PENETREX PROCESSING, INC., SITE NASSAU COUNTY, NEW YORK NYSDEC I.D. No. 130034

December 1993

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LMSE-93/0731&576/046

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DATE: December 1993

Prepared By: Christina Fern, Lawler, Matusky & Skelly Engineers

EPA Region II

Site: Penetrex Processing, Inc.

1 Shore Road Glenwood Landing Nassau County New York

EPA I.D. No.: NYD981079064

CERCLA TDD No.: NYD981079064

1 INTRODUCTION

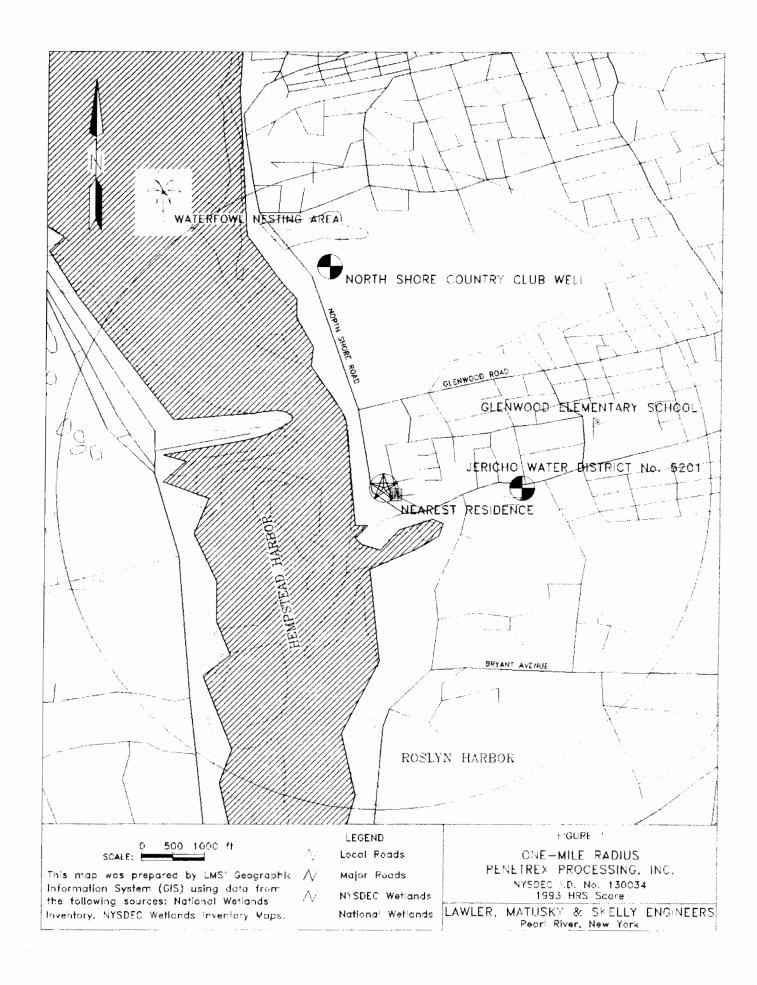
A site inspection (Phase II investigation [SI]) was performed at the Penetrex Processing, Inc., site in 1992 by Lawler, Matusky & Skelly Engineers (LMS) under contract to the New York State Department of Environmental Conservation (NYSDEC) (Reference 1). Because the scope of the Phase II encompasses the same activities as an SI, all references to the SI will be understood to be references to the Phase II. The Penetrex site is located at 1 Shore Road, Glenwood Landing, Nassau County, New York (Figure 1). The geographical coordinates of the site are 40°50'35" north latitude, 73°38'55" west longitude. The site is 300 ft east of Hempstead Harbor, located due north of Northern Boulevard (North Hempstead Turnpike) at the Bryan Road exit (Reference 2) (Figure 1). The site is listed with the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) (Reference 3).

The purpose of the SI is to investigate potential Superfund (Comprehensive Environmental Response, Compensation, and Liability Act [CERCLA]) sites for evaluation pursuant to the Hazardous Ranking System (HRS). The objective of the SI is to evaluate the extent to which a site presents a threat to human health or the environment by collecting and analyzing wastes and/or environmental media samples and determining whether hazardous substances are present on the site and/or are migrating to the surrounding environment. Information obtained from the SI is used to determine whether the site qualifies for inclusion on the National Priorities List (NPL) or should be dropped from further Superfund consideration. The scope of the SI includes collecting analytical data and nonsampling information to complete an HRS package. The SI involves reviewing available information, conducting field work (Phase II investigation), and evaluating the SI data using the Prescore computer program to score the site.

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2 SITE DESCRIPTION AND REGULATORY HISTORY

2.1 Site Description

A two-story brick building covers about 50% of the site, a small section of grass and weeds border the building on the west and south, and the remainder is covered by pavement. To the north the site is bordered by Bay Oil Company, and Long Island Lighting Company (LILCO) property lies just north of Bay Oil Company; both have bulk petroleum storage tanks. The site is bordered by residential property on the south and the southeast. To the east the site is bordered by West Street. Residential homes lie to the east of West Street. The site is bordered on the west by Shore Road. Across Shore Road to the west is Applied Environmental Services, a former treatment, storage, and disposal facility (TSDF) and previously a bulk petroleum storage facility. Dry wells and two leaching pools were located on site south of the building, but now the cesspools are believed to be covered over with macadam (Figure 2); three dry wells have been surveyed on site.

2.2 Regulatory History

Nassau County Department of Health (NCDOH) first inspected the site in October 1982 after observing an employee emptying a 5-gal container outside the site's building. NCDOH inspected the site and sampled the site's cesspool in March and May 1984 (Reference 4) (Table 1). NYSDEC first visited the site in September 1984 and with a search warrant inspected and searched the site in December 1984 (Reference 5). A site cesspool (dry well) was sampled in December 1984 (Reference 5 and Reference 6, pg. 3). On 28 May 1985 a Notification of Regulated Waste Activity Application for the site was received by the U.S. Environmental Protection Agency (EPA) and an EPA I.D. number was issued. "The former premises of Penetrex Inc." was listed as the generator; the waste generated was listed as F001. spent halogenated solvents (Reference 1). As required by NYSDEC a cleanup was conducted by site owners K&W Associates in July 1985. Cleanup operations included removal of 2300 gal of liquid from a dry well and excavation of 13 yd³ of soil from the bottom of the dry well and six drums (Reference 6). In 1985 a Phase II investigation was conducted under a NYSDEC Order on Consent. The investigation, conducted by Blasland and Bouck Engineers, P.C., involved groundwater and soil sampling and analysis (Reference 6). In 1989 Blasland and Bouck Engineers conducted a supplemental Phase II investigation, which included additional groundwater measurements and soil sampling (Reference 7).

2.3 Operational History and Waste Characteristics

The site is owned and leased by K&W Associates of Roslyn, New York. Penetrex Processing, Inc., occupied the eastern half of the building from 1955 to August 1984. Mr. Saul Weinberger was reported as owner during the operation of Penetrex. The western half of the building was occupied by Nameplate Manufacturing Company of America. R&A Supply Company, a distributor of dry cleaning equipment, occupied the eastern half of the building from 1985 until 1988. The building is currently occupied by an auto body repair shop and a wood working shop. The western portion of the building is now empty.

Penetrex was a dry cleaning business that used standard dry cleaning solvents. Wastewater generated by Penetrex was allegedly discharged into on-site dry wells and/or cesspools.

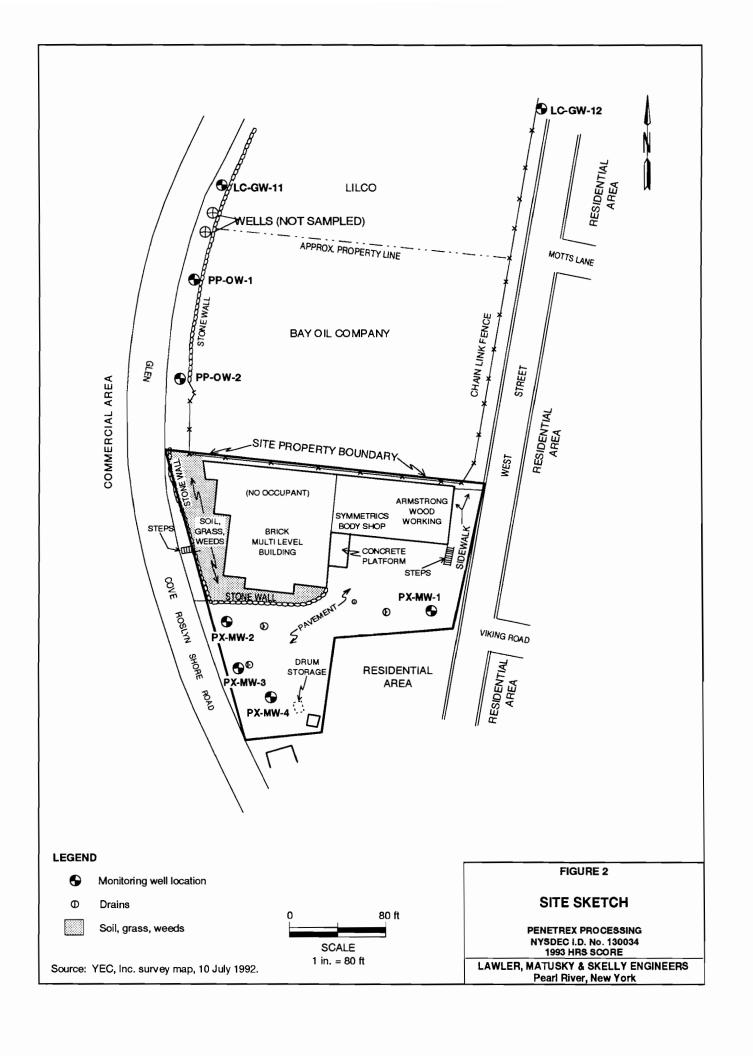


TABLE 1

PREVIOUS SAMPLING DATA

	3/84* CESSPOOL (µg/l)	. CESSPOOL (4g/l)	12/84* / CESSPOOL SOIL	5/25/89 ^{a,b} SB-7, DUP SB-5 (0-1 ft) (mg/kg) DRY WELL No. 3	5/89 ^b SB-1 2-4 ft	5/89 ^b SB-2 4-6 ft	5/89b SB-6 2.6-3 ft ~	11/89# DW-3 (mg/kg) √ (~3 ft)	5/89° GROUNDWATER (. (rg/l)
Dichlorobenzene	NR R	1,000	NR	NR	N	QN	N Q	QN	Q.
Ethylbenzene	7	NR R	NR	ND	N Q	Q	ND	Q	ND
Tetrachloroethylene	38,000	120,000	А	1,200	0.220	1.60	14.0	24.2	260
Toluene	6,700	6,900	А	ND	NO	Q	QN	N	ND
Trichloroethane	<i>L</i> 9	2,300	А	ND	ND	R	N Q	N	QN
Trichloroethylene	53	009'9	Ь	88	ND	0.033	Q	9	19
Trichlorotrifluoroethane and dichloroethane	800	13,000	۵۰	NR	N R	NR	NR	N R	NR
Xylene	32	N R	NR	N	QN	N N	QN	N	ND
Dichloroethane, total	N.	NR R	NR	ND	N	0.016	ND	ND	ND
1,2-Dichloroethylene	NR	NR	NR	56	ND	ΩN	ND	ND	74
1,1-Dichloroethane	NR	NR	NR	ND	ND	N N	QN	13	QN
Chloroform	NR	NR	NR	QN	ND	ND	N	ND	S
Acetone	NR	NR	NR	ND	ND	ND	ND	ND	490

^{*}Collected prior to waste removal.

ND -Not detected at various detection limits.
 NR -Not reported.
 P - Reported as present, concentrations unknown.

^aSame location.

^bSB-3 (8-10 ft) and SB-4 (6-8 ft) were reported free of contaminants.

^cHighest concentration reported from four monitoring wells.

Unpermitted industrial wastewater discharges occurring on site were described as the discharge of noncontact cooling water into an on-site cesspool and the discharge of separator water from dry cleaning equipment directly into the cesspool. Drums were also observed at the site in 1984 and 1985 (Reference 5). There is no information regarding Nameplate's waste generation and disposal practices.

Three wastestreams were reported during the site clean up: 2300 gal of liquid from the dry well; excavation of 13 yd³ of soil from the bottom of the dry well; one 30-gal container and four 55-gal drums. Waste types are assumed to be of F001 designation, spent halogenated solvents, as stated on the notification of waste activity.

The site is not fenced and is easily accessible. Access to contaminated areas is limited by pavement or drain grates.

3 WASTE SOURCES

3.1 Sample Locations

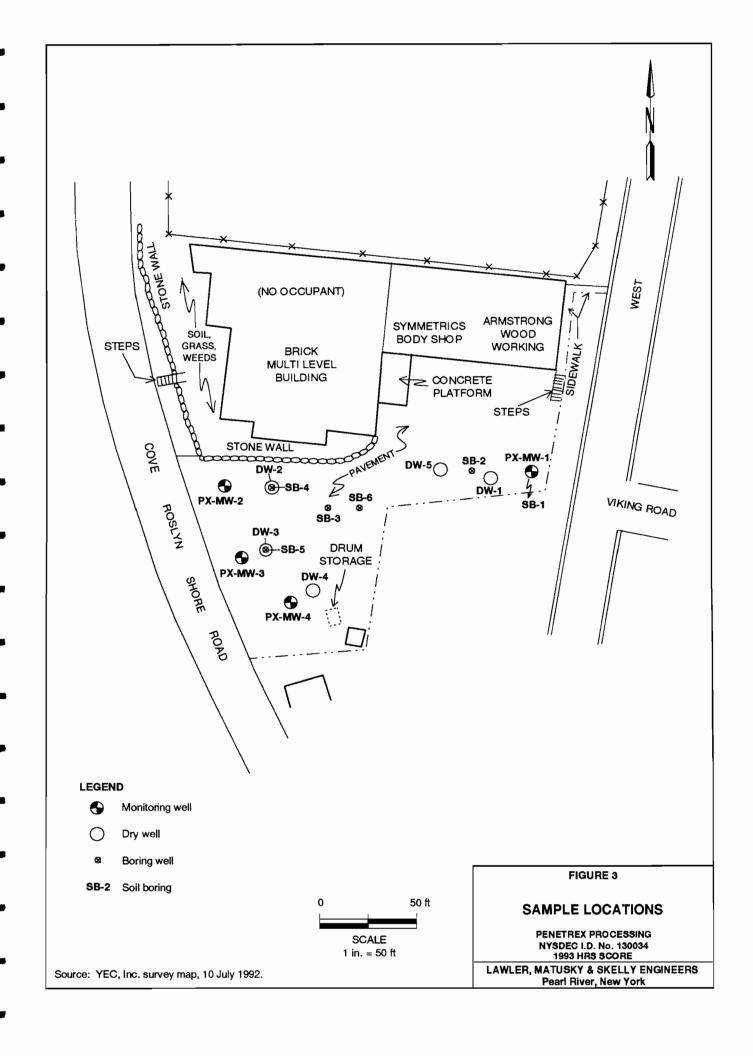
Previous site sampling is summarized in Table 1. In 1984 NCDOH sampled the site's cesspool and dry well; two liquid samples were analyzed (Reference 4). The exact locations of these samples are unknown, but they were presumably taken either southeast or southwest of the building. In May and November 1989 Blasland & Bouck conducted Phase II and supplemental Phase II investigations, respectively. Soil from the surface and from borings was collected and analyzed, and groundwater was analyzed (Figure 3 and Table 1). No soil samples were collected and analyzed during the SI.

3.2 Analytical Results

Sampling of liquid from the cesspool in 1984 identified concentrations of tetrachloroethylene at 120,000 µg/l. Also detected were trichlorotrifluoroethane and dichloroethane, 13,000 µg/l; trichloroethylene, 6600 µg/l; trichloroethane, 2300 µg/l; and dichlorobenzene, 1000 µg/l. Toluene and xylene were also identified. During the May 1989 Phase II investigation a total of six soil samples were analyzed. The soil sample collected from the 1-ft interval at dry well No. 3 contained the highest concentrations of chlorinated solvents (tetrachloroethylene, 1200 mg/kg). Trichloroethylene was identified at 86 mg/kg and 1,2-dichloroethylene at 26 mg/kg. During the November 1989 supplemental Phase II, one sample collected from dry well No. 3 at a depth of 3 ft contained tetrachloroethylene at 24.2 mg/kg, trichloroethylene at 40.0 mg/kg, and 1,1-dichloroethane at 13.1 mg/kg (Reference 7).

3.3 Conclusions

Although several types of waste have been removed from the site (13 yd³ of soil from a dry well, 2300 gal of liquid from the dry well and several drums), soil contaminated with chlorinated solvents remains at the site. Soil contaminants are impacting groundwater quality beneath the site and may eventually impact nearby Hempstead Harbor, into which groundwater discharges.



4 GROUNDWATER

4.1 Hydrogeology

The site is located in the Atlantic Coastal Plain Physiographic Province, north of the groundwater divide that runs east-west across the center of Long Island, and west of the principal divide that runs northwest-southeast from Locust Valley to Brookville, Long Island. Regional groundwater flow in this area is westward towards Hempstead Harbor. The site is underlain by unconsolidated material of Cretaceous and Quaternary age. These deposits are over 500 ft thick under the site and overlie crystalline bedrock. From deepest to shallowest these sediments are: the Lloyd aquifer, the Raritan clay confining unit, the Magothy aquifer (not present under the site), the Port Washington aquifer, the Port Washington confining unit, and the upper glacial aquifer (References 1 and 6).

The upper glacial aquifer consists of late Pleistocene and Holocene age sand, gravel, silt, and clay deposits that overlie the Port Washington confining unit. The upper surface of the upper glacial deposits constitute present day land surface except in areas such as the Penetrex site, where they are overlain by recent Holocene deposits and/or fill materials. The water table at the site is found in this aquifer. The Holocene deposits are more recent deposits, consisting of sand, gravel, silt, clay, organic mud, peat, loam, and shells. Colors are gray, green, black, and brown. These deposits, which include undifferentiated artificial fill, saltmarsh and swamp deposits, and stream alluvium and shore deposits, typically range in thickness from 10 to 50 ft. The upper Pleistocene deposits are moraine (till), composed of unsorted clay, sand, gravel, and local lacustrine or marine deposits consisting of clay, silt, and sand (References 1 and 6).

The average horizontal hydraulic conductivity of the upper glacial aquifer is 270 ft/day (2000 gpd/ft²) and the average vertical hydraulic conductivity is 27 ft/day (200 gpd/ft²). The morainal deposits are estimated to be approximately 110 ft thick beneath the site and are assumed to directly overlie the Port Washington confining unit. These deposits consist predominantly of well to moderately sorted fine sand with some medium sand. All soil borings conducted by Blasland and Bouck were drilled or hand augered into the morainal deposits of the upper glacial aquifer (Reference 6). At approximately 12 ft deep at MW-1 traces of silty sand are present. This silty deposit becomes more dominant and extends across the site, varying in thickness from 2 ft at MW-1 to 10 ft at MW-3. This deposit is wedge shaped and increases in clay content and thickness in the southwest direction (References 1 and 6).

Groundwater flow at the site is to the northwest toward Hempstead Harbor, with a slight tidal influence. The shallow groundwater gradient at the site varies from 0.012 to the east of monitoring well MW-3 to 0.10 to the west of this well. This can be explained by the shallow geology of the site; monitoring well MW-1 is screened predominantly in fine sand deposits, whereas monitoring wells MW-2, -3, and -4 are screened in less permeable silty and clayey sands (Figure 3) (References 1 and 6).

4.2 Targets

Almost all potable water is supplied by a public or private water supplier; very few private residential wells are in use (Reference 8). Several water suppliers, including Jericho Water District, Port Washington Water District, Glen Cove District, Roslyn Water District, Sea Cliff Water District, and Old Westbury Water District, have production wells located within 4 miles of the site (References 9, 10, 11, 12, 13, and 14). The closest water supply well is located approximately 2200 ft east of the site. This well, N5201, is operated by the Jericho Water District, which reports that the well is used only during the summer and contributes to a much larger system. The well, reported to be situated in the Lloyd aquifer at a depth of 504 ft, produces clean water (Reference 9). The presence and nature of this well indicates that a wellhead protection area is also within 4 miles of the site (Reference 15). The next closest supply well, located 0.75 mile north at the North Shore County Club, is reported to be located in the Magothy aquifer at a depth of 180 ft, and is used for irrigation only. These are the only municipal supply wells within 1 mile of the site and are upgradient of the site. There are a total of 44 municipal supply wells located within a 4-mile radius of the site: 18 are located within the 1- to 2-mile radius; 15 wells within the 2- to 3-mile radius; and 11 within the 3- to 4-mile radius (References 9 through 14). These wells are all located in the Magothy and Lloyd aquifers. Two shallower wells at 89 and 92 ft (N4860 and N0087) are also reported to be in the Magothy (Reference 12).

4.3 Sample Locations

In May 1989 four monitoring wells were installed on site and sampled as part of the Blasland and Bouck's Phase II investigation (Figure 2).

During the SI groundwater samples were collected from three on-site monitoring wells and two off-site, downgradient monitoring wells located at a LILCO storage facility (Figure 2). One on-site well was designated upgradient and was located in the southeastern portion of the property.

4.4 Analytical Results

Groundwater, sampled in 1989, contained concentrations of tetrachloroethylene (560 μ g/l), trichloroethylene (8 μ g/l), and 1,2-dichloroethane (74 μ g/l) in excess of New York State drinking water standards (Table 1) (Reference 6).

