### New York State Department of Environmental Conservation Division of Hazardous Waste Remediation Bureau of Hazardous Site Control

ADDITIONS/CHANGES TO REGISTRY: SUMMARY OF APPROVALS

SITE NAME: AIRCO SPEAR CARBO	IN GR	PAPHITE	DEC I.D	. NUMBER_	932002
Current Classification 2a					
Activity: Add as Reclass	sify to	3	Del Cat	ist egory	Modify
Approvals:		_	_		
Regional Hazardous Waste Engineer	Yes		No		
NYSDOH	Yes		No		
DEE	Yes		No		
Construction Services	Yes	W/G	No		:
BHSC: a. Investigation Section	Yes		No		
b. Site Control Section	KM	1/ P	<u>Tavió</u>	<del>D</del>	Date 11/14/94
c. Director		1/4		2.4	Date 11/14/94
DHWR Assistant Director		harles 1	Tol	<u> </u>	Date 11/17/94
Completion Checklist				Complet Initia	ted By: ls Date
OWNER NOTIFICATION LETTER?					12/22/94
ADJACENT PROPERTY OWNER NOTIFICATION LETT	TER?				1/9/95
ENB/LEGAL NOTICE SENT? (For Deletion Only)	, ··•				
COMMENTS SUMMARIZED/PLACE IN REPOSITORY					
FINAL NOTIFICATION SENT TO OWNER? (For Deletion Only)					
(For proposed Class 2a sites only) Planne	d inves	tigative	activit	ies & dat	tes:
		*			

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF HAZARDOUS WASTE REMEDIATION

10/23/91

#### REGISTRY SITE CLASSIFICATION DECISION

1. SITE NAME Airco Speer Carbon	2. SITE NO 932002	3. TOWN/CITY   Niagara Fall		4. COUNTY   Niagara
Graphite				Wrogard
9	Current	2a Proposed	13 Modify	
7. LOCATION OF SITE (Att			<del>-</del>	
a. Quadrangte Niagara Falls/Tonawanda W.	b. Site Lat		gitude	c. Tax Map Number 145.18-1-6
8. BRIEFLY DESCRIBE THE S	SITE (Attach s	ite plan showi	ng disposal/s	ampling locations)
The site is an active car trialized area of Niagara	bon electrode Falls Close	manufacturing e neighbors in	: facility loc clude an Oxv-	ated in a highly indus- Durez site and CFCOS/
Necco Park. Approximate∣	y 30 active to	ransformers lo	cated on site	are used to <b>manage</b>
distribution of electrici large amount of carbon du	ist accumulatii	ng on site. T	he dust is no	t readily suppressed in
all areas and tends to mi	grate through	out the site.		
a. Area29 acres				
c. Completed (x)Phase I		(×)PSA ( )RI	/FS (x)PA/SI	( )Other
- 9. HÁZARDÓUS WASTÉS DISPO - At least 5 spill incident		CB bearing tra	nsformer oils	have been reported to
NYSDEC since 1987; PCBs was Records documenting the U	vere found in	site soils at	levels up to	270 ppm in 1 <b>985.</b>
in the form of a commerci	al chemical pr	oduct; aceton	ie was detecte	d in 12 subsurface sam-
ples. Lead was detected ceeding the regulatory lim	in a liquid su nit of 5,000 uc	ump sample at g/l specified	a concentration by 6NYCRR Par	on of 18,900 ug/l, ex- t 371.3(e).
10. ANALYTICAL DATA AVAIL a. ( )Air ( )Groundy	ABLE			
b. Contravention of S	Standards or Gu	uidance Values	, ,	, ,
PCBs were found on site a confirmed in 1993 with le				
in soils 2-4 ft. bgs rang 22 BNA target compounds,				
and liquid wastes on site		rucs were roun	u 111 30113, 3	carment, sarrade water,
11. JUSTIFICATION FOR CLA Hazardous waste is preser			Bs in excess	of 50 ppm. acetone that
has been documented to ha	ve been dispos	se <mark>d as the pu</mark> r	e chemical pro	oduct, and lead in liq-
uid wastes that exceeds E due to the following fact		Significant	threat is not	present at the site
although acetor amounts present were well				ment samples, the
for PCBs detected in sedi	ments, and lea	ad found in su	rface water a	nd sediments. The site
itself is fenced with acc ed in is an industrial ar				
which have active and ong	oing moitoring	g programs.		
12. SITE IMPACT DATA				1: A COCA 1
a. Nearest surface water: Distan	ce2000_ft.	DirectionW	Classific	cation <u>A-SPECIAL</u>
b. Nearest Groundwater: Depth	1/2 <u> </u>	DirectionSSW_	( )Sole Sour	rce ( )Primary ( )Principal
c. Nearest water supply: Distanc	e _1.2 mi. D	irectionS	Active ()	()Yes ( )No
d. Nearest building: Distance	= <del></del>	nE Use	industrial	
e. In State Economic Development f. Crops or livestock on site?	Zone?	N(X) Y( )	i. Controlled j. Exposed haz	
g. Documented fish or wildlife m		( )Y (×)N	k. HRS Score	
h. Impact on special status fish	or wildlife reso	urce? ( )Y (x IN	1. For Class 2	2: Priority Category
13. SITE OWNER'S NAME The Carbon/Graphite Group	14. ADDRÉSS 4861 Packar	; d Rd. Niagara	Falls, N.Y.	15. TELEPHONE NUMBER 716-285-9281
16. PREPARER		17. APP	14304	, , , , , , , , , , , , , , , , , , , ,
1 A A A A A A A A A A A A A A A A A A A		17. 811		Ná v
Curiffina & Light I	uf 6 1/7	194 500 11	Lacky A Low	Car 11/17/94
Signature Cynthia A. Whitfield, E£1	Da/te/	1	Signature	Date
BHSC, DHWR, NYSDEC		1.	IX	
Name, Title, Organizati	on	Name,	Title, Organi	ization
			- × 10	



Center for Environmental Health

2 University Place

Albany, New York 12203-3399

Mark R. Chassin, M.D., M.P.P., M.P.H. Commissioner

Paula Wilson Executive Deputy Commissioner

OFFICE OF PUBLIC HEALTH

Lloyd F. Novick, M.D., M.P.H. Director

Diana Jones Ritter

Executive Deputy Director William N. Stasiuk, P.E., Ph.D.

Center Director

February 9, 1994

Mr. Earl Barcomb, P.E., Director **Bureau of Hazardous Site Control** NYS Dept. of Environmental Conservation 50 Wolf Road, Room 218 Albany, New York 12233

RE:

Registry Site Classification Decision Airco Speer Carbon-Graphite Niagara Falls, Niagara County

Site ID #932002

Dear Mr. Barcomb:

My staff have reviewed the Registry Site Classification Decision for the Airco Speer Carbon-Graphite site. Based on that review, I understand that the site contains hazardous waste, but that the site is fenced and secure and that there is no public exposure to on-site wastes. With this information, I conclude that there are no significant public health threat at this site and I concur with classifying this site as a Class 3. The statement: "There is no public exposure to on-site wastes." should be added to the "Justification for Classification Decision", block 11.

If the use of this facility changes, the potential for public exposures might change and this classification should be reviewed. If you have any questions, please feel free to call me or Mr. Allison C. Wakeman at 458-6310.

Sincerely,

G. Anders Carlson, Ph.D.

Director

Bureau of Environmental Exposure

Investigation

tjl/94034PRO0105

Dr. N. Kim cc:

> Mr. A. Wakeman/Ms. D. Hettrick Dr. O. Smith-Blackwell, WRO

Mr. J. Devald, NCHD

Mr. T. Reamon/Ms. C. Whitfield, DEC

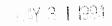
10/23/91

Copy-REGION Copy-DEE Copy DOH Copy-PREPARER

#### REGISTRY SITE CLASSIFICATION DECISION

1. SITE NAME Airco Speer Carbon	2. SITE NO 932002	3. TOWN/CITY Niagara Fall		4. COUNTY Niagara	
Graphite 5. REGION 6. CLASSIFIC	ATION				
i 9 i	Current	2a Proposed	3 Modify		
7. LOCATION OF SITE (Att	ach U.S.G.S To b. Site Lati		snowing site gitude	c. Tax Map Number	l
i a. quadrangte    Niagara Falls/Tonawanda W.			-	145.18-1-6	
8. BRIEFLY DESCRIBE THE S	SITE (Attach si	ite plan showi	ng disposal/sa	empling locations)	
The site is an active car   trialized area of Niagara					
Necco Park. Approximate!	y 30 active tr	ransformers lo	cated on site	are used to manage	ļ
distribution of electrici large amount of carbon du	ty to plant fu Ist accumulatio	urnaces. The no on site. T	manufacturing he dust is no	process results in a t readily suppressed	in
all areas and tends to mi					
a. Area29 acres					į
c. Completed (x)Phase i		(×)PSA ( )RI	/FS (×)PA/SI	( )Other	
9. HAZARDOUS WASTES DISPO		R bearing tra	nsformer oils	have been reported t	
NYSDEC since 1987; PCBs w	ere found in	site soils at	levels up to	270 ppm in 1985.	İ
Records documenting the uin the form of a commerci	ise of acetone al chemical pr	at the site i oduct: aceton	ndicate that 1 e was detected	the compound was used 1 in 12 subsurface sa	m - 1
ples. Lead was detected ceeding the regulatory lim	in a liquid su	imp sample at	a concentratio	on of 18,900 ug/l, ex	
10. ANALYTICAL DATA AVAIL	ABLE				
a. ( )Air ( )Groundw b. Contravention of S			Soil ()Waste	e ()EPTox ()TCLP	
PCBs were found on site a	t 270 ppm in 1	1985. The pre	sence of PCB (	contaminated soil was	İ
confirmed in 1993 with le in soils 2-4 ft. bgs rang	evels up to 59 ged from 0.023	mg/kg to 0.13	a concentration mg/kg. Twelv	ons of acetone found ve VOA target compoun	ds
22 BNA target compounds, and liquid wastes on site	and 16 pestici				
and riquid wastes on site	•				
11. JUSTIFICATION FOR CLA	SSIFICATION DE	CISION			¦
Hazardous waste is presen has been documented to ha					
uid wastes that exceeds E	P Tox levels.	Significant	threat is not	present at the site	
due to the following fact the area; although aceton	ors: groundwa	ater is not use	ed as a source ater and sedin	e of drinking water i	n
amounts present were well	below USEPA h	nealth based q	uidance values	s: the same was true	
for PCBs detected in sedi itself is fenced with acc	ments, and lea ess controlled	nd found in su I by security	rface water an quards. The a	nd sediments. The si area the site is loca	te i
ed in is an industrial ar which have active and ong	ea heavily pop	oulated with o			
which have active and ong 	oing mortoring	g programs,			
12. SITE IMPACT DATA a. Nearest surface water: Distan	ce 2000 ft.	DirectionK	Classific	ation	I
1					1
b. Nearest Groundwater: Depth	1/2ft. Flow	DirectionSSW_	( )Sole Sour	ce ( )Primary ( )Princip	al'
c. Nearest water supply: Distanc	e _1.2 mi. D	irectionS	Active (x	Yes ( )No	1
d. Nearest building: Distance	_Oft. Direction	nE Use	•		-
le. In State Economic Development f. Crops or livestock on site?	Zone?	( )Y (X)N ( )Y (X)N	i. Controlled j. Exposed haz		: 1
g. Documented fish or wildlife m		( )Y (x)N	k. HRS Score		
h. Impact on special status fish	or wildlife reso	urce? ( )Y (x)N	1. For Class 2	: Priority Category	_
13. SITE OWNER'S NAME The Carbon/Graphite Group	14. ADDRESS	d Rd. Niagara	Falls N Y	15. TELEPHONE NUMBER 716-285-9281	
	1 4007 7 401141		14304	7.10 203 320.	Ì
16. PREPARER		17. AP		1 1	
Cury His A Light	1.06 1/7	195 17-6	( Coste	2/9/94	ļ
Signature	Da/te/		Signature	bate	_
Cynthia A. Whitfield, E.E.1 BHSC, DHWR, NYSDEC	. ,	GA	0.10	Door	
Name, Title, Organizati	 on	Name	Title, Organ	zation DCZA	-
		.   ""			

#### New York State Department of Environmental Conservation 270 Michigan Avenue, Buffalo, New York 14203-2999





Langdon Marsh Acting Commissioner

#### MEMORANDUM

TO:

Robert Marino, Director BHSC

FROM:

Peter Buechi, Regional Engineer Region 9

SUBJECT:

Airco Speer Carbon Graphite #932002

DATE:

May 24, 1994

As indicated in the PSA Report, high levels of lead and PCB's were found in the groundwater in basement sump of Building 1.

To confirm the presence of these contaminants, Region 9 staff collected samples from this sump on 2/28/94. The results of this sampling indicated only background levels of heavy metals, and PCB's were not detected.

Based on this additional data we have no objection to reclassify this site to a Class 3.

However, we are requesting that Block 11 on the reclassification form be rewritten to eliminate the phrase "groundwater is not used as a source of drinking water". This phrase conflicts with other program guidance and Part 375 in which we strive to achieve SCG's and predisposal conditions, even for aquifers that are not known to be drinking water supplies. Therefore, there is an inconsistency issue raised by this statement.

ad

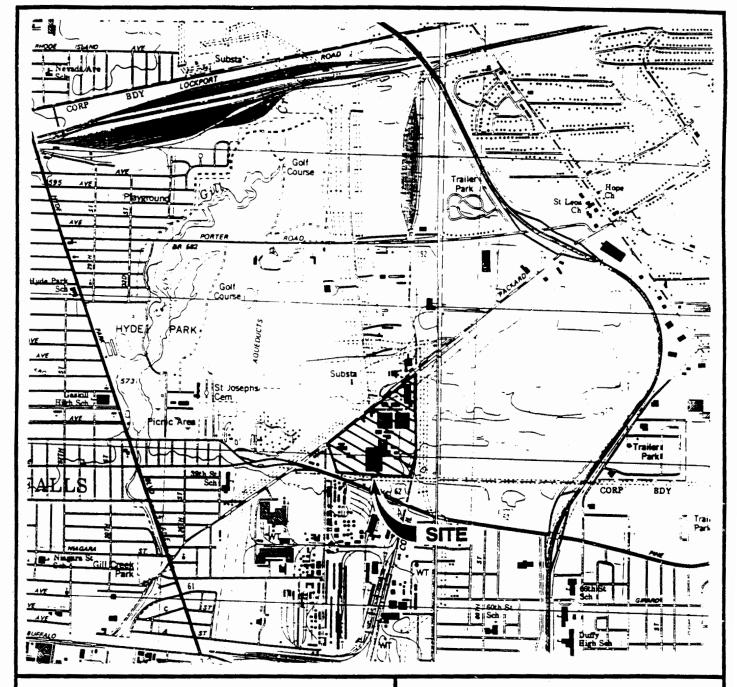
cc:

Ms. Cynthia Whitfield, BHSC

Mr. Michael Hinton, HWR

#### CLASSIFICATION WORKSHEET

Site	e: <u>Airco Speer Carbon Graphite</u> County: <u>932002</u> Region: <u>9</u>
1.	Hazardous waste disposed $\underline{X}$ Y (to 2) $\underline{\ }$ N (Stop) $\underline{\ }$ U (Stop)
2.	Consequential amount of $X Y (to 3) N (Stop) U (to 3)$ hazardous waste?
3.	Part 375-1.4(a)(1) applies? X N (to 4) U (to 4)
	Y (as checked below; Class 2; to 5)
_ a.	endangered or threatened species _ d. fish, shellfish, crustacea or wildlife
_ b.	streams, wetlands or coastal zone _ e. fire, spill, explosion or toxic reaction
_ c.	bioaccumulation _ f. proximity to people or water supplies
4.	Part 375-1.4(a)(2) applies? X N (C1 3; Stop) _ U (C1 2a: Stop)
~-	Y (Class 2; to 5)
_	
_	
5.	Factor(s) considered in making this determination:
_	
_	
_	
_	
SUMM	<u>ARY</u>
	Consequential Hazardous Waste X Yes _ No _Unknown
	Significant Threat _ Yes X No _Unknown
	Proposed Classification 3 Site Number 932002
Nov	ember 21, 1994 (within Alwhitfiell Envir. Eng. I



BASE MAP: U.S.Q.S. 7.5 TOPOGRAPHIC MAP NIAGARA FALLS, N.Y. - ONT. (1980) AND TOWAWANDA WEST, N.Y. (1980) QUADRANGLES





LATITUDE: 43° 05' 44" LONGITUDE: 79° 00' 08" 9CALE 0 2000 4000 FT. 2000 FT.

#### **ENGINEERING-SCIENCE**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PRELIMINARY SITE ASSESSMENT

#### SITE LOCATION

AIRCO SPEER CARBON GRAPHITE

#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF HAZARDOUS WASTE REMEDIATION INACTIVE HAZARDOUS WASTE DISPOSAL REPORT

CLASSIFICATION CODE: 24 3

REGION: 9

SITE CODE: 932002 EPA ID: NYD980201263

NAME OF SITE: Airco Speer Carbon-Graphite

STREET ADDRESS: Packard Road at 47th Street

TOWN/CITY:

COUNTY:

ZIP: 14304

Niagara Falls

Niagara

SITE TYPE: Open Dump- X Structure- Lagoon- Landfill- Treatment Pond-ESTIMATED SIZE: 229 Acres

#### SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: The Carbide / Graphite Group Inc.

CURRENT OWNER ADDRESS.: 800 Teresia St., St. Marys, Pa. OWNER(S) DURING USE...: International Graphite and Elec./Airco

OPERATOR DURING USE...: Airco Speer Carbon Graphite

OPERATOR ADDRESS.....: 4861 Packard Rd., Niagara Falls, NY

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 1930

#### SITE DESCRIPTION:

This site is mainly land built up by clean fill. The fill consisted of: carbonaceous furnace insulation, spent refractories and non-repairable equipment. An insulation mixture containing asbestos was also used for fill. New plant buildings were built on much of the same area formerly used as disposal sites. Most of the area is paved to facilitate control and cleanup of dust. All drainage is caught and directed to the Niagara Falls WWTP. This same area was used as a disposal site by International Graphite and Electrode before 1930 when Airco Speer assumed half and then full ownership. Quantities of wastes shown below are given for 1930 to 1954. The USGS sampled this site in 1982 by taking four soil borings. The samples were again collected in May 1983. Fourteen organic priority pollutants were found in soil samples, some as high as 61 ppm. A State Superfund Phase I Investigation was completed in 1987. A Site Investigation with sampling was conducted by EPA in 1985. The presence of polynuclear aromatic hydrocarbons (PAH's) was confirmed. Low levels of purgeable hydrocarbons were also detected.

One soil sample contained Aroclor 1248 (PCB) at 270 ppm. Analytical data from a PSA and acted in 1993 confirmed the presence of PCBs in excess of 50 ppm. The site is also contaminated by 12 volatile organics 22 semivolatiles, and 16 pesticides. These substances are present at low levels and are not expected to cause a significant threat to the environment.

TYPE

QUANTITY (units) -----

Furnace insulation. Carbon materials

28,800 to 144,000 cu yds

Linseed Oil (after 1942) Coal tar chemicals Asbestos fiber and tape

2,500 gallons

7 Tons

SITE CODE: 932002

ANALYTICAL DATA AVAILABLE:

Air- Surface Water-  $\chi$  Groundwater- Soil-X Sediment-  $\chi$ 

CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water- Surface Water-

LEGAL ACTION:

TYPE..: None State- Federal-STATUS: Negotiation in Progress- Order Signed-

REMEDIAL ACTION:

Proposed- Under design- In Progress- Completed-

NATURE OF ACTION: N/A

GEOTECHNICAL INFORMATION:

SOIL TYPE: Topsoil, red clay 7 bedrock at 4-6 feet

GROUNDWATER DEPTH: Unknown

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

The site is not expected to cause any ummediate exvironmental problems.

#### ASSESSMENT OF HEALTH PROBLEMS:

Access to the site is restricted by fences and quards. Most contaminants were found 0-4 fl bgs. Workers on site are not expected to come into contact with wastes on a regular basis. basis.

#### SECTION 1

#### **EXECUTIVE SUMMARY**

#### 1.1 BACKGROUND SUMMARY

This document presents the results of the Task 3 investigation for the Preliminary Site Assessment (PSA) of the Airco Speer Carbon-Graphite, Inc. Site, located in the City of Niagara Falls, Niagara County, New York (Figure 1.1). The site is a Class 2a site listed on the NYSDEC Registry of Inactive Hazardous Waste Disposal Sites (NYSDEC Site No. 932002), and is owned by the Carbide/Graphite Group, Inc. The site is under investigation because previous investigations indicate that hazardous wastes consisting of polychlorinated biphenyls (PCBs) and organic solvents have been disposed on-site.

The Airco Speer Carbon-Graphite, Inc. Site is an active manufacturing plant, and is located on a 62-acre parcel of land (Figure 1.2). The principal products manufactured at the site are graphite electrodes that are used in electric arc furnaces to manufacture steel. Electrodes have been manufactured at the site since the 1930s (ES, 1930). Most of the site is covered by manufacturing buildings, including six buildings containing electric electrode-baking furnaces (Graphite Plant Nos. 1 through 6) and four buildings containing gas-fired electrode-baking ovens (Bake Plants Nos. 1 through 4). Much of the open area on-site is covered by paved parking lots and is nearly flat. Unpaved surfaces are present in the open areas located in the southwest corner of the site. These areas are used for equipment and materials storage, and include a hazardous materials storage building, a drum storage area, and several above-ground storage tanks.

Approximately 20 acres of the site is underlain by a landfill that was used in the past to dispose of manufacturing wastes generated on-site. Wastes disposed in the landfill include approximately 86,000 cubic yards of carbonaceous granules and dust, spent refractories (bricks, concrete, and sand), 2,500 gallons of linseed oil and coal tar, and 7 tons of asbestos fibers (ITFHW, 1978). None of these wastes are hazardous wastes under NYSDEC regulations (Title 6 of the New York Codes, Rules and Regulations (6NYCRR), Part 371; NYSDEC, 1992c).

An on-site electric network consisting of approximately 30 transformers and numerous capacitors is used to manage the distribution of electricity to the electric furnaces. The cooling oils in the transformers and dielectric fluids used in the capacitors contain PCBs. These fluids have been actively managed by on-site personnel. Management has included on-site transport and storage, and filtering to remove water (AS, 1982). At least five documented spill incidents involving PCB-containing transformer oils have been reported to NYSDEC since 1987 (NYSDEC, 1992d). Operations at the site have also involved the use of other hazardous substances, and the generation of hazardous wastes. In 1982, Airco Speer reported the generation of 36 gallons per year of waste solvents including acetone, benzene, dimethlyformamide, methanol, and toluene (AS, 1982).

At least three previous environmental investigations of the site have occurred. In 1983, the U.S. Geological Survey collected three subsurface soil samples from borings (Borings 1, 2,

and 4 in Figure 1.2) advanced near the perimeter of the on-site landfill (USGS, 1984). The samples were analyzed for semivolatile organic compounds (SVOCs). The sample results revealed the presence of polynuclear aromatic hydrocarbons (PAHs) and related compounds in subsurface soils on-site. The maximum total concentration of PAHs revealed by the samples was 318 milligrams per kilogram (mg/kg) reported in the sample recovered from Boring 4.

In 1985, nine near-surface soil samples were collected from the site (samples NYA2-S1 through NYA2-S9 in Figure 1.2) for the U.S. Environmental Protection Agency (USEPA), and analyzed for organic compounds and metals (NUS, 1985). Aroclor 1248 was reported in sample NYA2-S9, collected from the open area in the southwest corner of the site, with a concentration of 270 mg/kg. Several volatile organic compounds were also detected in the sample, including tetrachloroethene, trichloroethene, and trans-1,2-dichloroethene. Concentrations of these compounds did not exceed 1 mg/kg.

In 1985, NYSDEC conducted a Phase I investigation of the site (ES, 1986). The primary purpose of the investigation was to evaluate the site using the Hazard Ranking System (HRS). Only one non-zero HRS route score was obtained; the preliminary groundwater migration score, Sgw, was 8.35. The resulting preliminary site migration score, Sm, was 4.82. NYSDEC subsequently listed the site as a Class 2a site on the Registry of Inactive Hazardous Waste Disposal Sites.

#### 1.2 PRESENCE OF HAZARDOUS WASTE

Hazardous waste sites are identified and assessed by NYSDEC following regulations contained in 6NYCRR, Part 375 (NYSDEC, 1992b). Under these regulations, sites are classified based on the presence of hazardous waste, as defined by 6NYCRR, Part 371 (NYSDEC, 1992c), and the presence of a significant threat to the environment, as defined by 6NYCRR, Part 375. The presence of hazardous waste and significant threat at the Airco Speer Carbon-Graphite, Inc. Site was assessed based on the analytical results from 31 subsurface soil samples, three sump liquid samples, one surface water sample, and three sediment samples. In addition, 127 subsurface soil samples were collected and screened on-site for the presence of one or more of the following groups of analytes: PCBs, volatile organic compounds (VOCs), and inorganics to aid with selection of samples submitted for laboratory analysis. PCBs were screened using an immunoassay-based test manufactured by the Millipore Corporation. The laboratory and screening samples were collected during the weeks of September 20 and 27, 1993.

Two categories of hazardous wastes are defined by 6NYCRR, Part 371: (1) listed hazardous wastes, and (2) characteristic hazardous wastes. Listed hazardous wastes are generated by certain industrial processes, or are judged to have an acute hazard or toxicity associated with exposure to them. Listed hazardous wastes are assigned USEPA hazardous waste numbers with "F", "K", "P", "U", or "B" prefixes. Characteristic hazardous wastes are identified using analytical methods specified in 6NYCRR, Part 371, and are assigned "D" prefixes. The hazardous waste characteristics include EP toxicity, reactivity, corrosivity, and ignitability. The Extraction Procedure (EP Tox) method is used to identify hazardous wastes having the characteristic of EP Toxicity. Solid waste samples (samples with at least 0.5 percent solids) are first extracted by the EP Tox extraction procedure to generate a "leachate" that is analyzed for the EP Tox parameters of interest using specified methods. Liquid samples are directly analyzed without extraction.

#### 1.2.1 Subsurface Soil Samples

Thirty-one subsurface samples were collected from the site at depths ranging from 0 to 6 feet. Sample locations are shown in Figures 1.2 and 1.3. Eighteen samples were analyzed for PCBs, sixteen samples were analyzed for VOCs, three samples were analyzed for Target Analyte List (TAL) metals and cyanide, and one sample was analyzed for SVOCs and pesticides. The analytical results from the subsurface soil samples and background information developed during the investigation establish the presence of two hazardous wastes disposed onsite: acetone and PCBs.

Under 6NYCRR, Part 371.4(d)(6), acetone is a listed hazardous waste if discarded as a commercial chemical product. Records documenting the use of acetone at the site indicate that the compound was used in the from of a commercial chemical product (AS, 1982). Acetone was detected in 12 of the subsurface soil samples collected during the investigation. Results from five of the samples: SB-70 (collected from a depth range of 2 to 4 feet below the ground surface), SB-71(2-4), SB-74(2-4), SB-75(2-4), and SB-86(2-4), indicate that acetone was disposed on-site. Reported concentrations in these samples ranged from 0.023 mg/kg to 0.13 mg/kg. Four of the samples were collected near the hazardous materials storage building, One of the samples: SB-75(2-4), was collected near the south fence. Results from the other seven samples reported to contain acetone are questionable because acetone was also detected in an associated blank.

Under 6NYCRR, Part 371.4(e)(1), PCB-contaminated soils are hazardous wastes if concentrations of PCBs in the soil exceed 50 ppm. Aroclor 1248 was reported in sample SB-63(0-2), collected near several storage buildings, with a concentration of 59 mg/kg, indicating that the sample contained hazardous waste. As previously noted, sample NYA2-S9, collected in the same area for the USEPA in 1985, contained PCBs with a reported concentration of 270 mg/kg. These two results establish the presence of hazardous waste consisting of PCB-contaminated soil on-site for the purpose of classifying the site because, under current NYSDEC policy, a minimum of two such samples are required (NYSDEC, 1990a).

#### 1.2.2 Sump Liquid Samples

Three sump liquid samples were collected from the interior sumps located on-site as shown in Figure 1.2. The samples were analyzed for VOCs, SVOCs, pesticides, PCBs, TAL metals, and cyanide. The analytical results indicate that one of the sump samples, LS-03, was hazardous waste having the characteristic of EP Toxicity because of lead content. Sample 1.5-03 was collected from a 1.5-foot-diameter former oil treatment sump located in the basement of graphite Plant No. 1. Lead was detected in the sample with a concentration of 18,900 micrograms per liter (ug/l), exceeding the regulatory limit of 5,000 ug/l specified by 6NYCRR, Part 371.3(e). The source of the liquid in the sump was not apparent.

#### 1.3 PRESENCE OF SIGNIFICANT THREAT

Under 6NYCRR, Part 375 regulations, a "significant threat" to the environment may be established by analytical data showing that hazardous substances: (1) have been released to environmental media from on-site hazardous waste, as defined under 6NYCRR, Part 371, and (2) are present in concentrations exceeding accepted health or environmental standards or guidance values. During this investigation, surface water and sediment samples were collected from the marsh area located near the southeast corner of the site to assess the presence of a significant threat to the environment.

Releases were generally established when the concentration of an analyte detected on-site and in an environmental sample collected from the marsh area exceeded the background concentration for that analyte by greater than a factor of three, consistent with USEPA criteria used for similar investigations (USEPA, 1990). Background concentrations of organic compounds were assumed to be below the laboratory method detection limit for the surface water and sediment samples. Background concentrations for inorganic analytes were assumed to be NYSDEC Class GA groundwater standards for the surface water sample, and the maximum natural concentration in soils for the sediment samples. Releases were assessed using human health-based standards or guidance values, mainly because environmental standards have not been established by NYSDEC for settings such as the sampled marsh.

#### 1.3.1 Surface Water and Sediment Samples

One surface water sample and three sediment samples were collected from the locations shown in Figure 1.2. The samples were analyzed for VOCs, SVOCs, pesticides, PCBs, TAL metals, and cyanide. Analytical results from the surface water and sediment samples collected during the investigation did not establish the presence of a significant threat to the environment attributable to the site. In particular, results for the two hazardous wastes identified in the subsurface soil samples: acetone and PCBs, and the one hazardous waste detected in a sump liquid sample, lead, did not establish that these wastes pose a significant threat to the environment as defined by 6NYCRR, Part 375. However, the results indicate that acetone and PCBs have been released from the site.

Acetone was detected in the surface water sample and in two of the sediment samples: SD-02 and SD-03. The concentration of acetone in the surface water sample was 45 ug/l; however, the result could not be assessed to determine whether acetone poses a significant threat to the environment, as defined by 6NYCRR, Part 375, because a Class GA standard has not been established for the compound. The maximum concentration in the sediment samples was 0.1 mg/kg in sample SD-03. The result was well below the USEPA health-based guidance value of 8,000 mg/kg. The PCB Aroclor 1254 was detected in two of the sediment samples: SD-02 and SD-03. Concentrations in both samples, an estimated concentration of 0.099 mg/kg in SD-03 and an estimated concentration of 0.5 mg/kg in SD-03, did not exceed the USEPA guidance value of 1.0 mg/kg. PCBs were not detected in the surface water sample. Lead was detected in the surface water sample; however, the reported concentration did not exceed the Class GA standard. Similarly, lead was detected in each of the sediment samples at concentrations well below the maximum natural concentration.

#### 1.4 RECOMMENDED CLASSIFICATION AND ACTION

The data gathered during the PSA Task 3 investigation indicate that hazardous waste consisting of acetone and PCBs is present in soils at the Airco Speer Carbon-Graphite, Inc. Site; however, the results do not establish that the hazardous waste poses a significant threat to the environment. Consequently, ES recommends that the site be listed as a Class 3 site on the NYSDEC Registry of Inactive Hazardous Waste Disposal Sites. ES also recommends that the PSA investigation be concluded without additional work because the data gathered during the investigation are sufficient to classify the site.

# DETECTED ORGANIC COMPOUNDS (MG/KG) SUBSURFACE SOIL SAMPLES - SEPTEMBER 1993 ARCO SPEER CARBON - GRAPHITE, INC. SITE NIAGARA COUNTY, NEW YORK

TABLE 4.1

SB-21   SB-25   SB-26   SB-86 (4)   SB-28		USEPA					25	Sample (3)				
VOCCE         Curid Val (2)         CR-41         (R-4)         (R-4)         (R-2)         (R-4)	Analyte (1)	Health-Based	SB-21	SB-25	SB-26	SB-86 (4)		SB-27	58-27	SB-90 (E)	SB-30	SB-83 (6)
Working (1000)         933         NA         0.002 J         0.004 J         0.004 J         0.002 J         0.007 B         NA           Analysis of Charles (1000)         9.5000         NA         0.008 J         0.007 J         0.002 J         0.002 J         0.007 B         NA           Cabion (1000)         9.5000         NA         0.008 J         0.002 J         0.002 J         0.002 J         0.007 J         NA           Cabion (1000)         1.0000         NA         0.003 J         0.003 J         0.002 J         0.007 J         NA           1.1. = Charlosophies (1000)         1.0000         NA         0.002 J         0.002 J         0.007 J         NA           1.1. = Charlosophies (1000)         1.0000         NA         0.002 J         0.002 J         0.007 J         NA         NA           1.1. = Charlosophies (1000)         1.0000         NA         0.002 J         0.002 J         0.007 J         NA         NA           1.1. = Charlosophies (1000)         1.0000         1.0000 J         0.002 J         0.002 J         0.007 J         NA         NA           1.1. = Charlosophies (1000)         1.0000 J         1.0000 J         0.002 J         0.002 J         0.007 J         NA         NA		Guid. Val. (2)	(2-4)	(2-4)	(0-2)	(0-2)	(2-4)	(0-2)	(2-4)	(2-4)	(0-2)	(0-2)
Manual Charles (1989)   Manu	VOC.									, , , , , , , , , , , , , , , , , , ,		7- 21
Carbon Designe (1929) 8.000 NA 0011 0 002 0 005	Methylene Chloride (u080)	93	¥	0.002 J	0.004	:	0.011 J	0.002	0.002	0.017 B	42	ĄN
12-Districtoration (U20)	Acetone (u002)	8,000	¥	0.059 B	0.057 B	0.095	0.093 B	0.042 B	0.027.8	0.038 B	ΨN.	VΝ
12-Definitional   1,2,000	Carbon Disulfide (P002)	8,000	ž	1	ı	1	1	: 1	. 1	1	¥ Z	2
7	1,2 - Dichloroethene (u079)	2,000	N A	1	1	ı	ı	,	ı	,	Z Z	Z Z
	2~ Butanome (u159)	000,4	¥	0.011 J	0.013	0.050 J	0.029 J	0.000	0.007 J	ı	¥ Z	Z Z
Transcriptositives (2029) 64 NA NA NA NA NA NA NA NA NA NA NA NA NA NA	1,1,1-Trichloroethane (u226)	2,000	¥	1	l	ı	ı	1	. 1	1	<b>4</b>	ξ V
Totale Occiding (22)   14	Trichlaroethene (u228)	3	¥	ı	. 1	ł	ı	ı	ı	1	( <b>4</b>	( A
Elliphenicae (1029)   200,000   NA 0.003   - 0.005   - 0.001   -	Tetrachloroethene (u210)	4-	¥	ı	1	5	1	ı	ı	ı	ξ <b>Α</b>	2 2
Ethyberation (FGS);   B 8000	Toluene (u220)	20,000	¥	0.003	t	0.006	0.000	i	0.000	,	<b>X X</b>	2 2
Nylogo         NA         NA <th< td=""><td>Ethybenzene (F003)</td><td>8,000</td><td>ž</td><td>2,000</td><td>0.005 J</td><td></td><td>0.055.1</td><td>1</td><td>, 1</td><td>•</td><td>ζ <b>γ</b></td><td>X X</td></th<>	Ethybenzene (F003)	8,000	ž	2,000	0.005 J		0.055.1	1	, 1	•	ζ <b>γ</b>	X X
### Secreptimental Secreptiment Secreptimental Secreptimental Secreptimental Secreptimental Secreptimental Secr	Xylene (total) (u239)	200,000	¥	. 1	0.013	1	0.082	ı	1	,	ζ <b>4</b>	2 2
Care Section of the control	SVOCs						1					2
No.   No.	2-Methylnaphthalene	2	¥2	Ž	¥	¥	AN	AN	Ą	0.360.1	<b>V</b>	42
N.   N.   N.   N.   N.   N.   N.   N.	Acenaphthene	2000	×	¥ Z	Y.	Ą	Ą	Y Z	Z Z	1.021.0	<b>4 2</b>	2 2
Preparatrice  NV NA NA NA NA NA NA NA NA NA NA NA NA NA	N-Nitrosodiphenylamine	2	ž	Z	¥	Z Z	Ą	Y Z	Z Z	20110	2 2	2 2
Authoritiest	Phenanthrene	2	¥	¥	ď	¥ X	NA NA	¥	ď	0.870	VIA	C A
Processory   B   B   B   B   B   B   B   B   B	Anthracene	20,000	¥	¥	ď	¥	NA	¥	¥ Z	0.820	<b>4</b> 2	ζ <b>Δ</b>
Procession	Di-n-butyphthalate	8,000	Υ V	¥	Y V	¥ X	¥X	¥	¥.	r 060 0	Z Z	Z Z
Pyrane         2,000         NA	Fluoranthene	3,000	¥	٧	¥N	Ą	Ϋ́	¥	¥ Z	0.180 J	¥	¥
Charge   C	Pyrene	2,000	¥	¥	٧	AN	Ϋ́	Ϋ́	ΥN	0.340 J	¥	Ž
Characteristic   Char	Benzo(a)anthracene	0.220	¥.	¥	٧×	Ϋ́	Ϋ́	Y V	Ϋ́	0.190 J	×	Ž
Berzock/Housenthene         NV         NA         NA <td></td> <td>2</td> <td>Ϋ́</td> <td>Ϋ́</td> <td>Ϋ́</td> <td>Ą</td> <td>VV</td> <td>Ą</td> <td>AN</td> <td>0.260 J</td> <td>¥</td> <td>¥.</td>		2	Ϋ́	Ϋ́	Ϋ́	Ą	VV	Ą	AN	0.260 J	¥	¥.
Percofe)		≥	¥	۷	Ϋ́	A A	ΑN	Ϋ́	AN	0.280 J	¥	X
Benzo (gly)rione (u022)         0.061         NA         NA <th< td=""><td></td><td>≩</td><td>¥</td><td>¥ X</td><td>Ϋ́</td><td>ΥN</td><td>ΑN</td><td>AN</td><td>٧×</td><td>0.160 J</td><td>AN</td><td>N A</td></th<>		≩	¥	¥ X	Ϋ́	ΥN	ΑN	AN	٧×	0.160 J	AN	N A
NA		0.061	¥	¥ X	¥	Y Z	Ϋ́	¥	٩N	0.190 J	¥	Ä
NA	Indeno(1,23-cd)Pyrene (u137)	≩	¥ V	٧	Ϋ́	Ϋ́	ΑN	¥ X	Ϋ́	0.060 J	¥	¥
10	Benzo(g,h,l)Perylene	≥	¥	٧	٧	Y Y	¥ V	Y Y	¥	0.049 J	Ϋ́	Y Y
0.110	Pesticides and PCBs											
3.9         NA         NA         NA         NA         NA         NA           2.9         NA         NA         NA         NA         NA         NA         NA           2.9         NA         NA         NA         NA         NA         NA         NA           2.0         NA         NA         NA         NA         NA         NA         NA           2.1         NA         NA         NA         NA         NA         NA         NA           2.1         NA         NA         NA         NA         NA         NA         NA           NV         NA         NA         NA         NA         NA         NA         NA           NA         NA         NA         NA         NA         NA         NA         NA           NA         NA         NA         NA	Apha - BHC	0.110	¥	∀ Z	٧	<b>∀</b> Z	Ϋ́	Y V	¥	0.0012 J	¥ Z	Y V
2.9 NA NA NA NA NA NA NA NA NA NA NA NA NA	Beta - BHC	3.9	<b>∀</b> Z	¥ X	Ϋ́	ΥN	ΥN	Ϋ́	¥ Z	0.0018 JP	Ą	¥
20 NA NA NA NA NA NA NA NA NA NA NA NA NA	4,4'-DDE	2.9	Ϋ́	٧	Ϋ́	Υ	Ϋ́	¥	Ϋ́	0.0022 JP	ď	Ž
2.1 NA NA NA NA NA NA NA NA NA NA NA NA NA	Endrin (P051)	8	Y Y	٧	AN	Ϋ́	NA	٧×	AN	0.0068	Y.	×
2.1 NA NA NA NA NA NA NA NA NA NA NA NA NA	4,4'~ DDD (u060)	2.1	∀ <b>Z</b>	٧	AN A	ΥN	NA	ΑN	AN	0.0041 P	×	×
NV	4,4'-DDT (u061)	2.1	NA	٧	٧	٧×	۷×	ΝΑ	∀N	0.011 P	Y X	¥ Z
NA   NA   NA   NA   NA   NA   NA   NA	Endrin Ketone	2	٧×	¥ <sub>N</sub>	ΥN	٧	NA	۷×	٧X		Y.	×
1   1   2   NYSDEC TAGM HWR-92-4046.   NA NA NA NA NA NA NA NA NA NA NA NA NA	Endrin Aldehyde	?	N A	٧	Ν	٧	<b>V</b> ∀	ν Ν	٧N		ž	¥ Z
(u036) 0.54 NA NA NA NA NA NA NA NA NA NA NA NA O.0018 J NA 0.210	Apha-Chlordane (u036)	0.5	ΑN	Ϋ́	NA	Y Y	ΑN	ΥN	AN	0.0004 JP	¥	Ą
1 (a) 0.096 - NA NA NA - 0.036 J 0.210 P 0.210 NA NA NA - 0.036 J 0.210 P 0.210 NA NA NA NA NA NA NA NA NA NA NA NA NA	Gamma-Chlordane (u036)	0.54	Υ V	¥	N A	Y V	V V	Ϋ́	Ϋ́	0.0018 J	¥	Z
1 (a) 0.096 - NA NA NA - 0.036 J - NA 1 (a)	Aroclor- 1248 (B007)	1 (a)	ı	ŧ	Ϋ́	٧ ٧	Ϋ́	ν Σ	1	ı	0.620 P	0.210 P
1 (a) - NA NA NA NA - Compound not detected. 2. NYSDEC TAGM HWR-92-4046.	Aroclor- 1254 (B007)	1 (a)	960.0	1	Ϋ́	∀ Z	Ϋ́	ΥZ	1	0.036 J	ī	0.210
nental Engineering, Inc., Somerville, Massachusetts.  -: Compound not detected.  NA: Not analyzed.	Aroclor-1260 (B007)		1	1	ΑΝ	٧	ΑΝ	AN	1	1	1	0.045
		- (	Analysis by En	ergy and Environ	mental Engineering	, Inc., Somerville,	Massachusetts.		-: Compound n	not detected.		
		7	NYSUEC ING	M HWH-92-404	ro.				NA: Not analyze	Ď		

Stimated value.
 Analyte also detected in associated blank.
 P: Concentrations detected by the two GC columns differed by greater.

E: Analyte concentration exceeded instrument calibration range. D: Analyte identified at secondary dilution factor. than 25 percent. The lower of the two values is reported.

NYSDEC TAGM HWR-92-4046.
 Sample depth in feet below ground surface.
 Duplicate of sample SB-26 (0-2).
 Duplicate of Sample SB-27 (2-4).
 Duplicate of sample SB-30 (0-2).
 Duplicate of sample SB-30 (0-2).
 DL = Sample reanalyzed with secondary dilution factor.
 RE = Sample reanalyzed.

9. Field blank, Concentrations in ug/l.

NV: No value in cited reference.

a. Regulatory limit for hazardous waste is 50 লক্ষণ্ড (চামত RR Part 371.4(e)).

Ендименінд Всюпсе, Іпс.

# TABLE 4.1 (CONTINUED) DETECTED ORGANIC COMPOUNDS (MG/KG) SUBSURFACE SOIL SAMPLES - SEPTEMBER 1993 ARCO SPEER CARBON - GRAPHITE, INC. SITE NIAGARA COUNTY, NEW YORK

127   28-30   28-40   28-40   28-40   28-40   28-40   28-50		USEPA					CBN	Sample (3)				
0.001   0.002   0.003   0.00	Analyte (1)	Health-Based	SB-30	SB-33	SB-44	SB-45		SB49	SB-50	SB~51	SB-52	SB-62
10   10   10   10   10   10   10   10		Guid Val. (2)	(2-4)	(2-4)	(2-4)	(2-4)	(0-2)	( <del>0</del> - <del>0</del>	(4-0)	(0-2)	(0-2)	(0-2)
99) 8.90	NOC*											
9, 8,000	sthylene Chloride (u080)	8	1	1	¥	<b>∀</b> Z	¥	¥	¥	¥	¥	
979) 2,000	setone (u002)	8,000	1	0.036 B	¥	¥ Z	¥	¥	¥	¥	¥	1
1,000	arbon Disulfide (P002)	8,000	ı	ı	¥	¥ Z	¥	¥	¥	¥	<b>∀</b> Z	1
(10) 1, 140.00 0.009 J NA NA NA NA NA NA NA NA NA NA NA NA NA	2-Dichloroethene (u079)	2,000	ı	ı	¥	¥ Z	Y V	Ϋ́	V V	¥	¥	0.015 J
10   14	-Butanone (u159)	4,000	ı	0.009 0	¥	<b>∀</b> Z	¥	¥	¥	ď	×	;
10) 164 NA NA NA NA NA NA NA NA NA NA NA NA NA	1,1-Trichloroethane (u226)	2.000	ı	ı	¥	¥	¥ X	¥	Y V	¥ Z	Z	١
10) 17.00 200000	ichloroethene (u228)	25	ı	ı	¥	¥	¥	¥	Z	ž	¥	0.088
\$0000	strachloroethene (u210)	14	,	1	¥	¥	¥Z	¥	¥	ď	¥ Z	0.520
200000 NA NA NA NA NA NA NA NA NA NA NA NA NA	luene (u220)	20,000	1	ı	¥	ž	ž	Ž	Ž	Ž	₹ Z	2
200,000 NA NA NA NA NA NA NA NA NA NA NA NA NA	hybenzene (F003)	8,000	1	t	¥	ž	¥	Ž	Z	ď	¥ Z	1
NV	lene (total) (u239)	200,000	1	ı	¥	¥	A A	¥	Y Y	¥ Z	Ž	1
1,000	SYOCe											
1,000   NA NA NA NA NA NA NA NA NA NA NA NA NA	-Methylnaphthalene	2	¥	Ϋ́	¥	ď	Ϋ́	¥	¥ Z	AN A	ď	ď
NV	enaphthene	2,000	¥	Ϋ́	¥	Ϋ́	ď	Y.	A Z	ď	Ą	Ž
No	- Nitrosodipheny tamine	ž	¥	¥	¥	ď	ď	¥	Z	Z Z	¥ Z	Z Z
20,000	enanthrene	ž	Ą	Ϋ́	Ϋ́	ď	¥	¥	Z	ž	¥ X	Ž
### 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	thracene	20,000	Ϋ́	¥	¥	¥	Y Y	¥	¥ Z	₹ Z	¥ Z	Ž
3000 NA NA NA NA NA NA NA NA NA NA NA NA NA	-n-butyphthalate	8,000	Ϋ́	¥	¥	¥	¥	¥	¥ Z	¥ Z	¥ X	Ž
2000 NA NA NA NA NA NA NA NA NA NA NA NA NA	Joranthene	3,000	Ą V	¥	Ϋ́	¥ Z	Ϋ́	¥	¥ Z	ď	Y.	Ż
O220         NA         N	rene	2.000	¥ Z	¥	Ϋ́	∢ Z	¥ Z	Ϋ́	٧	ď	¥ Z	Ž
NV NA NA NA NA NA NA NA NA NA NA NA NA NA	nzo(a)anthracene	0.220	Ϋ́	¥	Ϋ́	¥ Z	Υ V	Ϋ́	Υ V	¥ Z	¥	Ż
NV NA NA NA NA NA NA NA NA NA NA NA NA NA	nysene (u050)	≩	¥	¥	¥	¥ Z	¥ Z	Ϋ́	∢ Z	¥	Ϋ́	ż
NV NA NA NA NA NA NA NA NA NA NA NA NA NA	nzo(b)fluoranthene	ž	¥	¥	Ϋ́	¥ Z	¥	Ϋ́	¥ Z	ď	Ϋ́	ż
Pyrene (u137)   NV	nzo(k)fluoranthene	ž	¥	¥	Ϋ́	¥ Z	¥	Ϋ́	Ϋ́	¥	×	ż
Pyrene (u137)   NV	nzo(a)pyrene (u022)	0.061	Ϋ́	¥	Ϋ́	¥ Z	Y V	¥	Y Z	Y Y	¥ Z	Ž
### PCB# NV NA NA NA NA NA NA NA NA NA NA NA NA NA	Jeno(1,23-cd)Pyrene (u137)	ž	¥	¥ Z	Y Y	۷ ۷	¥	Ϋ́	¥ Z	¥ Z	Ϋ́	ż
2.9 NA NA NA NA NA NA NA NA NA NA NA NA NA	nzo(g.h.)Perylene	Ž	¥ Z	¥ Z	Ϋ́	∢ Z	¥ ¥	Ϋ́	ď Z	<b>∀</b> Z	٧	ż
2.9 NA NA NA NA NA NA NA NA NA NA NA NA NA	Pesticides and Pubs		:	:	;							
2.9 NA NA NA NA NA NA NA NA NA NA NA NA NA	sha - BHC	0.110	¥ Z	¥ :	Y Z	¥ Z	¥ Z	Ϋ́	¥ Z	¥ V	Y Z	ż
2.9 NA NA NA NA NA NA NA NA NA NA NA NA NA	ita ~ 8HC	3.9	<b>∀</b> Z	<b>∀</b>	Υ V	۷ ۷	¥ Z	Υ	۷ ۷	¥ Z	Y Z	ž
2.1 NA NA NA NA NA NA NA NA NA NA NA NA NA	t' - DDF	2.9	٧	¥ Z	Ϋ́	ď Z	Y Y	Υ Z	¥ Z	A'N	¥	ż
2.1 NA NA NA NA NA NA NA NA NA NA NA NA NA	ndrin (P051)	ଝ	¥ Z	¥	Ϋ́	¥	Y Z	¥ X	¥ Z	Ϋ́	¥	ž
11) 2.1 NA NA NA NA NA NA NA NA NA NA NA NA NA	1 DDD (u060)	2.1	¥ V	¥	¥	¥ Z	¥	Ϋ́	٧	ď	Υ Ζ	Ž
Ie         NV         NA         NA<	4' – DDT (u061)	2.1	¥ V	¥	Υ	¥ Z	¥	Ϋ́	¥ Z	¥	Y Z	ž
0.54 NA NA NA NA NA NA NA NA NA NA NA NA NA	drin Ketone	2	¥ Z	¥	¥ Y	¥ Z	¥	¥	¥	¥	¥	ž
0.54 NA NA NA NA NA NA NA NA NA NA NA NA NA	idrin Aldehyde	ž	Ϋ́	¥	¥	¥ Z	Y Y	¥	Υ V	₹ Y	¥	Z
0.54 NA NA NA NA NA NA NA NA NA NA NA NA NA	oha-Chlordane (u036)	0.54	¥	¥	Ϋ́	¥ Z	¥	Ϋ́	¥	ď	¥	ž
1(a) NA NA 0.320 - 0.150 0.014 J 0.048 0.070 0.013 (a) NA NA 0.320 - 0.150 0.014 J 0.048 0.070 0.013	amma-Chlordane (u036)	0.54	<b>∀</b> Z	Ϋ́	Ϋ́	¥ Z	¥	Ϋ́	¥	¥	¥	Ž
1 (a) NA NA 0.320 - 0.150 0.014 J 0.048 0.070 0.013 (a) NA NA	oclor- 1248 (B007)	1 (a)	Ϋ́	ď	ı	1	ı	,	1	ı	ı	Ž
1(a) NA NA .	octor-1254 (B007)	1 (a)	¥	ď	0.320	1	0.150	0.014 J	0.048	0.070	0.013 J	Ž
	oclor- 1260 (B007)	1 (a)	٧	Ą	1	1	ı	1	ı	ı		2

NA: Not analyzed.

NYSDEC TAGM HWR-92-4046.

Sample depth in feet below ground surface. Duplicate of sample SB-26 (0-2).

P. Concentrations detected by the two GC columns differed by greater

J. Estimated value. B: Analyte also detected in associated blank.

E: Analyte concentration exceeded instrument calibration range. D: Analyte identified at secondary dilution factor. than 25 percent. The lower of the two values is reported.

Duplicate of SB-27 (2-4). Duplicate of sample SB-30 (0-2)

DL = Sample reanalyzed with secondary dilution factor

RE = Sample reanalyzed.

Field blank, Concentrations in ug/l. NV: No value in cited reference.

Regulatory limit for hazardous waste is 50 mg/kg (GNYCRR Part 371.4(e)).

friction of the body

4-13

a. Regulatory limit for hazardous waste is 50 mg Fig (CATC PR Part 371.4(e))

TABLE 4.1 (CONTINUED)

DETECTED ORGANIC COMPOUNDS (MG/KG)
SUBSURFACE SOIL SAMPLES - SEPTEMBER 1993
ARCO SPEER CARBON - GRAPHITE, INC. SITE
NIAGARA COUNTY, NEW YORK

Analyte (1)  Voca												
1014 VAI   27   28-62   38-630   70-27   4-69   6-49   6	11) 00/4004	USEPA					1	mple (3)				
99 6000	(I) eldina	Guld. Val. (2)	SB-62 (2-4)	SB-63	SB-63DL (7)	SB-67 (4-6)	SB-70	SB-70	SB-71	SB-71 RE (8)	SB-72 (0-2)	SB72
99 5000	, VOC*		, <u>,</u>	75 21	75.20	5	75 21	1 3	7	75 37	77 01	15 31
8 0000	Methylene Chloride (u080)	93		¥	¥	¥	¥	. 1	. 1	0.011 BJ	¥	,
2000	Acetone (u002)	8,000	1	¥	¥ Z	Y.	Y.	960.0	0.130	0.090 B	¥	0.024
1,000	Carbon Disulfide (P002)	8,000	•	NA	¥.	¥	¥	1	1	1 1	¥	1
1,000	1.2 - Dichloroethene (u079)	2,000	ı	¥	Ϋ́	¥X	Ϋ́	1	1	ı	¥	ı
1,000	2 - Butanone (u159)	000'+	ı	¥	¥ Z	V V	A A	0.020	0.022	0.012 J	<b>∀</b> Z	0.004 J
14   0.002	1,1,1-Trichloroethane (u228)	2,000	•	¥	Ϋ́	¥	AN	ı	ı	1	¥	
140   10022   NA NA NA NA NA NA NA NA NA NA NA NA NA	Trichlaroethene (u228)	2	0.002 J	¥	¥ Z	Ϋ́	Ϋ́	1	ı	1	¥	1
200,000 NA NA NA NA NA NA NA NA NA NA NA NA NA	Tetrachloroethene (u210)	4	0.022	¥X	ΥN	Ν	AN	0.004 J	0.001	1	¥	,
No	Toluene (u220)	20,000	1	A N	¥	¥	¥	1	ı	1	ž	0.003
200,000 - NA NA NA NA NA NA NA NA NA NA NA NA NA	Ethybenzene (F003)	8,000	,	A N	V.	X	X		ı	1	Y.	1
NA	(ylene (total) (u239)	200,000	ı	Ϋ́	AN	Y Y	ΥN	ı	1	ı	¥	ı
NV	SVOCe											
5,000	2 - Methylmaphthalene	2	Ϋ́	A'N	AN	٧	ΥN	٧×	ž	ΑN	N A	Ą
NV	cenaphthene	2,000	¥	A N	¥	٧	Ϋ́	¥ Z	A N	¥	¥ Z	ΥN
NA	<ul> <li>Vitrosodiphenylamine</li> </ul>	2	¥	ΥN	Y.	¥X	NA	Ϋ́	Y Y	ΥN	Y Y	¥
20,000	Phenanthrene	2	Z	¥Z	¥	¥	¥	¥	¥ Z	¥	¥	ž
8000	Anthracene	20,000	¥	¥2	AN	¥	Ϋ́	Ą	٧	N N	Y V	Ϋ́
3,000	X − n − b uty b h thala te	9,000	¥	Y V	¥	¥	Ϋ́	¥	A N	Ϋ́	Y.	Υ <sub>X</sub>
2000  NA NA NA NA NA NA NA NA NA NA NA NA NA N	luoranthene	3,000	×	V.	¥	¥Z	Y Y	¥	X	ΥN	ž	¥
0.220	Pyrene	2,000	X	ΥN	Y.	¥.	¥	¥	¥.	×	×	AN
NV	enzo(a)anthracene	0.220	×	¥	¥	X	ž	¥	Y.	¥	¥	¥ Z
NY	chrysene (u050)	2	Ϋ́	AN A	AN.	AN	Ϋ́	٧×	Y.	V.	AN	N A
(u137) NV NA NA NA NA NA NA NA NA NA NA NA NA NA	enzo@)fluoranthene	≥	¥	Ϋ́	Ϋ́	Ϋ́	¥ Z	¥ Z	¥ X	Ϋ́	¥	¥
NY	enzo(k)fluoranthene	2	Ϋ́	ΥN	ΑN	ΑN	Ϋ́	Y Y	Ϋ́	Υ	¥	AN
198	enzo(a)pyrene (u022)	0.061	¥ Z	Y V	Ϋ́N	Ϋ́	∢ Z	¥	Y X	¥ Z	¥	Ϋ́
NV	deno(1,2,3-cd)Pyrene (u137)	ž	Ϋ́	ΥN	ΑN	Ϋ́	¥	¥ Z	Ϋ́	Y V	Ϋ́	Ϋ́
2.9 NA NA NA NA NA NA NA NA NA NA NA NA NA	enzo(g,t,i)Perylene	ž	۷	Ϋ́	Ϋ́	ΥN	Y V	Y V	¥ Z	ΑΝ	₹ Z	Ϋ́
10	Pesticides and PCBs											
2.9 NA NA NA NA NA NA NA NA NA NA NA NA NA	John - BHC	0.110	Ϋ́	∢ Z	٧	Ϋ́	¥ Z	Ϋ́	٧	Y V	AN	ΑN
2.9 NA NA NA NA NA NA NA NA NA NA NA NA NA	eta – tiric	3.9	٧	¥ Z	Y Y	Y V	¥ Z	Y Y	Y Y	٧ ٧	Ϋ́	ΥN
2.1 NA NA NA NA NA NA NA NA NA NA NA NA NA	4 - DUE	5.9	Υ V	¥	Ϋ́	Ϋ́	Ϋ́	AN	Y Y	Ϋ́	Ϋ́	¥₹
2.1 NA NA NA NA NA NA NA NA NA NA NA NA NA	12 DOD (1983)	ଛ	¥	¥ Z	A V	Ϋ́	<b>∀</b> Z	<b>∀</b> Z	Y Y	۷ ۷	Ϋ́	Ϋ́
NA	4 - DDD (u000)	2.1	Ϋ́	¥ Z	Ϋ́	Ϋ́	AA	Ϋ́	Y Y	¥ N	V V	Ϋ́
NV	4 - DOI (uco1)	2.1	Ϋ́	∢ Z	¥ Z	¥ Z	¥ Z	Y Y	¥ Z	¥ Z	Ϋ́	٧
NA	rigin Ketone	2	¥ V	Ϋ́	Ϋ́	Ϋ́	¥ X	Ϋ́	Y Y	Ϋ́	Y V	AN
1	richin Adenyae	2	¥	¥	¥	¥	¥ Z	¥	¥	¥ Z	¥ Z	Ϋ́
(u036) 0.54 NA NA NA NA NA NA NA NA NA NA NA NA NA	pna-Chlordane (u036)	0.54	Ϋ́	٧	Ϋ́	Ϋ́	Y V	AN	Y Y	Y N	A N	Ϋ́
1 (a) NA 59.000 E 59.000 DP - 0.070 NA 1 (a) NA - 0.069 0.070 NA 1 (b) NA - 0.069 0.070 NA 1 (a) NA - 0.069 0.074 P NA 1 (a) NA NAINSE by Energy and Environmental Engineeting, Inc., Somerville, Massachusetts. NA 2. NYSDEC TAGM HWR-92-4046.  3. Sample depth in feet below ground surface. 3. Sample depth in feet below ground surface. 4. Duplicate of sample SB-26 (0-2). 5. Duplicate of sample SB-26 (0-2). 7. DL = Sample reanalyzed with secondary dilution factor. 8. RE = Sample reanalyzed. 9. Field blank concentrations in ug/l. NY Novalue in cited reference.	amma-Chlordane (u036)	0.54	¥	Ϋ́	Υ V	A N	¥	Ϋ́	Ϋ́	¥	ΑN	ΑΝ
1 (a) NA — 0.069 0.070 NA 1 (a) NA — 0.069 0.070 NA 1 (a) NA — 0.074 P NA 1 (b) NA — 0.074 P NA 2 NYSDEC TAGM HWR-92-4046. 3 Sample depth in feet below ground surface. 4 Duplicate of sample SB-26 (0-2). 5 Duplicate of sample SB-30 (0-2). 7 DL = Sample reanalyzed with secondary dilution factor. 8 RE = Sample reanalyzed. 9 Field blank Concentrations in ug/l. NV Novalue in cited reference.	roclor - 1248 (B007)	1 (8)	Ϋ́	59.000 E		ı	1	Ϋ́	Ϋ́	Ϋ́	0.180 JP	Ϋ́
1 (a)  1. Analysis by Energy and Erwironmental Engineering, Inc., Somerville, Massachusetts 2. NYSDEC TAGM HWR-92-4046. 3. Sample depth in leabelow ground surface. 4. Duplicate of sample SB-26 (0-2). 5. Duplicate of SB-27 (2-4). 6. Duplicate of sample SB-30 (0-2). 7. DL = Sample reanalyzed with secondary dilution factor. 8. RE = Sample reanalyzed with secondary dilution factor. 9. Field blank. Concentrations in ug/l. NV. Novalue in cited reference.	roclor- 1254 (B007)	1 (a)	¥	•	,	690'0	0.070	AN	Ϋ́	۷×	1	ΑN
onmertal Engineering, Inc., Somerville, Massachusetts.  NA round surface.  J. 2-2).  1-2).  Secondary dilution factor.  D: D: D: D: D: D: D: D: D: D: D: D: D:	roctor 1260 (B007)	- (a)	Υ V	ı	1	ι	0.074 P	Ϋ́	¥Z	٧	0.750 P	Ϋ́
046.  1. count surface.  3. 2.  3. 2.  4. 5.  6. 5.  7. 2.  1. secondary dilution factor.  1. ug/l.			<ol> <li>Analysis by En</li> </ol>	ergy and Enviro	กmental Engineering	, Inc., Somerville	s, Massachusetts		-: Compound	detected		
D-2). B: D-2). I secondary dilution factor. D: Ug/l.				M HWR-92-40	46.				NA: Not analyz	ed.		
5-2). 0-2). 1 secondary dilution factor. D: 1 ug/l.		,	o. Sample deptin	In reet below gr	oung surrace.				J. Estimated va	liue.		
n-2). I secondary dilution factor.  E: nug/l.		7 4	4. Duplicate of Se	Imple 5B-25 (U	-2).				B. Analyte also	detected in associa	ted blank.	State of the second
s econdary dilution factor. I ug/l.		, •	o. Duplicate of so	D-2/ (2-4). Smale CB 30 /0	10				then 25 neg	ons detected by the	a hard out condition	unieled by greate
ugh.			7 DI = Semole	regulatived with	escondary dilution fo	oto			F. Analyta con	centration exceeded	instrument calibo	ation cando
ug/l.			B. BF = Semple	rearralyzed with	SOCOTIONS VIII IN				D: Analyte ider	odinianon excesses offind at secondary o	distribution factor	ation tange.
No. No value in other defenses in age.		. 0	Field blank C	pocentrations in	Poin				C. Mary to Mo	The second of the second		
		, _	NV: No value in c	ited reference								

# TABLE 4.1 (CONTINUED) DETECTED ORGANIC COMPOUNDS (MG/KG) SUBSURFACE SOIL SAMPLES - SEPTEMBER 1993 ARCO SPEER CARBON-GRAPHITE, INC. SITE NIAGARA COUNTY, NEW YORK

	USEPA				Sample (3)				
Analyte (1)	Health - Based	-88	SB-73	SB-73 RE (8)	SB-75	SB-75 RE (8)	SB-78	FB-01 (9)	
	GUIO VAII (2)	(5-4)	(5-4)	(5-4)	(2-4)	(24)	(0-2)		
soo <sub>A</sub>									
Methylene Chloride (u080)	66	0.010 BJ	•	0.011 BJ	i	0.014 B	¥	0.006 BJ	
Acetone (u002)	8,000	1	ı	0.010 BJ	0.023	0.017 B	Ϋ́	1	
Carbon Disulfide (P002)	8,000	,	ı	1	0.007 J	0.003	ΑN	1	
1,2 - Dichloroethene (u079)	2,000	'	ı	1	1	1	Ž	ı	
2-Butanone (u159)	000	1	ı	,	1	1	Ϋ́	1	
1,1,1-Trichloroethane (u226)	2,000	1	ı	1	1	0.001	AN	,	
Trichloroethene (u228)	64	1	0.003	0.002	ŀ	1	X	'	
Tetrachloroethene (u210)	4	1	ı	1	t	1	Y Z	ı	
Toluene (u220)	20.000	'	0.001	,	0 00 T	F 2000	Y N	1	
Ethybarzana (F003)				,		1000	<b>X X</b>		
Video (1900)	200			ı		•	£ :	'	
Aylerie (total) (uzos)	300,000		ı	ı	0.0	ı	ď.	ı	
3000	-	-	:	1	:		;	:	
2-Methylmphthalene	2	Y Y	ď.	Y.	Y Y	Y Y	AN A	Y Y	
Acenaphthene	2,000	Y V	Ϋ́	¥	¥	NA	Ϋ́	Y Y	
N Nitrosodiphenylamine	≥	¥	Ϋ́	AA	۷ ۷	۷ ۷	٧×	¥ X	
Phenanthrene	ž	¥ Z	٧	Ϋ́	¥ Z	N N	۷×	¥	
Anthracene	20,000	Ą	NA	ΑN	٧	NA	Ϋ́	¥	
Di-n-butyphthalate	8,000	AN	Ϋ́	AN	Ϋ́	NA	Ϋ́	¥.	
Fluoranthene	3,000	¥	¥	Y X	¥	NA	AN AN	Ą	
Pyrene	2 000	¥.	¥	¥	¥	AN	AA	Y Z	
Renzo(e)enthracene	0220	4	Ψ.V	Y N	۷	V N	· ·	. ·	
_	0.550	2 2	2 2	2 2		<u> </u>	2 2	¥ :	
_	2 2	¥ :	¥ :	Y :	¥ :	Y :	Y :	¥ :	
Denzop) noranthene	2	ď.	ď :	¥:	¥	Y.	¥N.	Y Y	
	2	¥ Z	YN.	Y.	Ϋ́	Ϋ́Α	¥	Y X	
Benzo(a)pyrene (u022)	0.061	¥.	Ϋ́	Y Y	Ϋ́	NA	Ν	Y Y	
Indeno(1,2,3-cd)Pyrene (u137)	2	Y N	Ϋ́	Ϋ́	Ϋ́	ΑN	¥	¥.	
Benzo(g,h,i)Perylene	Ž	¥X	Ϋ́	Y V	٧	Ϋ́	¥	ž	
Pesticides and PCBs									
Alpha-BHC	0.110	Y.	ď	۷×	٧	NA	N N	V.	
Bota - BHC	39	Ϋ́	۷ ۲	×	¥	NA	¥	Y X	
4.4'-DDE	5.9	×	ž	Ϋ́	¥	ΥN	Ϋ́	¥2	
Endrin (P051)	50	×	¥	V Z	×	ν V	ž	Ϋ́ X	
4,4'-DDD (u060)	2.1	YN Y	٧	Ν	×	A N	Y.	×	
4,4'-DDT (u061)	2.1	Ϋ́	¥	Υ	¥	Y.	ž	×	
Endrin Ketone	ž	Ϋ́	Ϋ́	ΥN	¥	ΑN	¥	Y Y	
Endrin Aldehyde	2	Ą	٧V	AN	AN	NA	¥	¥	
Alpha-Chlordane (u036)	0.54	Ą	ΑN	AN	Ϋ́	AN	Ϋ́	¥ X	
Gamma-Chlordane (u036)	0.54	¥ Z	¥	Ϋ́	¥	¥	Ž	Ą	
Aroclor-1248 (B007)	1 (8)	Ϋ́	AN	٧	Ϋ́	A N	1	1	
Aroclor- 1254 (B007)	1 (a)	AN	٧A	AN	¥	NA NA	0.037	ı	
Aroclor - 1260 (B007)	1 (a)	AN	Y Y	Ą	A	AN	0.046	,	
	7.	1 Analysis by Fn	arov and Fraviro	Analysis by Energy and Environmental Engineering To Somenalle Massachusetts	Inc. Someral	Massachusatte		Company of polyophy	Potoctor
		2 NVSDEC TAGE	NYSDEC TAGM HWB-02-4046	III I I I I I I I I I I I I I I I I I	, IIIC., SOINERVIII	e, massacriusetts.		MA: Not applicable	Jetected.
			of and bolow or	to.				INA. NOI BIRBIYZEG.	
			Safetyle deptil in recupelow ground surrace.	ourid surrace.				J. Estimated value	
		4. Duplicate or ser	Duplicate of sample SB-26 (0-2)	2).				B: Analyte also detected in as	eted in a
		n D. at Lines to a C. I.	( C) CC CC CC						

B: Analyte also detected in associated blank.

P. Concentrations detected by the two GC columns differed by greater than 25 percent. The lower of the two values is reported.

E: Analyte concentration exceeded instrument calibration range. D: Analyte identified at secondary dilution factor.

Field blank: Concentrations in ug/l.
 NV: No value in cited reference.
 a. Regulatory limit for hazardous waste is 50 mg/kg (6NYCRR, Part 371.4(a)).

Duplicate of SB-27 (2-4).
 Duplicate of sample SB-30 (0-2).
 DL = Sample reanalyzed with secondary dilution factor.
 RE = Sample reanalyzed.

Engine any Solance, Inc.

#### TABLE 4.2 INORGANICS ANALYSIS (MG/KG) SUBSURFACE SOIL SAMPLES - SEPTEMBER 1993 AIRCO SPEER CARBON - GRAPHITE, INC. SITE NIAGARA COUNTY, NEW YORK

	Natural Range in		San	nple (3)	
Analyte (1)	Soils (2)	SB-43 (0-4)	SB-74 (0-2)	SB-89 (0-2) (4)	SB-90 (2-4)
Aluminum	700-100,000	6,610.00	2,470.00	2,550.00	14,500.00
Antimony	<1-10	_	_	_	_
Arsenic (D004)	0.1-100	13.80 N	9.60 N	9.90 N	5.40 N
Barium (D005)	10-500	41.80	34.80 B	25.30 B	84.80
Beryllium	<1-15	0.26 B	0.20 B	0.18 B	1.10
Cadmium (D006)	0.01 - 7 (a)	1.50 N*	1.50 N*	9.90 N*	1.20 N*
Calcium	130-330,000	88,300.00 *	50,300.00 *	75,900.00 *	78,300.00 *
Chromium (D007)	1-2,000	35.50	20.80	20.00	42.40
Cobalt	<3-70	6.70 B	6.70 B	6.90 B	7.30 B
Copper	1-700	60.10 N*	101.00 N*	195.00 N*	28.10 N*
Cyanide (P030)	NV	_	_	-	_
Iron	100-100,000	19,200.00	10,200.00	11,000.00	19,200.00
Lead (D008)	<10-700	80.60 *	72.40 *	61.10 *	25.90 *
Magnesium	50-50,000	24,300.00 *	15,700.00 *	28,800.00 *	32,200.00 *
Manganese	<2-7,000	431.00 *	222.00 *	442.00 *	767.00 *
Mercury (D009)	0.02-0.5	1.10 N*	0.12 N*	-	1.80 N*
Nickel	<5-7,000	169.00	45.30	45.20	14.80
Potassium	2,200-65,000	600.00 B	231.00 B	420 00 B	1,520.00
Selenium (D010)	< 0.1 - 5	0.48 BNW	0.65 BNW	0.51 BNW	_
Silver (D011)	0.01-5 (b)	_		_	
Sodium	< <b>500</b> -100,000	207.00 B	134.00 B	145.00 B	192.00 B
Th <b>al</b> lium	NV	_			
Vanadium	20-500	34.50	44.10	45.30	25.30
Zinc	<5-3,500	120.00 *	111.00 *	4,730.00 *	156.00 *

- 1. Analysis by Energy and Environmental Engineering, Inc., Somerville, Massachusetts.
- 2. Schacklette and Boerngen, 1984.
- 3. Sample depth in feet below ground surface in parentheses.
- 4. Duplicate of sample SB-74 (0-2).
- (a) Booz, Allen and Hamilton, 1983.
- (b) USEPA, 1983.
- NV: No value in cited references.
- B: Value greater than instrument detection limit but less than contract required detection limit.
- -: Analyte not detected.
- N: Spike sample recovery not within control limits.
- W: Post digestion spike for Furnace AA analysis out of control limits, while sample absorbance is less than 50% of spike absorbance.
- \*: Duplicate analysis not within control limits.

DETECTED ORGANIC COMPOUNDS (UG/L) SUMP LIQUID SAMPLES - SEPTEMBER 1993 AIRCO SPEER CARBON-GRAPHITE, INC. SITE NIAGARA COUNTY, NEW YORK

	40 3330							
Analyte (1)	Groundwater				Sample (3)			
	Standards (2)	LS-01	LS-02	LS-04 (3)	LS-04RE (4)	LS-03	FB-02 (5)	TB-02 (6)
VOCS								
Methylene Chloride (u080)	2	•	1	1	1	1	603	6.0.1
Chloroform (u044)	7	1	4.0 J	4.0 J	4.0 J	t	, (	. !
Toluene (u220)	2	4.0 J	,	1		ı	ı	1
Xylene (total) (u239)	SN	3.0 J	ı	1	•	ı	ı	ı
800C#								
Naphthalene (u165)	10 G	7.0 J	,	Ϋ́	Ą	1	ΥN	ž
2 - Methylna phthalene	SX	2.0 J	1	¥ Z	Ϋ́	\$	ΑN	¥
Acenaphthene	2002	1	1	Ϋ́	Ϋ́	6.0 J	NA	¥
Dibenzofuan	SN	7.0 J	ı	¥	AN	2.0 J	ΑN	¥
Fluorene	S 0	,	ı	¥	ΑN	3.0 J	AN	X
Hexachlorobenzene (u127)	0.35	1	21.0	٧	W	1	¥	Y.
Phenanthrene	SO GO	26.0	,	Ϋ́	AN	3.0 J	¥	X X
Anthracene	2003	1.0 J	ı	ΑN	AN	3.0 J	¥	Y.
Carbazole	NS	2.0 J	ı	ΑN	¥	3.0 J	¥	Y.
Fluoranthene (u120)	2008	40.0	ı	¥	W	15.0	Y.	Y Y
Ругеле	8	23.0	i	¥	Ϋ́	15.0	Y.	Y Y
Benzo(a)anthracene	0.002 G	14.0	,	¥	¥	7.0 J	Ϋ́	X
Chrysene (u050)	0.002 G	23.0	ı	¥	ΑN	٦ O.6	Ϋ́	AN
Bis(2 - Bhythexyf)phthalate (u028)	S	4.0 J	ı	¥ V	ΨN	2.0 J	ΑN	AN
Benzo(b)fluoranthene	0.002 G	16.0	,	¥	Ϋ́	5.0 J	ΑN	AN
Benzo(k)fluoranthene	0.002 G	13.0	ı	٧×	ΑN	3.0 J	AN	Ą
Benzo(a)pyrene (u022)	9	15.0	ı	ž	ΝA	2.0 J	ΑN	NA
Indeno(1,2,3-cd)Pyrene (u137)	0.002 G	3.0 J	,	¥	NA	1.0 J	AN	Y Y
Dibenzo(a,h)anthracene (u063)	NS	1.0 J	ı	¥	NA	1	AN	NA
Benzo(g,h,i)Perylene	NS	2.0 J	1	¥	Ą	ı	Ą	Ą
Pesticides and PCBe								
Alpha - BHC	SN	ı	ı	,	Ϋ́	0.008 JP	,	¥
Gamma – BHC	SN	ı	I	ı	ΑN V	0.049 JP	ı	¥
Dieldrin (P037)	9	ı	ı	1	AN	0.390 P	ı	Y Y
4.4'-DDE	Q <b>X</b>	ı	ı	ı	Ϋ́	0.069 JP	1	ž
4,4' - DDD (u060)	Ş	ı	1	0.027 JP	VI .	:	i	Ϋ́
Endosultan Sultate	SN	ì	0.018 JP	1	¥	ž.	0.013 JP	AA
4,4'~DDT (u061)	2		ı	1	ΑN	0.130 P	1	N A
Endrin Aldehyde	2	1	1	1	Y.	0.260 P	ı	NA
Alpha - Chlordane (u036)	0.1	1	i	1	NA	0.140 P	ı	¥
Aroclor 1260 (B007)	0.1	-	1		W	9.000	1	¥
1 Applyaie by Energy and Environmental Engine	Cariocologia	Los Comonillo II	Increahueatte					

Analysis by Energy and Environmental Engineering, Inc., Somerville, Massachusetts.
 NYSDEC, 1991.
 Duplicate of sample LS-02.
 RE = Sample reanalyzed.

<sup>5.</sup> Wash blank.

frip blank.

NS: No standard published in cited reference. G: Guidance value.

<sup>-:</sup> Analyte not detected. ND: Not detectable

NA: Not analyzed.

J. Estimated value.

P. Concentrations detected by the two GC columns differed by greater than 25 percent. The lower of the two values is reported.

SUMP LIQUID SAMPLES - SEPTEMBER 1993
AIRCO SPEER CARBON-GRAPHITE, INC. SITE
NIAGARA COUNTY, NEW YORK INORGANICS ANALYSIS (UG/L) TABLE 4.4

	FPTOX	4.5					
	Regulatory	Groundwater			ela me S		
Analyte (1)	Limit (2)	Starrance (3)	LS-01	LS-02	LS-04 (4)	LS-03	FB-02 (5)
Aluminum	₹	¥	3,530.00	1,590.00	807.00	61,000.00	
Antimony	₹	٠,	ı	1	1	123.00	ı
Arsenic (D004)	5,000	וט	6.60 BW	26.10	15.10	06.69	. (
Barium (D005)	100,000	ij	153.00 B	39.00 B	22.00 B	1,900.00	ı
Beryllium	₹		,	1	1	4.70 8	1
Cadmium (D006)	1,000		4.90 B	7.60	I	404,00	1
Calcium	¥	","	175,000.00	27,300.00	19,100.00	340,000,00	48.00 B
Chromium (D007)	2,000	1,3	31.70	33.30	7.70 B	4.160.00	
Cobalt	ź	,	1	1	1	78.100.00	ı
Copper	¥	U 11	125.00	38.50	14.60 B	104,000,00	ı
Cyanide (P030)	¥	ы	ı	ı			ı
Iron	ž	[]	13,900.00	13,000.00	5,730.00	2.624.000.00	ı
Lead (D008)	2,000	ei	221.00	287.00	114.00	18,900.00	1.90 B
Magnesium	٦	20.21	24,500.00	00 069' 2	6,980.00	42,200.00	77.00 B
Manganese	¥	);	1,310.00	145,00	62.00	18,200.00	1 1
Mercury (D009)	200		8.50 N*	0.42 N*	0.34 N*		ı
Nickel	ชี	77,	75.50	148.00	57.00	4,110.00	ı
Potassium	귛	•;;	7,810.00	2,710.00 B	2,430.00 B	9,580.00	1
Setenium (D010)	1,000		2.90 BNW	ı	9.10 BN	35.80 BN	2.60 BNW
Silver (D011)	2,000	1,3	ı	1	ı	6.70 B	
Sodium	Z		23,100.00 E	1,264,000.00 E	1,175,000.00 E	59,000.00 E	229.00 BE
Thalfum	ź		ı	4.00 B	ı	32.80 B	
, anadium	٦	77	34.90 B	246.00	90.50	1,790.00	ı
Zinc	¥	::	1,220.00	396.00	314.00	244 000 00	1
1 - 1 - 1 - 1 - 1 - 1 - 1							

Tg Inc., Somerville, Massachusetts. Analysis by Energy and Environmental E

<sup>¿</sup>NYCRH, Part 371.3 (e) (2).

NYSDEC, 1991.

Duplicate of sample LS-02.

Wash blank.

<sup>•</sup>L. NS: No regulatory limit or standard estacimine: - sited publication.

<sup>3.</sup> Guidance value.

<sup>-</sup> Analyte not detected.

<sup>3</sup> Value greater than instrument detection lim-

<sup>.</sup> Spike sample recovery not within control : m ::

Y Post digestion spike for Furnace AA anaves and control limits, while sample absorbance is less than 50% of spike absorbance. Value estimated due to interference.

Ouplicate analysis not within control limits

### TABLE 4.5 DETECTED ORGANIC COMPOUNDS AND INORGANICS ANALYSIS (UG/L) SURFACE WATER SAMPLES – SEPTEMBER 1993 AIRCO SPEER CARBON – GRAPHITE, INC. SITE NIAGARA COUNTY, NEW YORK

	Class GA			
Analyte (1)	Groundwater		Sample	
	Standards (2)	SW-01	SW-01RE (3)	TB-02 (5)
VOCs	_			
Methylene Chloride (u080)	5		NA	-6.0 J
Acetone (u002)	NS	45.0	NA	_
2-Butanone (u159)	NS	11.0	NA	-
SVOC*				
Phenanthrene	50 G	2.0 J	2.0 J	NA
Anthracene	50 G	1.0 J	1.0 J	NA
Benzo(a)anthracene	0.002 G	3.0 J	4.0 J	NA
Chrysene (u050)	0.002 G	7.0 J	6.0 J	NA
Benzo(b)fluoranthene	0.002 G	2.0 J	1.0 J	NA
Benzo(k)fluoranthene	0.002 G	2.0 J	2.0 J	NA
Benzo (a) pyrene (u022)	ND	1.0 J	-	NA
Benzo(g,h,i)Perylene	i NS	1.0 J	1.0 J	NA
Pesticides and PCBs				
Endosulfan I (P050)	NS	0.014 JP	NA	NA
Dieldrin (P037)	NS	0.042 JP	NA	NA
Endrin (P051)	ND :	0.140 P	NA	NA
Endosulfan II (P050)	NS	0.360	NA	NA
4,4'-DDD (u060)	ND	0.086 JP	NA	NA
Endosulfan Sulfate	NS	-	NA	NA
4,4'-DDT (u061)	NS	0.160 P	NA	NA
Endrin Ketone	. NS	0.460 P	NA	NA
Gamma-Chlordane (u036)	0.1	0.025 JP	NA	NA
Inorganics				
Aluminum	NS	261.0	NA	NA
Antimony	3 G	-	NA	NA
Arsenic (D004)	2 <b>5</b>	7,4 B	NA	NA
Barium (D005)	1,000	211.0	NA	NA
Beryllium	3 G	-	NA	NA
Cadmium (D006)	10	_	NA	NA
Calcium	NS	55,000.0	NA	NA
Chromium (D007)	50	5.2 B	NA	NA
Cobalt	NS	22.1 B	NA	NA
Copper	200	279.0	NA	NA .
Cyanide (P030)	100	-	NA	NA
lro <b>n</b>	300	8,310.0	NA	NA
Lead (D008)	25	8.7	NA	NA
Magnesium	35,000	13,200.0	NA	NA
Manganese	300	8,450.0	NA	NA
Mercury (D009)	2	0.3 N*	NA	NA
Nickel	NS	15.2 B	NA	NA
Potassium	NS	20,100.0	NA	NA
Selenium (D010)	10	_	NA	NA
Silver (D011)	50	-	NA	NA
Sodium	20,000	7,120.0 E	NA	. NA
Thallium	4 G	_	NA	NA
Vanadium	NS	17.4 B	NA	NA
Zinc	300	63.2	NA	NA

- 1. Analysis by Energy and Environmental Engineering, Inc., Somerville, Massachusetts.
- 2. NYSDEC, 1991.
- 3. RE = Sample reanalyzed.
- 4. Trip blank.
- G: Guidance value.
- ND: Not detectable.
- NS: No standard established in cited publication.
- -: Analyte not detected.
- J: Estimated value
- NA: Not analyzed.
- P: Concentrations detected by the two GC columns differed by greater
  - than 25 percent. The lower of the two values is reported.
- B: Value greater than instrument detection limit but less than contract required detection limit.
- N: Spike sample recovery not within control limits.
- E: Value estimated due to interference.
- \*: Duplicate analysis not within control limits.

## DETECTED ORGANIC COMOUNDS (MG/KG) SEDIMENT SAMPLES - SEPTEMBER 1993 AIRCO SPEER CARBON - GRAPHITE INC. SITE NIAGARA COUNTY, NEW YORK

Mathylane Chandle (1978)   Hostility Based   50-01   SD-01RE (9)   SD-02RE (9)   SD-		USEPA					e S	Samola (3)			
Color   Colo	Analyte (1)	Health - Based Guid. Val. (2)	SD-01	SD-01RE (3)	SD-01DL (4)	SD-02	SD-02RE (3)	SD-02AC (5)	SD-03	SD-03DL (4)	FB-01 (6)
1144   0.0001   0.0002   NA   0.0021   0.0022   NA   0.100   NA   0.000     1044   0.0001   0.0002   NA   0.003   0.0041   NA   0.100   NA   0.100   NA   0.100     1044   0.0001   0.002   NA   0.003   0.0041   NA   0.100   NA   0.100     1050   0.0000   0.002   0.003   0.0041   NA   0.100   0.100   NA   0.100     1050   0.0000   0.002   0.110   0.100   0.100   0.100   0.100     1050   0.0000   0.110   0.110   0.100   0.100   0.100   0.100     1050   0.0000   0.110   0.110   0.100   0.100   0.100   0.100     1050   0.0000   0.110   0.100   0.100   0.100   0.100     1050   0.0000   0.100   0.100   0.100   0.100   0.100     1050   0.0000   0.100   0.100   0.100   0.100   0.100     1050   0.0000   0.100   0.100   0.100   0.100   0.100     1050   0.100   0.100   0.100   0.100   0.100   0.100     1050   0.100   0.100   0.100   0.100   0.100   0.100     1050   0.100   0.100   0.100   0.100   0.100   0.100   0.100     1050   0.100   0.100   0.100   0.100   0.100   0.100   0.100     1050   0.100   0.100   0.100   0.100   0.100   0.100   0.100     1050   0.100   0.100   0.100   0.100   0.100   0.100   0.100     1050   0.100   0.100   0.100   0.100   0.100   0.100   0.100     1050   0.100   0.100   0.100   0.100   0.100   0.100   0.100     1050   0.100   0.100   0.100   0.100   0.100   0.100   0.100   0.100     1050   0.100   0.100   0.100   0.100   0.100   0.100   0.100   0.100   0.100   0.100     1050   0.100   0.	VOCS										
114   114   115	Methylene Chloride (u080)	83	•	,	<b>A</b> N	1		VIA.		<b>V</b> 13	
114   0.001 J 0.002 J NA	Acetone (u002)	8,000	ı	•	<b>V</b>	****	0000	2 2	1	<u> </u>	0.000 B3
1,000   2.1   2.1   3.5 JD	Chloroform (u044)	114	1,100.0	- 000		0.021	0.027 B	¥ :	0.100	¥ :	1
100   20,000   2.1 J   2.1 J   3.5 JD   -	2-Butanone (u159)	4 000		0.000	X	0.003	0.004	¥ :	I	¥ :	1
Secondary Colors   Colors	Toluene (1020)	000 00			Υ. :	1	0.016 J	¥ ×	ı	AN	•
Second	SVOCS	000,00	ı	U.002 J	Y Z	I	1	∢ Z	ι	Ϋ́	l
1000   1000	Acenaphthene	2 000	21.1	•	9			;			
NY   250   260   340	Fluorene	3 000	) ·	2.1.3	J. S.S.	ı	1	¥ :	3.4 J	ر 0.7	Ϋ́
20,000	Dhenesthman		1		ı	1	ı	Y Z	ı	2.8 J	Ϋ́
NA   18   18   18   18   18   18   18   1	Action	AN C	75.0	26.0	34.0 D	18.0	16.0	¥	36.0	36.0	Ϋ́
18	Allmacene	20,000	2.4 J	2.8 J	29.0 D	ı	1	٧	1	4.8 J	W
2,000   32,0   32,0   32,0   33,0   46,0   6,9   6,9   6,9   6,9   6,2	Carbazole	2	;	1.8 J	2.9 JD	1	,	MA	i	5.4 J	AN
1,000   1,00	Fluoranthene (u220)	3,000	32.0	33.0	46.0 D	8.9 J	₽.8	ž	33.0	62.0	4
NY   S10   450   520   480   490   NA   720   750	Pyrene	2,000	0.77	87.0	98.0 D	29.0	59.0	Ϋ́	95.0	0.30	
NV   900   930   1000   590   73.0   NA   1300   94.	Benzo(a)anthracene	0.22	51.0	45.0	52.0 D	48.0	49.0	×	72.0	0.62	Y N
NY   510   61.0   57.0 D   21.0   23.0   NA   52.0   84.0	Chrysene (u050)	<u>}</u>	0.06	93.0	100.0 D	59.0	73.0	Y Y	130.0	) <b>4</b>	( <b>4</b>
NA   480   330   42.0 D   140   230   NA   41.0   67.0	Benzo(b)fluoranthene	<u>&gt;</u>	51.0	61.0	57.0 D	21.0	39.0	Y Y	52.0	84.0	( <b>4</b>
NA   14,0 J   7.5 J   7.9 JD   3.3 J   5.2 J   NA   14,0 J   100 J	Benzo(k)fluoranthene	ž	48.0	33.0	42.0 D	14.0	23.0	×	41.0	67.0	ξ V
Pyrene (u137)   NV   14.0   7.5 J   7.5 J   7.9 JD   3.3 J   5.2 J   NA   14.0 J   10.0 J   10.0 J	Benzo(a)pyrene (u022)	0.061	83.0	71.0	64.0 D	2.8	49.0	A N	63.0	84.0	ξ V
Second   Continue	ndeno(1,2,3-cd)Pyrene (u137)	ž	14.0 J	7.5 J	DC 6.7	3.3 J	5.2 J	Ϋ́	14.0 J	10.01	. v
150 J   150 J   150 J   160	Dibenzo(a,h)Anthraœne (u063)	0.014	8.4 J	6.3 J	4.8 JD	3.0 J	4.7 J	N A	10.0 J	L 7.7	( <b>4</b>
Automate   Automate	Benzo(g,h,i) Perylene	2	27.0	15.0 J	15.0 JD	10.0 J	16.0	AN	210.1	7.6.1	<b>X X</b>
3.9	Pesticides and PCBs								9		2
NV   0.055 JP   NA   NA   0.005 JP   NA   0.005	Beta – BHC	3.9	ı	NA AN	ď	0 0 19 JP	ΨN	ı	ı	!	
NV 0.055 JP NA NA 0.006 JP NA - 0.032 JP - 0.044  0.044	Heptachlor Epoxide	0.077	0.077 JP	NA	¥	0.005 JP	¥ N	1	Q1. 91.0.0		₹ <b>₹</b>
0.044	Endosulfan I	ž	0.055 JP	¥	AN	O 00 0	Y Z	1	Q1 620 0		2 2
NV   0.780 P   NA   NA   0.160 P   NA   NA   0.150 P   NA   1.200	Dietdrin (P037)	0.044	ı	¥Z	¥ Z	90.00 JP	₹ 2	ı	1	l :	2 2
2.1	Endosulfan II	ž	0.780 P	A N	××	0.160 P	Y	1	1 200		2 2
2.1	4,4'-DDE	2.9	0.180 JP	NA	A N	1	¥	,	1		2 2
NV   2.100 P	4,4' DDD (u060)	2.1	:	٧Z	¥Z	0.017 JP	< Z	:	01. 100 O	,	2 2
1 Analysis by Energy and Environmental Engineering, Inc., Somerville, Massachusetts.  2. NYSDEC TAGM HWR-92-4046.  3. Sample reanalyzed.  4. DL = Sample reanalyzed with secondary dilution factor.	Endrin Ketone	ž	2.100 P	×	×	0.410 P	Y X	,	2 600 P	,	< <b>&lt;</b> 2 2
1. Analysis by Energy and Environmental Engineering, Inc., Somerville, Massachusetts. 2. NYSDEC TAGM HWR-92-4046. 3. Sample reanalyzed. 4. DL = Sample reanalyzed with secondary dilution factor. 8. Analyze also detected in associated black	Gamma - Chlordane (u036)	0.54	ı	٧×	٧	0.005 JP	Y X	1	0.035 JP	,	¥ 2
, Somerville, Massachusetts: Compound not detected.  NA: Not analyzed.  J. Estimated value.  R. Analyte also detected.	Aroclor - 1254 (B007)	-		AN	Ϋ́	C 660.0	V	0.031 J	0.500 JP	0.220	
		-	Analysis by Ener	gy and Environmenta	Engineering, Inc.,	Somerville, Mas	ssachusetts.	- Compound no	t detected.		
		2.	NYSDEC TAGM	HWR-92-4046.				NA: Not analyzed			
		3	Sample reanalyz	.pe				J. Estimated value			
		4	DL = Sample reg	inalyzed with seconds	in dilution factor			B. Analyta also de	tocted in person	Jack Post	

5. AC = Sample reanalyzed with secondary dilution factor.

P. Concentrations detected by the two GC columns differed by greater

D: Analyte identified at secondary dilution factor. NV: No value in cited reference.

than 25 percent. The lower of the two values is reported.

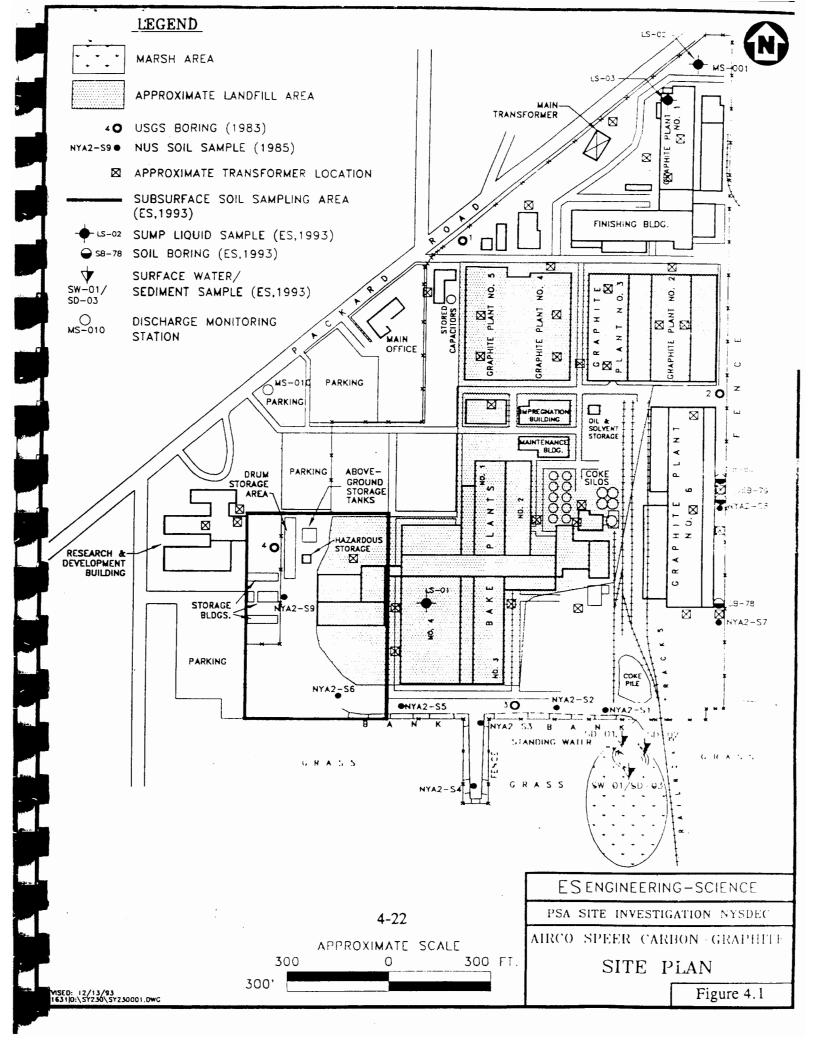
### TABLE 4.7 INORGANICS ANALYSIS (MG/KG) SEDIMENT SAMPLES — SEPTEMBER 1993 AIRCO SPEER CARBON—GRAPHITE, INC. SITE NIAGARA COUNTY, NEW YORK

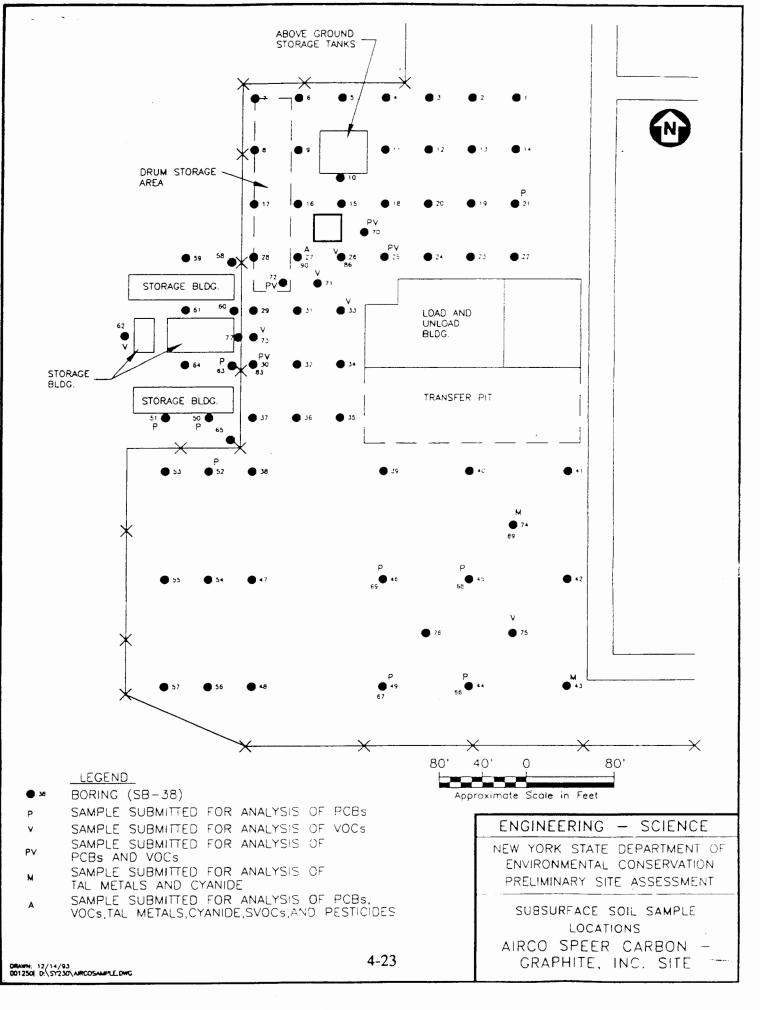
	Natural			
	Range in		Sample	
Analyte (1)	Soils (2)	SD-01	SD-02	SD-03
Aluminum	700-100,000	773.00	345.00	8,980.00
Antimony	<1-10	-	-	_
Arsenic (D004)	0.1-100	5.30 N	2.90 N	10.50 N
Barium (D005)	10-500	14.90 B	12.30 B	202.00
Beryllium	<1-15	_	_	0.45 B
Cadmium (D006)	0.01-7 (a)	1.20 BN*	1.10 BN*	1.70 N*
Calcium	130-330,000	1,630.00 *	2,760.00 *	35,900.00 *
Chromium (D007)	1-2,000	12.40	4.20	166.00
Cobalt	<3-70	_	· _	27.50
Copper	1-700	696.00 N*	83.70 N*	237.00 N*
Cyanide (P030)	NV	-	_	_
Iron	100-100,000	13,900.00 *	9,390.00	14,800.00
Lead (D008)	<10-700	33.10 *	17.70 *	78.40 *
Magnesium	50-50,000	386.00 B*	237.00 B*	9,680.00 *
Manganese	<2-7,000	140.00 *	184.00 *	3,990.00 *
Mercury (D009)	0.02-0.5	0.36 N*	0.35 N*	1.00 N*
Nickel	<5-7,000	8.40 B	6.10 B	62.20
Potassium	2,200 - 65,000	-	_	1,310.0 <b>0</b> B
Selenium (D010)	<0.1-5	_		0.54 BNW
Silver (D011)	0.01-5 (b)	_	_	-
Sodium	<500-100,000	_	_	81.70 B
Thallium	NV	_	_	_
Vanadium	20 – 500	14.10	6.90 B	87.30
Zinc	<5-3,500	61.50 *	30.80 *	645.00 *

- 1. Analysis by Energy and Environmental Engineering, Inc., Somerville, Massachusetts.
- 2. Schacklette and Boerngen, 1984.
- a: Booz, Allen and Hamilton, 1983.
- b: USEPA, 1983.

NV: No value in cited references.

- B: Value greater than instrument detection limit but less than contract required detection limit.
- -: Analyte not detected.
- N: Spike sample recovery not within control limits.
- W: Post digestion spike for Furnace AA analysis out of control limits, while sample absorbance is less than 50% of spike absorbance.
- \*: Duplicate analysis not within control limits.





New York State Department of Environmental Conservation 50 Wolf Road, Albany, New York 12233 - 7010



JAN - 9 1995

Langdon Marsh Commissioner

This letter was sent to the people on the attached list.

#### Dear:

The Department of Environmental Conservation (DEC) maintains a Registry of sites where hazardous waste disposal has occurred. Property located at Packard Road at 47th Street in the City of Niagara Falls and County of Niagara and designated as Tax Map Number 145.18-1-6 was recently reclassified as a Class 3 in the Registry. The name and site I.D. number of this property as listed in the Registry is Airco Speer Carbon-Graphite, Site #932002.

The Classification Code 3 means that the site does not present a significant threat to the environment or public health -- action may be deferred.

We are sending this letter to you and others who own property near the site listed above, as well as the county and town clerks. We are notifying you about these activities at this site because we believe it is important to keep you informed.

If you currently are renting or leasing your property to someone else, please share this information with them. If you no longer own the property to which this letter was sent, please provide this information to the new owner and provide this office with the name and address of the new owner so that we can correct our records.

The reason for this recent classification decision is as follows:

Hazardous waste is present on site in the form of PCBs in excess of 50 parts per million, acetone that has been documented to have been disposed as the pure chemical product, and lead in liquid wastes that exceeds hazardous waste levels. Significant threat is not present at the site due to the following factors: groundwater is not used as a source of drinking water in the area; although acetone was detected in surface water and sediment samples, the amounts present were well below USEPA health based guidance values; the same was true for PCBs detected in sediments, and lead found in surface water and sediments. The site itself is fenced with access controlled by security guards. The area the site is located in is an industrial area heavily populated with other hazardous waste sites, many of which have active and ongoing monitoring programs.

If you would like additional information about this site or the inactive hazardous waste site remedial program, call:

DEC's Inactive Hazardous Waste Site Toll-Free Information Number 1-800-342-9296 or New York State Health Department's Health Liaison Program (HeLP) 1-800-458-1158, ext. 402.

Sincerely,

Robert L. Marino

Chief

Site Control Section

**Bureau of Hazardous Site Control** 

**Division of Hazardous Waste Remediation** 

bcc:

R. Marino

T. Reamon

M. Podd

A. Sylvester

A. Carlson

L. Ennist

AS/srh

New York State Department of Environmental Conservation 50 Wolf Road, Albany, New York 12233 - 7010



DEC 20 1994

The Carbon/Graphite Group 800 Teresia Street St. Marys, PA 15857

Dear Sir:

As mandated by Section 27-1305 of the Environmental Conservation Law (ECL), the New York State Department of Environmental Conservation (NYSDEC) must maintain a Registry of all inactive disposal sites suspected or known to contain hazardous waste. The ECL also mandates that this Department notify the owner of all or any part of each site or area included in the Registry of Inactive Hazardous Waste Disposal Sites as to changes in site classification.

Our records indicate that you are the owner or part owner of the site listed below. Therefore, this letter constitutes notification of change in the classification of such site in the Registry of Inactive Hazardous Waste Disposal Sites in New York State.

DEC Site No.: 932002

Site Name:

Airco Speer Carbon-Graphite

Site Address: Packard Road at 47th Street, Niagara Falls, New York 14304

Classification Change from 2a to 3

The reason for the change is as follows:

Hazardous waste is present on site in the form of PCBs in excess of 50 parts per million, acetone that has been documented to have been disposed as the pure chemical product, and lead in liquid wastes that exceeds hazardous waste levels. Significant threat is not present at the site due to the following factors: groundwater is not used as a source of drinking water in the area; although acetone was detected in surface water and sediment samples, the amounts present were well below USEPA health based guidance values; the same was true for PCBs detected in sediments, and lead found in surface water and sediments. The site itself is fenced with access controlled by security guards. The area the site is located in is an industrial area heavily populated with other hazardous waste sites, many of which have active and ongoing monitoring programs.

Enclosed is a copy of the New York State Department of Environmental Conservation, Division of Hazardous Waste Remediation, Inactive Hazardous Waste Disposal Site Report form as it appears in the Registry and Annual Report, and an explanation of the site classifications. The

Law allows the owner and/or operator of a site listed in the Registry to petition the Commissioner of the New York State Department of Environmental Conservation for deletion of such site, modification of site classification, or modification of any information regarding such site, by submitting a written statement setting forth the grounds of the petition. Such petition may be addressed to:

Langdon Marsh
Commissioner
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-0001

For additional information, please contact me at (518) 457-0747.

Sincerely,

Robert L. Marino

Chief

Site Control Section

Bureau of Hazardous Site Control

Division of Hazardous Waste Remediation

#### **Enclosures**

bcc:

w/o Enc.

E. Barcomb

R. Marino

T. Reamon

A. Sylvester

w/Enc. (Copy of Site Report form only)

R. Dana

G. Anders Carlson, NYSDOH

L. Concra

A. Snyder

P. Buechi, R/9

E. Belmore

AS/srh