

314022  
2/92

New York State Department of Environmental Conservation  
Division of Hazardous Waste Remediation  
Bureau of Hazardous Site Control  
Additions/Change to Registry Summary of Approvals

Site Name DUTCHESS COUNTY AIRPORT LANDFILL DEC I.D. Number 314022

Current Classification 2A

Activity  Add as Class  Reclassify to   Delist Category  Modify

Approvals.

Regional Hazardous Waste Engineer Yes  No  1/31/92

NYSDOH Yes  No  1/15/92 P

DEE Yes  No  3/1/91

BHSC: a. Investigation Section Yes  No  2/28/91

b. Site Control Section J. J. F. Date 2/13/92

c. Director John B. Swartwout Date 2/18/92

DHWR Assistant Director letter mailed 3/5/92 Charles Holden Date 2/27/92

For Proposed Class 2a Sites Only:

Anticipated Action: \_\_\_\_\_  
\_\_\_\_\_

By Whom: \_\_\_\_\_

Time Frame: \_\_\_\_\_



# STATE OF NEW YORK DEPARTMENT OF HEALTH

*Robert  
Mann*

Corning Tower    The Governor Nelson A. Rockefeller Empire State Plaza    Albany, New York 12237

Lorna McBarnette  
Executive Deputy Commissioner

OFFICE OF PUBLIC HEALTH  
Sue Kelly  
Executive Deputy Director

January 15, 1992

Mr. Earl Barcomb  
Bureau of Hazardous Site Control  
Division of Hazardous Waste Remediation  
NYS Dept. of Environmental Conservation  
50 Wolf Road  
Albany, NY 12233

RE:    Reclassification Packages for  
Dutchess County Airport Landfill  
(#314023) and Dutchess County  
Airport Balefill (#314023)

Dear Mr. Barcomb:

My staff have reviewed the reclassification packages for the Dutchess County Airport Landfill, #314022, and the Dutchess County Airport Balefill, #314023. We concur with the proposals to delist both sites with referral of both sites to the Division of Solid Waste for proper closure of the landfills under Part 360. Of particular concern is the need to properly cap both sites to minimize the production of leachate and the impact on ground and surface waters.

If you have any questions regarding this matter please feel free to call me or Mr. Steven Bates of my staff at (518) 458-6310.

Sincerely,

G. Anders Carlson, Ph.D.  
Director  
Bureau of Environmental Exposure  
Investigation

1k/20140953

cc:    Dr. N. Kim  
       Mr. S. Bates  
       Mr. L. Wilson  
       Mr. M. O'Toole  
       Mr. R. Pergadia - DEC Reg. 3  
       Mr. R. Dana - DEE

**ADDITIONS/CHANGES TO REGISTRY  
OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES**

1. SITE NAME Dutchess Co. Airport Landfill		2. SITE NO. 314022		3. TOWN Wappinger		4. COUNTY Dutchess	
5. REGION 3		6. CLASSIFICATION Current <u>2a</u> / Proposed <u>D1</u>		7. ACTIVITY <input type="checkbox"/> Add <input type="checkbox"/> Reclassify <input checked="" type="checkbox"/> Delist <input type="checkbox"/> Modify			
8a. DESCRIBE LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location). The site is north of the Dutchess County Airport, about 100 to 200 feet south of Wappinger Creek. It is located in the Town of Wappinger, just south of the Town of Poughkeepsie.							
b. Quadrangle <u>Poughkeepsie</u> c. Site Latitude <u>41°37'55"</u> Longitude <u>73°52'45"</u> d. Tax Map Number _____							
9a. BRIEFLY DESCRIBE THE SITE (Attach site plan showing disposal/sampling locations) The site was a municipal landfill serving the City of Poughkeepsie, and the Towns of Poughkeepsie, Wappinger, and LaGrange from 1968 to 1972. A spray irrigation system which recirculates leachate exists but is in a state of disrepair, and leachate has been observed entering Wappinger Creek. As part of a Phase II Investigation, three monitoring wells were installed and surface water, sediments, leachate, and groundwater were sampled.							
b. Area <u>60</u> acres c. EPA ID Number <u>NYD980508196</u> d. PA/SI <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
e. Completed: <input checked="" type="checkbox"/> Phase I <input checked="" type="checkbox"/> Phase II <input type="checkbox"/> PSA <input type="checkbox"/> Sampling							
10. BRIEFLY LIST THE TYPE AND QUANTITY OF THE HAZARDOUS WASTE AND THE DATES THAT IT WAS DISPOSED OF AT THIS SITE This landfill accepted primarily municipal waste with smaller amounts of commercial and industrial wastes. No records exist confirming hazardous waste disposal. Sampling results from the Phase II are not indicative of hazardous waste disposal at this site.							
11a. SUMMARIZED SAMPLING DATA ATTACHED <input type="checkbox"/> Air <input checked="" type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Surface Water <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Waste <input type="checkbox"/> EP Tox <input type="checkbox"/> TCLP							
b. List contravened parameters and values Several parameters contravened groundwater and surface water standards, however, the levels are similar in upgradient and downgradient samples. The results also are not indicative of hazardous waste disposal. See attached data. Most of the tentatively identified organic compounds appear to be a result of the nearby airport activity.							
12. SITE IMPACT DATA							
a. Nearest surface water: Distance <u>100</u> ft Direction <u>North</u> Classification <u>Class B</u>							
b. Nearest groundwater: Depth <u>2</u> ft Flow Direction <u>North</u> <input type="checkbox"/> Sole Source <input type="checkbox"/> Primary <input type="checkbox"/> Principal							
c. Nearest water supply: Distance <u>700</u> ft Direction <u>Southwest</u> Active <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
d. Nearest building: Distance <u>700</u> ft Direction <u>Southwest</u> Use <u>Commercial</u>							
e. Crops or livestock on site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
f. Exposed hazardous waste? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
g. Controlled site access? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
h. Documented fish or wildlife mortality? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
i. Impact on special status fish or wildlife resource? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
j. Within a State Economic Development Zone? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
k. For Class 2a: Code _____ Health Mode: Score _____							
l. For Class 2: Priority Category _____							
m. HRS Score _____							
n. Significant Threat <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown							
13. SITE OWNER'S NAME Dutchess County			14. ADDRESS 22 Market Street, Poughkeepsie, NY 12601			15. TELEPHONE NUMBER ( )	
16. PREPARER Lawrence J. Alden Environmental Engineer 2 NYSDEC Name, Title and Organization <u>2/14/91</u> Date <u>Lawrence Alden</u> Signature							
17. APPROVED <u>Richard H. Dana</u> Chief Bur. of Technical Services, DEB Name, Title and Organization <u>3/1/91</u> Date <u>Richard H. Dana</u> Signature							

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

CLASSIFICATION CODE: D1

REGION: 3

SITE CODE: 314022

EPA ID: NYD980508196

NAME OF SITE : Dutchess County Airport Landfill

STREET ADDRESS: Route 376

TOWN/CITY:

Wappinger

COUNTY:

Dutchess

ZIP:

12590

SITE TYPE: Open Dump- Structure- Lagoon- Landfill-X Treatment Pond-  
ESTIMATED SIZE: 30 Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: Dutchess County

CURRENT OWNER ADDRESS.: 22 Market Street, Poughkeepsie, NY

OWNER(S) DURING USE...: Dutchess County

OPERATOR DURING USE...: Dutchess County DPW

OPERATOR ADDRESS.....: 22 Market Street, Poughkeepsie, NY

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 1968 To 1972

SITE DESCRIPTION:

This landfill was used jointly by the City of Poughkeepsie, Village of Wappingers Falls, Town of Wappinger, Town of Poughkeepsie and Town of LaGrange for disposal of mixed municipal wastes, and may contain some industrial wastes. The site lies on flat topography, but was probably wet previously. Wappingers Creek is adjacent to the site on the north and west faces. The site is adjacent to the Dutchess County Airport. Vegetative growth is well established. The site leaches into a collection/recirculation system.

Phase I and II investigations have been completed. Samples collected during the Phase II did not indicate a release of hazardous constituents from the landfill. The Phase II indicated that there is an uncontrolled leachate flow on the north side of the landfill. However, this flow was sampled and found to contain only certain compounds typical of aviation fuel, which are normally encountered in the general area.

There has been no documented disposal of hazardous waste at this site.

TYPE

QUANTITY (units)

ANALYTICAL DATA AVAILABLE:

Air- Surface Water-X Groundwater-X Soil- Sediment-X

CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water- Surface Water- Air-

LEGAL ACTION:

TYPE..: State- Federal-  
STATUS: Negotiation in Progress- Order Signed-

REMEDIAL ACTION:

Proposed- Under design- In Progress- Completed-  
NATURE OF ACTION:

GEOTECHNICAL INFORMATION:

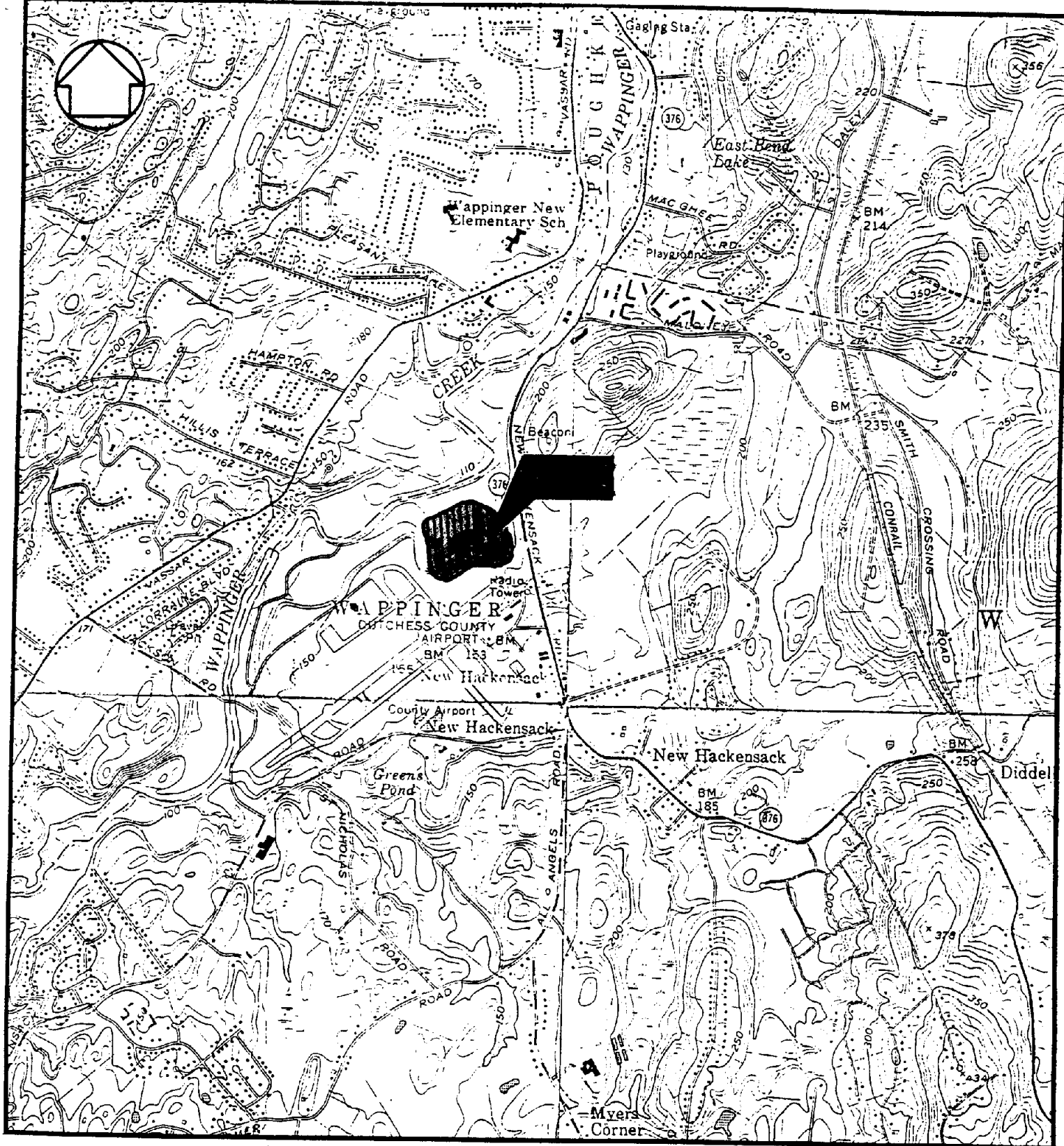
SOIL TYPE:

GROUNDWATER DEPTH: approx. 2 ft.

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Samples collected during the Phase II did not indicate a release of hazardous constituents, however, there is an uncontrolled leachate flow on the north side of the landfill, but was found not to contain any hazardous constituents.

ASSESSMENT OF HEALTH PROBLEMS:



TOPOGRAPHY TAKEN FROM  
 PLEASANT VALLEY, N.Y. 1957  
 (PHOTO REVISED 1981)  
 HOPEWELL JUNCTION, N.Y. 1967  
 (PHOTO REVISED 1981)  
 WAPPINGERS FALLS, N.Y. 1956  
 (PHOTO REVISED 1981)  
 POUGHKEEPSIE, N.Y. 1957  
 (PHOTO REVISED 1982)  
 U.S.G.S. QUADRANGLE  
 7.5 MIN. SERIES

SCALE: 1"=2000'



MAP LOCATION

FIGURE 1-1

**SITE MAP LOCATION**

**DUTCHESS COUNTY AIRPORT  
 LANDFILL**

LAT. 41° 37' 55" N LONG. 73° 52' 45" W

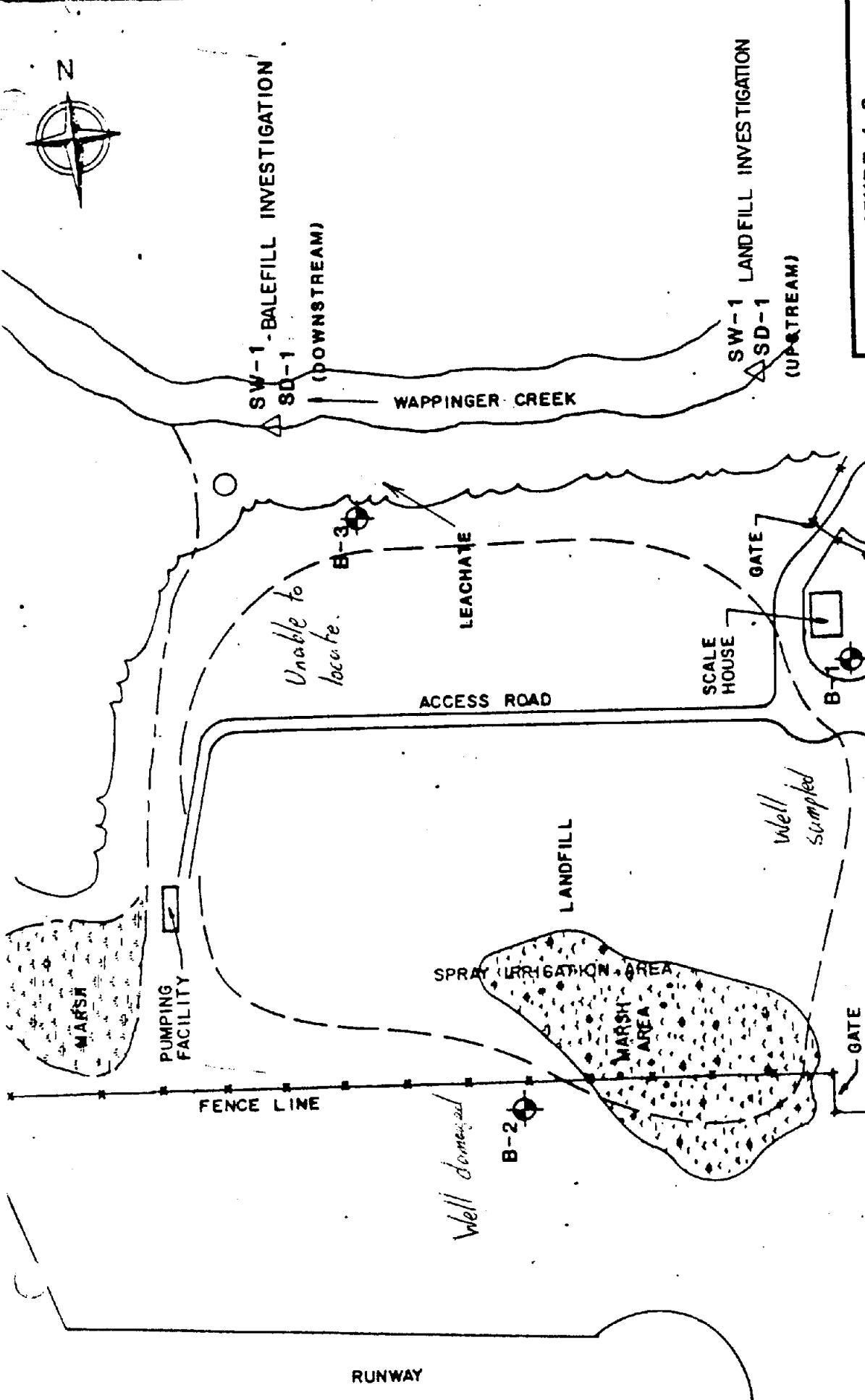


FIGURE 4-2  
**SAMPLING LOCATIONS**  
 DUTCHESS COUNTY  
 AIRPORT LANDFILL  
 N.T.S.

- NEW YORK ROUTE 376
- LEGEND**
- B-1S MONITORING WELL LOCATION AND NUMBER
  - SW-1 SURFACE WATER SAMPLE AND NUMBER
  - SD-1 SEDIMENT SAMPLE AND NUMBER
  - LEACHATE SEDIMENT SAMPLE

## 1.0 EXECUTIVE SUMMARY

The Dutchess County Airport Landfill (New York Site Code 314022) is located adjacent to the Dutchess County Airport, two miles northeast of the Village of Wappingers Falls, New York (Figure 1-1). The site is located in a rural residential area in the Town of Wappinger, Dutchess County, New York. It is located 100 to 200 feet south of Wappinger Creek. New Hackensack Road borders the site to the west. This 60-acre site was used as a sanitary landfill serving the City of Poughkeepsie, Town of Poughkeepsie, Town of Wappinger and the Town of LaGrange from 1968 to 1972. This site has been inactive since 1974, when a final cover was placed over it. The landfill had reportedly received a variety of household, commercial and industrial wastes during its operation.

Leachate has been observed emanating around the periphery of the fill area on the west side and to a lesser degree on the north side of the landfill. There is a leachate collection system along the western end of the site which recirculates leachate to a spray irrigation area along the southern edge of the site. The system is in disrepair. Leachate overflow enters a small remnant wetland near the west side of the landfill. Drainage from this wetland discharges intermittently to Wappinger Creek. A pool of stained water adjacent to the creek along the north side of the landfill appears to be a potential point of uncontrolled leachate discharge to Wappinger Creek.

The specific geology of the site was determined from information obtained during the drilling of three overburden monitoring wells during the Phase II investigation. Materials encountered included alluvial deposits and glacial till. Bedrock consisting of shale and slate with quartz-filled fractures was encountered in a test boring at a depth of 35 feet. Water levels ranged from 3.5 to 33 feet below surface level. Groundwater flows to the west and north towards Wappinger Creek.

Laboratory analysis of groundwater, surface water and sediment samples collected during the Phase II investigation do not present any pattern indicative of a release of hazardous constituents from the landfill. Analysis of leachate sediments collected on site indicated the presence of the



following contaminants: total xylenes (124 ug/l), ethylbenzene (100 ug/l), chlorobenzene (94 ug/l), toluene (14 ug/l), and benzene (11 ug/l). However, these contaminants are not attributable to the landfill because they were also found in the upstream Wappinger Creek sediment sample in similar concentrations and may reflect the possible contribution of high octane fuels or fuel combustion products in runoff from the airport. These compounds were not confirmed in the groundwater samples.

Residents within three miles of the site depend on wells for drinking water. The population served by wells within a three-mile radius of the site is approximately 13,624. The closest potable well is located approximately 700 feet southwest of the landfill at the Cessna Citation Service Center facility at the Dutchess County Airport. The Atlas Water Company's well, which serves approximately 1,300 residents, is located approximately 4,000 feet downgradient of the site. The monitoring well data obtained during this Phase II investigation do not suggest that these supplies are currently at risk from the landfill.

Based on available data, the Hazard Ranking system (HRS) scores for this site are as follows: Migration Score ( $S_M$ ) = No Score and Direct Contact Score ( $S_{DC}$ ) = No Score. "No Score" was assigned where a score could not be calculated due to a lack of documentation of hazardous wastes at the site.

Although their is insufficient evidence to confirm that the landfill is releasing hazardous constituents, improvements could be made to reduce the discharge of leachate to groundwater and surface water.

TABLE 4-3

DUTCHESS COUNTY AIRPORT LANDFILL  
SUMMARY OF HAZARDOUS SUBSTANCE LIST

CAS Number	Compound	Groundwater, ug/l			Surface* Water, ug/l		Sediments* ug/kg		Leachate Sediments ug/l
		B-1	B-2	B-3	Up-stream SW-1 (ALF)	Down-stream SW-1 (BLF)	Up-stream SD-1 (ALF)	Down-stream SD-1 (BLF)	
75092	Methylene Chloride	2JB	2JB	3JB	2JB	2JB	14B	11B	22B
67641	Acetone	3JB	3JB	3JB	3JB		12B	9JB	105B
108101	4-Methyl-2-pentanone		1JB						
67663	Chloroform					1JB	4JB	3JB	11B
71432	Benzene						10		11
108883	Toluene	1JB					3J		14
108907	Chlorobenzene	1J	1J				82		94
100414	Ethylbenzene		1JB				78		100
--	Total Xylenes						97		124
117817	bis(2-Ethylhexyl) phthalate	36	170	68		64B			
76448	Heptachlor							8.5	

## Notes

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Blank spaces indicate not detected (see Appendix B for detection limits).

\* ALF - Airport Landfill  
BLF - Airport Balefill

TABLE 4-4

DUTCHESS COUNTY AIRPORT LANDFILL  
TENTATIVELY IDENTIFIED ORGANIC COMPOUNDS

CAS Number	Compound	Groundwater, ug/l			Surface* Water, ug/l		Sediments* ug/kg		Leachate Sediments ug/l
		B-1	B-2	B-3	Up-stream SW-1 (ALF)	Down-stream SW-1 (BLF)	Up-stream SD-1 (ALF)	Down-stream SD-1 (BLF)	
1560936	2-Methyl pentadecane	46							
55045084	2-Methyl-6-propyl dodecane	280							
629925	Hexadecane	27	85						
629787	Heptadecane	500	110						
54833486	2,6,10,15-tetramethyl heptadecane	26							
629925	Nonadecane	210	74						
128370	2,6-bis(1,1-dimethylethyl)-4-methylphenol		11B	21B	26B	14B			
13287235	8-methyl heptadecane			31					
55045119	5-propyl tridecane			21					
54833486	2,6,7,10-tetramethyl heptadecane			31					
2216333	3-methyl octane						9,900	7,600	19,000
2216344	4-methyl octane						10,000		
2213232	2,4-dimethyl heptane								20,000
112958	Eicosane	110		40					
54833237	10-methyl eicosane			12					
44433564	Eicosyl cyclohexane			24					
--	Unknown (total)	1,358	50	357	0	0	13,823	11,240	22,377

## Notes

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Blank spaces indicate not detected. See Appendix B for detection limits.

\* ALF - Airport Landfill  
BLF - Airport Balefill

TABLE 4-5

**DUTCHESS COUNTY AIRPORT LANDFILL  
INORGANIC ANALYSIS SUMMARY**

Parameter	Groundwater, ug/l			Surface* Water, ug/l		Sediments, mg/kg*		Leachate Sediments mg/kg
	Well	Well	Well	Up- stream Sample	Down- stream Sample	Up- stream Sample	Down- stream Sample	
	B-1	B-2	B-3	SW-1 (ALF)	SW-1 (BLF)	SD-1 (ALF)	SD-1 (BLF)	
Aluminum	853	2,070	1,340		465 <sup>3</sup>	13,300	15,400	9,600
Arsenic						4,020		27,300
Barium		232	200			61.9		458
Cadmium	5.93		6.32					3.38
Calcium	93,000	168,000	128,000	28,800	28,900	2,310		71,900
Chromium						13.6	14.6	10.1
Copper						15.8	17.4	33.7
Cyanide						0.43	0.39	1.92
Iron	3,240 <sup>1</sup>	9,100 <sup>1</sup>	3,220 <sup>1</sup>	101	224	23,800	27,000	143,000
Lead	85.2 <sup>1</sup>	120 <sup>1</sup>	7.40	12.0	19.2	34.8	11.9	29.3
Magnesium	21,600	48,800 <sup>2</sup>	8,150	8,620	8,550	4,670	5,980	3,610
Manganese	1,060 <sup>1</sup>	10,300 <sup>1</sup>	3,000 <sup>1</sup>	32.0	33.1	943	466	3,060
Nickel						18.9	21.9	20.3
Potassium	6,800	6,190	5,090		1,110 <sup>4</sup>	817 <sup>4</sup>	630 <sup>4</sup>	1,110 <sup>4</sup>
Sodium	11,700	52,900	76,600	11,300	12,700			
Vanadium						15.5	15.0	31.0
Zinc	287	50.3	123			85.8	73.8	205
Mercury		0.3	0.4			0.2		

Blank spaces indicate not detected (see Appendix B for detection limits).

<sup>1</sup> Exceeds standards for Class GA waters

<sup>2</sup> Exceeds guidelines for Class GA waters

<sup>3</sup> Exceeds aquatic guidelines or standards for surface water (fresh)

<sup>4</sup> Indicates the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit

\*ALF -Airport Landfill

BLF -Airport Balefill

TABLE 4-6

DUTCHESS COUNTY AIRPORT LANDFILL  
ANALYTICAL RESULTS OF WATER QUALITY PARAMETERS\*

Identification	Parameter						
	pH	Total Suspended Solids, mg/l	Total Dissolved Solids Dried at 180° C, mg/l	Chemical Oxygen Demand mg/l	Specific Conductance, umhos/cm	Total Solids (%)	Specific Gravity
B-1	7.87	938	204	50.3	380		
B-2	6.53	28,750	666	76.7	1,350		
B-3	8.80	11,200	2,500	5.42	10,000		
Upstream SW-1 (ALF)	7.83	< 1.0	15.7	17.3	250		
Downstream SW-1 (BLF)	7.82	< 1.0	164	< 1.0	220		
Field Blank	7.43	< 1.0	< 1.0	< 1.0	6		
Upstream SD-1 (ALF)						61.70	4.59
Downstream SD-1 (BLF)						78.09	4.52
Leachate Sediments						42.07	9.13

\*Samples collected March 5, 1986 by Wehran Engineering; see Figure 1-2 for sample locations.

**TABLE 4-7  
DUTCHESS COUNTY AIRPORT LANDFILL  
QA/QC BLANK ANALYSIS SUMMARY**

CAS Number	Parameter	Blank Concentrations			
		Trip ug/l	Field ug/l	Method (Water) ug/l	Method (Soil) ug/kg
75092	Methylene Chloride	6	4J	3J	8
67641	Acetone	3J		3J	9J
108101	4-Methyl-2-pentanone	2J		4J	
67663	Chloroform	2J	2J	2J	4J
108883	Toluene			1J	
100414	Ethylbenzene	1J		1J	
591786	2-Hexanone	2J		6J	
75343	1,1-Dichloroethane			1J	
128370	2,6-bis(1,1-dimethylethyl) 4-methyl phenol		25	20	
2216333	3-methyl octane				6,900
2213232	2,4-dimethyl heptane				7,000
--	Unknown hydrocarbon (Total)	47	31		2,045
	Lead		21.2	5.70	
	Manganese			23	

Notes

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

Blank spaces indicate not detected. See Appendix B for detection limits.

1A  
VOLATILE ORGANICS ANALYSIS SHEET

EPA SAMPLE NO.

169007

Lab Name: RF WESTON, INC

Contract: 1667-07-01-

Lab Code: WESTON

Case No.: SH391

SAS No.: \_\_\_\_\_

SDG No.: 0725

Matrix: (soil/water) WATER

Lab Sample ID: 9107L276-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W073010

Level: (low/med) LOW

Date Received: 07/26/91

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 07/30/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:

(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

SEMIVOLATILE ORGANICS ANALYSIS SHEET

EPA SAMPLE NO.

169007

Lab Name: RF WESTON, INC

Contract: 1667-07-01-

Lab Code: WESTON

Case No.: SH391

SAS No.: \_\_\_\_\_

SDG No.: 0725

Matrix: (soil/water) WATER

Lab Sample ID: 9107L276-001

Sample wt/vol: 990 (g/mL) ML

Lab File ID: P080111

Level: (low/med) LOW

Date Received: 07/26/91

% Moisture: not dec. \_\_\_\_\_ dec.

Date Extracted: 07/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/01/91

GPC Cleanup: (Y/N) N pH: 6.0

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L

108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U



1C  
SEMIVOLATILE ORGANICS ANALYSIS SHEET

EPA SAMPLE NO.

169007

Lab Name: RF WESTON, INC

Contract: 1667-07-01-

Lab Code: WESTON

Case No.: SH391

SAS No.: \_\_\_\_\_

SDG No.: 0725

Matrix: (soil/water) WATER

Lab Sample ID: 9107L276-001

Sample wt/vol: 990 (g/mL) ML

Lab File ID: P080111

Level: (low/med) LOW

Date Received: 07/26/91

% Moisture: not dec. \_\_\_\_\_ dec.

Date Extracted: 07/30/91

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 08/01/91

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) ug/L

99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-Octyl phthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	DiBenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM 1 SV-2

1/87 Rev.

1  
INORGANIC ANALYSIS DATA SHEET

169007

Lab Name: ROY F. WESTON, INC - L372 Contract: 1667-07-01

Lab Code: WESTON Case No.: SH391 SAS No.: SDG No.: CLP276

Matrix (soil/water): WATER Lab Sample ID: 910727601

Level (low/med): LOW Date Received: 7/26/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19936.60			P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	7.70	B	N	F
7440-39-3	Barium	173.60	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	2.00	U		P
7440-70-2	Calcium	142613.40			P
7440-47-3	Chromium	9.50	B		P
7440-48-4	Cobalt	21.50	B		P
7440-50-8	Copper	65.40			P
7439-89-6	Iron	44138.80			P
7439-92-1	Lead	21.40		NS	F
7439-95-4	Magnesium	39823.90			P
7439-96-5	Manganese	2205.50			P
7439-97-6	Mercury	.20	U		CV
7440-02-0	Nickel	41.00			P
7440-09-7	Potassium	3618.40	B		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	6382.00		E	P
7440-28-0	Thallium	2.00	U	NW	F
7440-62-2	Vanadium	40.70	B	E	P
7440-66-6	Zinc	150.10			P
	Cyanide	10.00	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:  
 Color After: COLORLESS Clarity After: CLEAR Artifacts:  
 Comments:

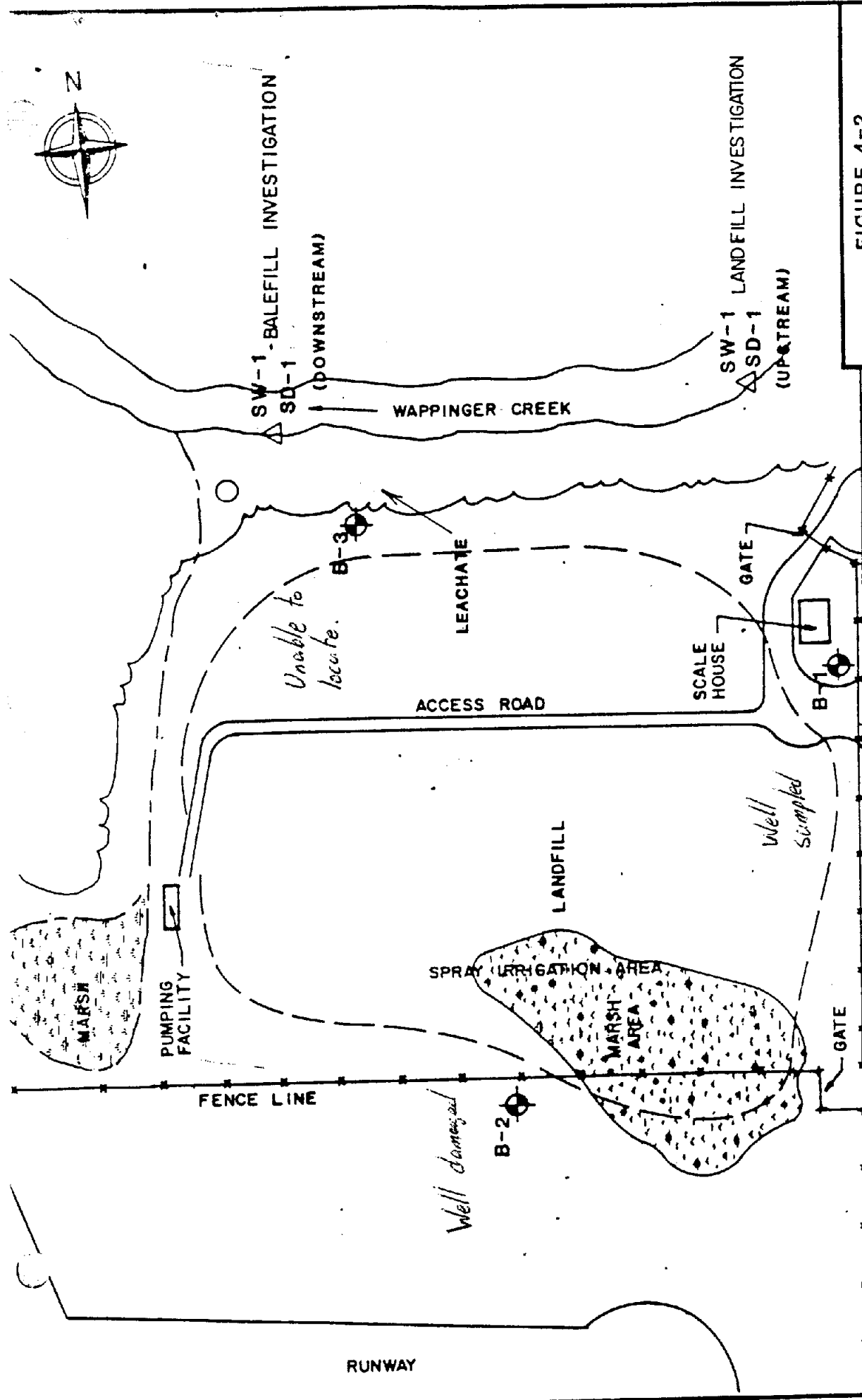


FIGURE 4-2  
**SAMPLING LOCATIONS**  
 DUTCHESS COUNTY  
 AIRPORT LANDFILL

N.T.S.

NEW YORK ROUTE 376

**LEGEND**

- B-1S MONITORING WELL LOCATION AND NUMBER
- LEACHATE SEDIMENT SAMPLE
- SW-1 SURFACE WATER SAMPLE AND NUMBER
- SD-1 SEDIMENT SAMPLE AND NUMBER

0000014

1A  
VOLATILE ORGANICS ANALYSIS SHEET

EPA SAMPLE NO.

169007

Lab Name: RF WESTON, INC

Contract: 1667-07-01-

Lab Code: WESTON

Case No.: SH391

SAS No.: \_\_\_\_\_

SDG No.: 0725

Matrix: (soil/water) WATER

Lab Sample ID: 9107L276-001

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: W073010

Level: (low/med) LOW

Date Received: 07/26/91

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 07/30/91

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	JB
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

0000015

1B

EPA SAMPLE NO.

## SEMIVOLATILE ORGANICS ANALYSIS SHEET

169007

Lab Name: RF WESTON, INCContract: 1667-07-01-Lab Code: WESTONCase No.: SH391

SAS No.: \_\_\_\_\_

SDG No.: 0725Matrix: (soil/water) WATERLab Sample ID: 9107L276-001Sample wt/vol: 990 (g/mL) MLLab File ID: POB0111Level: (low/med) LOWDate Received: 07/26/91

% Moisture: not dec. \_\_\_\_\_ dec.

Date Extracted: 07/30/91Extraction: (SepF/Cont/Sonc) SEPFDate Analyzed: 08/01/91GPC Cleanup: (Y/N) NpH: 6.0Dilution Factor: 1.00

## CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) ug/L

108-95-2-----Phenol	10	U
111-44-4-----bis(2-Chloroethyl)ether	10	U
95-57-8-----2-Chlorophenol	10	U
541-73-1-----1,3-Dichlorobenzene	10	U
106-46-7-----1,4-Dichlorobenzene	10	U
100-51-6-----Benzyl alcohol	10	U
95-50-1-----1,2-Dichlorobenzene	10	U
95-48-7-----2-Methylphenol	10	U
108-60-1-----bis(2-Chloroisopropyl)ether	10	U
106-44-5-----4-Methylphenol	10	U
621-64-7-----N-Nitroso-Di-n-propylamine	10	U
67-72-1-----Hexachloroethane	10	U
98-95-3-----Nitrobenzene	10	U
78-59-1-----Isophorone	10	U
88-75-5-----2-Nitrophenol	10	U
105-67-9-----2,4-Dimethylphenol	10	U
65-85-0-----Benzoic acid	50	U
111-91-1-----bis(2-Chloroethoxy)methane	10	U
120-83-2-----2,4-Dichlorophenol	10	U
120-82-1-----1,2,4-Trichlorobenzene	10	U
91-20-3-----Naphthalene	10	U
106-47-8-----4-Chloroaniline	10	U
87-68-3-----Hexachlorobutadiene	10	U
59-50-7-----4-Chloro-3-methylphenol	10	U
91-57-6-----2-Methylnaphthalene	10	U
77-47-4-----Hexachlorocyclopentadiene	10	U
88-06-2-----2,4,6-Trichlorophenol	10	U
95-95-4-----2,4,5-Trichlorophenol	50	U
91-58-7-----2-Chloronaphthalene	10	U
88-74-4-----2-Nitroaniline	50	U
131-11-3-----Dimethylphthalate	10	U
208-96-8-----Acenaphthylene	10	U
606-20-2-----2,6-Dinitrotoluene	10	U

0000017

1C

EPA SAMPLE NO.

## SEMIVOLATILE ORGANICS ANALYSIS SHEET

169007

Lab Name: RF WESTON, INCContract: 1667-07-01-Lab Code: WESTONCase No.: SH391

SAS No.: \_\_\_\_\_

SDG No.: 0725Matrix: (soil/water) WATERLab Sample ID: 9107L276-001Sample wt/vol: 990 (g/mL) MLLab File ID: P080111Level: (low/med) LOWDate Received: 07/26/91

% Moisture: not dec. \_\_\_\_\_ dec.

Date Extracted: 07/30/91Extraction: (SepF/Cont/Sonc) SEPFDate Analyzed: 08/01/91GPC Cleanup: (Y/N) N pH: 6.0Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) ug/L

99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	50	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-Butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-Octyl phthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	DiBenzo(a,h)anthracene	10	J
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM 1 SV-2

1/87 Rev.

1  
INORGANIC ANALYSIS DATA SHEET

169007

Lab Name: ROY F. WESTON, INC - L372 Contract: 1667-07-01

Lab Code: WESTON Case No.: SH391 SAS No.: SDG No.: CLP276

Matrix (soil/water): WATER Lab Sample ID: 910727601

Level (low/med): LOW Date Received: 7/26/91

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19936.60			P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	7.70	B	N	F
7440-39-3	Barium	173.60	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	2.00	U		P
7440-70-2	Calcium	142613.40			P
7440-47-3	Chromium	9.50	B		P
7440-48-4	Cobalt	21.50	B		P
7440-50-8	Copper	65.40			P
7439-89-6	Iron	44138.80			P
7439-92-1	Lead	21.40		NS	F
7439-95-4	Magnesium	39823.90			P
7439-96-5	Manganese	2205.50			P
7439-97-6	Mercury	.20	U		CV
7440-02-0	Nickel	41.00			P
7440-09-7	Potassium	3618.40	B		P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	6382.00		E	P
7440-28-0	Thallium	2.00	U	NW	F
7440-62-2	Vanadium	40.70	B	E	P
7440-66-6	Zinc	150.10			P
	Cyanide	10.00	U		C

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments: