels of the contaminant plume extended downgradient to these three boring locations.

Based upon contact with John Swartwout of NYSDEC, it was dermined that two more tasks would be completed in the preliminary investigation. The two tasks were to conduct one more round of further upgradient groundwater sampling would be conducted to try and determine where the upgradient contamination was coming from and install three permanent monitoring wells to determine actual groundwater flow direction in the area.

On November 29 and 30, the three monitoring wells (#MW-1, MW-2 and MW-3) were installed and developed. MW-1 was located immediately adjacent to B7 and MW-2 was located immediately adjacent to B1. On December 3 the monitoring wells were surveyed to determine groundwater flow direction, and the data is provided on the airport mpa in Apprendix A. On December 7 monitoring wells MW1, MW2 and MW3 were sampled with the laboratory results indicating non-detect on all parameters. As indicated by the data in Appendix B, the lab results for MW1 and MW2 do not agree with the results of the Geoprobe groundwater samples B7 and B1. The Geoprobe samples indicated traces of methylene chloride, near the detection level, while the monitoring well samples were non-detect. Future repeat testing of these monitoring wells is required to confirm the presence of such low levels of methylene chloride.

On December 7, groundwater samples were taken at the three new three upgradient Geoprobe locations, B11, B12 and B13, which were northeast of the end of Runway 15. The results of the laboratory analysis on these three samples indicated no measurable contaminants under the groundwater analysis protocols discussed herein other than 18 ppb of chloroform detected in B13. (Note that the data for these samples was mis-labeled #7, #8 and #9 rather than #11, #12 and #13.)

4.4 Comparison to Groundwater and Soil Standards

The spreadsheets Appendix B contain the measured contaminant levels compared to the relevant standards (i.e. soil or groundwater). Where an exceedence exists, it is noted by a yellow highlighting of the relevant data.

4.5 Impact on Drinking Water Wells

The nearest downgradient Suffolk County Water Authority (SCWA) municipal well field is located at Locust Avenue in Bohemia, which is approximately 3,400 feet southwest of the CAMCO site. Based upon the data contained herein, the impact of the release from the CAMCO property appears to have attenuated to almost to groundwater standards in § 2.2 at 400 feet south of the CAMCO property line (Geoprobe locations B7 through B9). Therefore it is highly unlikely that there is a measurable impact on the nearest drinking water well.

4.6 Aerial Extent of the Plume

Based upon the laboratory data for the various organic contaminants found in the groundwater as presented in Appendix B, it appears that the upgradient edge of the plume is just northeast of the CAMCO site, with the easterly and westerly limits between the CAMCO property and Smithtown Blvd. and the southwesterly limit within the airport property.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

Based upon the material discussed in Sections 3 and 4 herein, CAMCO has impacted the soil in the general area of the drywells that were sampled. In addition the groundwater flowing off the southern border of the CAMCO property has been impacted. The down gradient contaminant plume appears to diminish to near groundwater standards approximately 500 feet down gradient (southwest) of the CAMCO property line. It also appears that the Garrett or Aero Trades property may be contributing low levels of organic solvents to the groundwater flowing under these properties.

5.2 Recommendations

It is recommended that additional groundwater sampling be conducted to:

(1) Confirm the areal extent of the CAMCO plume;
(2) Determine the degree of impact of the CAMCO site on groundwater, and
(3) Confirm that the downgradient SCWA municipal drinking water wells are not impacted.

In addition, the source of low levels of organic solvents in the groundwater upgradient of the CAMCO site should be determined under a separate investigation. The contaminant levels in groundwater samples B1, B2, B3 plus B6 and B7 appear to be emanating from Garrett or Aero Trades.

APPENDIX A – SITE MAPS

location.

FIGURE 1

N. D. Eryou, PhD, PE
Consulting Engineer
2500 Airport Road South #210
Naples, FL 34112

CAMCO LOCATOR MAP
MACARTHUR AIRPORT
RONKONKOMA, NY

800'
ROFA

500' RSA

ELEV. 99'

RWY 24

RWY B1

TWY B

TWY W

129.5'

CAMCO
FACILITY

HELIPAD
WHISKEY

PROPERTY LINE

SMITHTOWN AVENUE

S 2ND AVE

MARCONI AVE

MAG. N

GW FLOW

LEGEND

B1	GEOPROBE WELL
C1	INTERIOR DRYWELL
DW1	EXTERIOR DRYWELL
MW1	MONITORING WELL
50	BUILDING NUMBER

0' 200'

DIST (FT)

B7&MW1
E=49.03

B1&MW2
E=48.58

E=48.74'

B10

N. D. ERYOU, PhD, PE
Consulting Engineer

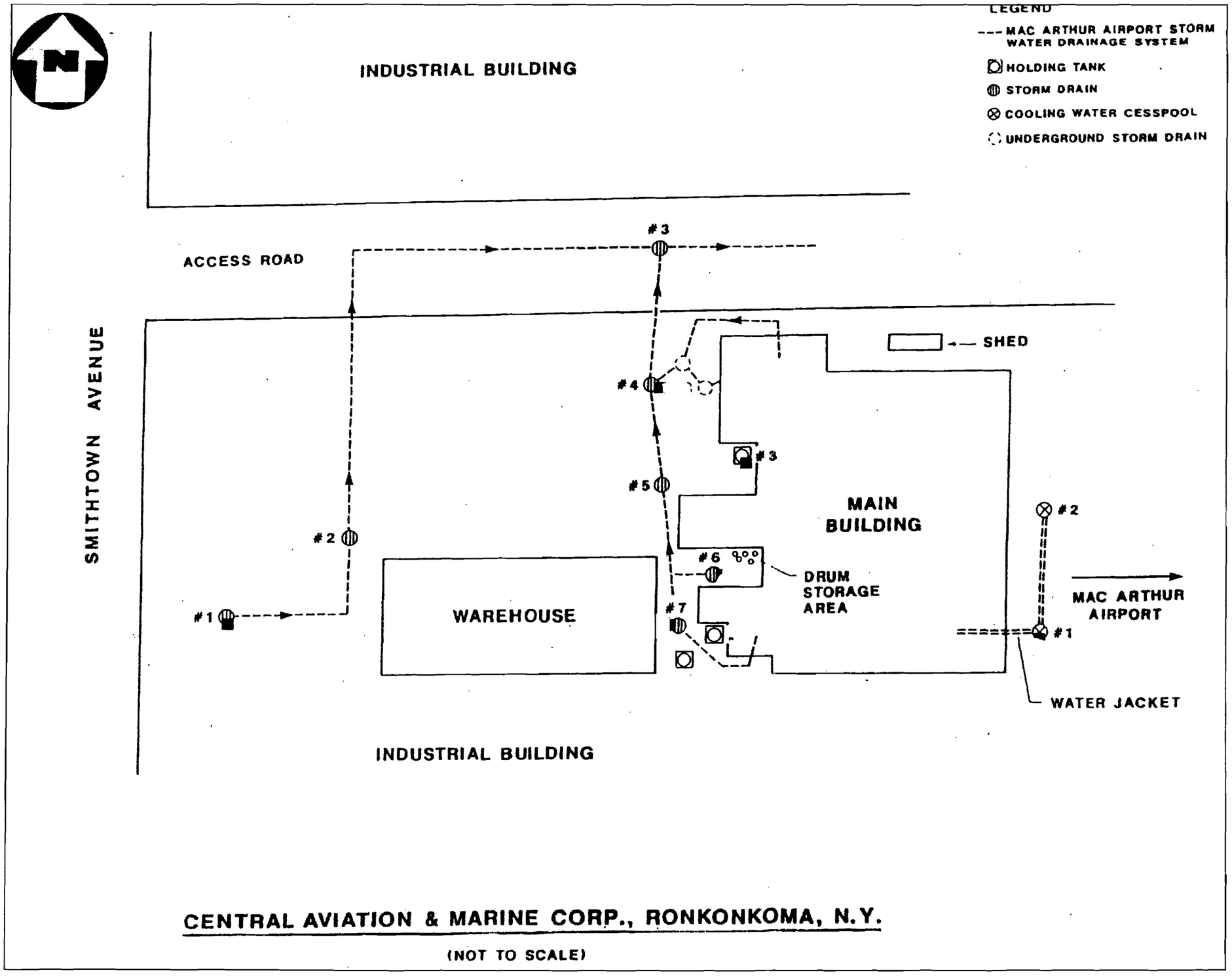
WEST SIDE FACILITIES
MACARTHUR AIRPORT
RONKONKOMA, NY 11779

FIGURE 2

N. D. ERYOU, PhD, PE
Consulting Engineer
2500 AIRPORT ROAD S, # 210 NAPLES, FL 34112

WEST SIDE FACILITIES - AERIAL PHOTO
MACARTHUR AIRPORT
RONKONKOMA, NY 11779

FIGURE3



CENTRAL AVIATION & MARINE CORP., RONKONKOMA, N.Y.

(NOT TO SCALE)

FIGURE 4

CAMCO STORMWATER DRAINAGE
MACARTHUR AIRPORT
RONKONKOMA, NY 11779

N. D. ERYOU, PhD, PE
Consulting Engineer
2500 AIRPORT ROAD S, # 210 NAPLES, FL 34112

APPENDIX B – SUMMARY OF LABORATORY RESULTS

American Analytical Laboratories, LLC. **Exceeds NYSDEC**
Groundwater
Client: N.D. Eryou PhD, P.E. - Consulting Engineer
Project: L.I. MacArthur Airport Ronkonkoma, N.Y.

Cas #:	Procedure:	Client Sample ID:			B-1		B-2		B-3		B- 4		B- 5		B-6		B-7		B-8		B-9		B-10		B-11		B-12		B-13		M-1		M-2		M-3		Camco C1 Interior Dry Well	
		Laboratory ID:			0610221-07		0610224-01		0610221-01		0610236-01		0610238-02		0611135-05		0611135-04		0611135-03		0611135-02		0611135-01		0612064-01		0612064-02		0612064-03		0612064-04		0612064-05		0612064-06		0610221-04	
		Sampling Date:		NYSDEC	10/20/2006		10/23/2006		10/20/2006		10/24/2006		10/24/2006		11/15/2006		11/15/2006		11/15/2006		11/15/2006		11/15/2006		12/07/2006		12/07/2006		12/07/2006		12/07/2006		12/07/2006		12/07/2006		10/20/2006	REMARKS
		Analyte:	Units:		Q		Q		Q						Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q	
7439-97-6	MERCURY	Mercury	PPM		0 000200	U	0.000200	U	0.000200	U	0.000200	U	0.000200	U	0.000200	U	0 000200	U	0.000200	U	0.000190	J	0 000200	U	0.000200	U	0.000200	U	0.000200	U	0.000200	U	0 000200	U	0.000200	U		
12674-11-2	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1016	PPB		2.0	U			2.0	U					1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U		
11104-28-2	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1221	PPB		2.0	U			2.0	U					1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U		
11141-16-5	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1232	PPB		2.0	U			2.0	U					1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U		
53469-21-9	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1242	PPB		2.0	U			2.0	U					1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U		
12672-29-6	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1248	PPB		2.0	U			2.0	U					1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U		
11097-69-1	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1254	PPB		2.0	U			2.0	U					1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U		
11096-82-5	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1260	PPB		2.0	U	-		2.0	U					1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U		
	PERCENT MOISTURE	Percent Moisture	wt%								0.420		0 0293																									
83-32-9	SEMIV SW-846 METHOD 8270 (PAH)	Acenaphthene	PPB		11	U	5 0	U	10	U	5 0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
208-96-8	SEMIV SW-846 METHOD 8270 (PAH)	Acenaphthylene	PPB		11	U	5.0	U	10	U	5 0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
120-12-7	SEMIV SW-846 METHOD 8270 (PAH)	Anthracene	PPB		11	U	5.0	U	10	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
56-55-3	SEMIV SW-846 METHOD 8270 (PAH)	Benzo(a)anthracene	PPB		11	U	5.0	U	10	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
50-32-8	SEMIV SW-846 METHOD 8270 (PAH)	Benzo(a)pyrene	PPB		11	U	5.0	U	10	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
205-99-2	SEMIV SW-846 METHOD 8270 (PAH)	Benzo(b)fluoranthene	PPB		11	U	5.0	U	10	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
191-24-2	SEMIV SW-846 METHOD 8270 (PAH)	Benzo(g,h,I)perylene	PPB		11	U	5.0	U	10	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
207-08-9	SEMIV SW-846 METHOD 8270 (PAH)	Benzo(k)fluoranthene	PPB		11	U	5.0	U	10	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
218-01-9	SEMIV SW-846 METHOD 8270 (PAH)	Chrysene	PPB		11	U	5.0	U	10	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
53-70-3	SEMIV SW-846 METHOD 8270 (PAH)	Dibenzo(a,h)anthracene	PPB		11	U	5.0	U	10	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
206-44-0	SEMIV SW-846 METHOD 8270 (PAH)	Fluoranthene	PPB		11	U	5.0	U	10	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
86-73-7	SEMIV SW-846 METHOD 8270 (PAH)	Fluorene	PPB		11	U	5.0	U	10	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
193-39-5	SEMIV SW-846 METHOD 8270 (PAH)	Indeno(1,2,3-c,d)pyrene	PPB		11	U	5.0	U	10	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
85-01-8	SEMIV SW-846 METHOD 8270 (PAH)	Phenanthrene	PPB		11	U	5.0	U	10	U	5.0	U	12	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
129-00-0	SEMIV SW-846 METHOD 8270 (PAH)	Pyrene	PPB		11	U	5.0	U	10	U	1.0	U	1.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5 0	U	5.0	U	5.0	U	5.0	U		
7429-90-5	TARGET ANALYTE LIST METALS	Aluminum	PPM		54.8				183						1.74		2.09		0 716		2.99		0.610		3 73		6.11		2.35		3.56		5.20		2.63			
7440-36-0	TARGET ANALYTE LIST METALS	Antimony	PPM	3	0.0250	U			0.0250	U					0.0250	U	0.0250	U	0.0250	U	0.0250	U	0 0250	U	0.0250	U	0.0250	U	0.0250	U	0.0250	U	0.0250	U	0 0250	U		
7440-38-2	TARGET ANALYTE LIST METALS	Arsenic	PPM	25	0.0253		0.0421		0.196		0.02	U	0.02	U	0.0250	U	0.0250	U	0.0250	U	0.0493		0.0250	U	0.0250	U	0.0250	U	0.0250	U	0.0283		0.0250	U	0.0250	U		
7440-39-3	TARGET ANALYTE LIST METALS	Barium	PPM		0.332				1.15						0.0490		0.0712		0.0641		0.104		0.194		0.0491		0.0889		0.0403		0.0562		0.101		0.0336			
7440-41-7	TARGET ANALYTE LIST METALS	Beryllium	PPM	3	0.0200	U	0.0200	U	0.0200	U	0.677		0.0346		0.0200	U	0.0200	U	0.0200	U	0.0200	U	0 0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0 0200	U		
7440-43-9	TARGET ANALYTE LIST METALS	Cadmium	PPM	10	0.0260		0.0100	U	0.0281		7.12		0.610		0.0100	U	0.0100	U	0.0100	U	0.0100	U	0 0100	U	0.0100	U	0.0100	U	0.0100	U	0.0810		0 0607		0.0880			
7440-70-2	TARGET ANALYTE LIST METALS	Calcium	PPM		24.7				33.6						10.9		21.0		19 8		16.7		21.6		3.47		2.98		2.08		18.5		11.7		14.1			
7440-47-3	TARGET ANALYTE LIST METALS	Chromium	PPM	50	3.23		1 72		3 57		1.83		0 190		0.0433		0.0688		0 0286		0.130		0.0119	J	0.0667		0 165		0.114		0.0119	J	0.0232		0.00678	J		
7440-48-4	TARGET ANALYTE LIST METALS	Cobalt	PPM		0.103				0.0792						0.0200	U	0.0200	U	0.0200	U	0.0200	U	0 0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0 0200	U		
7440-50-8	TARGET ANALYTE LIST METALS	Copper	PPM	200	0.821		0 492		1.07		2.03		0.137		0.0412		0.0412		0.0200		0.0735		0.0177	J	0.0261		0.0780		0.0480		0.0196	J	0.0181	J	0.0156	J		
7439-89-6	TARGET ANALYTE LIST METALS	Iron	PPM	300	498				624						8.34		12 1		5.25		21.2		14.1		10.6		27.8		18.0		5.91		7 94		4.50			
7439-92-1	TARGET ANALYTE LIST METALS	Lead	PPM	25	0 641		0.0622		0.755		1 56		0.153		0 00961	J	0.0111	J	0.00511	J	0 00844	J	0.00637	J	0.0114	J	0.0301		0.00812	J	0.0152		0.0186		0 00921	J		
7439-95-4	TARGET ANALYTE LIST METALS	Magnesium	PPM		12.3				25.6						2.15		4.75		8.23		6.20		5.03		2.57		2.25		1.68		3.82		2.38		3.72			
7439-96-5	TARGET ANALYTE LIST METALS	Manganese	PPM	300	4.73				24.4						0 206		0.396		0 244		1 84		3.51		0.650		1.70		1 23		0.0925		0 824		0.120			
7440-02-0	TARGET ANALYTE LIST METALS	Nickel	PPM	50	0.857		0.570		0.800		0.0228		0.0200	U	0.0328		0.0296		0.0196	J	0.0558		0.0595		0 0386		0 0630		0 0514		0.0121	J	0.0108	J	0.00867	J		
7440-09-7	TARGET ANALYTE LIST METALS	Potassium	PPM		11.6				28.4						2.75		2.17		3.18		2.69		8.17		1.49		1.68		1.68		1.92		2 22		1.15			
7782-49-2	TARGET ANALYTE LIST METALS	Selenium	PPM	10	0.0250	U			0.0250	U					0.0250	U	0.0250	U	0.0250	U	0.0250	U	0 0250	U	0.0250	U	0.0250	U	0.0250	U	0.0250	U	0.0250	U	0 0250	U		
7440-22-4	TARGET ANALYTE LIST METALS	Silver	PPM	50	0.0200	U	0.0200	U	0.0200	U	5 0	U	12	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0 0200	U	0.0200	U	0 0200	U	0.0200	U	0.0200	U	0.0200	U	0 0200	U		
7440-23-5	TARGET ANALYTE LIST METALS	Sodium	PPM	20,000	23 0				70.1						7.79		30.9		25.5		9.81		18.8		5.62		5.74		5.06		16.0		23.2		6.01			
7440-28-0	TARGET ANALYTE LIST METALS	Thallium	PPM	4	0.0150	U			0.0150	U					0.0150	U	0.0150	U	0.0150	U	0.0150	U	0.0150	U	0.0150	U	0 0150	U	0.0150	U	0.0150	U	0.0150	U	0.0150	U		
7440-62-2	TARGET ANALYTE LIST METALS	Vanadium	PPM		0.170				0.447						0.0200	U	0 0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U		
7440-66-6	TARGET ANALYTE LIST METALS	Zinc	PPM	300	5.27				1.80						0.458		0 416		0.408		0.756		0.820		0.326		0.544		0.703		0.0812		0.0724		0 0690			
630-20-6	VOLATILE SW-846 METHOD 8260	1,1,1,2-Tetrachloroethane	PPB	5	1 0	U	1.0	U	1 0	U	5.2		0 71	J	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
71-55-6	VOLATILE SW-846 METHOD 8260	1,1,1-Trichloroethane	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
79-34-5	VOLATILE SW-846 METHOD 8260	1,1,2,2-Tetrachloroethane	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
76-13-1	VOLATILE SW-846 METHOD 8260	1,1,2-Trichloro-1,2,2-trifluoroethane	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
79-00-5	VOLATILE SW-846 METHOD 8260	1,1,2-Trichloroethane	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
75-34-3	VOLATILE SW-846 METHOD 8260	1,1-Dichloroethane	PPB		1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
75-35-4	VOLATILE SW-846 METHOD 8260	1,1-Dichloroethene	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
563-58-6	VOLATILE SW-846 METHOD 8260	1,1-Dichloropropene	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
87-61-6	VOLATILE SW-846 METHOD 8260	1,2,3-Trichlorobenzene	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
96-18-4	VOLATILE SW-846 METHOD 8260	1,2,3-Trichloropropane	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
95-93-2	VOLATILE SW-846 METHOD 8260	1,2,4,5-Tetramethylbenzene	PPB		1.0	U	1.0	U	1 4		1.0	U	1.0	U	1 0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
120-82-1	VOLATILE SW-846 METHOD 8260	1,2,4-Trichlorobenzene	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
95-63-6	VOLATILE SW-846 METHOD 8260	1,2,4-Trimethylbenzene	PPB	5	1.0	U	1.0	U	1.6		1.0	U	600		1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U
96-12-8	VOLATILE SW-846 METHOD 8260	1,2-Dibromo-3-chloropropane	PPB		1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1 0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
106-93-4	VOLATILE SW-846 METHOD 8260	1,2-Dibromoethane	PPB		1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1 0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
95-50-1	VOLATILE SW-846 METHOD 8260	1,2-Dichlorobenzene	PPB	5	1.0	U	1.0	U	1.0	U	1.0	U	5.3		1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
107-06-2	VOLATILE SW-846 METHOD 8260	1,2-Dichloroethane	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
78-87-5	VOLATILE SW-846 METHOD 8260	1,2-Dichloropropane	PPB		1 0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
108-67-8	VOLATILE SW-846 METHOD 8260	1,3,5-Trimethylbenzene	PPB	5	1.0	U	1.0	U	1.0	U	1.0	U	170		1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U
541-73-1	VOLATILE SW-846 METHOD 8260	1,3-Dichlorobenzene	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.7		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
142-28-9	VOLATILE SW-846 METHOD 8260	1,3-dichloropropane	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
106-46-7	VOLATILE SW-846 METHOD 8260	1,4-Dichlorobenzene	PPB		1 0	U	1.0	U	1.0	U	1.0	U	1.9		1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
590-20-7	VOLATILE SW-846 METHOD 8260	2,2-Dichloropropane	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U
78-93-3	VOLATILE SW-846 METHOD 8260	2-Butanone	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	3.0	U	1 0	U	1.0	U
110-75-8	VOLATILE SW-846 METHOD 8260	2-Chloroethyl vinyl ether	PPB		1 0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U
95-49-8	VOLATILE SW-846 METHOD 8260	2-Chlorotoluene	PPB		1 0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U
591-78-6	VOLATILE SW-846 METHOD 8260	2-Hexanone	PPB		1.0	U	1.0	U	1.0	U	50	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	1.0	U	1.0	U
67-63-0	VOLATILE SW-846 METHOD 8260	2-Propanol	PPB	7	50	U	50	U	50	U	1 0	U	50	U	50	U	50	U	50	U	50	U	50	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	50	U		
106-43-4	VOLATILE SW-846 METHOD 8260	4-Chlorotoluene	PPB		1 0	U	1 0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U
99-87-6	VOLATILE SW-846 METHOD 8260	4-Isopropyltoluene	PPB	5	1.0	U	1 0	U	1.0	U	1 0	U	10		1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U
108-10-1	VOLATILE SW-846 METHOD 8260	4-Methyl-2-pentanone	PPB		1.0	U	1.0	U	1.0	U	1 0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U	2 0	U	2.0	U	2.0	U	2 0	U	1.0	U
67-64-1	VOLATILE SW-846 METHOD 8260	Acetone	PPB	50	1.0	U	31		1.0	U	40		1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	1.0	U
107-02-8	VOLATILE SW-846 METHOD 8260	Acrolein	PPB		1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U
107-13-1	VOLATILE SW-846 METHOD 8260	Acrylonitrile	PPB		1.0	U	1.0	U	1.0	U	1 0	U	1 0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1 0	U
71-43-2	VOLATILE SW-846 METHOD 8260	Benzene	PPB		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1 0	U	1 0	U
108-86-1	VOLATILE SW-846 METHOD 8260	Bromobenzene	PPB		1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1 0	U	1 0	U

					1	2	3	4	5	6	7	8	9	10							
74-97-5	VOLATILE SW-846 METHOD 8260	Bromochloromethane	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
75-27-4	VOLATILE SW-846 METHOD 8260	Bromodichloromethane	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
75-25-2	VOLATILE SW-846 METHOD 8260	Bromoform	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
74-83-9	VOLATILE SW-846 METHOD 8260	Bromomethane	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
75-15-0	VOLATILE SW-846 METHOD 8260	Carbon disulfide	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
56-23-5	VOLATILE SW-846 METHOD 8260	Carbon tetrachloride	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
108-90-7	VOLATILE SW-846 METHOD 8260	Chlorobenzene	PPB		1.0 U	1.0 U	1.0 U	1.0 U	2.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
75-45-6	VOLATILE SW-846 METHOD 8260	Chlorodifluoromethane	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
75-00-3	VOLATILE SW-846 METHOD 8260	Chloroethane	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
67-66-3	VOLATILE SW-846 METHOD 8260	Chloroform	PPB	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	18	1.0 U	1.0 U	1.0 U	1.0 U
74-87-3	VOLATILE SW-846 METHOD 8260	Chloromethane	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
156-59-2	VOLATILE SW-846 METHOD 8260	cis-1,2-Dichloroethene	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1 3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10061-01-5	VOLATILE SW-846 METHOD 8260	cis-1,3-Dichloropropene	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
124-48-1	VOLATILE SW-846 METHOD 8260	Dibromochloromethane	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
74-95-3	VOLATILE SW-846 METHOD 8260	Dibromomethane	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
75-71-8	VOLATILE SW-846 METHOD 8260	Dichlorodifluoromethane	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
108-20-3	VOLATILE SW-846 METHOD 8260	Diisopropyl ether	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
64-17-5	VOLATILE SW-846 METHOD 8260	Ethanol	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
141-78-6	VOLATILE SW-846 METHOD 8260	Ethyl acetate	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
100-41-4	VOLATILE SW-846 METHOD 8260	Ethylbenzene	PPB	5	1.0 U	1.0 U	1.0 U	1.0 U	5.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
76-14-2	VOLATILE SW-846 METHOD 8260	Freon-114	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
87-68-3	VOLATILE SW-846 METHOD 8260	Hexachlorobutadiene	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
108-21-4	VOLATILE SW-846 METHOD 8260	Isopropyl acetate	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
98-82-8	VOLATILE SW-846 METHOD 8260	Isopropylbenzene	PPB	5	1.0 U	1.0 U	1.0 U	1.0 U	32	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1330-20-7	VOLATILE SW-846 METHOD 8260	m,p-Xylene	PPB	5	2.0 U	2.0 U	2.0 U	2.0 U	20	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1634-04-4	VOLATILE SW-846 METHOD 8260	Methyl tert-butyl ether	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
75-09-2	VOLATILE SW-846 METHOD 8260	Methylene chloride	PPB	5	4.4 B	18 B	3.8 B	16 B	1.0 U	3.6 B	4.1 B	4.1 B	3.9 B	4.6 B	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.5 B
	VOLATILE SW-846 METHOD 8260	n-Amyl acetate	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
91-20-3	VOLATILE SW-846 METHOD 8260	Naphthalene	PPB	10	1.0 U	1.0 U	33	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2 3
123-86-4	VOLATILE SW-846 METHOD 8260	n-Butyl acetate	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U
104-51-8	VOLATILE SW-846 METHOD 8260	n-Butylbenzene	PPB	5	1.0 U	1.0 U	1.0 U	1.0 U	5.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
109-60-4	VOLATILE SW-846 METHOD 8260	n-Propyl acetate	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
103-65-1	VOLATILE SW-846 METHOD 8260	n-Propylbenzene	PPB	5	1.0 U	1.0 U	1.0 U	1.0 U	48	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
95-47-6	VOLATILE SW-846 METHOD 8260	o-Xylene	PPB	5	1.0 U	1.0 U	1.0 U	1.0 U	12	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
105-05-5	VOLATILE SW-846 METHOD 8260	p-Diethylbenzene	PPB		1.0 U	1.0 U	1.0 U	1.0 U	44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
622-96-8	VOLATILE SW-846 METHOD 8260	p-Ethyltoluene	PPB		1.0 U	1.0 U	1.0 U	1.0 U	320	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
135-98-8	VOLATILE SW-846 METHOD 8260	sec-Butylbenzene	PPB	5	1.0 U	1.0 U	1.0 U	1.0 U	13	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
100-42-5	VOLATILE SW-846 METHOD 8260	Styrene	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
75-85-0	VOLATILE SW-846 METHOD 8260	t-Butyl alcohol	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
98-06-6	VOLATILE SW-846 METHOD 8260	tert-Butylbenzene	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
127-18-4	VOLATILE SW-846 METHOD 8260	Tetrachloroethene	PPB		1.0 U	1.0 U	1.0 U	0.58 J	0.70 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
108-88-3	VOLATILE SW-846 METHOD 8260	Toluene	PPB	5	1.0 U	1.0 U	1.0 U	1.0 U	7.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
156-60-5	VOLATILE SW-846 METHOD 8260	trans-1,2-Dichloroethene	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10061-02-6	VOLATILE SW-846 METHOD 8260	trans-1,3-Dichloropropene	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
79-01-6	VOLATILE SW-846 METHOD 8260	Trichloroethene	PPB		1.0 U	1.0 U	1.0 U	3.6	1 3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
75-69-4	VOLATILE SW-846 METHOD 8260	Trichlorofluoromethane	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
108-05-4	VOLATILE SW-846 METHOD 8260	Vinyl acetate	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 0 U	1 0 U	1.0 U	1.0 U	1 0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
75-01-4	VOLATILE SW-846 METHOD 8260	Vinyl chloride	PPB		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 0 U	1 0 U	1.0 U	1.0 U	1 0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

American Analytical Laboratories, LLC.
Soils
Client: N.D. Eryou PhD, P.E. - Consulting Engineer
Project: Camco Long Island MacArthur Airport Islip, N.Y.

Exceeds Action Level

Cas #:	Procedure:	Client Sample ID:	C-1		DW- 1		DW- 2		DW- 3		DW- 4		SCDHS	SCDHS	Camco B3 Soil		NYSRSCO
		Laboratory ID:	0610224-02		0610224-03		0610224-04		0610224-05		0610224-06		ACTION	CLEANUP	0610221-08		ACTION
		Sampling Date:	10/23/2006		10/23/2006		10/23/2006		10/23/2006		10/23/2006		ppb	ppb	10/23/2006		
		Analyte:	Units:	Q		Q		Q		Q		Q				Q	
7439-97-6	MERCURY	Mercury	PPM	0.333	0.135		0.187		0.0213		0.190		2	0.1	0.00431	U	
	PERCENT MOISTURE	Percent Moisture	wt%	18.0	16.1		15.6		4.88		8.25				7.10		0.1 ppm
12674-11-2	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1016	PPB												86	U	
11104-28-2	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1221	PPB												86	U	
11141-16-5	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1232	PPB												86	U	
53469-21-9	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1242	PPB												86	U	
12672-29-6	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1248	PPB												86	U	
11097-69-1	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1254	PPB												86	U	
11096-82-5	PCB's as AROCLORS SW-846 METHOD 8082	Aroclor 1260	PPB												86	U	
7440-38-2	SCDH METALS	Arsenic	PPM	3.89	2.34		1.81		0.865		2.40		25	7.5			
7440-41-7	SCDH METALS	Beryllium	PPM	0.478	U 0.453	U	0.468	U	0.419	U	0.431	U	8	1.6			
7440-43-9	SCDH METALS	Cadmium	PPM	7.83	4.13		6.40		0.406		1.75		10	1			
7440-47-3	SCDH METALS	Chromium	PPM	32.4	12.6		79.4		3.40		9.67		100	10			
7440-50-8	SCDH METALS	Copper	PPM	18.4	24.7		50.4		3.99		25.6		500	25			
7439-92-1	SCDH METALS	Lead	PPM	35.6	23.3		55.3		8.56		20.3		400	100			
7440-02-0	SCDH METALS	Nickel	PPM	4.12	4.57		9.64		1.31		6.46		1000	13			
7440-22-4	SCDH METALS	Silver	PPM	4.45	3.88		1.60		0.419	U	0.244	J	100	5			
83-32-9	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Acenaphthene	PPB	150	U 290		96	J	130	U	130	U	50,000	50,000			
208-96-8	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Acenaphthylene	PPB	150	U 140	U	140	U	130	U	130	U					
120-12-7	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Anthracene	PPB	150	U 590		310		130	U	130	U	50,000	50,000			
56-55-3	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Benzo(a)anthracene	PPB	260	2700		1200		130	U	130	U	6,000	3,000			
50-32-8	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Benzo(a)pyrene	PPB	150	U 2900		1600		130	U	130	U	2,200	1,100			
205-99-2	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Benzo(b)fluoranthene	PPB	400	3200		1800		130	U	130	U	2200	1100			
191-24-2	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Benzo(g,h,i)perylene	PPB	150	U 2200		1300		130	U	130	U	50,000	50,000			
207-08-9	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Benzo(k)fluoranthene	PPB	330	3500		1700		130	U	130	U	2200	1100			
218-01-9	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Chrysene	PPB	430	4000		1900		130	U	130	U	800	400			
53-70-3	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Dibenzo(a,h)anthracene	PPB	150	U 280		140	U	130	U	130	U	50,000	50,000			
206-44-0	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Fluoranthene	PPB	720	7000		2900		280		310		50,000	50,000			
86-73-7	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Fluorene	PPB	150	U 430		140	U	130	U	130	U	50,000	50,000			
193-39-5	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Indeno(1,2,3-c,d)pyrene	PPB	150	U 2100		1200		130	U	130	U	6400	3200			
85-01-8	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Phenanthrene	PPB	530	5500		2100		130	U	130	U	50,000	50,000			
129-00-0	SEMIVOLATILE SW-846 METHOD 8270 (PAH)	Pyrene	PPB	700	6800		3200		270		130	U	50,000	50,000	532		
7429-90-5	TARGET ANALYTE LIST METALS	Aluminum	PPM												0.538	U	
7440-36-0	TARGET ANALYTE LIST METALS	Antimony	PPM												1.42		SITE BACKGROUND
7440-38-2	TARGET ANALYTE LIST METALS	Arsenic	PPM										25	75	3.02		7.5 ppm
7440-39-3	TARGET ANALYTE LIST METALS	Barium	PPM												0.431	U	
7440-41-7	TARGET ANALYTE LIST METALS	Beryllium	PPM												0.215	U	
7440-43-9	TARGET ANALYTE LIST METALS	Cadmium	PPM												51.9		1 ppm
7440-70-2	TARGET ANALYTE LIST METALS	Calcium	PPM												7.37		1 OR SB
7440-47-3	TARGET ANALYTE LIST METALS	Chromium	PPM										100	10	0.431	U	
7440-48-4	TARGET ANALYTE LIST METALS	Cobalt	PPM												1.76		30 ppm
7440-50-8	TARGET ANALYTE LIST METALS	Copper	PPM										500	25	1600		25 ppm
7439-89-6	TARGET ANALYTE LIST METALS	Iron	PPM												7.03		2000 ppm
7439-92-1	TARGET ANALYTE LIST METALS	Lead	PPM										400	100	90.7		SITE BACKGROUND
7439-95-4	TARGET ANALYTE LIST METALS	Magnesium	PPM												18.7		SITE BACKGROUND
7439-96-5	TARGET ANALYTE LIST METALS	Manganese	PPM												1.42		SITE BACKGROUND
7440-02-0	TARGET ANALYTE LIST METALS	Nickel	PPM										1000	13	81.4		13 OR SB
7440-09-7	TARGET ANALYTE LIST METALS	Potassium	PPM												0.538	U	
7782-49-2	TARGET ANALYTE LIST METALS	Selenium	PPM												0.431	U	
7440-22-4	TARGET ANALYTE LIST METALS	Silver	PPM												68.0		SITE BACKGROUND
7440-23-5	TARGET ANALYTE LIST METALS	Sodium	PPM												0.431	U	
7440-28-0	TARGET ANALYTE LIST METALS	Thallium	PPM												2.76		SITE BACKGROUND
7440-62-2	TARGET ANALYTE LIST METALS	Vanadium	PPM												5.34		150 OR SB
7440-66-6	TARGET ANALYTE LIST METALS	Zinc	PPM												5.4	U	
630-20-6	VOLATILE SW-846 METHOD 8260	1,1,1,2-Tetrachloroethane	PPB	6.0	U 5.9	U	5.8	U	5.3	U	5.4	U			5.4	U	
71-55-6	VOLATILE SW-846 METHOD 8260	1,1,1-Trichloroethane	PPB	6.0	U 5.9	U	5.8	U	5.3	U	5.4	U			5.4	U	
79-34-5	VOLATILE SW-846 METHOD 8260	1,1,2,2-Tetrachloroethane	PPB	6.0	U 5.9	U	5.8	U	5.3	U	5.4	U			5.4	U	
76-13-1	VOLATILE SW-846 METHOD 8260	1,1,2-Trichloro-1,2,2-trifluoroethane	PPB	6.0	U 5.9	U	5.8	U	5.3	U	5.4	U			5.4	U	
79-00-5	VOLATILE SW-846 METHOD 8260	1,1,2-Trichloroethane	PPB	6.0	U 5.9	U	5.8	U	5.3	U	5.4	U			5.4	U	
75-34-3	VOLATILE SW-846 METHOD 8260	1,1-Dichloroethane	PPB	6.0	U 5.9	U	5.8	U	5.3	U	5.4	U			5.4	U	
75-35-4	VOLATILE SW-846 METHOD 8260	1,1-Dichloroethene	PPB	6.0	U 5.9	U	5.8	U	5.3	U	5.4	U			5.4	U	
563-58-6	VOLATILE SW-846 METHOD 8260	1,1-Dichloropropene	PPB	6.0	U 5.9	U	5.8	U	5.3	U	5.4	U			5.4	U	
87-61-6	VOLATILE SW-846 METHOD 8260	1,2,3-Trichlorobenzene	PPB	6.0	U 5.9	U	5.8	U	5.3	U	5.4	U			5.4	U	
96-18-4	VOLATILE SW-846 METHOD 8260	1,2,3-Trichloropropane	PPB	6.0	U 5.9	U	5.8	U	5.3	U	5.4	U			5.4	U	
95-93-2	VOLATILE SW-846 METHOD 8260	1,2,4,5-Tetramethylbenzene	PPB	6.0	U 5.9	U	5.8	U	5.3	U	5.4	U			5.4	U	

120-82-1	VOLATILE SW-846 METHOD 8260	1,2,4-Trichlorobenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
95-63-6	VOLATILE SW-846 METHOD 8260	1,2,4-Trimethylbenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
96-12-8	VOLATILE SW-846 METHOD 8260	1,2-Dibromo-3-chloropropane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
106-93-4	VOLATILE SW-846 METHOD 8260	1,2-Dibromoethane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
95-50-1	VOLATILE SW-846 METHOD 8260	1,2-Dichlorobenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
107-06-2	VOLATILE SW-846 METHOD 8260	1,2-Dichloroethane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
78-87-5	VOLATILE SW-846 METHOD 8260	1,2-Dichloropropane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
108-67-8	VOLATILE SW-846 METHOD 8260	1,3,5-Trimethylbenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
541-73-1	VOLATILE SW-846 METHOD 8260	1,3-Dichlorobenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
142-28-9	VOLATILE SW-846 METHOD 8260	1,3-dichloropropane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
106-46-7	VOLATILE SW-846 METHOD 8260	1,4-Dichlorobenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
590-20-7	VOLATILE SW-846 METHOD 8260	2,2-Dichloropropane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
78-93-3	VOLATILE SW-846 METHOD 8260	2-Butanone	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
110-75-8	VOLATILE SW-846 METHOD 8260	2-Chloroethyl vinyl ether	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
95-49-8	VOLATILE SW-846 METHOD 8260	2-Chlorotoluene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
591-78-6	VOLATILE SW-846 METHOD 8260	2-Hexanone	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			54	U		
67-63-0	VOLATILE SW-846 METHOD 8260	2-Propanol	PPB	60 U	59 U	58 U	53 U	54 U			5.4	U		
106-43-4	VOLATILE SW-846 METHOD 8260	4-Chlorotoluene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
99-87-6	VOLATILE SW-846 METHOD 8260	4-Isopropyltoluene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
108-10-1	VOLATILE SW-846 METHOD 8260	4-Methyl-2-pentanone	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
67-64-1	VOLATILE SW-846 METHOD 8260	Acetone	PPB	43	41	32	5.3 U	5.4 U	400	200	27	U	.2 ppm	
107-02-8	VOLATILE SW-846 METHOD 8260	Acrolein	PPB	30 U	30 U	29 U	27 U	27 U			5.4	U		
107-13-1	VOLATILE SW-846 METHOD 8260	Acrylonitrile	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
71-43-2	VOLATILE SW-846 METHOD 8260	Benzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
108-86-1	VOLATILE SW-846 METHOD 8260	Bromobenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
74-97-5	VOLATILE SW-846 METHOD 8260	Bromochloromethane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
75-27-4	VOLATILE SW-846 METHOD 8260	Bromodichloromethane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
75-25-2	VOLATILE SW-846 METHOD 8260	Bromoform	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
74-83-9	VOLATILE SW-846 METHOD 8260	Bromomethane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
75-15-0	VOLATILE SW-846 METHOD 8260	Carbon disulfide	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
56-23-5	VOLATILE SW-846 METHOD 8260	Carbon tetrachloride	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
108-90-7	VOLATILE SW-846 METHOD 8260	Chlorobenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
75-45-6	VOLATILE SW-846 METHOD 8260	Chlorodifluoromethane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
75-00-3	VOLATILE SW-846 METHOD 8260	Chloroethane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
67-66-3	VOLATILE SW-846 METHOD 8260	Chloroform	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
74-87-3	VOLATILE SW-846 METHOD 8260	Chloromethane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
156-59-2	VOLATILE SW-846 METHOD 8260	cis-1,2-Dichloroethene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
10061-01-5	VOLATILE SW-846 METHOD 8260	cis-1,3-Dichloropropene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
124-48-1	VOLATILE SW-846 METHOD 8260	Dibromochloromethane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
74-95-3	VOLATILE SW-846 METHOD 8260	Dibromomethane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
75-71-8	VOLATILE SW-846 METHOD 8260	Dichlorodifluoromethane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
108-20-3	VOLATILE SW-846 METHOD 8260	Diisopropyl ether	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			27	U		
64-17-5	VOLATILE SW-846 METHOD 8260	Ethanol	PPB	30 U	30 U	29 U	27 U	27 U			5.4	U		
141-78-6	VOLATILE SW-846 METHOD 8260	Ethyl acetate	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
100-41-4	VOLATILE SW-846 METHOD 8260	Ethylbenzene	PPB	6.0 U	5.9 U	1.3 J	5.3 U	5.4 U			5.4	U		
76-14-2	VOLATILE SW-846 METHOD 8260	Freon-114	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
87-68-3	VOLATILE SW-846 METHOD 8260	Hexachlorobutadiene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
108-21-4	VOLATILE SW-846 METHOD 8260	Isopropyl acetate	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
98-82-8	VOLATILE SW-846 METHOD 8260	Isopropylbenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			11	U		
1330-20-7	VOLATILE SW-846 METHOD 8260	m,p-Xylene	PPB	12 U	2.1 J	6.0 J	11 U	11 U			5.4	U		
1634-04-4	VOLATILE SW-846 METHOD 8260	Methyl tert-butyl ether	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			8.8	B		
75-09-2	VOLATILE SW-846 METHOD 8260	Methylene chloride	PPB	16 B	17 B	21 B	22 B	22 B	200	100	5.4	U		
	VOLATILE SW-846 METHOD 8260	n-Amyl acetate	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
91-20-3	VOLATILE SW-846 METHOD 8260	Naphthalene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
123-86-4	VOLATILE SW-846 METHOD 8260	n-Butyl acetate	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
104-51-8	VOLATILE SW-846 METHOD 8260	n-Butylbenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
109-60-4	VOLATILE SW-846 METHOD 8260	n-Propyl acetate	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
103-65-1	VOLATILE SW-846 METHOD 8260	n-Propylbenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
95-47-6	VOLATILE SW-846 METHOD 8260	o-Xylene	PPB	6.0 U	1.3 J	4.3 J	5.3 U	5.4 U			5.4	U		
105-05-5	VOLATILE SW-846 METHOD 8260	p-Diethylbenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
622-96-8	VOLATILE SW-846 METHOD 8260	p-Ethyltoluene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
135-98-8	VOLATILE SW-846 METHOD 8260	sec-Butylbenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
100-42-5	VOLATILE SW-846 METHOD 8260	Styrene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
75-65-0	VOLATILE SW-846 METHOD 8260	t-Butyl alcohol	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
98-06-6	VOLATILE SW-846 METHOD 8260	tert-Butylbenzene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
127-18-4	VOLATILE SW-846 METHOD 8260	Tetrachloroethene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	1.5 J			5.4	U		
108-88-3	VOLATILE SW-846 METHOD 8260	Toluene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
156-60-5	VOLATILE SW-846 METHOD 8260	trans-1,2-Dichloroethene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
10061-02-6	VOLATILE SW-846 METHOD 8260	trans-1,3-Dichloropropene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
79-01-6	VOLATILE SW-846 METHOD 8260	Trichloroethene	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
75-69-4	VOLATILE SW-846 METHOD 8260	Trichlorofluoromethane	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
108-05-4	VOLATILE SW-846 METHOD 8260	Vinyl acetate	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U			5.4	U		
75-01-4	VOLATILE SW-846 METHOD 8260	Vinyl chloride	PPB	6.0 U	5.9 U	5.8 U	5.3 U	5.4 U						

APPENDIX C – NYSDEC LETTER

EVAR)

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A, 11th Floor
625 Broadway, Albany, New York 12233-7015
Phone: (518) 402-9625 • **FAX:** (518) 402-9022
Website: www.dec.state.ny.us

Denise M. Sheehan
Commissioner

Post-it® Fax Note 7671	Date 11-9-06	# of pages ▶ 3
To DENNIS ERYOU	From EMERY DICEY	
Co./Dept.	Co.	
Phone #	Phone #	
Fax # 239 580 4302	Fax #	

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Town of Islip
Town Hall
665 Main Street
Islip, NY 11751

Dear Sirs:

As mandated by Section 27-1305.2.a and 1305.2.b of the Environmental Conservation Law (ECL), copy enclosed, The New York State Department of Environmental Conservation (NYSDEC) must investigate all suspected or known inactive hazardous waste disposal sites. We have received information which leads us to suspect that hazardous waste has been disposed of at the following location:

Site Name: Central Aviation & Marine Corporation
Site Address: 2125 Smithtown Ave., Ronkonkoma, NY 11716
Tax Map Number: 50-106-1-6.7

Therefore, this letter constitutes notification of NYSDEC's intention to designate this location as a potential inactive hazardous waste disposal site.

A summary of the information we presently have on the site is enclosed. If you should have any information that may be relevant to our determination, please forward it to me within fifteen days of receipt of this letter.

Sincerely,

John B. Swartwout

John B. Swartwout, P.E.
Section Chief
Remedial Bureau A

Enclosures

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

6/24/04

SITE INVESTIGATION INFORMATION

1. SITE NAME	2. SITE NUMBER	3. TOWN/CITY/VILLAGE	4. COUNTY
Central Aviation & Marine Corporation		Ronkonkoma	Suffolk

5. REGION: Region 1

6. PROGRAM TYPE: BCP ☐ ERP ☐ SPILL ☐ SUPERFUND X If Superfund: Current ____ Proposed P Modification

7. LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location)

a. Quadrangle: Patchogue b. Site Latitude 40 ° 47 ' 55 " Site Longitude 73 ° 6 ' 35 "

c. Tax Map Number(s) 80-108-1-8.7 d. Site Street Address 2125 Smithtown Avenue, Ronkonkoma, New York 11716

8. BRIEFLY DESCRIBE THE SITE (Attach site map showing disposal/sampling locations)

The site, which consists of a main production building and a warehouse, is included in the inventory of Hazardous Substance Waste Disposal Sites (HS Site #HS 1008). The property was occupied by Central Aviation & Marine Corp. (CAMCO) from before WWII to 1996. It appears CAMCO leased the property from the Town of Islip. During that time, the facility operated as a repair and overhaul shop for aircraft parts and accessories. Prior to 1980, the facility's wastewater was discharged on site to a series of leaching pools and storm drains. From the early 1980s to 1996, CAMCO treated, containerized and transferred operational wastewater to an off-site recycling or disposal facility. In 1996, CAMCO vacated the property and since then the main building has been vacant and the warehouse used for limited storage. The majority of the facility has been dormant.
Samples collected from the leaching pools and storm drains in 1980 revealed elevated concentrations of cadmium (4.2 ppm), 1,1,1-trichloroethane (1270 ppb), and methylene chloride (1,300 ppb). From the limited site information available, it could not be determined if the elevated concentrations of metals and VOCs was addressed during a subsequent investigation(s).

a. Area 3.2 Acres b. Completed: ( ) Env. Property Assessment ( ) Site Characterization ( ) SI ( ) ESI ( ) IRM ( )RI ( ) Construction ( ) OM&M
( ) Spill Response (X) Other EPA Site Inspection

9. CONTAMINANTS DISPOSED (Hazardous Waste, Petroleum, Other, Includes EPA Hazardous Waste Numbers)

1,1,1-trichloroethane (F002)
Methylene Chloride (F002)
Cadmium (D006)

10. ANALYTICAL DATA AVAILABLE

a. ( )Air ( )Groundwater ( )Surface Water ( )Sediment ( )Soil (X)Waste ( )Leachate ( )EPTox ( )TCLP
b. Contravention of Standards or Guidance Values

	Storm Drain / leaching pool sample	TAGM #4046 Ground Water
1,1,1-trichloroethane	1,270 ppb	5 ppb
Methylene Chloride	1,300 ppb	5 ppb
Cadmium	4.2 ppm	0.5 ppm

11. CONCLUSION

Previous sampling of the facility's storm drains and leaching pools revealed elevated concentration of Metals and VOCs. At this time, it is not evident whether or not the elevated concentration in the waste water discharge area was properly addressed. An addition investigation is warranted to determine if the facility's past disposal practices has impacted the soil and ground water in the vicinity of the waste water discharge area.

a. Institutional Controls (IC) Required? ( )Y ( )N b. If yes, Identify c. Are these ICs in place and verified? ( )Y ( )N

12. SITE IMPACT DATA

a. Nearest Surface Water: Distance 9,000 ft. Direction N-NW Class B
b. Groundwater: Depth 20 ft. Flow Direction S-SW (x)Sole Source ( )Primary ( )Other High-Yield Aquifer
c. Water Supply: Distance 5,600 ft. Direction West Active (X)Yes ( )No
d. Nearest Building: Distance on-site ft. Direction N/A Use Limited warehouse storage

e. Documented fish or wildlife mortality?	( )Y	(x)N	h. Exposed hazardous waste?	( )Y	(x)N
f. Impact on special status fish or wildlife resources?	( )Y	(x)N	i. Site Priority Ranking Sheet — Impact Score	166	
g. Controlled Site Access?	(x)Y	( )N	j. Significant Threat?	( )Y	(X)N
			k. EPA ID#	HRS Score	

13. SITE OWNER'S NAME	14. ADDRESS	15. TELEPHONE NUMBER
Town of Islip	Town hall, 655 Main Street, Islip, New York 11751	(631)-224-5691

16. PREPARER	17. APPROVED
John C. Sheehan, Engineering Geologist 1, DER, Region 1	John Swartwout, Chief, Section C, Remedial Bureau A
Signature / Date: 7-12-06	Signature / Date: July 10, 2006
Name, Title, Organization	Name, Title, Organization

k. Direction of present and historic groundwater flows at the site;

l. Location, nature and size of all surface waters at and near the site;

m. Levels of contaminants, if any, in groundwater, surface water, air and soils at and near the site resulting from hazardous wastes disposed of at the site or from any other cause and areas known to be directly affected or contaminated by wastes from the site;

n. As determined by the department of health, current quality of all drinking water drawn from or distributed through the area in which the site is located when the department of health determines that water quality may have been affected by the site in question and any known change in the quality of such drinking water over time;

o. Proximity of the site to private residences, public buildings or property, school facilities, places of work or other areas where individuals may be present; and

p. The name, address and telephone number of the public water supplier which services the area in which such site is located.

2. a. The department shall conduct investigations of the sites listed in the registry and shall investigate areas or sites which it has reason to believe should be included in the registry. The purpose of these investigations shall be to develop the information required by subdivision one of this section to be included in the registry.

b. The department shall, as part of the registry, assess and, based upon new information received, reassess by March thirty-first of each year, in cooperation with the department of health, the relative need for action at each site to remedy environmental and health problems resulting from the presence of hazardous wastes at such sites; provided, however, that if at the time of such assessment or reassessment, the department has not placed a site in classification 1 or 2, as described in subparagraphs one and two of this paragraph, and such site is the subject of negotiations for, or implementation of, a brownfield site cleanup agreement pursuant to title fourteen of this article, obligating the person subject to such agreement to, at a minimum, eliminate or mitigate all significant threats to the public health and environment posed by the hazardous waste pursuant to such agreement, the department shall defer its assessment or reassessment during the period such person is engaged in good faith negotiations to enter into such an agreement and, following its execution, is in compliance with the terms of such agreement, and shall assess or reassess such site upon completion of remediation to the department's satisfaction. In making its assessments, the department shall place every site in one of the following classifications:

(1) Causing or presenting an imminent danger of causing irreversible or irreparable damage to the public health or environment--immediate action required;

(2) Significant threat to the public health or environment--action required;

(3) Does not present a significant threat to the public health or environment--action may be deferred;

(4) Site properly closed--requires continued management;

(5) Site properly closed, no evidence of present or potential adverse impact--no further action required.

c. (1) Any owner or operator of a site listed pursuant to this section may petition the commissioner for deletion of such site, modification of the site classification, or modification of any information regarding such site by submitting a written statement in such form as the commissioner may require setting forth the grounds of the petition.