1,2-Dichloroethylene (total) at 330 μ g/l, 1,1,1-trichloroethane at 440 μ g/l, trichloroethylene at 210 μ g/l, and tetrachloroethylene at 610 μ g/l exceeded NYSDEC Class GA standards (5 μ g/l) in the on-site monitoring wells (Table 2) (Reference 1). Chlorinated compounds were not detected in samples analyzed from off-site monitoring wells.

4.5 Conclusions

Groundwater beneath the site has been impacted by waste containing chlorinated solvents deposited on site. Groundwater at this depth is not used as a potable water supply. Groundwater at the site is tidally influenced by Hempstead Harbor, and it is probable that pollutants will migrate to Hempstead Harbor via groundwater discharge.

TABLE 2 (Page 1 of 4)

GROUNDWATER SAMPLE DATA SUMMARY (JUNE 1992) Penetrex Processing NYSDEC I.D. No. 130034

NYSDEC CLASS GA STANDARDS		5.0	SS	5.0	5.0	5.0	5.0	5.0		99
MSD C		34 b j	QN	ND	3,000	410	•	490		R
MS PX-MW-Z		33 b j	Q	QN	2,800	390	•	470		R R
PX-MW-2		18 b j	QN	Q	3,100	430	190	230		370j
PX-MW-1		22 b j	QN	47 j	2,300	270	180	460		410 j
LC-GW-12		1 b j	Q	QN	ND	QN	ND	Q		Q
LC-GW-11		2 b j	12 b	2	2	2	2	2	<u>8</u>	9
PARAMETER	VOLATILE ORGANICS (μg/I)	Methylene chloride	Acetone	1,1-Dichloroethane	1,2-Dichloroethylene (total)	1,1,1-Trichloroethane	Trichloroethylene	Tetrachloroethylene	Tentatively Identified Compound	Ethane, 1,1,2,-trichloro-1,2,

NR - Not run. NS - No standard. MSD - Matrix spike duplicate.

Spiking compound; data not representative of actual sample concentration.
Found in associated blanks.
Estimated concentration; compound present below quantitation limit.
Matrix spike.
Not detected at analytical detection limit (Ref. 7)

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TABLE 2 (Page 2 of 4)

GROUNDWATER SAMPLE DATA SUMMARY (JUNE 1992) Penetrex Processing NYSDEC I.D. No. 130034

Y. DS									
NYSDEC CLASS GA STANDARDS		5.0	5.0	7.0	5.0	5.0	6.0		28
TRIP		2 b j	QN	Q	QN	ND	Q		Q
FIELD BLANK (6/10/92)		2 b j	QN	5 j	QN	QN	QN		Q N
PX-MW-5*		21 b j	3,300	QN	440	210	610		440 j
PX-MW-3		19 b j	2,800	ND	910	230	920	spu	2,300 j
PARAMETER	VOLATILE ORGANICS (µg/I)	Methylene chloride	1,2-Dichloroethylene (total)	Chloroform	1,1,1-Trichloroethane	Trichloroethylene	Tetrachloroethylene	Tentatively Identified Compounds	Ethane, 1,1,2,-trichloro-1,2,

Blind duplicate of PXMW-2.
Found in associated blanks.
Estimated concentration; compound present below quantitation limit.
Not detected at analytical detection limit (Ref.7).

TABLE 2 (Page 3 of 4)

GROUNDWATER SAMPLE DATA SUMMARY (JUNE 1992)

NYSDEC I.D. No. 130034 Penetrex Processing

PARAMETER	LC-GW-11	FILTRATE LC-GW-11	FILTRAT LC-GW-12 LC-GW-1	FILTRATE LC-GW-12	PX-MW-1	PX-MW-2	MSD PX-MW-2	FILTRATE PX-MW-2	DUP FILTRATE PX-MW-2	NYSDEC CLASS GA STANDARDS	NATURAL AMBIENT GROUNDWATER RANGES (n)
METALS (µg/l)											
Aluminum	1,170 N	N ON	4,590 N	NON	452 N	2,210 N	2,250	N ON	Q	88	<5.0 - 1,000
Antimony	2	Q	Q	Q	Q	2	Q	Q	Q	3000	NA
Arsenic	9.9 B	2.8 B	3.5 B	2	2	3.7 B	5.2 B	ND W	Q	25	<10.30
Barium	69.2 B	55.6 B	38.8 B	7.0 B	19.1 B	33.8 B	34.6 B	17.5 B	18.4 B	1,000	10 - 500
Beryllium	Q	Q	Q	2	Q	2	Q	2	Q	30 GV	<10
Cadmium	2	2	2	2	2	5.9	Q	Q	2	10	<1.0
Calcium	26,000	25,300	11,900	11,000	15,200	31,600	31,830	31,200	31,900	88	1,000 - 150,000
Chromium	4.0 B	Q	11.0	2	Q	4.8 B	4.6 B	2	2	95	<1.0-5.0
Cobalt	Q	S	Q	2	Q	8.2 B	9.0 B	Q	2	SS	<10
Copper	34.8	Q	22.2 B	2	Q	13.2 B	12.1 B	2	2	200	<1.0 - 30
Iron	18,000	10,100	12,200	11.7 B	765	7,510	7,980	53.0 B	46.0 B	300 (m)	10 - 10,000
Lead	2.4 B	Q	6.3	2	1.0 B	4.8 SA	2.3 B	2	2	25	< 45
Magnesium	5,310	5,120	4,770 B	4,400 B	2,210 B	4,020 B	4,050 B	3,890 B	3,980 B	35,000 GV	1,006 - 50,000
Manganese	1,460	1,410	18.1	2	3,090	561	290	68.1	69.3	300 (m)	<0.0-1,000
Mercury	2	2	Q	0.30	0.12 B	Q	0.12 B	Q	2	2.0	<1.0
Nickel	ND N R	ND N R	ND N R	ND N R	ND N R	140 N R *	14.0 B *	ND N R	2	88	<10.50
Potassium	5,330	4,080 B	2,930 B	2,200 B	2,320 B	6,940	7,690	8,300	6,560	NS.	1,000 - 10,000
Selenium	M QN	Q	Q	N QN	Q	1.4 B	1.18	1.0 B	2	10	<1.0 - 10
Silver	Q	2	Q	2	2	Q	2	Q	2	95	<5.0
Sodium	61,200	29,600	9,140	8,820	17,400	32,100	32,150	31,400	32,100	20,020	500 - 120,000
Thallium	Q	Q	Q	2	Q	Q	2	Q	1.7 B	4.0 GV	NA
Vanadium	6.9 B	Q	64.3	2	Q	13.9 B	13.4 B	Q	Q	SS	<1.0-16
Zinc	25.0 N R	25.4 N R	46.5 N R	24.6 N R	15.3 B N	241 N R*	49.4 *	26.2 N R	26.0	300	<10 - 2,000
Cyanide	N R	N N	Z Z	ĸ	꽃	Z.	ž	Z Z	N N	100	NA
* - Reported concentrations should be interpreted as estimated due	rations should b	e interpreted as ex	stimated due		ß	GV - Guidance value	<u>a</u>				

to poor correlation between sample and duplicate.
- Iron and manganese not to exceed 500 µg/l.
- Ref. 10.

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- Value less than contract-required detection limit but greater than instrument detection limit.

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Spiked sample recovery not within control limits.
Duplicate analysis not within control limits.
Post-digestion spike out of control limits; sample absorbance less than 50% of spike absorbance.

N/A - Not available.

ND - Not detected at analytical detection limit (Ref. 7).

NR - Not run.

NS - No standard.

SA - Value determined by method of standard addition.

DUP - Duplicate sample analysis.

MSD - Matrix spike duplicate.

TABLE 2 (Page 4 of 4)

GROUNDWATER SAMPLE DATA SUMMARY (JUNE 1992) Penetrex Processing NYSDEC I.D. No. 130034

ılimit (Ref. 7).	- Guidance value. - Not available. - Not detected at analytical detection limit (Ref. 7). - Not run. - No standard.	- Guidance value - Not available. - Not detected at - Not run. - No standard.	ON N N N N N N N N N N N N N N N N N N		imit but mits.	ot to exceed 500 µg/l. ct-required detection limit but t detection limit. y not within control limits. within control limits.	 Iron and manganese not to exceed 500 µg/l. Ref. 10. Value less than contract-required detection limit greater than instrument detection limit. Spiked sample recovery not within control limits. Duplicate analysis not within control limits. 	ළිදික zr
NVA	100	NR	NR	NR R	- 1	R.	Cyanide	
<10 - 2,000	300	7.4 B N R	31.9 N R	37.1 N R	6.7 B N R	22.3 N R	Zinc	
<1.0 - 10	NS	Q	<u>Q</u>	10.8 B	2	2	Vanadium	
N/A	4.0 GV	Q	Q	Q	2	Q	Thallium	
500 - 120,000	20,000	Q	33,000	32,700	32,700	33,800	Sodium	
<5.0	90	Q	<u>N</u>	Q	Q.	Q	Silver	
<10.10	10	Q	ND W	ND W	2	2	Selenium	
1,000 - 10,000	NS	Q	7,010	8,740	4,410 B	3,610B	Potassium	
<10.50	NS	ND N R	ND N R	ND N R	12.6 B N R	18.4 B N R	Nickel	
<1.0	2.0	Q	Q	0.13B	0.13B	2	Mercury	
<1.0 - 1,000	300 fm)	Q	81.5	535	483	510	Manganese	
1,000 - 50,000	35,000 GV	Q	4,080 B	4,100 B	4,970	5,170	Magnesium	
<15	25	Q	2	3.2	<u>N</u>	2.4 B	Lead	
10 - 10,000	300 fmi	27.1 B	38.6 B	6,540	6,540	21,600	Iron	
<10.30	200	Q	3.8 B	9.6 B	2	3.0 B	Copper	
<10	NS	Q	Q.	10.0 B	16.5 B	16.4 B	Cobalt	
<1.0-5.0	20	Q	S	3.6 B	2	2	Chromium	
1,000 - 150,000	NS	Q	32,400	32,600	38,800	41,000	Calcium	
<1.0	10	Q	Q.	Q	Q.	2.5 B	Cadmium	
<10	3.0 GV	Q	2	2	Q	2	Beryllium	
10 - 500	1,000	Q	18.7 B	31.0 B	57.5 B	76.5 B	Barium	
<1.0 - 30	25	ND W	Q.	4.3 B	10.0	15.2	Arsenic	
NA	3.0 GV	Q	<u>N</u>	2	Q	2	Antimony	
<6.0 - 1,000	NS	NON	NON	1,560 N	N ON	408 N	Aluminum	
							METALS (µg/l)	L_
NATURAL AMBIENT GROUNDWATER RANGES (n)	NYSDEC CLASS GA STANDARDS	FIELD BLANK 6/10/92	FILTRATE PX-MW-5	PX-MW-5	FILTRATE PX-MW-3	PX-MW.3	PARAMETER	

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- Value less than contract-required detection limit but greater than instrument detection limit.
- Spiked sample recovery not within control limits.
- Duplicate analysis not within control limits.
- Post-digestion spike out of control limits; sample absorbance is less than 50% of spike absorbance.

5 SURFACE WATER PATHWAY

5.1 Hydrology

The site is situated approximately 300 ft east of Hempstead Harbor. The average slope of the site is about 3% towards Hempstead Harbor. Hempstead Bay is the recipient of drainage for the surrounding region. Three drain grates currently located on site collect rain water; these drains are also designated as dry wells and drain directly to groundwater and the surrounding soil beneath the site. Waste generated by Penetrex reportedly was discharged to on-site drains without a State Pollutant Discharge Elimination System (SPDES) permit (Reference 5). Surface water not collected by outside dry wells drains to Hempstead Harbor. Hempstead Harbor drains to Long Island South, approximately 4 to 5 miles north of the site (Figure 4). Across Long Island Sound are the shores of Westchester County, New York, about 10 miles from the site. Long Island Sound completes the 15-mile migration pathway to the northeast and southwest.

5.2 Targets

There are no drinking water intakes on Hempstead Harbor. There is both recreational and commercial fishing in Hempstead Harbor and on Long Island Sound (Reference 16). Commercial shellfishing in the vicinity of the site is limited to waters farther north and northeast. Most of Hempstead Harbor is usually closed to commercial shellfishers because of intermittent pollution caused by rain and surface water runoff (pesticides, oil, animal feces, etc.) (Reference 16).

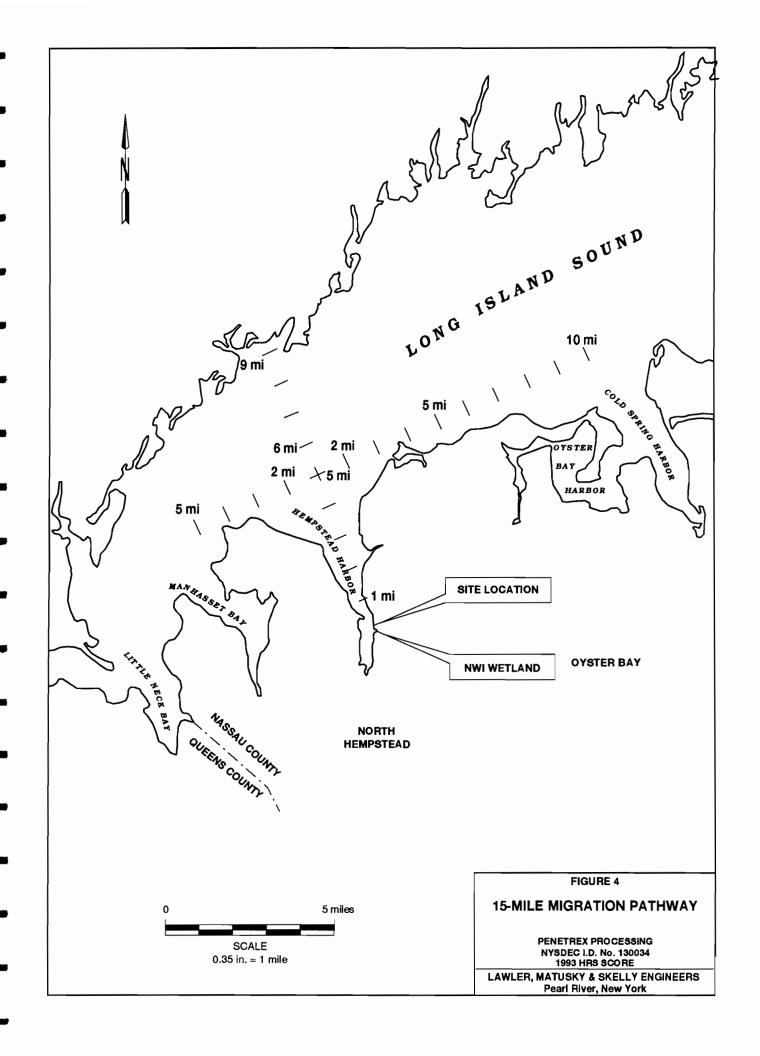
According to the NYSDEC Tidal Wetlands Map the shoreline of Hempstead Harbor is a littoral zone (Reference 17). The entire harbor shoreline (both east and west shores) is also designated a National Wetland (Reference 18); therefore, the closest wetland is just 300 ft due east of the site and continues for at least 5 miles along the shoreline to Long Island Sound. Approximately 800 ft southwest of the site are two recharge basins designated as National Wetlands (Reference 19). There are approximately 235 NYSDEC freshwater and Federally designated wetlands within 4 miles of the site, including the shores of Hempstead Harbor as far as Long Island Sound (Reference 18). There are hundreds more wetlands located on Long Island Sound. The closest NYSDEC significant habitat is a waterfowl nesting area located over a mile away to the northwest (Reference 20). There are no Federally listed or proposed endangered or threatened species known to be living within 4 miles of the site (Reference 21).

5.3 Sample Locations

No surface water samples were collected as part of the SI.

5.4 Analytical Results

No analytical data are available for surface water located near the site.



5.5 Conclusions

Pollution migration to nearby Hempstead Harbor was not investigated during the SI. Because most of the site is paved with asphalt, contaminant migration by the overland route is not likely. Groundwater beneath the site, however, is tidally influenced and mixes with waters of Hempstead Harbor. It is possible for site contaminants to migrate to the harbor via groundwater discharge.

6 SOIL EXPOSURE AND AIR PATHWAYS

6.1 Physical Conditions

The site is an active commercial property, with an automobile repair shop and woodworking shop operating on the premises. The on-site building covers about 50% of the site area; nearly all the remaining surface is covered with westerly sloping bituminous pavement. Drains (dry wells) are not paved over. Residential property borders the site on two sides; there is no fence and access to the site is easy.

6.2 Soil and Air Targets

Two small businesses are currently on site. It is estimated that five workers are on site full time. The nearest residences border the site to the south and southwest (References 1 and 2); these homes are within 200 ft of the site building. There are approximately 393 people living with 0.25 mile of the site; 1339 within 0.25 to 0.5 mile; 3050 within 0.5 to 1 mile; 17,115 within 1 to 2 miles; 37,894 within 2 to 3 miles; and 42,733 within 3 to 4 miles (Reference 22).

As discussed in Section 5.2, the closest wetland is a Federally and NYSDEC designated tidal wetland located at the shoreline of Hempstead Harbor, approximately 300 ft east of the site. The closest NYSDEC freshwater wetland is just over 0.5 mile from the site. Total National Wetlands Inventory (NWI) and NYSDEC freshwater wetlands within 0 to 0.25 mile of the site is five; within 0.25 to 0.5, five; within 0.5 to 1, 21; within 1 to 2 miles, 61; within 2 to 3 miles, 88; and within 3 to 4 miles, 55 (Reference 18). No Federally listed or proposed endangered species are known to exist within 4 miles of the site (Reference 21). There are approximately 35 NYSDEC significant habitats known in the area of the site, the closest being over 1 mile northwest of the site (Reference 20).

6.3 Soil Sample Locations

No soil samples were collected during the SI.

6.4 Soil Analysis Results

No soil analysis were included in the SI. Soil analysis from previous investigations is discussed in Section 3.2.

6.5 Air Monitoring

No air monitoring was conducted during the SI.

6.6 Conclusions

The site, located in a commercial and residential area, is not fenced and access is unlimited. A small portion of the site bordering the west and south sides of the building is not paved. The remainder of the site is paved, and areas of contaminated soil are paved over or covered with drain grates. Exposure of on-site workers and nearby residents to the contaminated soil is not likely. There is no indication of a release of contamination to the air.

7 SUMMARY AND CONCLUSIONS

The Penetrex SI gathered data necessary to evaluate the site as a candidate for NPL consideration. Groundwater samples were collected and analyzed to characterize the site.

In the past Penetrex disposed of dry cleaning wastes on site without a SPDES permit. These wastes contained chlorinated solvents, including tetrachloroethylene, trichloroethylene, trichloroethane, and dichloroethanes. As requested by NYSDEC, the property owner conducted a cleanup of an on-site dry well and drum removal. As documented in later investigations, the waste removal action was incomplete and soil containing chlorinated compounds still remains at the site.

Investigations, including the most recent SI, show that groundwater beneath the site has been impacted by site activities. Concentrations of 1,2-dichloroethylene, 1,1,1-trichloroethane, trichloroethylene, and tetrachloroethylene exceed NYSDEC groundwater standards. Groundwater beneath the site moves northwest toward Hempstead Harbor, and a slight tidal influence has been demonstrated. Groundwater pollutants beneath the site have the potential to migrate to the nearby harbor and possibly impact wetlands and aquatic life. Environmental impact on the harbor from the site may be difficult to identify because of other pollution already present in the harbor and other polluters located near the site.

Cleanup at the site should be continued.

Groundwater beneath the site is not used as a source of potable water; a municipal well, located 2200 ft east of the site at a depth of 504 ft below grade in a different aquifer, is not impacted by the site.

8 SITE SCORE

The prescore for the Penetrex site, 34.41, was obtained using Prescore Software Version 2.0, May 1993. This score represents a site with groundwater contamination and the potential to release contaminants to sensitive environments via the groundwater to the surface water migration pathway. No surface water or fisheries target samples were collected during the SI. The groundwater to surface water migration pathway score is zero because no targets

have been identified; however, there is a potential for surface water to be impacted by site groundwater. For the groundwater migration pathway, residential populations were counted as targets in the Lloyd Aquifer scoring because a standby well is located to the east of the site. Counting these individuals drives the score above 28.5.

1

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 REFERENCES

Penetrex Processing Inc. - 10/20/93

- [1] Lawler, Matusky & Skelly Engineers (LMS). 1993. Phase II investigation report, Penetrex Processing, Inc.
- [2] U.S. Geological Survey Maps:
 - USGS Quadrangle Map, Sea Cliff, NY, 1968, photorevised 1979. USGS Quadrangle Map, Hicksville, NY, 1967, photorevised 1979. USGS Quadrangle Map, Mamaroneck, NY-CT, 1967, photorevised 1975.
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- [4] Memorandum of conversation between Christina Fern, LMS, and Laurie Lutzker, NCDOH, concerning past activities at the Penetrex Processing, Inc., site. 21 September 1993.
- [5] Deposition of John Woodworth, NYSDEC, concerning investigation of past activities at the Penetrex Processing, Inc., site. 19 February 1985.
- [6] Blasland & Bouck Engineers, P.C. 1989. Phase II investigation report, Penetrex site, Glenwood Landing, New York. Prepared for Shea & Gould.
- [7] Blasland & Bouck Engineers, P.C. 1990. Supplemental Phase II investigation report, Penetrex site, Glenwood Landing, New York. Prepared for Shea & Gould.
- [8] Well count data from the National Waterworks Association. 19 May 1993.
- [9] Memorandum of conversation between Christina Fern, LMS, and Joseph Passariello, Jericho Water District, concerning public water supplies nearest the Penetrex Processing, Inc., site. 12 October 1993.
- [10] Correspondence from Stephen J. Nakelski, Port Washington Water District, to Christina Fern, LMS, concerning locations and depths of the District's operating wells. 21 July 1993.
- [11] Correspondence from Angelo Martino, City of Glen Cove Office of the Water Department, to Christina Fern, LMS, concerning Glen Cover Water Department water supply sources. 20 July 1993.
- [12] Correspondence from Carmine Cipriano, Roslyn Water District, to Christina Fern, LMS, concerning Roslyn Water District water supply sources. 8 July 1993.
- [13] Communications between Christina Fern, LMS, and Anthony Grella, Sea Cliff Water Co., concerning Sea Cliff Water Co. wells and population served. 1 and 2 July 1993.

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- [15] New York State Department of Environmental Conservation (NYSDEC). 1990. New York State Wellhead Protection Program. Submitted to U.S. Environmental Protection Agency.
- [16] Memorandum of conversation between Christina Fern, LMS, and Paul Chevallier NYSDEC Stony Brook, concerning fishing in Hempstead Harbor. 14 October 1993.
- [17] New York State Department of Environmental Conservation (NYSDEC). Tidal wetlands map 614-518, index map number 2.
- [18] Lawler, Matusky & Skelly Engineers (LMS). 1993. Figure and table showing wetlands within a 4-mile radius of the Penetrex Processing, Inc., site. Produced by LMS' Geographical Information System (GIS) using data from National Wetlands Inventory (NWI) maps and NYSDEC wetlands maps.
- [19] Lawler, Matusky & Skelly Engineers (LMS). 1993. Listing of wetland, school, residence, habitat, and well nearest the Penetrex Processing, Inc., site. Based on data from NWI Fish & Wildlife Service topographical map, USGS topographical map, LMS (1993), NYSDEC NY Natural Heritage Program, and base map of Nassau County (Dynamap 2000, GDT).
- [20] Correspondence from Burrell Buffington, NYSDEC, to Christina Fern, LMS, concerning rare plants, animals, and natural communities in the vicinity of the Penetrex Processing, Inc., site. 16 July 1993.
- [21] Correspondence from Leonard P. Corin, U.S. Department of the Interior Fish & Wildlife Service, to Christina Fern, LMS, concerning threatened or endangered species in the vicinity of the Penetrex Processing, Inc., site. 14 July 1993.
- [22] Lawler, Matusky & Skelly Engineers (LMS). 1993. Table listing population within a 4-mile radius of the Penetrex Processing, Inc., site. Data from U.S. Census of Population and Housing (1990) processed through LMS' GIS.
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ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK PHASE II INVESTIGATIONS

Penetrex Processing, Inc., Site
Village of Glenwood Landing, Nassau County
NYSDEC I.D. No. 130034

Report

Prepared for:

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

50 Wolf Road Albany, New York 12233-7010



LMSE-93/0171&576/046



Prepared By:

LAWLER, MATUSKY & SKELLY ENGINEERS Environmental Science & Engineering Consultants One Blue Hill Plaza Pearl River, New York 10965

March 1993

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U.S. Geological Survey Maps:

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STATE OF NEW YORK

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of the Summary Abatement, pursuant to Section 71-0301 of the Environmental Conservation Law of the State of New York (the "ECL") of a Condition or Activity which presents an Imminent Danger to the Health and Welfare of the People of the State of New York or is Likely to Result in Irreversible or Irreparable Damage to Natural Resources, Maintained and Engaged in By

AFFIDAVIT

SAUL WEINBERGER,

Respondent

STATE OF NEW YORK)
COUNTY OF SUFFOLK) ss:

JOHN WOODWORTH, being duly sworn, deposes and says:

l. I am an Environmental Conservation Investigator in the Bureau of Environmental Conservation Investigations (BECI) in the Division of Law Enforcement of the New York State

Department of Environmental Conservation (the "Department"). I am assigned to the BECI's White Plains Field Unit, White Plains, New York. I have held that position continuously since October 1982. In the course of my duties, I investigate known and suspected violations of the ECL and regulations promulgated pursuant thereto.

- 2. The following matters are within my personal knowledge, or have been related to me by other staff of the Department, or other individuals, in the course of my investigation into the matters described herein.
- 3. The Department has jurisdiction over the management of industrial and hazardous waste within the State of New York, pursuant to Article 27, Title 9 of the ECL. The Department also has jurisdiction over the regulation of the discharge of pollutants from outlets or point sources into the waters of the State of New York, pursuant to Article 17, Title 8 of the ECL. In addition, pursuant to Article 17, Title 8 of the ECL, the Department issues permits for such discharges, under a program known as the State Pollutant Discharge Elimination System (SPDES). Said permits will hereinafter be referred to as "SPDES permits."
- 4. The Department is authorized, empowered, and directed to enter upon and inspect property within the State of New York for the purpose of investigating those areas where the existence of pollution is known or suspected, and for the purpose of ascertaining compliance or non-compliance with any provision of the ECL, or any rule or regulation promulgated thereto. Such inspections are authorized by Section 3-0301(2)(g) of the ECL. Furthermore, Section 17-0829 of the ECL authorizes the Department to enter upon any premises at which any point source

of the discharge of industrial pollutants is located, for the purpose of inspection, and for the purpose of ascertaining compliance or non-compliance with any provision of Article 17, Title 8 of the ECL, any rule or regulation promulgated pursuant thereto, and any permit or order issued thereunder.

- 5. The Nassau County Department of Health (NCDH) is a duly authorized agent of the Department for the purpose of conducting the inspections described in Paragraph 4, above, within the County of Nassau.
- 6. Since September 1984, in the course of my official duties, I have been conducting an investigation into environmental conditions, and possible violations of the ECL and regulations promulgated pursuant thereto, occurring at premises operated as a commercial facility by Penetrex Processing Company ("Penetrex"), located at 1 Shore Road, in Glenwood Landing, Town of North Hempstead, County of Nassau, State of New York (the "Facility").
- 7. I am informed by Allen Fitzgerald, Public Health Sanitarian for NCDH, that Penetrex operated the Facility as a dry cleaning establishment, and that NCDH conducted several inspections, during the spring of 1984, at the Facility, pursuant to Section 17-0829 of the ECL. In the course of said inspections, NCDH determined that unauthorized discharges into an on-site cesspool had resulted in elevated concentrations of

various contaminants in said cesspool, in excess of guidelines established by the New York State Department of Health (NYSDOH). __ In the course of said inspections, NCDH further determined that unpermitted industrial wastewater discharges were occurring at the Penetrex facility, specifically: 1) the discharge of noncontact cooling water into an on-site cesspool; and 2) the discharge of separator water from dry cleaning equipment directly to said cesspool. Said cesspool was located fifty (50) feet south of the building in which Penetrex conducted its operations. Such discharges are unlawful unless authorized by SPDES permits. According to official records of the Department, at no time did Penetrex obtain or possess any SPDES permits authorizing any such discharges at the Facility. I am further informed by Allen Fitzgerald that, between May 1984 and August 1984, NCDH attempted to compel Penetrex to remediate the contamination described above. However, no such remediation was, or has been accomplished.

8. Upon information and belief, the property at which Penetrex operated the Facility is owned by an individual named Saul Weinberger, who maintains offices at 390 Willis Avenue, Roslyn Heights, New York. Said property shall hereinafter be referred to as the "Site." I am informed by Michael Weinberger, the son and authorized representative of Saul Weinberger, that Penetrex no longer operates the Facility, and has not done so since August 1984.

9. On September 27, 1984, in the course of my official duties, I went to the Site. I observed a two-story building on the premises of the Site. It appeared that said building was divided into two (2) portions. One of said portions was the Facility, formerly occupied by Penetrex. The other portion appeared to be operated by a company called Name Plate Manufacturing Co. of America. I spoke to an individual named Prisco, who identified himself as the owner and operator of said company. Mr. Prisco stated that his company's facility had inground septic tanks for waste water and sanitary waste and that said this were separate from the discharge system serving the former Penetrex Facility. He also stated that the space formerly used by Penetrex was unoccupied.

10. On the above date, in the course of my official duties, I further observed that the Site is approximately one- $\overline{Iho.:AND}$ feet to the east of Hempstead Harbor.

- 11. On October 11, 1984, in the course of my official duties, I drove past the Site. In front of the Facility I observed four (4) 55-gallon drums and one (1) 30-gallon drum.
- 12. According to official records of the Department, neither the Facility nor the Site is a permitted facility for the treatment, storage or disposal of industrial-commercial waste, or hazardous waste, pursuant to the provisions of Article 27, Titles 7 and 9 of the ECL, and Part 360 of Title 6 of the

J. w.

Official Compilation of Codes, Rules and Regulations of the State of New York ("6 NYCRR").

- Warrant authorizing personnel of the Department, and of NCDH, to enter upon the premises of the Site, to collect samples from the cesspool described in Paragraph 7, above, and from the drums described in Paragraph 11, above, and to subsequently transport said samples to an independent laboratory for chemical analysis. On the above date, said Search Warrant was issued by the Hon.

 Abbey L. Boklan, Judge of the County Court of Nassau County. On December 3, 1984, said Search Warrant was duly executed, and the above described samples were collected, and subsequently transported to an independent laboratory for chemical analysis. On February 11, 1985, a report on the results of said chemical analysis was received at the Department's White Plains Office.
- 14. On February 15, 1985, in the course of my official duties, I again went to the Site. I observed that the drums described in Paragraph 11, above, were still on the Site. It appeared that said drums were in the same locations on the Site where I had observed them in the course of executing the above-described Search Warrant.
- 15. On the above date, in the course of my visit to the Site, I learned that a company named R & A Supply Company ("R & A") is presently occupying the Facility. I am informed

by the President of R & A, Fred Shelty, that R & A has occupied the Facility since January 1, 1985, and that R & A engages in the business of the distribution of dry cleaning equipment.

JOHN WOODWORTH

of <u>February</u>, 1985

Unne Claire Scrocco
Notary Public

ANNE CLAIRE SCROCCO
Botary Public, State of New York
No. 44 - 4799929
Qualified in Rockland County
Commission Expires March 30, 1985

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PHASE II INVESTIGATION PENETREX SITE GLENWOOD LANDING, NEW YORK

Shea & Gould

New York, New York

August 1989

BLASLAND & BOUCK ENGINEERS, P.C.
BLASLAND, BOUCK & LEE
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SUPPLEMENTAL PHASE II INVESTIGATION PENETREX SITE GLENWOOD LANDING, NEW YORK

Shea & Gould

New York, New York

February 1990

BLASLAND & BOUCK ENGINEERS, P.C.
BLASLAND, BOUCK & LEE

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90 POP: 1990 POPULATION.

90 HOUSE: 1990 NUMBER OF HOUSEHOLDS

UTILITY: NUMBER OF HOUSEHOLDS SERVED BY A PRIVATELY OR PUBLICLY

OWNED WATER SUPPLY COMPANY WHOSE SOURCE MAY BE SURFACE

WATER, GROUND WATER, OR A COMBINATION

DRILL: NUMBER OF HOUSEHOLDS WITH A PRIVATE DRILLED WELL.

DUG: NUMBER OF HOUSEHOLDS WITH A PRIVATE DUG WELL.

OTHER: NUMBER OF HOUSEHOLDS WITH AN UNSPECIFIED SOURCE OF WATER (CISTERN, SPRING, CREEK, RIVER, LAKE, ETC.)

NO HOUSEHOLD DATA WERE TABULATED UNDER THIS ZIP CODE WHICH REPRESENTS A LARGE BUSINESS OR POST OFFICE BOX;

HOWEVER, ALL ZIP CODES HAVE BEEN INCLUDED FOR

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11042	1	0	0	0	Ō	0
11043	*	*	*	*	*	*
11044	*	*	*	*	*	*
11050 PORT WASHI	NCTO) 27474	10323	10318	0	. 0	5
11050 3881 (1994)	*		<u></u> *	_		<u>_</u>
11051	*	*	*	*	*	*
11053	*	*	*	*	*	*
11054	*	*	*	*	*	*
11054	*	*	*	*	*	*
11099	*	*	*	*	*	*
11501	20018	8243	8194	13	0	36
11501 11507 ALBERTSO1		2434	2429	5	0	0
11507 ALBERTSON	2801	1289	1285		2	
11510	31209	10843	10825	11	0	7
	4863	1777	1777	0	0	0
11514		2723	2723	0	0	0
11516	7304			-	•	
11518	11948	4714	4706	0	0	8
11520	41059	-14026	13952	39	0	34

#
Private WELK

					TENATE	Misila	
11530	26747	8993	8947	21	8	17	•
11535	*	*	*	*	*	*	
11536	*	*	*	*	*	*	
11542 GLEN COVE	24969	9060	9051	3	0	6	
11545 GLEN HEAD	13592	4211	4197				
		*	<u>4197</u>	14	0	<u> </u>	
11547 GLENWOOD LAN	Jaine		_	*	*	<u>*</u>	
11548 GREENVALE	1278_	463	462	1	0		
11550	50957	15688	15602	33	18	36	
11551	*	*	*	*	*	*	
11552	22021	7298	7298	0	0	0	
11553	20394	5929	5924	0	5	0	•
11554	36401	11349	11322	0	0	27	
11555	*	*	*	*	*	*	
11556	*	*	*	*	*	*	
11557	8471	3112	3110	2	0	0	•
11558	8887	3046	3046			- 0	
11559	6643	2518	2514	Ö	0	4	
11560 LOCUST VALLE	Y 6932	2602	2496	88	4	14	
11561	39065	18211	18162	42	7	0	
11563	22674	8678	8658	12	6	2	
11564	*	*	*	*	*	*	_
11565	9498	3302	3298	0	0	4	•
11566	35860	11817	11802	8	7	0	
11568 OLD WESTBU	Ry 4552	1333	1317	6	0	10	
11569	*	*	*	*	*	*	_
11570	26004	9734	9683	15	11	26	_
11571	*	*	*	*	*	*	
11572	31396	10815	10808	5	1	0	
11575	14783	3927	3927	Õ	Õ	ŏ	
11576 RASLYN	10890	4176	4173	3	0	Ö	
11577	11809	4148		11	$\frac{-}{7}$		
			4107			23	
11579 SEA CLIFF	5069	2070	2048	13	<u> </u>		
11580	34008	12150	12130	7	7	6	
11581	19035	6876	6876	0	0	0	
11582	*	*	*	*	*	*	
11583	*	*	*	*	* ,	*	•
11588	*	*	*	*	*	*	
11590	36294	11528	11503	11	0	14	
11592	*	*	*	*	*	*	
11593	*	*	*	*	*	*	•
11594	*	*	*	*	*	*	
11595	*	*	*	*	*	*	
11596	10990	3804	3769	27	0	8	_
11597	*	*	*	2 /	*	*	_
11598	12987	4588	4574	2	12	ō	
11599	12901	4200	43/4	4	±2	•	
	6600	2446		13		17	•
11696	6682		2416	13	0	17	
11709	7015	2663	2621	28	0	14	
11710	34251	11375	11369	0	6	0	
11714	22147	7122	7086	21	7	9	
11732	3302	1197	1196	1	0	0	
11735	31166	10709	10664	22	0	23	
11736	*	*	*	*	*	*	
11737	*	*	*	*	*	*	-
11753	10907	. 3705	3705	0	0	0	
11756	47656	15183	15102	33	5	43	
11758	52278	16866	16822	24	3	17	
11762	23432	7426	7409	0	3	13	•
11765	885	342	302	39	1	0	
11771	9771	3886	3468	352	57	9	1000
							-

			# K Households	Served my	Private were Drill	Private	ril al
ı	11773	*	/ (0 CSC) *	Supp & Com	Dr.(()	* Die	*
	11774	*	*	*	*	*	*
	11775	*	*	*	*	*	*
)	11783	21666	7082	7032	36	0	15
	11791	25011	8277	8181	84	10	2
	11793	32025	10744	10715	28	0	0
	11797	8543	2757	2744	6	6	0
,	11801	36267	12183	12144	28	0	12
	11802	*	*	*	*	*	*
	11803	28725	9441	9402	13	7	19
)	11804	5241	1718	1707	0	0	11
	11805	*	*	*	*	*	*
	11815	*	*	*	*	*	*
	11819	*	*	*	*	*	*
)	11853	*	*	*	*	*	*
	11854	*	*	*	*	*	*
	11855	*	*	*	*	*	*
1	1990 CENSUS	HOUSEHOLD WATER	SUPPLY DATA:	ZIP CODE	TOTALS FO	OR SCHENE	CTADY

1990 CENSUS HOUSEHOLD WATER SUPPLY DATA: ZIP CODE TOTALS FOR SCHENECTADY COUNTY, NEW YORK

EXPLANATION OF COLUMN HEADINGS:

90 POP: 1990 POPULATION.

90 HOUSE: 1990 NUMBER OF HOUSEHOLDS

UTILITY: NUMBER OF HOUSEHOLDS SERVED BY A PRIVATELY OR PUBLICLY

OWNED WATER SUPPLY COMPANY WHOSE SOURCE MAY BE SURFACE

WATER, GROUND WATER, OR A COMBINATION

DRILL: NUMBER OF HOUSEHOLDS WITH A PRIVATE DRILLED WELL.

DUG: NUMBER OF HOUSEHOLDS WITH A PRIVATE DUG WELL.

OTHER: NUMBER OF HOUSEHOLDS WITH AN UNSPECIFIED SOURCE OF

WATER (CISTERN, SPRING, CREEK, RIVER, LAKE, ETC.) NO HOUSEHOLD DATA WERE TABULATED UNDER THIS ZIP CODE

WHICH REPRESENTS A LARGE BUSINESS OR POST OFFICE BOX;

HOWEVER, ALL ZIP CODES HAVE BEEN INCLUDED FOR

COMPLETENESS.

	COMPLETEN	ESS.				
STATE TOTALS	90 POP	90 HOUSE	UTILITY	DRILL	DUG	OTHER
NY	17990460	7226903	6329430	703302	121040	73111
CNTY TOTALS						
SCHENECTADY	165869	68546	62535	4649	1113	246
CNTY ZIP CODES						
12008	344	125	120	5	0	0
12053	3991	1445	139	1089	159	58
12056	2661	984	52	700	172	60
12137	1537	628	43	482	86	17
12141	*	*	*	*	*	*
12150	1094	436	314	82	34	6
12301	*	*	*	*	*	*
12302	29218	11264	9682	1248	296	37
12303	27635	. 11550	10750	583	192	24
12304	20557	8574	8530	36	0	8
12305	5631	2882	2876	0	0	6
12306	22848	9399	8890	350	135	24
12307	7834	3782	3782	0	0	0
12308	14782	6629	6610	15	3	Ö
		· -			•	•

11. han Water Sources

		Urban Waler Sauce
West New York	SURFACE WATER	
West Orange	CONJUNCTIVE	
Woodbridge	GROUND WATER	Soft; not fluoridated.
CITY	WATER SOURCE	WATER QUALITY
Albany	SURFACE WATER	Alkaline, very soft; 43 paper mill; not fluoridated.
Amsterdam	SURFACE WATER	Acid, very soft; not fluoridated.
Auburn	SURFACE WATER	Alkaline, hard; not fluoridated.
Batavia	SURFACE WATER	Alkaline, soft; fluoridated.
Binghamton	SURFACE WATER	Neutral, hard; fluoridated.
Buffalo	SURFACE WATER	Alkaline, hard; fluoridated.
Cheektowaga	SURFACE WATER	
Cohoes	SURFACE WATER	
Corning	GROUND WATER	******
Cortland	GROUND WATER	Alkaline, medium hard; not fluoridated.
Dunkirk	SURFACE WATER	Alkaline, moderately hard; not fluoridated.
Elmira	SURFACE WATER	Alkaline; fluoridated.
Endicott	GROUND WATER	
Freeport	GROUND WATER	
Geneva	SURFACE WATER	Alkaline, hard; not fluoridated.
Glen Cove	GROUND WATER	
Glen Falls	SURFACE WATER	Alkaline, very soft; not fluoridated.
Gloversville	SURFACE WATER	Alkaline, very soft; fluoridated.
Hempstead		
HornelI	SURFACE WATER	Neutral, soft; not fluoridated.
Huntington	GROUND WATER	
Irondequoit	SURFACE WATER	
Ithaca	SURFACE WATER	
Jamestown	GROUND WATER	Neutral, hard; fluoridated.
Johnson City Kenmore	GROUND WATER SURFACE WATER	
Kingston	SURFACE WATER	Alkaline, very soft; not
Lackawanna		fluoridated.
Levittown	SURFACE WATER GROUND WATER	
Lockport	SURFACE WATER	Alkaline, soft; fluoridated.
Long Beach	GROUND WATER	Alkaline, Solt, Iluoliuateu.
Lynbrook	GROUND WATER	
Mamoroneck	SURFACE WATER	Neutral, soft; fluoridated.
Middletown	CONJUNCTIVE	Neutral, soft; not fluoridated.
Mount Vernon	SURFACE WATER	Acid, soft; not fluoridated.
Newburgh	SURFACE WATER	
New Rochelle	SURFACE WATER	•
New York	CONJUNCTIVE	Alkaline, soft; fluoridated.
Niagara Falls	SURFACE WATER	Alkaline, hard; fluoridated.
North Tonawanda	SURFACE WATER	Medium hard.
Ogdensburg	SURFACE WATER	Normal; fluoridated.
Olean	SURFACE WATER	Neutral, soft; fluoridated.
Ossining	SURFACE WATER	Alkaline, very soft; not fluoridated.
Oswego	SURFACE WATER	Alkaline, hard; fluoridated.
Peekskill	SURFACE WATER	Neutral, soft.
Plattsburg	SURFACE WATER	Acid, hard; fluoridated.
Port Chester	SURFACE WATER	Alkaline, very soft; not

Alkaline, very soft; not

SURFACE WATER

SURFACE WATER Alkaline, soft; fluoridated. Poughkeepsie Neutral, soft. Rochester SURFACE WATER Rockville Centre GROUND WATER SURFACE WATER Chlorine-Complete filtration. Rome Saratoga Springs SURFACE WATER Alkaline, soft. Alkaline, hard; not fluoridated. Schenectady GROUND WATER Alkaline, soft; not fluoridated. SURFACE WATER Syracuse SURFACE WATER Troy Neutral, soft; fluoridated. SURFACE WATER Acid, soft; fluoridated. Utica Valley Stream GROUND WATER Watertown SURFACE WATER Alkaline, soft; fluoridated. Watervliet SURFACE WATER White Plains CONJUNCTIVE Alkaline, soft; fluoridated. 2 sources (1 acid-very soft; 1 acid SURFACE WATER Yonkers hard); fluoridated. PENNSYLVANIA CITY WATER SOURCE WATER QUALITY Abington SURFACE WATER Aliquippa GROUND WATER Allentown CONJUNCTIVE Alkaline, hard; not fluoridated. Altoona SURFACE WATER Alkaline, medium soft; not fluoridated Ambridge GROUND WATER Varies from 4 to 15 gr.; not fluoridated Beaver Falls SURFACE WATER Bethlehem SURFACE WATER Neutral, very soft; fluoridated. Braddock SURFACE WATER Bradford CONJUNCTIVE Acid, very soft. Butler SURFACE WATER Alkaline, soft; not fluoridated. Carbondale SURFACE WATER SURFACE WATER Carlisle Alkaline, hard. Chambersburg SURFACE WATER Acidic, very soft; fluoridated. SURFACE WATER Charleroi Cheltenham SURFACE WATER Chester SURFACE WATER Alkaline, soft; not fluoridated. Clairton SURFACE WATER Dunmore SURFACE WATER Duquesne GROUND WATER Alkaline, soft; not fluoridated. Easton CONJUNCTIVE Alkaline, soft; fluoridated. Alkaline, hard; fluoridated. Erie SURFACE WATER SURFACE WATER Greensburg Alkaline, soft; not fluoridated. Harrisburg SURFACE WATER Alkaline, soft; fluoridated. Haverford SURFACE WATER Hazleton CONJUNCTIVE Very soft. Jeannette SURFACE WATER Johnstown SURFACE WATER Acid, very soft. Kingston SURFACE WATER Lancaster SURFACE WATER Alkaline, hard; fluoridated. Lebanon SURFACE WATER Alkaline, soft; fluoridated. Lower Merion SURFACE WATER

fluoridated.

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M Joseph Parsanello OF Jerr 5 16 9:	zho Water District	
JOB: Genestry HKS		DATE: 10 -12-93
JOB NUMBER: 1576046		TIME: 230
CONCERNING: rearest public a	ater supply w	ell
AND DECIDED:		
AND DECIDED: left message for hu	m to call me	
Jericho # # 11 NYS # 5. - located on Motts Cove 9	Rd in Korlyn	· Harbor
is used only in si	uner when	demand is
higher		
- draws chan water	Loyd Aguifu	ment
Jencho #27 located on	Slen Cove	Rd in Green
	- 3 mules lan	1:6
- Ab	- Z musi pro	nge
Jencho # 6, 7, 16 all w Jocaked on Whe	other zooft of	each other
Jocated on who	atley Road	in Brookvil
that 2200 ft earl of	site >>	5201
that 2200 ft earl of	site >>	5201
thank 2200 ft earl of	site >>	5201
thank 2200 ft earl of	site >	5201 Tuaterr

JERICHO WATER DISTRICT SOURCES OF SUPPLY

J.W.D. <u>NUM</u> BER	NYSDEC NUMBER	TOTAL DEPTH_	APPROVED CAPACITY G.P.M.	EFFECTIVE CAPACITY	MGD	FORMATION	1990 STATIC WATER LEVEL FT.*
3	N 198	628	1,130	1,050	1.51	Magothy	165
4	N 199	611	1,120	1,000	1.44	Magothy	172
(\ 5	N 570	600	1,200	1,000	1.44	Magothy	158
\	N 2474	514	1,200	1,200	1.73	Magothy	154
\searrow_7	N 3475	484	1,200	1,200	1.73	Magothy	134
9	N 4245	565	1,200	1,200	1.73	Magothy	147
11	N 5201	504	1,200	1,200	1.73	Lloyd	34
12	N 6092	640	1,200	1,200	1.73	Magothy	186
13	N 6093	605	1,200	1,200	1.73	Magothy	166
14	N 6651	615	1,200	1,200	1.73	Magothy	152
√ 16	N 7446	490	1,200	1,200	1.73	Magothy	144
17	N 7593	473	1,200	1,200	1.73	Magothy	207
18	N 7772	568	1,200	1,200	1.73	Magothy	193
19	N 7773	565	1,200	1,200	1.73	Magothy	191
20	N 10149	600	1,390	1,388	2.00	Magothy	172
22	N 7781	459	1,200	1,200	1.73	Magothy	150
23	N 8043	683	1,200	1,200	1.73	Magothy	143
25	N 8355	595	1,388	1,388	2.00	Magothy	207
→ 27	N 8713	377	1,388	1,388	2.00	Magothy	111
29	N 11107	585	1,388	1,388	2.00	Magothy	153
30	N 11295	535	1.388	1,388	2.00	Magothy	157
			26,040 (37.5 mgd)	25,590 (36.8 mgd)			

^{*} Distance in feet from pump base down to static water level

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38 SANDY HOLLOW ROAD • POST OFFICE BOX 432 • PORT WASHINGTON, NEW YORK 11050 • (516) PO 7-0171

COMMISSIONERS:

BETTY FORQUER, Chairman THOMAS J. MURRAY JR., Secretary DAVID R. BRACKETT, Treasurer LAWLER, MATUSKY & SKELLY ENGINEERS

American Water Works Association Member

RITA FRASCA, Office Manager STEPHEN J. NAKELSKI, Superintendent

JUL 26 1993

July 21, 1993

Lawler, Matusky & Skelly Engineers Environmental Science & Engineering Consultants One Blue Hill Plaza - PO Box 1509 Pearl River, New York 10965

Attn: Ms. Christina Fern Project Scientist

Re: Hazard Ranking System Study

for New York State Department of Environmental Conservation

Dear Ms. Fern:

In accordance with your request, contained in the attached letter of July 2, 1993, we return herewith your map on which we have shown the locations of the District wells. An attached sheet lists the District's operating wells and shows their depths. In addition, the District has approximately 8,550 water service accounts.

Please furnish all data concerning the analysis of ground water monitoring wells at the site, or other data that caused the South Glenwood Landing site to be placed on the DEC list of hazardous waste disposal sites.

Very truly yours,

BOARD OF COMMISSIONERS OF THE PORT WASHINGTON WATER DISTRICT

Stephen J. Nakelski Superintendent

Stylin 1 12 Loke

SJN:map

Encls: (3)

cc: Thomas J. Casey

PORT WASHINGTON WATER DISTRICT

DEC No.	PWWD No.	Year Drilled	Depth	Elev. M.P.	Cap. GPM	Screen Elev.	Location
-N35	N35	1932	387	17.24	OBS	287-38 7	Sandy Hollow Rd.
/N 819	S.H. 6	1933		DESTRO	YED -		Sandy Hollow Rd.
√N820	S.H. 7	1933	-90	DESTRO	YED -	■,	Sandy Hollow Rd.
-N821	S.H. 8	1933	-90	DESTRO	YED		Sandy Hollow Rd.
N 822	S.H. 9 (UNSD)	- 1933	 90	20.00	ART	60-90	Sandy Hollow Rd.
N823	S.H. 10	1933	90	DESTRO	YED		Sandy Hollow Rd.
√ N824 —	S.H. 1	1933	392	DESTRO	YED	-	Sandy Hollow Rd.
√ N82 5 -	S.H. 2	1933	394	DESTOY	ED 		Sandy Hollow Rd.
, N826 -	з.н. з	1933	372	DESTRO	YED		Sandy Hollow Rd.
$\sqrt{\text{N1715}}$	√Neulist 1	1941	490	102.87	510	430-480	Neulist Ave.
N1716	√Neulist 2	1941	483	108.34	550	425-475	Neulist Ave.
/ N2030	√Neulist 3	1945	218	108.39	450	190-215	Neulist Ave.
✓ N2101	Neulist OBS (UNSD)	1945	201	105.20	OBS	-191- 201	Neulist Ave.
√N2052	$^{ m J}$ Hewlett 4	1945	331	158.31	750	275-325	Birchdale La.
√N4223	√Southport 5 (UNSD)	1952	330	197.57	700	277-330	Emerson Ct.
1 N4859	S.H. 3 (UNSD)	1954	389	- 31.44	250-	355-385	Sandy Hollow Rd.
√N4860	√S.H. 1	1954	89	23.22	500,	60-89	Sandy Hollow Rd.
, N5209	√Bar Beach 6	1954	293	194.59	450	260-300	Bar Beach Rd.
/N5210	Bar Beach OBS	-1954	302	200.98	OBS	292-302	Bar Beach Rd.
√N52 28	Hewlett OBS	1945	-334	160.24	OBS-	324-334	-Birchdale La.
N5530	Wysong OBS	1954	382	63.20	-033	372-382	Wysong's Hollow
√N5876	√Ricks 7	1955	245	85.85	400	168-238	Chestnut Rd.
√N5918	Ricks OBS	1955	188 -	95.97	OBS -	178-188	Chestnut Rd.
N6087	√S.H. 2	1956	9 2	22.71	500	62-92	Sandy Hollow Rd.
$\sqrt{N7551}$	Maralage of the	1062		466-64	400	-375-4 69	C. Morley Park
	Mostoy V	1765	450	147.10	1400	500-4 54	C. Morley Park
× N7553	Morley OBS	-1964	-406	157.98	083	396-406	C. Morley Park
√ N 7554	Morley OBS	1964	464	195.57	OBS	454 464	- G. Morley Park
/N9809	√Stonytown 10	1980	527	113.47	1350	437-527	Stonytown Rd.

NOTES: UNSD-unused, OBS-observation ART-artisian (flowing), depth & elevations are in feet. W.Hamm 060490

* Wells located out of District.

Upper gland

9/21/93 - 5. H. I and 5. H. 2 located in Magothy per PWWD

	REFERENCE 11

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CITY HALL GLEN COVE, N.Y. 11542

DONALD P. DERIGGI MAYOR AND SUPERVISOR ANGELO MARTINO SUPERVISOR 676-2297

LOUIS D'AMBROSIO
SUPERINTENDENT
DEPARTMENT OF PUBLIC WORKS

July 20, 1993

Ms. Christina Fern
Project Scientist
Lawler, Matusky & Skelly Engineers
One Blue Hill Plaza
P.O. Box 1509
Pearl River, New York 10965-8509

Dear Ms. Fern:

Enclosed please find the information you requested.

I have also enclosed maps and have highlighted where our wells are located.

If you need any additional information, please feel free to contact me.

Sincerely yours,

ANGELO MARTINO

Supervisor

AM/ag Enclosure

GLEN COVE WATER DEPARTMENT

SOURCES OF SUPPLY

								1990
					EFFECTIVE			STATIC
WIST FROM	GCWD	NYSDEC	TOTAL	CAPACITY	CAPACITY			WATER
OFT & - MILES	NUMBER	NUMBER	DEPTH	G.P.M	G.P.M	MGD_	FORMATION	LEVEL FT.(4)
	Site							•
	Carney St. #21	N8326	168'	1,400(1)	0	-	Magothy	44.33
	Roxbury	N5762	279'	1,400	1,400(3)	2.02	Magothy	87.5
-	Seaman Rd. #1	N3892	250'	700(1)	0	0	Magothy	102.5
L	Seaman Rd. #2	N5261	235'	1,400(1,2)	0	0	Magothy	
J	/Morgan Is.	N835	303'	450(2)	0	0	∐oyd	8.7
V	Duck Pond #30	N9210	275'	1,400	1,400(3)	2.02	Magothy	91.25
U	Duck Pond #31	N9211	269'	1,400	1,400(3)	2.02	Magothy	90
·	/Kelly St. 💆	N9334	298	1,390	1,390(3)	2	Magothy	78
				9,540	5,590			
				(13.74 MGD) (8.06 MGD)			1

- (1) Restricted because of organic contamination
- (2) Well is presently inoperative
- (3) Active well
- (4) Distance in feet from pump base down to static water level
- (5) kally-Ain steippen 1889

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ROSLYN WATER DISTRICT

Douglas W. Pierce, Chairman A. Jack Russo, Treasurer William A. Trottier, Secretary

Carmine Cipriano, Business Manager

24 WEST SHORE ROAD ROSLYN, NEW YORK 11576-1448 (516) 621-7770 Fax (516) 621-9630

July 8, 1993

Ms. Christine Fein Lawler, Matusky & Skelly Engineers One Blue Hill Plaza P.O. Box 1509 Pearl River, New York 10965

Re: Water Supply Wells File # 576-047

Dear Ms. Fein:

In reply to your letter of July 2, 1993, I have marked the map submitted in blue showing our well sites.

The number of accounts served by the Roslyn Water District are 5,776.

I am enclosing a schedule of wells showing additional information requested.

Please contact me at (516) 621-7770 if additional information is needed.

Very truly yours, Roslyn Water District

Carmine Cipriano Business Manager

ROSLYN WATER DISTRICT

SOURCES OF SUPPLY

			APPROVED			·	1990 STATIC
R.W.D.	NYSDEC		TOTAL	CAPACITY	EFFECT	TIVE	WATER
NUMBER_	NUMBER	DEPTH	G.P.M	CAPACITY	MGD	FORMATION	LEVEL FT.**
Site							
1	[N 1870	260	207			Magothy	
	[N 1871	260	207			Magothy	
	[N 1872	260	50			Magothy	
	[N 1873	260	207	1100]	1.58	Magothy	Flowing
	[N 1874	260	207			Magothy	
	[N 1875	260	207			Magothy	
	[N 1876	260	207			Magothy	
	[N 1877	555	207			Lloyd	
2*	N 2400	444	1000*	980*	1.41	Magothy	118
3	N 4265	490	1200	1200	1.73	Magothy	141
4	N 4623	503	1200	1100	1.58	Magothy	225
5	N 5852	482	1200	1200	1.73	Magothy	185
6	N 7104	436	1200	1200	1.73	Magothy	101
7	N 7873	530	1200	1200	1.73	Magothy	204
8	N 8010	448	1200	1200	1.73	Magothy	184
			9,699*	9,180*			
			8,699	8,200			
			(13.96 mgd)	(13.22 mgd)			
			12.53 mgd	11.81 mgd			

^{*} Well No. 2 not presently in service

^{**} Distance in feet from pump base down to static water level

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Renchey PPESCORE NUMBER: 576046 NCERNING: DECIDED: Anthony Grella Superior fent Sea Cliff weel 610' 1/07d has for 4266 acco Mend map to Menthony Crilla Sea Cliff Water Co 325 Prospect Ave Sta Cliff N / 1/579 SIGNED: Ch. SIGNED:	MEMORANDUM CONVERSAT
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Sea Cliff West Co Sea Cliff West 610' Hord has for all population conved 17500 A for 4266 acco send may to Inthony Orilla Sea Cliff Water Co 3251 Prospect Ave Sta Cliff N y 11579 Signed: Ch	
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JOB NUMBER: 576 04			TIME:	~1030Am
CONCERNING: well				
CONCERNING.		-		
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9-21-93 - le/1	L mers a	ge for	him to co	all me
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CC:		SIGNED:		
			ar Matueky	& Skelly Engineer

Lawler, Matusky Environmental Science & Engineering Consultants Skelly Engineers

JOHN P. LAWLER, P. E.
FELIX E. MATUBKY, P. E.
MICHAEL J. BKELLY, P. E.
KARIM A. ABOOD, P. E.
PATRICK J. LAWLER, P. E.
FRANCIB M. MOGOWAN, P. E.
THOMAB L. ENGLERT, P. E.
PETER M. MOGRODDY, P. E.
THOMAS E. PEASE, P. E.

ONE BLUE HILL PLAZA
P.O.BOX 1509
PEARL RIVER, NEW YORK 10985
(914) 735-8300
FACSIMILE (814) 735-7488

2 July 1993 File No. 576-046

Mr. Anthony Grella Sea Cliff Water Co. 325 Prospect Avenue Sea Cliff, New York 11519

Re: Water Supply Wells

Dear Mr. Grella:

Lawler, Matusky & Skelly Engineers (LMS) has been contracted by the New York State Department of Environmental Conservation (NYSDEC) to evaluate Hazard Ranking System (HRS) prescores. Prescores are conducted to determine whether sites are eligible to be nominated for the National Priorities List. As part of the prescore process groundwater usage (particularly drinking water) within a 4-mile radius of the site is evaluated.

I have enclosed a map with a site designated (in pink) and 1-mile radius increments also drawn. Please use the enclosed map to locate (mark in some color other than black) public or private drinking water supply wells, and return the map to me. Also, any information on any private wells in use would be helpful. If you have any questions, please call me at 914/735-8300. Your help is very much appreciated.

Very truly yours, Churtun tern

Christina Fern
Project Scientist

CF:cmr enc

7/29/93

I HAVE MARKED THE MAD AS REQUESTED,

IF YOU HAVE ANY QUESTIONS PLEASE CONTACT

ME MT (516) 676-1166.

Young Stulle

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ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS

ONE BLIE HEL PLAZA

POST OFFICE BOX 1809

PENETREX - HRS
GLEN COVE WATER DEPT.

•	WELL No.	GCWD No.	LOCATION	DISTANCE- TO SITE (MILES)	DEPT# (FT.)	AQUIFER	REMARKS ,
-	51	N3892	SEAMAN RO.	, 4.0	250	MAGOTHY	PESTRICTED
	52	N5261	SEAMAN RD	4.0	235		*RESTRICTED
	30	N9210	DUCK POND	34	275		ACTIVE
***	31	1/9211	DUCK POND	3.5	269		AC7102 -
	21	N8326	CARNEY ST.	2.2	168		ACTIVE
	21a		CARNEY ST.	2.2			*RESTRICTED
-	216	_	CARNEY ST.	2.2			* RESTRICTED
	101	N9334	Kelly St.	3.7	298		AIR STRIPPER
	102	_	NANCY G.	3.2	300	\	ACTIVE
-	103	N835	HORGAN ISL.	_	303	LLOYD	OUTSIDE FOUR MILE PADIUS

^{*} RESTRICTED BECAUSE OF ORGANIC CONTAMINATION.

LAWLER, MATUSKY & SKELLY ENGINEERS

PENETREX - HRS

SEA CLIFF WATER DISTRIC

WELL No.	DEC No.	LOCATION	DISTANCE TO SITE (MILES)	Дертн (FT.)	Aquirzr	REMARKS
104	_	SEA CLIFF	1.75	? 610/	SEA CHEEW.C.	1400
105	_	GLEN HEAD	1-50	?310	Magothy C.	1380
106 —	-	NORTH SHURLE COUNTRY CLUB	0.60	? 180	Mug o Hy	
107	-	CEDAR BRK. CLUB	2.50	?	PRIVATE	
108	_	COLF COURSE	1.75	?	Perrate	

Village of old Westbury

! Private 3 golf comes un gutier

Elen Med - supplied potable up till I year ago imquition Celle knock un gatron noth shore county Club & Superinaut 930 AM or burch 6760500 Alen Plan 6764050

SA DATE 9/9/93	LAWLER, MATUSKY & SKELLY ENGINEERS	SHEET NO. <u>3</u> 0	<u>, </u>
	ENVIRONMENTAL SCIENCE & ENGINEERING CONCLUTANTS		
CHKD, BY DATE	ONE BLUE HLL PLAZA POST OFFICE BOX 1509	JOB NO. 576-09	<u> </u>

PENETREX - HRS
ROSLYN WATER DISTRICT

—	WELL No.	NYSDEC No.	LOCATION	DISTANCE to SIZE (miles)	DEPTH (FT.)	AQUITER	REMARKS
***	/	N1870	ROSLYN RD. E NORTHEN BLV	1.5	260	MAGOTHY	
		N1871					
		N1872					
-		N 1873					
		N1874					
		N1875					
		N1876				↓ ↓	
		N1877	\	\downarrow	727	LLOYD	
	2	N2400	ALBERTSON PD.	2.75	444	MAGOTHY	No Presently IN SERVICE
•	3	N4265	FAST HILLS (PUMP STA.)	2.25	490		
_	4	N4623	RENAISSANCE CONTRY CLUB	2.65	503		
-	1	N5852	BIRCH DR.	1.75	482		
•	6	N7104	GLEN' COUR RD.	1.65	436		
	7	N 7873	EAST HILLS (WATER TK)	2.50	530		
	8	N8010	WILLIS RD.	2.10	448	٧	,

	LAWLER, MATUSKY & SKELLY ENGINEERS	./
BY SA DATE 9/9/93	ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	SHEET NO. 4 OF OF
CHKD. BY DATE	ONE BLUE HILL PLAZA POST OFFICE BOX 1508 PEARL RIVER, NEW YORK 10985	JOB NO. 376-046-0076
	PER CHICA, ILLI	

PENETREX - HRS
PORT WASHINGTON WATER DISTR.

WELL No.	PWWD No.	LOCATION	DISTANCE to SITE (MILES)	DEPTH (FT.)	AQUIFER	REHARKS
5 H-1	N 4860	SANDY HALLOWRD.	2.6	89	Pulled	
5H·2	N6087	SANDY HALLOW RD.	2.6	92		
08-6	N5009	BAR BEACH RD.	1.5	293		
NEULIST:1	N1715	NEULIST AUE	2./	490		
NEULIST. 2	N1716	NEULIST AUZ.	2./	483		
NEULIST. 3	N 2030	NEULIST Ave.	2-1	2/ 8		
Picks-7	N5876	CHESTNUT RD.	2.25	248		
SOUTHPORT.5	14223	EMERSON CT.	1.75	330		
STONYTOWN · 10	N 9809	STONYTOWN RD.	1.9	507		
HEWLETT.4	N2052	BIRCHDALE LA.	1.5	331	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

			1	1	
 SA	DATE	9	9	93	
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LAWLER, MATUSKY & SKELLY ENGINEERS

ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS

JOS NO. 576-046-8016

CHKD. BY____ DATE __

ONE BLUE HILL PLAZA POST OFFICE BOX 1509 PEARL RIVER, NEW YORK 10985

PENETREX - HAZARD PANKING SYSTEM

DISTANCE (MILES)	FROM SITE:	NO.OF WELLS
025		0
.2550		0
.5075	×	l
.75 - 1.0		0
1.0 - 2.0	\times	17
2.0 - 3.0	××× ××××××××××××××××××××××××××××××××××	15
3.0 - 4.0	× × × × × × × ×	€ 8

TOTAL = 3941

EV SA DATE 9/10/93	LAWLER, MATUSKY & SKELLY ENGINEERS	SHEET NO OF
·· —— ··· · — /	ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	= 21 -01/1 Roll
CHKD, BY DATE	ONE BLUE HILL PLAZA POST OFFICE BOX 1508 PEARL RIVER, NEW YORK 10885	JOB NO. 5/6-046-00/6

SUBJECT PENT-TREX - HRS

Town	POPULATION	PRILATE WELLS	
MANHASSET	19048	7	
PORT WASHINGTON	27474	0	
ALBERTSON	7056	5	
GLEN COLE	24969	3	
GLEN HEAD	13592	14	
GLENWOOD LANDING	*	*	
GREENVALE	1278	/	
LOCUST VALLEY	6932	92	
OLD WESTBURY	4552	6	
Ersixi	10890	3	
SEA CLIFF	5069 120 560	13	

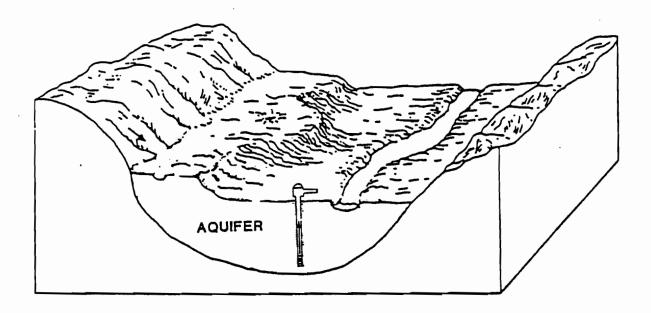
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Department of Environmental Conservation

NEW YORK STATE WELLHEAD PROTECTION PROGRAM



Submittal to United States Environmental Protection Agency

New York State Department of Environmental Conservation MARIO M. CUOMO, Governor THOMAS C. JORLING, Commissioner

September 1990



TABLE 3.1. WELLHEAD PROTECTION AREA DELINEATION SUMMARY

Geographic Region	Aquifer Area	Wellhead Protection Area Baseline Delineation
Long Island	Magothy & Lloyd Aquifers	Deep Flow Recharge Area
	Glacial Aquifer	Simplified Variable Shape: 1,500 ft. radius upgradient 500 ft. radius downgradient
Upstate	Unconsolldated Aquifers	Aquifer Boundaries (land surface)
	Bedrock Aquifers	Fixed Radius: 1,500 ft. radius

numerous 3 to 12 square mile WHPA's (1-2 mile radius) for non-community wells intersect or nearly intersect across the State. It must be recognized that all fresh groundwaters in bedrock aquifers are classified as GA groundwaters and thus are already protected by substantial statewide protection programs which use rigorous amblent water quality standards in their design.

3. Mapping and Case Studies:

Mapping will be performed according to the phasing priorities described in Section 3.3. Case studies of fixed radius approaches are not considered to be of significant benefit. As proposals for revisions based on alternative approaches are submitted to the Department of Environmental Conservation, they will be evaluated for potential use as models for comparable hydrogeologic conditions.

4. Public Water Supply Significance:

Relatively few municipal community systems utilize bedrock aquifers in New York State and those that do are generally with low population dependence. Public water supplies in bedrock aquifers are typically non-community wells serving small numbers of people.

Magothy and Lloyd Aquifers - Long Island

WHPA Definition:

The boundaries of the wellhead protection area for public water supplies using the Magothy and Lloyd aquifers are the boundaries of the Deep Flow Recharge Area as recognized by the Department of Environmental Conservation. Refinements within the overall WHPA may include further definition of Wellfield Management Areas, pending approval by the Department of Environmental Conservation.

2. Rationale:

The Deep Flow Recharge Area was determined to be the most important overall groundwater protection area for wells in the Magothy and Lloyd aquifers in the Long Island Groundwater Management Program already adopted and certified by the Governor of New York as an element of the New York State Water Quality Management Program. The delineations have also been adopted in the Suffolk County Sanitary Code.

3. Mapping and Case Studies:

Mapping of the Deep Flow Recharge Area is already completed. Additional case studies are not considered appropriate.

4. Public Water Supply Significance:

Most public water in Nassau County is withdrawn from the Magothy aquifer. The majority of public water supplies in Suffolk County are also withdrawn from the Magothy aquifer. Of those public water supplies in Suffolk County utilizing the Glacial aquifer, approximately half are located within the Deep Flow Recharge Area. Thus, these wells are included within the overall wellhead protection area for the deeper aquifers.

Glacial Aguifer - Long Island

WHPA Definition:

The boundaries of the wellhead protection area for public water supplies using the Glacial aquifer are defined as a fixed variable shape zone with a fixed radius in the upgradient groundwater flow direction of 1,500 feet and a fixed radius in the downgradient direction of 500 feet. Revisions may be made, pending approval by the Department of Environmental Conservation.

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M Richard Schween OF Fish Statistics Dept & Commerce; National	MEMORANDUM OF CONVERSATION
JOB: finitur Oceanic : Atmospheric DAT	E: 10-14-9-3
JOB NUMBER: 576046 National Marine Fisher TIM	
CONCERNING:	
Fishing in Henrystead Harbor	
AND DECIDED:	
301 7132316 David Sullivar	<u></u>
talk to Port Agent	
Fred Blossom 516 475 6988	
- Called life merage for \$10550m	
10-15-43	
Fred Blossom = talk to NYSDEC	5/6 444 0305
Tom Drum or Paul Chevallier	
V P. 0 Ch	
Paul Chevallièr ?	in clused
Shell fishing in region. Most of the	Lis Cose
Hempsteid Bay has a conditional. Henrys	tead 19 ay
has intermitant pollution coursed by a	am face / singace
sheel Fish Production 1797 from al	fecer etc
(clams, cysters, Deselops, Conch - Hem	nelegel Tom Chy
Mustly Oyster Bay :	pspeed journey
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Hand Clarks 3840 bursel @# 275960 54t clam 151 bursels eff 8591.	mkt value
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- Area is 75% Cyster Buy	
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CC:SIGNED: Churt	er
CC:SIGNED:	
Lawler, Matusk	y & Skelly Engineers

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TIDAL WETLANDS MAP

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

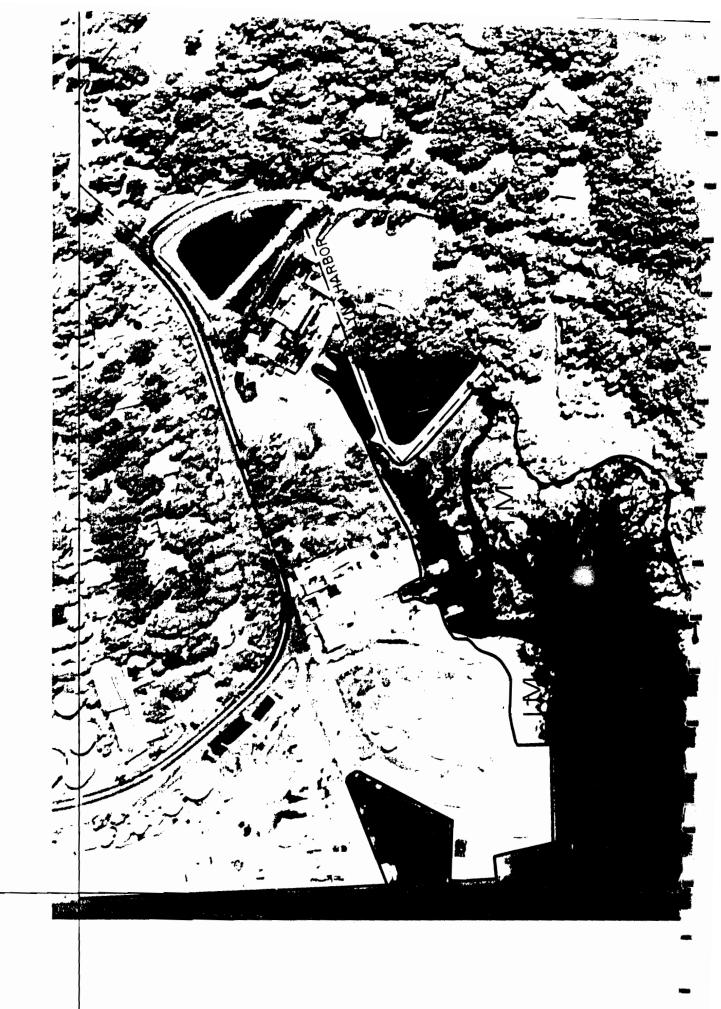
MAP 614-518

INDEX MAP NUMBER 2

COPIES OF TIDAL WETLAND MAPS AND INDEX MAPS ARE AVAILABLE FROM NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION BUILDING NUMBER 40, STATE UNIVERSITY OF NEW YORK STONY BROOK, NEW YORK 11794

SCALE 1:2400

200	0	200	400		600	800 FEET
	50	0	50	100	150 METERS	

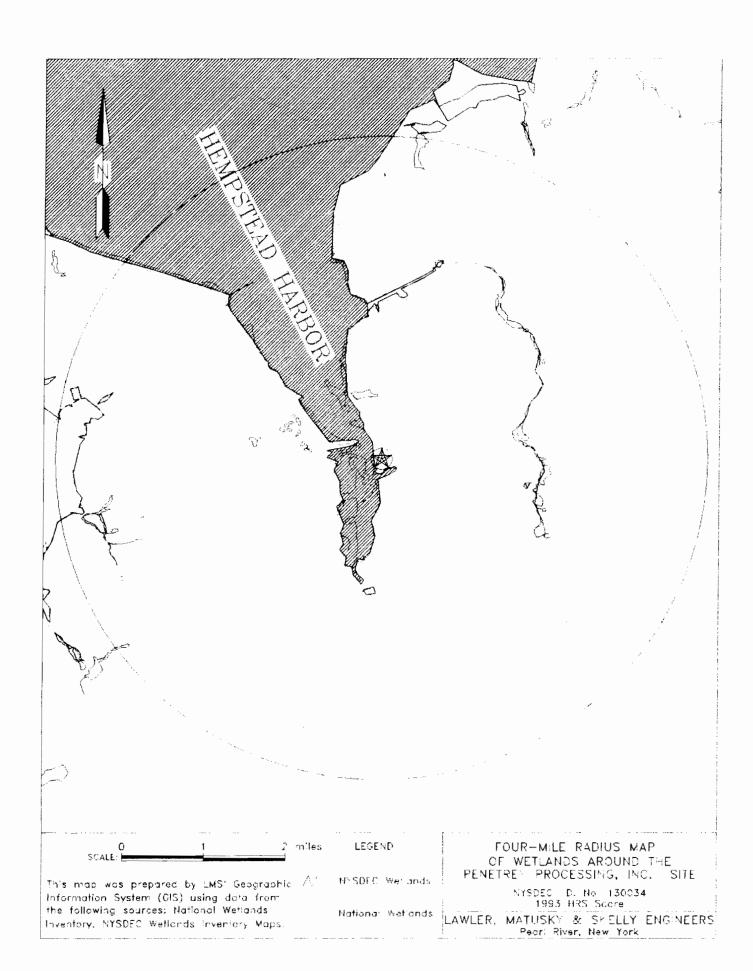


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PENETREX WETLANDS COUNT

	WETLANDS			
DISTANCE FROM THE SITE (miles)	FEDERAL	NYSDEC	TOTAL	
0 - 0.25	5	0	5	
0.25 - 0.5	5	0	5	
0.5 - 1	16	5	21	
1 - 2	38	23	61	
2 - 3	63	25	88	
3 - 4	48	7	55	

Reference: LMS Geographic Information System (GIS) using data from NWI Maps and NYSDEC Wetland maps.

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PENETREX NEAREST:

Wetland: Distance: 837 ft

Direction: SE

Area: 444,444 ft² or 10.2 acres

POWZH: Palustrine, open water, intermittently exposed permanent,

diked, impounded

Reference:

NWI Map, Sea Cliff, NY Quadrangle Photo Revised 1981

School:

ENE - 3311 ft

Glenwood Elementary School

Reference:

USGS Topo. Sea Cliff, NY

Residence:

Border Property < 200 ft

Reference:

LMS GIS

Habitat:

5844 ft NNW; waterfowl nesting area

Reference:

NYSDEC Natural Heritage Program, 15 July 1993

2200 ft east; Jericho Water District No. 5201

Well:

3674 ft - NNW North Shore Country Club Well

Reference:

USGS Topo. Sea Cliff, NY; Reference 9

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New York State Department of Environmental Conservation

Wildlife Resources Center Information Services 700 Troy-Schenectady Road Latham, New York 12110-2400



Commissioner

July 16, 1993

Christina Fern Lawler, Matusky & Skelly Engineers One Blue Hill Plaza, P.O. Box 1509 Pearl River, New York 10965

Dear Ms. Fern:

We have reviewed the New York Natural Heritage Program files with respect to your recent request for biological information concerning three inactive hazardous waste sites, as indicated on your enclosed maps, located throughout the New York City and Long Island Area of New York State.

Enclosed is a computer printout covering the area you requested to be reviewed by our staff. The information contained in this report is considered <u>sensitive</u> and may not be released to the public without permission from the New York Natural Heritage Program.

Our files are continually growing as new habitats and occurrences of rare species and communities are discovered. In most cases, site-specific or comprehensive surveys for plant and animal occurrences have not been conducted. For these reasons, we can only provide data which have been assembled from our files. We cannot provide a definitive statement on the presence or absence of species, habitats or natural communities. This information should not be substituted for on-site surveys that may be required for environmental assessment.

This response applies only to known occurrences of rare animals, plants and natural communities and/or significant wildlife habitats. You should contact our regional office, Division of Regulatory Affairs, at the address enclosed for information regarding any regulated areas or permits that may be required (e.g., regulated wetlands) under State Law.

If this proposed project is still active one year from now we recommend that you contact us again so that we can update this response.

Sincerely

Burrell Buffing

NY Natural Heritage Program

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Encs.

cc: Reg. 1 & 2, Wildlife Mgrs.

Reg. 1, Fisheries Mgr.

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United States Department of the Interior



FISH AND WILDLIFE SERVICE 3817 Luker Road Cortland, New York 13045

LAWLER, MATUSKY & SKELLY

July 14, 1993

JUL 1 9 1993

Ms. Christina Fern Project Scientist Lawler, Matusky & Skelly Engineers One Blue Hill Plaza P.O. Box 1509 Pearl River, NY 10965

Dear Ms. Fern:

This responds to your letter of June 24, 1993, requesting information on the presence of endangered or threatened species in the vicinity of the following inactive waste sites:

- 1. Cardwell Condenser, located on the north side of East Montauk Highway in Lindenhurst, Suffolk County, New York.
- 2. Penetrex Processing, located on West Street in Glenwood Landing, Nassau County, New York.
- 3. Pergament Mall, located along Route 440 (Richmond Avenue) near New Springville, Staten Island, Richmond County, New York.

Except for occasional transient individuals, no Federally listed or proposed endangered or threatened species under our jurisdiction are known to exist in the respective project impact areas. Therefore, no Biological Assessment or further Section 7 consultation under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) is required with the U.S. Fish and Wildlife Service (Service). Should project plans change, or if additional information on listed or proposed species becomes available, this determination may be reconsidered.

The above comments pertaining to endangered species under our jurisdiction are provided pursuant to the Endangered Species Act. This response does not preclude additional Service comments under the Fish and Wildlife Coordination Act or other legislation.

For information on the Federally listed endangered shortnose sturgeon (Acipenser brevirostrum), and other listed marine species that be found in waters surrounding the project sites, you should contact Mr. Douglas W. Beach, National Marine Fisheries Service, Habitat Conservation Branch, One Blackburn Drive, Gloucester, Massachusetts 01930-2298.

If you have any questions regarding this letter, contact Tom McCartney at (607) 753-9334.

Sincerely,

Acting For Leonard P. Corin Field Supervisor

Dower & Stiences

NYSDEC, Stony Brook & Long Island City, NY (Regulatory Affairs)
 NYSDEC, Latham, NY
 COE, New York, NY
 EPA, Chief, Marine & Wetlands Protection Branch, New York, NY

NMFS, Gloucester, MA

	REFERENCE 22

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POPULATION COUNT - PENETREX*

RADIUS (Miles)	POPULATION	
0 - 0.25	393	
0.25 - 0.5	1,339	
0.5 - 1	3,050	
1 - 2	17,115	
2 - 3	37,894	
3 - 4	42,733	

Reference:

Census of Population and Housing, 1990: Summary Tape File 1A on CD-ROM (New York). Machine-readable data file. Prepared by the Bureau of the Census - Washington: The Bureau [producer and distributor], 1991.

^{*}These data were processed through LMS' Geographic Information System (GIS).

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	REFERENCE 23	

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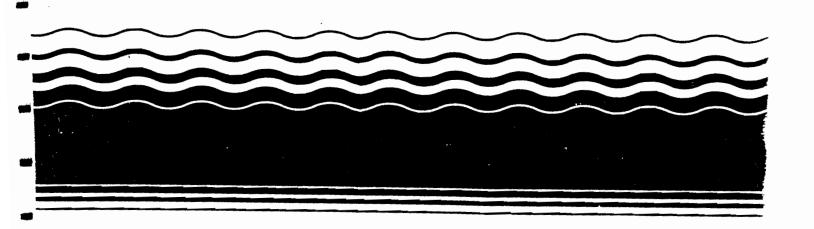
United States Environmental Protection Agency Office of Solid Waste and Emergency Response

Publication 9345.1-07 PB92-963377 EPA 540-R-92-026 November 1992

Superfund

\$EPA

Hazard Ranking System Guidance Manual



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A. DEPARTMENT OF COMMERCE LA THER H. HOINES, Serrelary

TECHNICAL PAPER NO. 40

RAINFALL FREQUENCY ATLAS OF THE UNITED STATES:

for Durations from 30 Minutes to 24 Hours and Return Periods from 1 to 100 Years

Compressive Studby Section, Nydrobygie Serviers Divinion DAVID M. HERSHFIELD

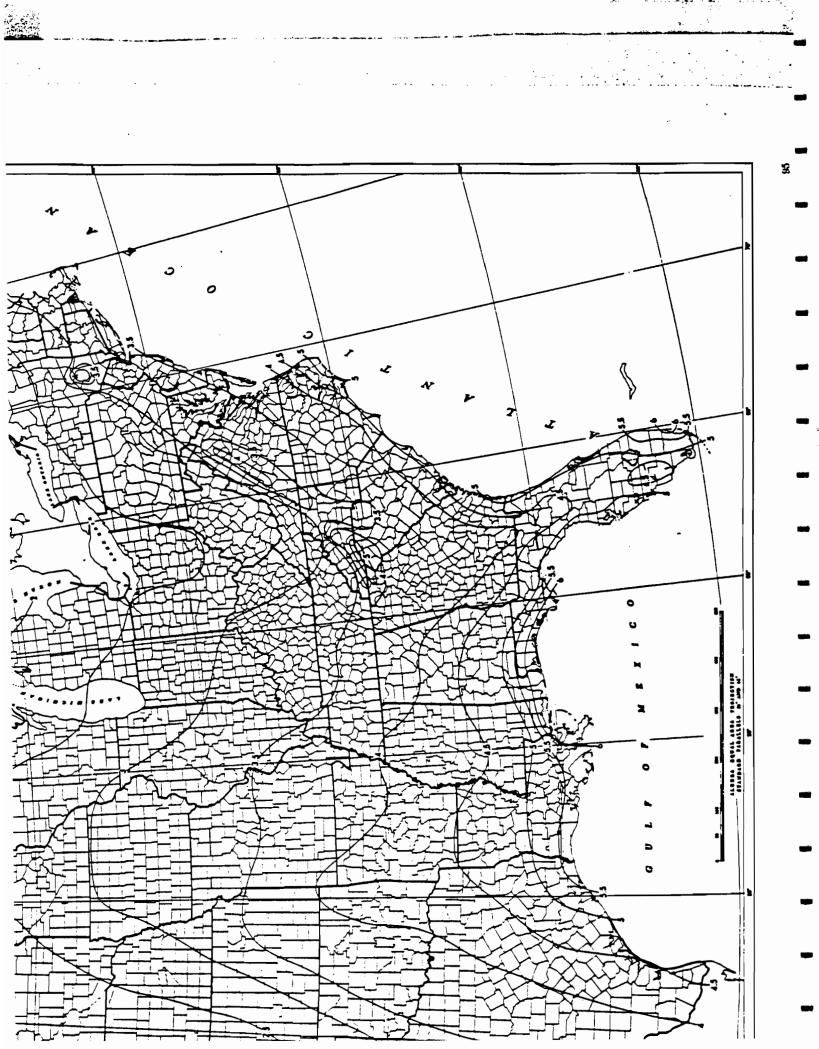
Engineering Division, Soil Conservation Service

U.S. Department of Agriculture

LAWLER, MATUSKY & SKELLY ENGINEERS Library ONE BLUE HILL PLAZA PEARL RIVER, N.Y. 10965

For Reference

Not to be taken from this room



1

PREscore 2.0 - PRESCORE.TCL File 05/11/93 HRS DOCUMENTATION RECORD Penetrex Processing Inc. - 12/14/93

1. Site Name: Penetrex Processing Inc. (as entered in CERCLIS)

2. Site CERCLIS Number: NYD981079064

3. Site Reviewer:

4. Date: 18 October 1993

5. Site Location: Glenwood Landing/Nassau, New York (City/County, State)

6. Congressional District: 05

7. Site Coordinates: Single

Latitude: 40°50'35. Longitude: 73°38'55.

	Score
Ground Water Migration Pathway Score (Sgw)	68.67
Surface Water Migration Pathway Score (Ssw)	0.00
Soil Exposure Pathway Score (Ss)	4.60
Air Migration Pathway Score (Sa)	0.00

Site Score		34.41
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NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

PAGE:

1

Record Information

- Site Name: Penetrex Processing Inc. (as entered in CERCLIS)
- 2. Site CERCLIS Number: NYD981079064
- 3. Site Reviewer:
- 4. Date: 18 October 1993
- Site Location: Glenwood Landing/Nassau, New York (City/County, State)
- 6. Congressional District: 05
- 7. Site Coordinates: Single

Latitude: 40°50'35. Longitude: 73°38'55.

Site Description

- 1. Setting: Suburban
- 2. Current Owner: Private Industrial
- 3. Current Site Status: Inactive
- 4. Years of Operation: Inactive Site, from and to dates: 1955 to 1984
- 5. How Initially Identified: State/Local Program
- 6. Entity Responsible for Waste Generation:
 - Other Dry Cleaning operations
- 7. Site Activities/Waste Deposition:
 - Illegal Dumping
 - Discharge to Sewer/Surface Water

PAGE:

2

Waste Description

- 8. Wastes Deposited or Detected Onsite:
 - Organic Chemicals
 - Solvents

Response Actions

- 9. Response/Removal Actions:
 - Other Removal Action Has Occurred

RCRA Information

- 10. For All Active Facilities, RCRA Site Status:
 - Not Applicable

Demographic Information

- 11. Workers Present Onsite: Yes
- 12. Distance to Nearest Non-Worker Individual: > 10 Feet 1/4 Mile
- 13. Residential Population Within 1 Mile: 4682.0
- 14. Residential Population Within 4 Miles: 102524.0

Water Use Information

- 15. Local Drinking Water Supply Source:
 - Ground Water (within 4 mile distance limit)
- 16. Total Population Served by Local Drinking Water Supply Source: 102524.0
- 17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:

PAGE:

3

- Municipal (Services over 25 People)
- 18. Surface Water Adjacent to/Draining Site:
 - Wetland
 - River
 - Bay
 - Ocean

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 WASTE QUANTITY

Penetrex Processing Inc. - 12/14/93

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: soil

a.	Wastestream ID	contaminated soil
b.	Hazardous Constituent Quantity (C) (lbs.)	0.01
c.	Data Complete?	NO
d.	Hazardous Wastestream Quantity (W) (lbs.)	26000.00
e.	Data Complete?	NO
f.	Wastestream Quantity Value (W/5,000)	5.20E+00

Wastestream Constituent Hazardous Substances	Concent.	Units	Liquid	Qualifier
Tetrachloroethene	1.0E+02	ppb	NO	
Trichloroethane, 1,1,1-	1.0E+02	ppb	NO	
Trichloroethylene	1.0E+02	ppb	NO	

a. Wastestream ID	contaminated liquid
b. Hazardous Constituent Quantity (C) (lbs.)	0.01
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	23000.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	4.60E+00

Wastestream Constituent Hazardous Substances	Concent. Units Liquid	Qualifier
Tetrachloroethene	1.0E+02 ppb YES	
Trichloroethane, 1,1,1-	1.0E+02 ppb YES	
Trichloroethylene	1.0E+02 ppb YES	

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 3 WASTE QUANTITY Penetrex Processing Inc. - 12/14/93

a. Wastestream ID	drums
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	2500.00
e. Data Complete?	ИО
f. Wastestream Quantity Value (W/5,000)	5.00E-01

a.	Wastestream ID	
b.	Hazardous Constituent Quantity (C) (lbs.)	0.00
c.	Data Complete?	NO
d.	Hazardous Wastestream Quantity (W) (lbs.)	0.00
e.	Data Complete?	NO
f.	Wastestream Quantity Value (W/5,000)	0.00E+00

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	ИО
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

PREscore 2.0 - PRESCORE.TCL File 05/11/93 WASTE QUANTITY

Penetrex Processing Inc. - 12/14/93

SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE 2.

a.	Source ID	soil	
b.	Source Type	Contaminated Soil	
c.	Secondary Source Type	N.A.	
d.	Source Vol.(yd3/gal) Source Area (ft2)	30.00	0.00
e.	Source Volume/Area Value	1.20E-02	
f.	Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	1.47E-02	
g.	Data Complete?	ИО	
h.	Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	1.03E+01	
i.	Data Complete?	ИО	
k.	Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	1.03E+01	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Dichloroethane, 1,1-	> 2	NO	1.3E+01	ppm
Dichloroethylene, cis-1,2-	< 2	NO	4.7E+00	ppm
Dichloroethylene, trans-1,2-	< 2	NO	4.7E+00	ppm
Tetrachloroethene	< 2	NO	8.3E+02	ppm
Trichloroethylene	< 2	NO	5.0E+01	ppm

Documentation for Source Type:

Soil samples collected during Phase II investigations of May 1989 and November 1989 identified chlorinated compounds as follows: Tetrachloroethylene 1200 mg/kg

86 mg/kg Trichloroethylene

Trichloroethylene 86 mg/kg
1,2-Dichloroethylene 26 mg/kg Source (area of observed contamination) is limited to immediate area of drywells because the majority of the site is covered with asphalt.

Reference: 1,6,7

PREscore 2.0 - PRESCORE.TCL File 05/11/93 WASTE QUANTITY

Penetrex Processing Inc. - 12/14/93

Documentation for Source Hazardous Substances:

Groundwater analyses identified the following chlorinated compounds:

PAGE:

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1,2-dichloroethylene 3300 ug/l

1,1,1-trichloroethane 910 ug/l trichloroethylene 590 ug/l

tetrachloroethylene 920 ug/l

Reference: 1 and 7

Documentation for Source Volume:

Estimaated quantity of contaminated soil contained in dry wells. Majority of site is paved with asphalt.

Reference: 1

Documentation for Source Area:

Unknown

Reference:

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 6 WASTE QUANTITY Penetrex Processing Inc. - 12/14/93

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE:

a. Wastestream ID	chlorinated solvent
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

PREscore 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 7 WASTE QUANTITY Penetrex Processing Inc. - 12/14/93

SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a.	Source ID			
b.	. Source Type		Contaminated Soil	
c.	Secondary Source Type		N.A.	
d.	Source Vol.(yd3/gal)	Source Area (ft2)	60.00	0.00
e.	. Source Volume/Area Value		2.40E-02	
f.	Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g.	g. Data Complete?		NO	
h.	. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i.	. Data Complete?		NO	
k.	. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		2.40E-02	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Dichloroethylene, cis-1,2- Dichloroethylene, trans-1,2- Tetrachloroethene Trichloroethane, 1,1,1-	< 2 < 2 < 2 < 2	NO NO NO	1.3E+01 1.3E+01 1.2E+03 0.0E+00	ppm ppm ppm
Trichloroethylene	< 2	NO	0.0E+00	ppm

PREscore 2.0 - PRESCORE.TCL File 05/11/93 PAGE: WASTE QUANTITY

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Penetrex Processing Inc. - 12/14/93

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No. Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1 soil	GW-SW-A	1.20E-02 2.40E-02	1.03E+01 0.00E+00	1.03E+01 2.40E-02

-

PREscore 2.0 - PRESCORE.TCL File 05/11/93 PAGE: WASTE QUANTITY

Penetrex Processing Inc. - 12/14/93

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Value	es	HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E+02	10	6
SW: Overland Flow, DW	Tox./Persistence	4.00E+01	10	3
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	2.00E+03	10	10
SW: Overland Flow, Env	Etox./Persis./Bioacc.	2.00E+03	10	10
SW: GW to SW, DW	Tox./Persistence	4.00E+01	10	3
SW: GW to SW, HFC	Tox./Persis./Bioacc.	2.00E+03	10	10
SW: GW to SW, Env	Etox./Persis./Bioacc.	2.00E+03	10	10
Soil Exposure:Resident	Toxicity	1.00E+02	10	6
Soil Exposure: Nearby	Toxicity	0.00E+00	0	0
Air	Toxicity/Mobility	0.00E+00	10	0

^{*} Hazardous Waste Quantity Factor Values

Note: SW = Surface Water

GW = Ground Water

DW = Drinking Water Threat HFC = Human Food Chain Threat Env = Environmental Threat

9

^{**} Waste Characteristics Factor Category Values

PREscore 2.0 - PRESCORE.TCL File 05/11/93 GROUND WATER MIGRATION PATHWAY SCORESHEET Penetrex Processing Inc. - 12/14/93

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: Lloyd		
 Observed Release Potential to Release Containment Net Precipitation Depth to Aquifer Travel Time Potential to Release [lines 2a(2b+2c+2d)] Likelihood of Release 	550 10 10 5 35 500 550	0 10 3 5 35 430 430
Waste Characteristics		
4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics	* * 100	1.00E+02 10 6
Targets		
7. Nearest Well 8. Population 8a. Level I Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8d. Population (lines 8a+8b+8c) 9. Resources 10. Wellhead Protection Area 11. Targets (lines 7+8d+9+10) 12. Targets (including overlaying aquifers) 13. Aquifer Score	50 ** ** ** 5 20 ** **	1.80E+01 0.00E+00 0.00E+00 2.18E+03 2.18E+03 0.00E+00 0.00E+00 2.20E+03 2.20E+03 68.67
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	68.67

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 GROUND WATER PATHWAY AQUIFER SUMMARY Penetrex Processing Inc. - 12/14/93

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2

No. Aquifer ID	Туре	Overlaying No.	Inter- Connected with	Likelihood of Release	Targets
1 upper glacial	Non K	0	0	550	2.50E+01
2 Port Washington	Non K	0	0	430	0.00E+00
3 Lloyd	Non K	0	0	430	2.20E+03

Containment

No.	Source	ID	HWQ Value	Containment	Value
1	soil		1.03E+01	10	
===			======================================	10	-====

Documentation for Ground Water Containment, Source soil:

Hazardous substances have migrated to groundwater beneath the site. Chlorinated organic compounds were identified in groundwater at concentrations above NYSDEC standards. Groundwater beneath the site is tidally influenced and mixes with waters of Hempstead Harbor.

Reference: 1

Net Precipitation

Net Precipitation (inches)

N.A.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: GROUND WATER PATHWAY LIKELIHOOD OF RELEASE upper glacial AQUIFER Penetrex Processing Inc. - 12/14/93

Aquifer: upper glacial

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

OBSERVED RELEASE

1	PX-MW-1	Monitoring	Well 0	.010	Level I		
2	PX-MW-2 and -5	Monitoring			Level I		
3	PX-MW-3	Monitoring			Level I		
Wel	1						
No.	Hazardous Substa	ince	Concent.	MCL	Cancer	RFD	Un:
1	Dichloroethylene, o	cis-1,2-	1.2E+03	7.0E+01	0.0E+00	3.5E+02	ppl
1	Dichloroethylene, t	rans-1,2-	1.2E+03	1.0E+02	0.0E+00	7.0E+02	ppl
1	Tetrachloroethene		4.6E+02	5.0E+00	6.7E-01	3.5E+02	pp
1	Trichloroethane, 1,	1,1-	2.7E+02	2.0E+02	0.0E+00	3.2E+03	pp
1	Trichloroethylene		1.8E+02	5.0E+00	3.2E+00	0.0E+00	pp
2	Dichloroethylene, c	:is-1,2-	1.6E+03	7.0E+01	0.0E+00	3.5E+02	pp
2	Dichloroethylene, t	rans-1,2-	1.6E+03	1.0E+02	0.0E+00	7.0E+02	pp
2	Tetrachloroethene		6.1E+02	5.0E+00	6.7E-01	3.5E+02	pp
2	Trichloroethane, 1,	1,1-	4.4E+02	2.0E+02	0.0E+00	3.2E+03	pp
2	Trichloroethylene	•	2.1E+02	5.0E+00	3.2E+00	0.0E+00	pp
3	Dichloroethylene, c	is-1,2-	1.4E+03	7.0E+01	0.0E+00	3.5E+02	pp
3	Dichloroethylene, t		1.4E+03	1.0E+02	0.0E+00	7.0E+02	pp
3	Tetrachloroethene	•	9.2E+02	5.0E+00	6.7E-01	3.5E+02	pp
3	Trichloroethane, 1,	1,1-	9.1E+02	2.0E+02	0.0E+00	3.2E+03	pp
3	Trichloroethylene	•	5.9E+02	5.0E+00	3.2E+00	0.0E+00	pp

Distance

Observed Release Factor

550

4

POTENTIAL TO RELEASE

Containment

Containment Factor

10

Net Precipitation

Net Precipitation Factor

3

Depth to Aquifer

A. Depth of Hazardous Substances

3.25 feet

Documentation for Depth of Hazardous Substances:

Concentrations of trichloroethylene, tetrachloroethylene and 1,1-dichloroethane exceeded NYSDEC recommended soil cleanup objectives to protect groundwater quality in sample DW-3 at a depth of 3.25 feet.

Reference: 1 and 7

B. Depth to Aquifer from Surface

10.00 feet

Documentation for Depth to Aquifer from Surface :

See Figure 4-5 of the LMS Phase II report and boring logs of Blasland & Bouck August 1989 Phase II.

Reference: 1,6,7

C. Depth to Aquifer (B - A)

6.75 feet

PREscore 2.0 - PRESCORE.TCL File 05/11/93 GROUND WATER PATHWAY LIKELIHOOD OF RELEASE upper glacial AQUIFER Penetrex Processing Inc. - 12/14/93

Depth to Aquifer Factor

5

Travel Time

Are All Layers Karst?

NO

Documentation for Karst Layers:

Presence of karst aquifer was not observed during the SI or previous investigations.

Reference: 1,6,7

Thickness of Layer(s) with Lowest Conductivity 8.00

feet

5

Documentation for Thickness of Layers with Lowest Conductivity:

Reference: 6

Hydraulic Conductivity (cm/sec)

1.0E-04

Documentation for Hydraulic Conductivity:

Hydraulic conductivity determined during Phase II investigation of May and August 1989.

Reference: 6

Travel Time Factor

35

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE:
GROUND WATER PATHWAY LIKELIHOOD OF RELEASE upper glacial AQUIFER
Penetrex Processing Inc. - 12/14/93

Potential to Release Factor 430

6

7

Aquifer: Port Washington

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

OBSERVED RELEASE

No. Well ID Well Type Distance (miles) Level of Contamination

- N/A and/or data not specified

Observed Release Factor

O

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Port Washington AQUIFER Penetrex Processing Inc. - 12/14/93

POTENTIAL TO RELEASE

Containment		
Containment Factor	10	
Net Precipitation		
Net Precipitation Factor	3	
Depth to Aquifer		
A. Depth of Hazardous Substances	0.00	feet
B. Depth to Aquifer from Surface	0.00	feet
C. Depth to Aquifer (B - A)	0.00	feet
Depth to Aquifer Factor	5	
Travel Time		
Are All Layers Karst?	ИО	
Thickness of Layer(s) with Lowest Conductivity	0.00	feet
Hydraulic Conductivity (cm/sec)	0.0E-00	
Travel Time Factor	35	
Potential to Release Factor	430	

Aquifer: Lloyd

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

OBSERVED RELEASE

No. Well ID Well Type (miles) Level of Contamination

- N/A and/or data not specified

Observed Release Factor

n

10

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Lloyd AQUIFER Penetrex Processing Inc. - 12/14/93

POTENTIAL TO RELEASE

Containment		
Containment Factor	10	
Net Precipitation		
Net Precipitation Factor	3	
Depth to Aquifer		
A. Depth of Hazardous Substances	0.00	feet
B. Depth to Aquifer from Surface	0.00	feet
C. Depth to Aquifer (B - A)	0.00	feet
Depth to Aquifer Factor	5	
Travel Time		
Are All Layers Karst?	NO	
Thickness of Layer(s) with Lowest Conductivity	0.00	feet
Hydraulic Conductivity (cm/sec)	0.0E-00	
Travel Time Factor	35	

Potential to Release Factor 430

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 GROUND WATER PATHWAY WASTE CHARACTERISTICS Penetrex Processing Inc. - 12/14/93

Source: 1 soil

Source Hazardous Waste Quantity Value: 10.30

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value	
Dichloroethane, 1,1-	10	1.00E+00	1.00E+01	
Dichloroethylene, cis-1,2-	100	1.00E+00	1.00E+02	
Dichloroethylene, trans-1,2-	100	1.00E+00	1.00E+02	
Tetrachloroethene	100	1.00E-02	1.00E+00	
Trichloroethane, 1,1,1-	10	1.00E-02	1.00E-01	
Trichloroethylene	10	1.00E-02	1.00E-01	

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PREscore 2.0 - PRESCORE.TCL File 05/11/93 GROUND WATER PATHWAY WASTE CHARACTERISTICS

Penetrex Processing Inc. - 12/14/93

Hazardous Substances Found in an Observed Release

Well Observed Release Hazardous Substance No.

Toxicity Value

Mobility Value

Toxicity/ Mobility

12

Value

PAGE:

⁻ N/A and/or data not specified

	GROUND WATER PATHWAY WASTE CHARACTERISTICS Penetrex Processing Inc 12/14/93	
	Toxicity/Mobility Value from Source Hazardous Substances:	1.00E+02
	Toxicity/Mobility Value from Observed Release Hazardous Substances:	1.00E+02
	Toxicity/Mobility Factor:	1.00E+02
-	Sum of Source Hazardous Waste Quantity Values:	1.03E+01
	Hazardous Waste Quantity Factor:	10
	Waste Characteristics Factor Category:	6

PREscore 2.0 - PRESCORE.TCL File 05/11/93

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Population by Well

No. Well ID Sample Type Distance Level of (miles) Contamination Population

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	0.0	0.00E+00
> 1/4 to 1/2	0.0	0.00E+00
> 1/2 to 1	0.0	0.00E+00
> 1 to 2	0.0	0.00E+00
> 2 to 3	0.0	0.00E+00
> 3 to 4	0.0	0.00E+00

Potential Contamination Factor:

0.000

Nearest Well

Level of Contamination: N.A.

Nearest Well Factor: 0.00E+00

Documentation for Nearest Well:

Well No. 5201, operated by the Jericho Water District, is located 2200 ft east of the site on Motts Cove Road in Roslyn Harbor. According to the Water District this well is used only during the summer when water supply demand is higher. The District also reports that the well is 34 feet deep, is located in the Lloyd aquifer, and provides clean water. Groundwater beneath the site is located in the upper glacial aquifer The next closest well is located 0.75 mile north of the site at the Noth Shore Country Club. Currently this well is used only for irrigation. Potential contamination is not scored because water supply wells are located in a different

Reference: 9 and 24

Resources

Resource Use: YES

Resource Factor: 5.00E+00

Documentation for Resources:

Water in aquifer is usable for drinking water.

Reference: 8,9,10,11,12,13

Wellhead Protection Area

Ground water observed release for site lies within the wellhead area Wellhead Protection Area Factor: 2.00E+01

Documentation for Wellhead Protection Area:

Jericho water well No. 5201 is located in the Lloyd aquifer, approximately 2200 feet east of the site.

Reference: 15

17

Population by Well

No. Well ID Sample Type (miles) Contamination Population

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	0.0	0.00E+00
> 1/4 to 1/2	0.0	0.00E+00
> 1/2 to 1	0.0	0.00E+00
> 1 to 2	0.0	0.00E+00
> 2 to 3	0.0	0.00E+00
> 3 to 4	0.0	0.00E+00

Ptential Contamination Factor:

0.000

Nearest Well

Level of Contamination: N.A.

Nearest Well Factor: 0.00E+00

Resources

Resource Use: NO

Resource Factor: 0.00E+00

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

PAGE: 19

Population by Well

No. Well ID Sample Type Distance Level of (miles) Contamination Population

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	3930.0	5.21E+02
> 1/4 to 1/2	1339.0	1.01E+02
1/2 to 1	3050.0	1.67E+02
· 1 to 2	17115.0	2.94E+02
2 to 3	37894.0	6.78E+02
> 3 to 4	42733.0	4.17E+02

Potential Contamination Factor:

2178.000

Documentation for Target Population > 0 to 1/4 mile Distance Category:

Reference: 22

Documentation for Target Population > 1/4 to 1/2 mile Distance Category:

Reference: 22

Documentation for Target Population > 1/2 to 1 mile Distance Category:

Reference: 22

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Documentation for Target Population > 1 to 2 miles Distance Category:

Reference: 22

Documentation for Target Population > 2 to 3 miles Distance Category:

Reference: 22

Documentation for Target Population > 3 to 4 miles Distance Category:

Reference: 22

Nearest Well

Level of Contamination: Potential

Distance in miles: 0.40

Nearest Well Factor: 1.80E+01

Documentation for Nearest Well:

Jericho Water District Well No. 5201, a standby well, located east of the site draws water from the Lloyd Aquifer.

Reference: 9 and 24

Resources

PAGE:

22

Resource Use: NO

Resource Factor: 0.00E+00

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET PAGE: Penetrex Processing Inc. - 12/14/93

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release to Aquifer Aquifer: upper glacial		
1. Observed Release 2. Potential to Release 2a. Containment 2b. Net Precipitation 2c. Depth to Aquifer 2d. Travel Time 2e. Potential to Release [lines 2a(2b+2c+2d)]	550 10 10 5 35	550 10 3 5 35 430
3. Likelihood of Release Waste Characteristics	550	550
4. Toxicity/Mobility/Persistence 5. Hazardous Waste Quantity 6. Waste Characteristics	* * 100	4.00E+01 10 3
Targets		
7. Nearest Intake 8. Population	50	0.00E+00
8a. Level I Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8d. Population (lines 8a+8b+8c) 9. Resources 10. Targets (lines 7+8d+9)	** ** ** 5 **	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
11. DRINKING WATER THREAT SCORE	100	0.00

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.

PREscore 2.0 - PRESCORE.TCL File 05/11/93 PAGE: GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET Penetrex Processing Inc. - 12/14/93

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned		
Likelihood of Release				
12. Likelihood of Release (same as line 3)	550	550		
Waste Characteristics				
13. Toxicity/Mobility/Persistence/Bioacc. 14. Hazardous Waste Quantity 15. Waste Characteristics	* * 1000	2.00E+03 10 10		
Targets				
16. Food Chain Individual 17. Population 17a. Level I Concentrations 17b. Level II Concentrations 17c. Pot. Human Food Chain Contamination 17d. Population (lines 17a+17b+17c) 18. Targets (lines 16+17d)	50 ** ** ** **	0.00E+00 0.00E+00 0.00E+00 1.55E-02 1.55E-02		
19. HUMAN FOOD CHAIN THREAT SCORE	100	0.00		

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.

PREscore 2.0 - PRESCORE.TCL File 05/11/93 PAGE: GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET Penetrex Processing Inc. - 12/14/93

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
20. Likelihood of Release (same as line 3)	550	550
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc. 22. Hazardous Waste Quantity 23. Waste Characteristics	* * 1000	2.00E+03 10 10
Targets		
24. Sensitive Environments 24a. Level I Concentrations 24b. Level II Concentrations 24c. Potential Contamination 24d. Sensitive Environments (lines 24a+24b+24c) 25. Targets (line 24d)	** ** ** **	0.00E+00 0.00E+00 1.75E-03 1.75E-03
26. ENVIRONMENTAL THREAT SCORE	60	0.00
27. WATERSHED SCORE	100	0.00
28. SW: GW to SW COMPONENT SCORE (Sgs)	100	0.00

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 SURFACE WATER PATHWAY GW TO SW CONTAINMENT SUMMARY Penetrex Processing Inc. - 11/08/93

Containment

No.	Source	ID 1	HWQ Value	Containment	Value
1	soil		1.03E+01	10	
====					
		Containm	ent Factor	10	

Documentation for Ground Water Containment, Source soil:

Hazardous substances have migrated to groundwater beneath the site. Chlorinated organic compounds were identified in groundwater at concentrations above NYSDEC standards. Groundwater beneath the site is tidally influenced and mixes with waters of Hempstead Harbor.

Reference: 1

Net Precipitation

Net Precipitation (inches)

0.00

4

PAGE:

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: SURFACE WATER PATHWAY GW TO SW COMPONENT LIKELIHOOD OF RELEASE Penetrex Processing Inc. - 11/08/93

Aquifer: upper glacial

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

OBSERVED RELEASE

No.	Well ID	Well Type		tance iles)	Level of (Contaminat	ion
1	PX-MW-1	Monitoring	Well 0.0	10	Level I		
2	PX-MW-2 and -5	Monitoring	Well 0.0	10	Level I		
3	PX-MW-3	Monitoring	Well 0.0	10	Level I		
Wel	1						
No.	Hazardous Substan	nce	Concent.	MCL	Cancer	RFD	Units
1	Dichloroethylene, c:	is-1,2-	1.2E+03	7.0E+01	0.0E+00	3.5E+02	ppb
1	Dichloroethylene, to	rans-1,2-	1.2E+03	1.0E+02	0.0E+00	7.0E+02	ppb
1	Tetrachloroethene		4.6E+02	5.0E+00	6.7E-01	3.5E+02	ppb
1	Trichloroethane, 1,	1,1-	2.7E+02	2.0E+02	0.0E+00	3.2E+03	ppb
1	Trichloroethylene	•	1.8E+02	5.0E+00	3.2E+00	0.0E+00	ppb
2	Dichloroethylene, c:	is-1,2-	1.6E+03	7.0E+01	0.0E+00	3.5E+02	ppb
2	Dichloroethylene, to	cans-1,2-	1.6E+03	1.0E+02	0.0E+00	7.0E+02	ppb
2	Tetrachloroethene		6.1E+02	5.0E+00	6.7E-01	3.5E+02	ppb
2	Trichloroethane, 1,3	l,1-	4.4E+02	2.0E+02	0.0E+00	3.2E+03	ppb
2	Trichloroethylene		2.1E+02	5.0E+00	3.2E+00	0.0E+00	ppb
3	Dichloroethylene, c:	is-1,2-	1.4E+03	7.0E+01	0.0E+00	3.5E+02	ppb
3	Dichloroethylene, to	cans-1,2-	1.4E+03	1.0E+02	0.0E+00	7.0E+02	ppb
3	Tetrachloroethene	•	9.2E+02	5.0E+00	6.7E-01	3.5E+02	ppb
3	Trichloroethane, 1,1	l,1-	9.1E+02	2.0E+02	0.0E+00	3.2E+03	ppb
3	Trichloroethylene	,	5.9E+02	5.0E+00	3.2E+00	0.0E+00	ppb

Observed Release Factor

550

POTENTIAL TO RELEASE

Ground Water to Surface Water Angle

Probable Point of Entry	0.05	miles
Angle Theta	165	
Containment		
Containment Factor	10	
Net Precipitation		

Depth to Aquifer

Net Precipitation Factor

A. Depth of Hazardous Substances 3.25 feet

3

Documentation for Depth of Hazardous Substances:

Concentrations of trichloroethylene, tetrachloroethylene and 1,1-dichloroethane exceeded NYSDEC recommended soil cleanup objectives to protect groundwater quality in sample DW-3 at a depth of 3.25 feet.

Reference: 1 and 7

B. Depth to Aquifer from Surface 10.00 feet

PREscore 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 7 SURFACE WATER PATHWAY GW TO SW COMPONENT LIKELIHOOD OF RELEASE Penetrex Processing Inc. - 11/08/93

Documentation for Depth to Aquifer from Surface :

See Figure 4-5 of the LMS Phase II report and boring logs of Blasland & Bouck August 1989 Phase II.

Reference: 1,6,7

Depth to Aquifer (B - A)

6.75 feet

Depth to Aquifer Factor

5

Travel Time

Are All Layers Karst?

NO

Documentation for Karst Layers:

Presence of karst aquifer was not observed during the SI or previous investigations.

Reference: 1,6,7

Thickness of Layer(s) with Lowest Conductivity 8.00

feet

Documentation for Thickness of Layers with Lowest Conductivity:

Reference: 6

Hydraulic Conductivity (cm/sec)

1.0E-04

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: SURFACE WATER PATHWAY GW TO SW COMPONENT LIKELIHOOD OF RELEASE Penetrex Processing Inc. - 11/08/93

Documentation for Hydraulic Conductivity:

Hydraulic conductivity determined during Phase II investigation of May and August 1989.

Reference: 6

Travel Time Factor

35

8

Potential to Release Factor 430

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 9
SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS
Penetrex Processing Inc. - 11/08/93

Source: 1 soil

Source Hazardous Waste Quantity Value: 10.30

Hazardous Substance	Toxicit Factor Value	y Persist. Value	Mobility Value	Toxicity/ Mobililty/ Persistence
Dichloroethane, 1,1-	10	4.00E-01	1.00E+00	4.00E+00
Dichloroethylene, cis-1,2-	100	4.00E-01	1.00E+00	4.00E+01
Dichloroethylene, trans-1,2-	100	4.00E-01	1.00E+00	4.00E+01
Tetrachloroethene	100	4.00E-01	1.00E-02	4.00E-01
Trichloroethane, 1,1,1-	10	4.00E-01	1.00E-02	4.00E-02
Trichloroethylene	10	4.00E-01	1.00E-02	4.00E-02

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 10 SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS Penetrex Processing Inc. - 11/08/93

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Factor Value	Persist. Value	Toxicity/ Persistence
Dichloroethylene, cis-1,2-	100	4.00E-01	4.00E+01
Dichloroethylene, trans-1,2-	100	4.00E-01	4.00E+01
Tetrachloroethene	100	4.00E-01	4.00E+01
Trichloroethane, 1,1,1-	10	4.00E-01	4.00E+00
Trichloroethylene	10	4.00E-01	4.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 11 SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS Penetrex Processing Inc. - 11/08/93

	Toxicity/Mobility/Persistence Value from Source Hazardous Substances:	4.00E+01
•	Toxicity/Mobility/Persistence Value from Observed Release Hazardous Substances:	4.00E+01
#	Toxicity/Mobility/Persistence Factor:	4.00E+01
•	Sum of Source Hazardous Waste Quantity Values:	1.03E+01
•	Hazardous Waste Quantity Factor:	10
-	Waste Characteristics Factor Category:	3

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 13
SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT TARGETS
Penetrex Processing Inc. - 11/08/93

Level I Concentrations

Distance Along the
In-water Segment from the
Intake Probable Point of Entry (miles) Population

- N/A and/or data not specified

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 14
SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT TARGETS
Penetrex Processing Inc. - 11/08/93

Level II Concentrations

Distance Along the
In-water Segment from the
Intake Probable Point of Entry (miles) Population

- N/A and/or data not specified

Population Served by Level II Intakes: 0.0

Level II Population Factor: 0.00E+00

15

PREscore 2.0 - PRESCORE.TCL File 05/11/93 PAGE: SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT TARGETS Penetrex Processing Inc. - 11/08/93

Potential Contamination

Intake ID

Average Annual Flow (cfs)

Population Served

- N/A and/or data not specified

Type of Surface Water Body

Total Population Dilution-Weighted Population

- N/A and/or data not specified

Dilution-Weighted Population Served

0.0

by Potentially Contaminated Intakes:

Potential Contamination Factor:

0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: NO

Resource Value: 0.00E+00

Documentation for Resources:

Surface water is not used for drinking water, irrigation, etc.

Reference:

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 16
SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
Penetrex Processing Inc. - 11/08/93

Source: 1 soil

Source Hazardous Waste Quantity Value: 10.30

Hazardous Substance	_	Persist. Value	Mobility Value	Bio- accum. Value	Persistence/ Bioaccum. Value
Dichloroethane, 1,1-	10	4.00E-01	1.00E+00	5.00E+00	2.00E+01
Dichloroethylene, cis-1,2-	100	4.00E-01	1.00E+00	5.00E+00	2.00E+02
Dichloroethylene, trans-1,	2- 100	4.00E-01	1.00E+00	5.00E+01	2.00E+03
Tetrachloroethene	100	4.00E-01	1.00E-02	5.00E+01	2.00E+01
Trichloroethane, 1,1,1-	10	4.00E-01	1.00E-02	5.00E+00	2.00E-01
Trichloroethylene	10	4.00E-01	1.00E-02	5.00E+01	2.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 17
SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
Penetrex Processing Inc. - 11/08/93

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Value	Persist. Value	Bio- accum. Value	Toxicity/ Persistence Bioaccum. Value
Dichloroethylene, cis-1,2-	100	4.00E-01	5.00E+00	2.00E+02
Dichloroethylene, trans-1,2-	100	4.00E-01	5.00E+01	2.00E+03
Tetrachloroethene	100	4.00E-01	5.00E+01	2.00E+03
Trichloroethane, 1,1,1-	10	4.00E-01	5.00E+00	2.00E+01
Trichloroethylene	10	4.00E-01	5.00E+01	2.00E+02

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 18
SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
Penetrex Processing Inc. - 11/08/93

Hazardous Substances:	2.00E+03	
Toxicity/Mobility/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	2.00E+03	,
Toxicity/Mobility/Persistence/Bioaccumulation Factor:	2.00E+03	,
Sum of Source Hazardous Waste Quantity Values:	1.03E+01	
Hazardous Waste Quantity Factor:	10	1
Waste Characteristics Factor Category:	10	

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: SW PATHWAY: GW TO SW COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Penetrex Processing Inc. - 11/08/93

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 20
SW PATHWAY: GW TO SW COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Penetrex Processing Inc. - 11/08/93

Level I Concentrations

Annual Production Human Food Chain Fishery (pounds) Population Value

- N/A and/or data not specified

Sum of Human Food Chain Population Values: 0.00E+00

Level I Concentrations Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 21 SW PATHWAY: GW TO SW COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Penetrex Processing Inc. - 11/08/93

Level II Concentrations

Annual Production Human Food Chain Fishery (pounds) Population Value

- N/A and/or data not specified

Sum of Human Food Chain Population Values: 0.00E+00

Level II Concentrations Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 22 SW PATHWAY: GW TO SW COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Penetrex Processing Inc. - 11/08/93

Potential Contamination

Fishery	Annnual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)		Dilution Weight (Di)	Pi*Di	
2 Long Island Sou	nd 1000000.0	Coastal	0	3100.0	5.00E-05	1.55E-01	

Sum of (Pi*Di): 1.55E-01

Potential Human Food Chain Contamination Factor: 1.55E-02

Food Chain Individual

Location of Nearest Fishery: Long Island Sound
Distance from the Probable Point of Entry: 5.00 miles

Type of Surface Water Body: Coastal Tidal Area

Dilution Weight: 0.0000500

Level of Contamination: Potential

Food Chain Individual Factor: 0.00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 23
SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Penetrex Processing Inc. - 11/08/93

Source: 1 soil

Source Hazardous Waste Quantity Value: 10.30

•	Hazardous Substance	Eco- toxicity Value	Persist. Value	Mob. Value	Bio- accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
	Dichloroethane, 1,1-	0	4.00E-01	1.00E+00	5.00E+00	0.00E+00
,	Dichloroethylene, cis-1,2-	0 4	4.00E-01	1.00E+00	5.00E+00	0.00E+00
	Dichloroethylene, trans-1,2-	. 1	4.00E-01	1.00E+00	5.00E+01	2.00E+01
	Tetrachloroethene	100	4.00E-01	1.00E-02	5.00E+01	2.00E+01
	Trichloroethane, 1,1,1-	10	4.00E-01	1.00E-02	5.00E+00	2.00E-01
	Trichloroethylene	10	4.00E-01	1.00E-02	5.00E+01	2.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 24
SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Penetrex Processing Inc. - 11/08/93

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Eco- toxicity Value	Persist. Value	Bio- accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Dichloroethylene, cis-1,2-	100	4.00E-01	5.00E+00	2.00E+02
Dichloroethylene, trans-1,	2- 1	4.00E-01	5.00E+01	2.00E+01
Tetrachloroethene	100	4.00E-01	5.00E+01	2.00E+03
Trichloroethane, 1,1,1-	10	4.00E-01	5.00E+00	2.00E+01
Trichloroethylene	10	4.00E-01	5.00E+01	2.00E+02

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 25 SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS Penetrex Processing Inc. - 11/08/93

-	Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Source Substances:	2.00E+01
***	Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Observed Hazardous Substances:	2.00E+03
-	Ecotoxicity/Mobility/Persistence/Bioaccummulation Factor:	2.00E+03
	Sum of Source Hazardous Waste Quantity Values:	1.03E+01
-	Hazardous Waste Quantity Factor:	10
	Waste Characteristics Factor Category:	10

PREscore 2.0 - PRESCORE.TCL File 05/11/93 SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS Penetrex Processing Inc. - 11/08/93

Levl I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS Penetrex Processing Inc. - 10/19/93

Level I Concentrations

Sensitive Envi	ronment	Distance from Point of Entr Sensitive Env	y to	Sensitive Environment Value
- N/A and/or	r data not sp	ecified		
Sum of Sensiti	ve Environmen	ts Values:		0
Wetlands				
Wetland	Point	ce from Probable of Entry to d (miles)	Wet	lands ontage (miles)
- N/A and/or	data not sp	ecified		
Total Wetlands	Frontage:	0.00 Miles	Total Wetla	inds Value: 0
Sum of Sensitiv	e Environmen	======================================	ands Value: 0	.00E+00

Level I Concentrations Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 28 SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS Penetrex Processing Inc. - 10/19/93

Level II Concentrations

Sensitive Environmen	F	Distance from Point of Entry Sensitive Env.	to	Sensitive Environme Value	-
- N/A and/or data	a not speci	fied			
Sum of Sensitive Env	vironments	Values:		0	
Wetlands					
Wetland	Distance Point of Wetland (-	Wet]	lands ntage (mile:	s)
- N/A and/or data	a not speci	fied			
Total Wetlands Front	tage:	0.00 Miles	Total Wetlar	nds Value:	0
Sum of Sensitive Env	vironments	Value + Wetla		.00E+00	

Level II Concentrations Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAG SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS Penetrex Processing Inc. - 10/19/93

Potential Contamination

Sensitive Environments

Type of Surface Water Body

Sensitive Environment

Sensitive Environment Value

Wetlands

Type of Surface Water Body

Sensitive Environment

Wetlands Frontage Wetlands Value

- N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 30 SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS Penetrex Processing Inc. - 10/19/93

Type of Surface Water Body Sum of
Sum of Sens. Wetland Dilution
Environment Frontage Weight
Values(Sj) Values(Wj) (Dj)

Dj(Wj+Sj)

- N/A and/or data not specified

Sum of Dj(Wj+Sj): 0.00E+00 Sum of Dj(Wj+Sj)/10: 0.00E+00

Potential Contamination Sensitive Environment Facto: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET PAGE: Penetrex Processing Inc. - 12/14/93

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release by Overland Flow 2a. Containment 2b. Runoff 2c. Distance to Surface Water	10 25 25	9 1 20
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)] 3. Potential to Release by Flood	500	189
3a. Containment (Flood)	10	10
3b. Flood Frequency 3c. Potential to Release by Flood	50 500	50 500
(lines 3a x 3b)	500	500
 Potential to Release (lines 2d+3c) Likelihood of Release 	500 550	500 500
Waste Characteristics		
6. Toxicity/Persistence 7. Hazardous Waste Quantity 8. Waste Characteristics	* * 100	4.00E+01 10 3
Targets		
9. Nearest Intake 10. Population	50	0.00E+00
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations 10c. Potential Contamination	**	0.00E+00 0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources	5	0.00E+00
12. Targets (lines 9+10d+11)	**	0.00E+00
13. DRINKING WATER THREAT SCORE	100	0.00

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET Penetrex Processing Inc. - 12/14/93 PAGE:

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	500
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation 16. Hazardous Waste Quantity 17. Waste Characteristics	* * 1000	2.00E+03 10 10
Targets		
18. Food Chain Individual 19. Population 19a. Level I Concentrations 19b. Level II Concentrations 19c. Pot. Human Food Chain Contamination 19d. Population (lines 19a+19b+19c) 20. Targets (lines 18+19d)	50 ** ** ** **	0.00E+00 0.00E+00 0.00E+00 6.20E-02 6.20E-02 6.20E-02
21. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET PAGE: Penetrex Processing Inc. - 12/14/93

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	500
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc. 24. Hazardous Waste Quantity 25. Waste Characteristics	* * 1000	2.00E+03 10 10
Targets		
26. Sensitive Environments 26a. Level I Concentrations 26b. Level II Concentrations 26c. Potential Contamination 26d. Sensitive Environments (lines 26a+26b+26c) 27. Targets (line 26d)	** ** ** **	0.00E+00 0.00E+00 3.50E-03 3.50E-03
28. ENVIRONMENTAL THREAT SCORE	60	0.00
29. WATERSHED SCORE	100	0.00
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	0.00

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 SURFACE WATER PATHWAY SEGMENT SUMMARY Penetrex Processing Inc. - 10/22/93

No. Segment ID	Segment Type	Water Type	Start Point (mi)	End Point (mi)	Average Flow (cfs)	
1 Hempstead Harbor	Coastal Ti	Salt	0.00	14.50	N.A.	

PAGE: 4

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 5
SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Penetrex Processing Inc. - 10/22/93

OBSERVED	RELEASE
----------	---------

No. Sample ID	Sample Type	Distance	Level of	Contamina	tion
		(miles)	DW	HFC	Env

- N/A and/or data not specified

Observed Release Factor 0

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 6
SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Penetrex Processing Inc. - 10/22/93

POTENTIAL TO RELEASE

Potential to Release by Overland Flow

Containment

No.	Source	ID	HWQ Value	Containment	Value
1	soil		1.03E+01	9	

Containment Factor:

Documentation for Overland Flow Containment, Source soil:

Containment value was selected because there is hazardous substance migration from contaminateed soil to groundwater and groundwater discharges to surface water.. Most of the site (and soil beneath it) is paved with asphalt. Contaminated soil is also contained within drywells where precipitation is collected on site. Migration of pollutants from soil to Hempstead Harbor or in any direction off site via the overland route is not likely .

Reference: 1

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 7
SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Penetrex Processing Inc. - 10/22/93

Distance to Surface Water

Distance to Surface Water:

300.0 feet

Distance to Surface Water Factor:

20

Documentation for Distance to Surface Water:

The following methods were used to determine the distance to surface water: site inspection, measurement from U.S.G.S. Topographic map and measurement from NYS Tidal Wetland map.

Reference: 1

Runoff

A. Drainage Area:

0.0 acres

Documentation for Drainage Area:

Route of drainage for region and for the site is Hempstead Harbor, and Long Island Sound. No acres assigned to this region. On-site drywells also collect precipitation. These drains discharge to groundwater.

Reference: 1

B. 2-year, 24-hour Rainfall:

3.5 inches

PRESCORE 2.0 - PRESCORE.TCL File 05/11/9 SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKE Penetrex Processing Inc 10/22/93	
Documentation for Rainfall:	
Used rainfall frequency map to determine value.	
Reference: 24	
C. Soil Group: Medium-textured soils with moderate infiltration	B rates
Documentation for Soil Group:	
Several soil types including fill material are pres	sent onsite.
Reference: 6	
Runoff Factor:	1
	_
Potential to Release by Overland Flow Factor:	189

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 9
SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Penetrex Processing Inc. - 10/22/93

Potential to Release by Flood

		Flood	Flood	Potential
		Containment	Frequency	to Release
No. Source ID	HWQ Value	Value	Value	by Flood

- N/A and/or data not specified

Potential to Release by Flood Factor: 0

Documentation for Flood Containment, Source soil:

Contaminated soil is covered over with asphalt pavement or is contained in dryweells.

Reference:

Documentation for Flood Frequency, Source soil:

No NEMA foodplain area designated for this area.

Reference:

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 10 SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS Penetrex Processing Inc. - 10/22/93

Source: 1 soil

Source Hazardous Waste Quantity Value: 10.30

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Dichloroethane, 1,1-	10	4.00E-01	4.00E+00
Dichloroethylene, cis-1,2-	100	4.00E-01	4.00E+01
Dichloroethylene, trans-1,2-	100	4.00E-01	4.00E+01
Tetrachloroethene	100	4.00E-01	4.00E+01
Trichloroethane, 1,1,1-	10	4.00E-01	4.00E+00
Trichloroethylene	10	4.00E-01	4.00E+00

PREscore 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 11 SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS Penetrex Processing Inc. - 10/22/93

Hazardous Substances Found in an Observed Release

Sample Observed Release Hazardous Substance No.

Value

Toxicity Persistence Toxicity/ Value

Persistence

Value

⁻ N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 12 SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS Penetrex Processing Inc. - 10/22/93

Toxicity/Persistence Value from Source Hazardous Substan	dces: 4.00E+01
Toxicity/Persistence Value from Observed Release Hazardo Substances:	ous 0.00E+00
Toxicity/Persistence Factor:	4.00E+01
Sum of Source Hazardous Waste Quantity Values:	1.03E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	3

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 13 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS Penetrex Processing Inc. - 10/22/93

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 14
SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Penetrex Processing Inc. - 10/22/93

Level I Concentrations

Intake

Distance Along the
In-water Segment from the
Probable Point of Entry (miles) Population

- N/A and/or data not specified

Population Served by Level I Intakes: 0.0

Level I Population Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 15 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS Penetrex Processing Inc. - 10/22/93

Level II Concentrations

Distance Along the
In-water Segment from the
Probable Point of Entry (miles) Population

Intake

- N/A and/or data not specified

Population Served by Level II Intakes:

0.0

Level II Population Factor: 0.00E+00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 16 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS Penetrex Processing Inc. - 10/22/93

Potential Contamination

Intake ID

Average Annual Flow (cfs)

Population Served

- N/A and/or data not specified

Type of Surface Water Body

Total Population Dilution-Weighted Population

- N/A and/or data not specified

Dilution-Weighted Population Served

0.0

by Potentially Contaminated Intakes:

Potential Contamination Factor:

0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: NO

Resource Value: 0.00E+00

Documentation for Resources:

Surface water is not used for drinking water, irrigation, etc.

Reference:

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 17 SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS Penetrex Processing Inc. - 10/22/93

Source: 1 soil

Source Hazardous Waste Quantity Value: 10.30

sistence/ accum. ue
0E+01
0E+02
0E+03
0E+03
0E+01
0E+02
1 (((

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 18
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Penetrex Processing Inc. - 10/22/93

Hazardous Substances Found in an Observed Release

Sample Observed Release
No. Hazardous Substance

Toxicity Persistence Bio-Value Value accum. Value Toxicity/
Persistence/
Bioaccum.
Value

⁻ N/A and/or data not specified

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 19
SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Penetrex Processing Inc. - 10/22/93

***	Toxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances:	2.00E+03
•	Toxicity/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
-	Toxicity/Persistence/Bioaccumulation Factor:	2.00E+03
	Sum of Source Hazardous Waste Quantity Values:	1.03E+01
•	Hazardous Waste Quantity Factor:	10
	Waste Characteristics Factor Category:	10

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 20 SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS Penetrex Processing Inc. - 10/22/93

Level I Concentrations

- N/A and/or data not specified

Level II Concentrations

- N/A and/or data not specified

Most Distant Level I Sample

- N/A and/or data not specified

Most Distant Level II Sample

- N/A and/or data not specified

10

PREscore 2.0 - PRESCORE.TCL File 05/11/93 PAGE: AIR PATHWAY SCORESHEET Penetrex Processing Inc. - 12/14/93

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release 2. Potential to Release 2a. Gas Potential to Release 2b. Particulate Potential to Release 2c. Potential to Release	550 500 500 500	0 0 0
3. Likelihood of Release	550	ō
Waste Characteristics		
4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics	* * 100	0.00E+00 10 0
Targets		_
7. Nearest Individual 8. Population	50	2.00E+01
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations 8c. Potential Contamination	**	0.00E+00 5.00E+01
8d. Population (lines 8a+8b+8c)	**	5.00E+01
9. Resources	5	0.00E+00
10. Sensitive Environments 10a. Actual Contamination 10b. Potential Contamination 10c. Sens. Environments(lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	*** *** ***	0.00E+00 6.25E-01 6.25E-01 7.06E+01
AIR MIGRATION PATHWAY SCORE (Sa)	100	0.00E+00

^{*} Maximum value applies to waste characteristics category.
** Maximum value not applicable.

^{***} No specific maximum value applies, see HRS for details.

PREscore 2.0 - PRESCORE.TCL File 05/11/93 SOIL EXPOSURE PATHWAY SCORESHEET Penetrex Processing Inc. - 12/14/93

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity 3. Hazardous Waste Quantity 4. Waste Characteristics	* * 100	1.00E+02 10 6
Targets		
5. Resident Individual 6. Resident Population	50	5.00E+01
6a. Level I Concentrations	**	6.00E+01
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b)	**	6.00E+01
7. Workers	15 5	5.00E+00 0.00E+00
8. Resources 9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	1.15E+02
11. RESIDENT POPULATION THREAT SCORE	**	3.80E+05

^{*} Maximum value applies to waste characteristics category.

^{**} Maximum value not applicable.

*** No specific maximum value applies, see HRS for details.

PREscore 2.0 - PRESCORE.TCL File 05/11/93 SOIL EXPOSURE PATHWAY SCORESHEET Penetrex Processing Inc. - 12/14/93

SOIL EXPOSURE PATHWAY		
Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility 13. Area of Contamination 14. Likelihood of Exposure	100 100 500	0.00E+00 0.00E+00 0.00E+00
Waste Characteristics		
15. Toxicity 16. Hazardous Waste Quantity 17. Waste Characteristics	* * 100	0.00E+00 0 0
Targets		
18. Nearby Individual 19. Population Within 1 Mile 20. Targets (lines 18+19)	1 ** **	0.00E+00 7.00E+00 7.00E+00
21. NEARBY POPULATION THREAT SCORE	**	0.00E+00
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	4.60

^{*} Maximum value applies to waste characteristics category. ** Maximum value not applicable.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 3
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT LIKELIHOOD OF EXPOSURE
Penetrex Processing Inc. - 10/19/93

Likelihood of Exposure

No.	Source ID	Level of Contamination
1	soil	Level I
2		Level I

Likelihood of Exposure Factor: 550

Source No.	e Hazardous Substance	Depth (ft.)	Concent.	Cancer	RFD	Units
1	Dichloroethane, 1,1-	> 2	1.3E+01	0.0E+00	0.0E+00	ppm
1	Dichloroethylene, cis-1,2-	< 2	4.7E+00	0.0E+00	5.8E+03	ppm
1	Dichloroethylene, trans-1,2-	< 2	4.7E+00	0.0E+00	1.2E+04	ppm
1	Tetrachloroethene	< 2	8.3E+02	1.1E+01	5.8E+03	ppm
1	Trichloroethylene	< 2	5.0E+01	5.3E+01	0.0E+00	ppm
2	Dichloroethylene, cis-1,2-	< 2	1.3E+01	0.0E+00	5.8E+03	mqq
2	Dichloroethylene, trans-1,2-	< 2	1.3E+01	0.0E+00	1.2E+04	ppm
2	Tetrachloroethene	< 2	1.2E+03	1.1E+01	5.8E+03	ppm
2	Trichloroethane, 1,1,1-	< 2	0.0E+00	0.0E+00	5.2E+04	ppm
2	Trichloroethylene	< 2	0.0E+00	5.3E+01	0.0E+00	ppm

Documentation for Source soil, Contaminants:

Groundwater analyses identified the following chlorinated compounds:

1,2-dichloroethylene 3300 ug/l

1,1,1-trichloroethane 910 ug/l trichloroethylene 590 ug/l tetrachloroethylene 920 ug/l

Reference: 1 and 7

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 4 SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS Penetrex Processing Inc. - 10/19/93

Source: 1 soil

Source Hazardous Waste Quantity Value: 10.30

Hazardous Substance	Tox Val	cicity ue		
Dichloroethylene,	cis-1,2-	100		
Dichloroethylene,	trans-1,2-	100		
Tetrachloroethene		100		
Trichloroethylene		10		

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 5
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
Penetrex Processing Inc. - 10/19/93

Source: 2

Source Hazardous Waste Quantity Value: 0.00

	Toxicity Value	
Dichloroethylene, cis-1,2-	100	
Dichloroethylene, trans-1,2	- 100	
Tetrachloroethene	100	
Trichloroethane, 1,1,1-	10	
Trichloroethylene	10	

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 6
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT WASTE CHARACTERISTICS
Penetrex Processing Inc. - 10/19/93

Toxicity Factor: 1.00E+02

Sum of Source Hazardous Waste Quantity Values: 1.03E+01

Hazardous Waste Quantity Factor: 10

Waste Characteristics Factor Category: 6

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT TARGETS Penetrex Processing Inc. - 10/19/93

Targets

Level I Population: 6.0 Value: 60.00

Documentation for Level I Population:

Soil sample collected from on-site dry well identified concentrations of chlorinated compounds above NYSDEC soil cleanup objectives for the protection of groundwater. Groundwater has been impacted. Two private residences border the site and are within 200 ft of the dry wells. A total population of 6 was scored by assuming three individuals per household.

Reference: 1

Level II Population: 0.0 Value: 0.00

Workers: 6.0 Value: 5.00

Documentation for Workers:

There are currently two active businesses at the site, an automotive repair shop and a woodworking shop. Exact number of employees is unknown, (assumed three workers per business).

Reference: 1

Resident Individual: Level I Value: 50.00

Resources: NO Value: 0.00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE:
SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT TARGETS
Penetrex Processing Inc. - 10/19/93

Documentation for Resources:

No resources identified.

Reference: 1

Terrestial Sensitive Environment

Value

- N/A and/or data not specified

Terrestrial Sensitive Environments Factor: 0.00

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE:
SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE
Penetrex Processing Inc. - 10/19/93

9

0

Likelihood of Exposure

Level of Attractiveness/ Area of Contam.
No. Source ID Contamination Accessibility (sq. feet)

- N/A and/or data not specified

Highest Attractiveness/Accessibility Value: 0 Sum of Eligible Areas Of Contamination (sq. feet):

Area of Contamination Value: 0

Likelihood of Exposure Factor Category: 0

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: doc here

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Penetrex Processing Inc. - 10/19/93

Source: 1 soil

Source Hazardous Waste Quantity Value: 10.30

Hazardous Substance		kicity lue		
Dichloroethylene,	cis-1,2-	100		
Dichloroethylene,	trans-1,2-	100		
Tetrachloroethene	2	100		
Trichloroethylene	2	10		

PREscore 2.0 - PRESCORE.TCL File 05/11/93 PAGE: doc here

11

Penetrex Processing Inc. - 10/19/93

Source: 2

Source Hazardous Waste Quantity Value: 0.00

	xicity lue		
Dichloroethylene, cis-1,2-	100		
Dichloroethylene, trans-1,2-	100		
Tetrachloroethene	100		
Trichloroethane, 1,1,1-	10		
Trichloroethylene	10		

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 12 doc here
Penetrex Processing Inc. - 10/19/93

Toxicity Factor:	0.00E+00
Sum of Source Hazardous Waste Quantity Values:	0.00E+00
Hazardous Waste Quantity Factor:	0
Waste Characteristics Factor Category:	0

13

Targets

Level I Population: 393.0 Value: 0.00

doc here

Level II Population: 393.0 Value: 1.30

doc here

Workers: 3050.0 Value: 3.30

doc here

Documentation for Population > 0 to 1/4 mile Distance Category:

Population data estimated using LMS GIS.

Reference: 22

Documentation for Population > 1/4 to 1/2 mile Distance Category:

Reference: 22

Documentation for Population > 1/2 to 1 mile Distance Category:

Reference: 22

1

PAGE:

PREscore 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY SCORESHEET Penetrex Processing Inc. - 10/22/93

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release 2. Potential to Release	550	0
2a. Gas Potential to Release	500	0
2b. Particulate Potential to Release 2c. Potential to Release	500 500	0
3. Likelihood of Release	550	Ö
Waste Characteristics		
4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics	* * 100	0.00E+00 10 0
Targets		
7. Nearest Individual 8. Population	50	2.00E+01
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
<pre>8c. Potential Contamination 8d. Population (lines 8a+8b+8c)</pre>	**	5.00E+01 5.00E+01
9. Resources	5	0.00E+01
10. Sensitive Environments		0.001.00
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	6.25E-01
10c. Sens. Environments(lines 10a+10b)	***	6.25E-01
11. Targets (lines 7+8d+9+10c)	**	7.06E+01
AIR MIGRATION PATHWAY SCORE (Sa)	100	0.00E+00

^{*} Maximum value applies to waste characteristics category.
** Maximum value not applicable.

^{***} No specific maximum value applies, see HRS for details.

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93
AIR PATHWAY LIKELIHOOD OF RELEASE
Penetrex Processing Inc. - 10/22/93

PAGE:

2

OBSERVED RELEASE

			Distance			
No.	Sample	ID	(miles)	Level	of	Contamination

- N/A and/or data not specified

Observed Release Factor:

0

PREscore 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY LIKELIHOOD OF RELEASE Penetrex Processing Inc. - 10/22/93

Gas Migration Potential

GAS POTENTIAL TO RELEASE

Gas Gas Gas Source Migrtn. Potential Gas Contain.Type Potent. to Rel. Value Value Value Sum Value Source Source ID Type (A) (B) (C) (B+C) A(B+C)

- N/A and/or data not specified

Gas Potential to Release Factor:

0

PAGE:

3

Documentation for Gas Containment, Source soil:

Contaminated soil is paved over or contained in drywells with lids.

Reference:

Documentation for Source Type, Source soil:

Soil samples collected during Phase II investigations of May 1989 and November 1989 identified chlorinated compounds as follows: Tetrachloroethylene 1200 mg/kg 86 mg/kg Trichloroethylene 1,2-Dichloroethylene 26 mg/kg Source (area of observed contamination) is limited to immediate area of drywells because the majority of the site is covered with asphalt.

Reference: 1,6,7

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY LIKELIHOOD OF RELEASE Penetrex Processing Inc. - 10/22/93

Source: soil

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
Dichloroethane, 1,1-	17
Dichloroethylene, cis-1,2-	17
Dichloroethylene, trans-1,2-	17
Tetrachloroethene	17
Trichloroethane, 1,1,1-	17
Trichloroethylene	17

Average of Gas Migration Potential Value for 3 Hazardous Substances: 17.000

Gas Migration Potential Value From Table 6-7: 17

PAGE: 4

PRESCORE 2.0 - PRESCORE.TCL File 05/11/93 PAGE: 5 AIR PATHWAY LIKELIHOOD OF RELEASE Penetrex Processing Inc. - 10/22/93

Source:

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
Dichloroethylene, cis-1,2-	17
Dichloroethylene, trans-1,2-	17
Tetrachloroethene	17
Trichloroethane, 1,1,1-	17
Trichloroethylene	17

Average of Gas Migration Potential Value for 3 Hazardous Substances: 17.000

Gas Migration Potential Value From Table 6-7: 17

PREscore 2.0 - PRESCORE.TCL File 05/11/93 AIR PATHWAY LIKELIHOOD OF RELEASE

PAGE:

6

0

Penetrex Processing Inc. - 10/22/93

PARTICULATE POTENTIAL TO RELEASE

Partic.Partic. Partic. Partic. Source Migrtn. Potential Contain.Type Potent. to Rel. Value Value Value Sum Value Source (B+C) A(B+C)Source ID Type (A) (B) (C)

Particulate Migration Potential

- N/A and/or data not specified

Particulate Potential to Release Factor:

Documentation for Particulate Containment, Source soil:

Asphalt cover resistant to gas migration.

Reference: 1

Documentation for Source Type, Source soil:

Soil samples collected during Phase II investigations of May 1989 and November 1989 identified chlorinated compounds as follows: Tetrachloroethylene 1200 mg/kg Trichloroethylene 86 mg/kg 1,2-Dichloroethylene 26 mg/kg Source (area of observed contamination) is limited to immediate area of drywells because the majority of the site is covered with asphalt.

Reference: 1,6,7

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Documentation for Particulate Migration Potential:

Assigned the factor value using HRS Figure 6-2.

Reference: 2

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Source: soil

Particulate Hazardous Substance

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Source:

Particulate Hazardous Substance

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Source: 1 soil

Source Hazardous Waste Quantity Value: 10.30

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value
Dichloroethane, 1,1-	10	NA	NA	0.00E+00
Dichloroethylene, cis-1,2-	100	NA	NA	0.00E+00
Dichloroethylene, trans-1,	2- 100	NA	NA	0.00E+00
Tetrachloroethene	100	NA	NA	0.00E+00
Trichloroethane, 1,1,1-	10	NA	NA	0.00E+00
Trichloroethylene	10	NA	NA	0.00E+00

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Hazardous Substances Found in an Observed Release

Sample Observed Release
ID Hazardous Substance

Particulate Toxicity/ Mobility Value

Gas Toxicity/

Mobility Value

- N/A and/or data not specified

Documentation for Particulate Mobility:

Assigned value using HRS Figure 6-3.

Reference: 2

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Toxicity/Mobility Value from Source Hazardous Substances:	0.00E+00
Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility Factor:	0.00E+00
Sum of Source Hazardous Waste Quantity Values:	1.03E+01
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	0

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Actual Contamination

No. Sample ID Distance (miles) Level of Contamination

- N/A and/or data not specified

Potential Contamination

Distance Categories Subject to Potential Contamination Population Value Onsite 0.4000 6.0 > 0 to 1/4 mile 393.0 13.1000 > 1/4 to 1/2 mile 1339.0 8.8000 > 1/2 to 1 mile 3050.0 8.3000 > 1 to 2 miles 17115.0 8.3000 > 2 to 3 miles 17894.0 3.8000 > 3 to 4 miles 42733.0 7.3000

Potential Contaminantion Factor: 50.0000

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Nearest Individual Factor

Level of Contamination: Potential

Distance in miles: 0 to 1/8

Nearest Individual Value: 20

Documentation for Nearest Individual:

Building on site is partially occupied with a automotive repair shop and a wood working shop.

Reference: 1

Resources

Resource Use: NO

Resource Value: 0

Documentation for Resources:

No resources identified.

Reference:

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Actual Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value
- N/A and/or data not sp	pecified	

Actual Contamination, Wetlands

Distance	Wetland	Wetland
Category	Acreage	Acreage Value
- N/A and/or data no	t specified	

Sensitive Environments Actual Contamination Factor: 0.000 (Sum of Sensitive Environments + Wetlands Values)

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Potential Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value	Distance Weight	Weighted Value/10
- N/A and/or data not sp	ecified			

Potential Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value	Distance Weight	Weighted Value/10
> 0 to 1/4 mile	10.0	25.0	0.2500	0.625
Motal Notland Agreemen	10.0			

Total Wetland Acreage: 10.0

Sum of Wetland Weighted Acreage Values/10:

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Sensitive Environment Potential Contamination Factor: