314023

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 Co. AIRI	ORT DEC I.D. Number 314023
Current Classification $2a$	
Activity Add as Class Reclassify	y to Belist Modify
Approvals.	
Regional Hazardous Waste Engineer	Yes No
NYSDOH	Yes No No
DEE	Yes No
BHSC: a. Investigation Section	Yes No
b. Site Control Sectionc. Director	Date 2/7/92
DHWR Assistant Director Letter mailed 2/18/92	Charlest John Date 2/11/92
. For Proposed Cl	ass 2a Sites Only:
Anticipated Action:	
By Whom:	:
Time Frame:	

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

Original—BHSC
Copy—REGION
Copy—DEE
Copy—DOH
Copy—PREPARER

ADDITIONS/CHANGES TO REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES

Γ.							·-· · · · · · · · · · · · · · · · · · ·		
1.	SITE NAME	0 1 1 1	1	2. SITE N		3. TOWN		.	4. COUNTY
_	REGION	County Airpor		<u>1 3140</u>		Wappinger		L	Dutchess
3.	3	6. CLASSIFICAT Current 2a		D1	7. ACTIVITY	Reclassify	💢 Delist	Mode	fu.
84	DESCRIBE					showing site locati			
						-		reek. t	o the northwest of
		ort off Citat							
					4400744	1011	7000010011		
						0", Longitude		d.	Tax Map Number
9a						ampling locations)			
									tchess County. The
									was baled by Dutchess
								the sid	es are very steeply
	s ropea.	A nearthy veg	getative co	over 1s	growing c	over the site.			
						÷			
		0.1			A R./F	000000000			V
	b. Area	$2\frac{1}{4}$	ocres c	EPA ID N	umber <u>NYL</u>	982530529	_ d. PA	/sı 🗌	Yes 🖺 No
	e. Complet				PSA	Sampling			
10.									OSED OF AT THIS SITE
									ccepted was likely
							ple result	s from	the Phase II are
	not indic	cative of haza	ardous wast	te dispo	isal at tr	is site.			
112	_	ED SAMPLING DA				_			
	L Air		LX Sur	face Wate	r 🗓 s	oil Waste	EP EP	Tox	TCLP.
	h List cont	ravened parameter	es and values						_
	D. 213(COM	ravened parameter	S MIIC VAIGES						
	Several i	inorganic para	meters are	e above	the stand	lards, but the	levels do	not su	ggest the disposal of
		waste. See						•	
				•					
12	SITE IMPAC	T DATA				·			
		ice water: Distanc	e 200	4.	.	north and wes	+	_	eation B
								Classific	
	_	ndwater: Depth			Direction		_	le Source	Primary Principal
C. I	Nearest water	r supply: Distance	<u>600</u>	t. Di	rection <u>SO</u>	utheast			_ Active 🔀 Yes 🗌 No
đ. I	Nearest build	ing Distance	.600ft	Direct	ionSO	utheast		Use	commercial
e. (Crops or lives	tock on site?	☐ Yes	ON D		j. Within a S	tate Economic	Developm	ent Zone? Yes X No
f. E	xposed haza	rdous waste?	🗋 Yes 💢	No		k. For Class	2a: Code		Health Model Score
g (Controlled sit	e access?	Yes 🗓 No	•		i	2. Priority Cate		
h I	Documented t	fish or wildlife mor			No.	m. HRS Scor	-	- g ,	
			•			. .		T.	
	SITE OWNER	cial status fish or	wilding resour			No n Significan	t Threat	Yes	No Unknown
		_		1	ADDRESS	St Poughko	ancia NV 1		15. TELEPHONE NUMBER
16	Dutchess PREPARER			<u> </u>	ZZ Market	St., Poughke	epsie, ivi	12001	()
		J. Alden	-	Fnvi	ronmental	Engineer 2	N	YSDEC	
-	I-CIT	. O4 / (10CI)		EIIY		and Organization	ΛΛΛ	TOOLO	
	2/15/9	2 (- Keletieni-	Hlden		
		ate					S	ignature	
17.	APPROVE		1 0	0	L 1	11.	C. 1.		1. 1. 6 6
-		<u>ی</u> کی	hn D.	Jwar'	Name. Title		Eastern	Lhr	estruation de ction
	2/2	r/91			STOTICS, TILLE	and Organization	1 -1	4	, <u> </u>
	D:	ale		•		John P.	~wan	ignature	

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

CLASSIFICATION CODE: D1

REGION: 3

SITE CODE: 314023

EPA ID:

NAME OF SITE: Dutchess County Airport Balefill

STREET ADDRESS: Airport Park

TOWN/CITY:

COUNTY:

ZIP:

Wappinger

Dutchess

12590

SITE TYPE: Open Dump- Structure- Lagoon- Landfill-X Treatment Pond-

ESTIMATED SIZE: 2.25 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

SITE DESCRIPTION:

This landfill for baled wastes is situated on approximately 55 acres of land owned by Dutchess County. The landfill was operated by the Dutchess County Department of Public Works during 1976-1977. The site is bounded by Wappingers Creek on the north and west and Jackson Road to the south. The Dutchess County Airport is adjacent to the eastern perimeter. Wappingers Creek separates the site from a residential area. Phase I and II investigations have been completed. The Phase II confirmed no release of hazardous constituents from the site in either groundwater wells, surface water or nearby sediments. There has been no documented disposal of hazardous waste at this site.

HAZARDOUS WASTE DISPOSED: Confirmed-TYPE

Suspected-

QUANTITY (units)

SITE CODE: 314023

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:

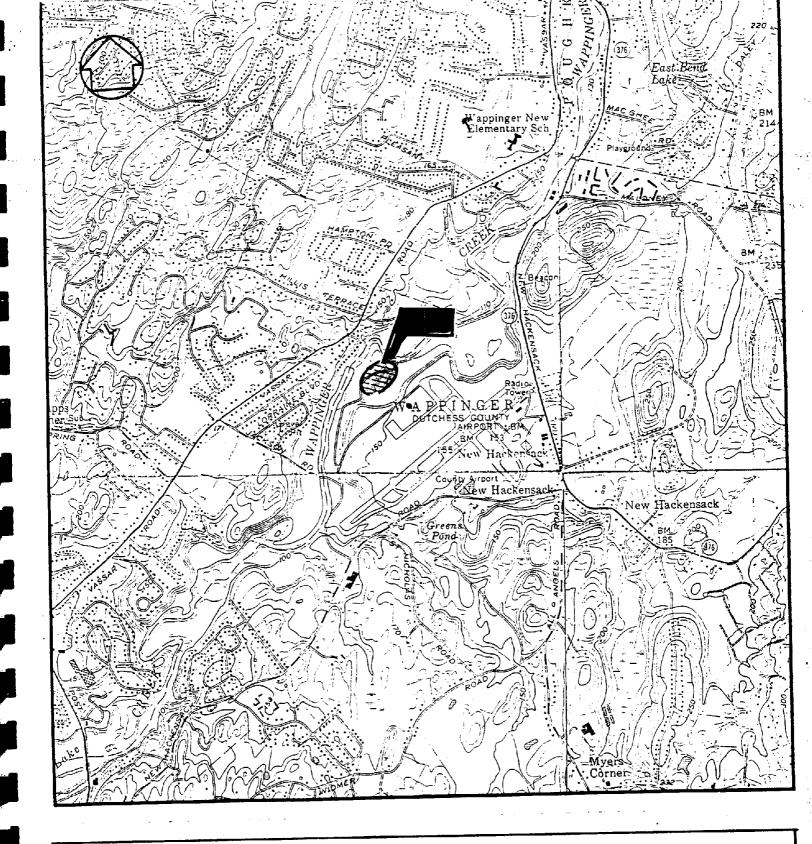
GROUNDWATER DEPTH:

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

The Phase II confirmed no release of hazardous constituents from the site. There are no environmental problems assocoated with the disposal of hazardous waste at this site.

ASSESSMENT OF HEALTH PROBLEMS:

Use of this site was discontinued in 1977 in part due to the potential for impact on the Atlas Water Company Wells located 2000 feet away. Poor site location and operation has lead to leachate seeps discharging into Wappingers Creek. Sampling of the Atlas well in 1986 by the NYSDOH did not detect organic or inorganic contamination of these wells. Phase II sampling of groundwater at the site detected low levels of phenol (17 ug/l) in one downgradient well, other volatile organic compounds were detected in the 1 to 2 ug/l range in groundwater. Dutchess County DOH has completed a sampling program of private wells in the vicinity of the airport and has found none to be contaminated.



TOPOGRAPHY TAKEN FROM PLEASANT VALLEY,N.Y.1957 (PHOTO REVISED 1981) HOPEWELL JUNCTION,N.Y.1957 (PHOTO REVISED 1981) WAPPINGERS FALLS,N.Y.1956 (PHOTO REVISED 1981)

(PHOTO REVISED 1981)
POUGHKEEPSIE,N.Y. 1957
(PHOTO REVISED 1982)
U.S.G.S QUADRANGLE
7.5 MIN. SERIES

SCALE: 1"=2000'



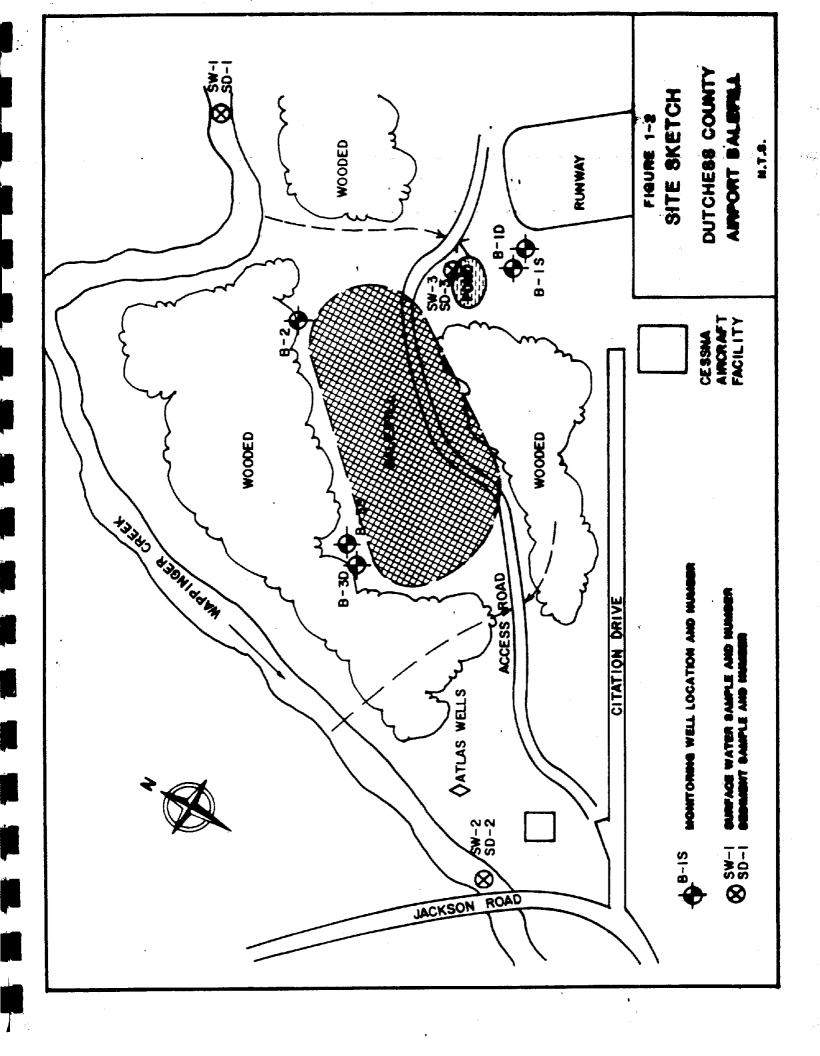
MAP LOCATION

FIGURE 1-1

SITE MAP LOCATION

DUTCHESS COUNTY AIRPORT BALEFILL

LAT. 41 37' 40" LONG. 73 53' 30"



1.0 EXECUTIVE SUMMARY

The Dutchess County Airport Balefill (New York Site Code: 314023) is located on Citation Drive in the Town of Wappinger, Dutchess County, New York (Figure 1-1). The site is a 2.25-acre landfill for baled refuse situated on approximately 55 acres of land owned by Dutchess County adjacent to the Dutchess County Airport. The balefill was operated by Dutchess County Department of Public Works during 1976-1977. The site was approved by NYSDEC (May 1976) for the disposal of baled residential, commercial, and dry industrial refuse generated in Dutchess County. It was not approved for industrial processes waste or hazardous materials. Baling was done by Dutchess Sanitation, Inc. The site was reportedly developed in accordance with NYSDEC-approved engineering plans and specifications, and was inspected frequently by representatives of the Dutchess County Department of Health to enforce compliance with operational requirements. However, there are no records indicating that the baling operation at Dutchess Sanitation was monitored or that daily inspections of disposal at the site was performed.

The site is bounded by Wappinger Creek on the north and west and Jackson Road to the south. The Dutchess County Airport is adjacent to the eastern perimeter of the site (Figure 1-2). Wappinger Creek separates the site from a residential area.

The balefill is capped and covered with thick vegetation. The balefill has steep sideslopes and some erosion channels exist. A drainage ditch, leading to Wappinger Creek, is directed along the southern perimeter of the balefill. Directly northeast of the balefill is a small pond, approximately 50 feet by 150 feet in size which receives runoff from the airport runway.

The Dutchess County Department of Health conducted sampling of the on-site drainage ditch. The results indicated high levels of iron and chemical oxygen demand (COD). A sample collected on July 14, 1981 detected a trace of trichloroethylene in a drainage ditch at the site. The Atlas Water Company wells, which are analyzed routinely for inorganics, have been maintaining background levels since 1961. However, organic sampling has never been conducted on the water supply wells.

The specific geology of the site was determined from information obtained during the drilling of five monitoring wells during the Phase II investigation. Materials encountered include alluvial deposits, glacial till, glaciolacustrine deposits, and bedrock consisting of slate and phylite of the Hudson River formation. Three of the wells were completed in the overburden and two in bedrock. Water level data suggest hydraulic connection between the unconsolidated sediments and the bedrock. Water levels ranged from about 6 feet to 13 feet below surface level. Groundwater flows to the west and north towards the creek.

Laboratory analysis of groundwater, surface water, and sediment samples collected during the Phase II investigation did not confirm a release of hazardous constituents from the site.

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 about 10,940. The closest potable well is located approximately 600 feet from the site at the Cessna Citation Service Center. The Atlas Water Company wells, which are situated approximately 1,500-2,000 feet downstream of the site, draw from groundwater 50 feet below the elevation of Wappinger Creek. They serve as a major source of private water supply for approximately 1,300 residents in the Town of Wappinger.

Based on available data, the Hazard Ranking System (HRS) scores for this site are as follows: $S_{M} = No$ Score ($S_{gw} = No$ Score, $S_{sw} = No$ Score, $S_{a} = 0$) $S_{FE} = 0$, and $S_{DC} = 0$. "No Score" was assigned where a score could not be calculated due to lack of documentation of hazardous wastes at the site.

Although the available data do not suggest that the balefill is a source of hazardous contituents, upgrading the existing cover should be considered to reduce the potential for contaminant discharge to groundwater and/or surface water. A monitoring program should be implemented in the interim.

TABLE 4-3 (Page 1)

DUTCHESS COUNTY AIRPORT BALEFILL SUMMARY OF HAZARDOUS SUBSTANCE LIST ORGANIC COMPOUNDS DETECTED

			Groun	Groundwater, ug/l	ug/l	į	X	Surface Water, ug/l	7	ν.	Sediments ug/kg	70
CAS Number	Compound	B-18	B-2	B-3S	<u>B-1D</u>	B-3D	SW-1	SW-2	SW-3	SD-1	SD-2	$\overline{\text{SD-3}}$
75092	Methylene Chloride	2JB	2JB	1JB	2JB	2JB	2JB	2JB	2JB	118	12B	7B
67641	Acetone			3JB		17B				9JB		9JB
67663	Chloroform					1JB	1JB			3JB	3JB	2JB
71432	Benzene		1.3	23				1.3			1.3	
100414	Ethylbenzene		1.3	33		1.3			ŧ	r		
108883	Toluene					1.3					1.3	
108101	4-Methyl-2-pentanone					1JB						
78933	2-Butanone							10				
76448	Heptachlor								-	8.5		
82018	Phenanthrene										1900	
120127	Anthracene										410	
206440	Fluoranthene									•	2100	
129000	Pyrene								:		2000	
56553	Benzo(a) Anthracene										1100	
218019	Chrysene								•	. •	1100	
202992	Benzo(b) Fluoranthene										100	
207089	Benzo(k) Fluoranthene										790	
50328	Benzo(a) Pyrene										910	
84742	Di-n-Butylphthalate											280J

TABLE 4-3 (Page 2)

DUTCHESS COUNTY AIRPORT BALEFILL SUMMARY OF HAZARDOUS SUBSTANCE LIST ORGANIC COMPOUNDS DETECTED

			Grou	Groundwater, ug/l	, ug/1	1	3	Surface Water, ug/l	7	α	Sediments ug/kg	s
Number Co	Compound	B-1S B-2	B-2	B-3S	B-1D	B-3D	SW-1	SW-2 SW-3	SW-3	SD-1	SD-2	SD-3
117817 Bis(2-ethylh	Bis(2-ethylhexyl)phthalate			51B		37B	64B		220B			
71556 1,1,1-Trichloroethane	loroethane								1.3			
.08952 Phenol						11						
8466-2 Diethylphthalate	ıalate			Г9								
	nexyl)phthalate Ioroethane alate				51B	51B 6J		37B 17	37B 17	37B 64B 17	37B 64B 17	37B 64B 17

Notes

- 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 If limit of identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.
- 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. М

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

TABLE 4-4 (Page 1)

DUTCHESS COUNTY AIRPORT BALEFILL TENTATIVELY IDENTIFIED ORGANIC COMPOUNDS

Č			Groun	Groundwater, ug/1	ng/1		*	Surface Water, ug/	//		Sediments ug/kg	£3
Number	Compound	B-1S	B-2	B-3S	B-1D	B-3D	SW-1	SW-2	SW-3	SD-1	SD-2	SD-3
128370	2,6-bis(1,1-dimethylethyl) 4-methylphenol	8B	11B	18B	12B	12B	14B	108	11B			
78400	Phosphoric acid triethyl ester			31								
498817	≪, ≪-4-trimethyl cyclohexane methanol			35								
470655	4-methyl-1-(1-methylethyl)- cyclohexanol			2						"A.g.+" "		
143077	Dodecanoic acid			9		78						
629925	Nonadecane			∞	25							
80397	N-ethyl-4-methyl-benzene- sulfonamide			œ								
112958	Eicosane			10					:	,		
105602	Hexahydro-2H-azepin-2-one				15	10			, <i>'</i>			
128370	Hexadecane				30							
544763	Heptadecane				52	36				,		
111762	2-butoxy ethanol					29				80° (6)		
334485	Decanoic acid					14						
121335	4-hydroxy-3-methoxy- benzaldehyde					6.5						
90437	(1,1-Biphenyl)-2-ol					24				, a = 5		
55045095	7-propyl tridecane					25						
55045119	5-propyl tridecane					10				tega († 15.)		

TABLE 4-4 (Page 2)

DUTCHESS COUNTY AIRPORT BALEFILL TENTATIVELY IDENTIFIED ORGANIC COMPOUNDS

S	SD-3					0,100	10,228
Sediments ug/kg	SD-2				7 600 0 200	007,0	7, 300 11, 240 34, 152
_	SW-1 SW-2 SW-3 SD-1 SD-2				7 600	000.	11,240
Surface Water, ug/l	SW-2						·
3	SW-1						
	B-3D	13	œ				90.4
ug/1	B-1D B-3D						99
Groundwater, ug/1	B-3S						160
Groun	B-2						46
	B-1S						
	Compound	Propyl-tridecane isomer	2,6,10,15-tetramethyl	heptadecane	3-methyl octane	2,4-dimethyl heptane	Total unknown
CAS	Number	1	54833486		2216333	2213232	

Notes

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. B

Blank spaces indicate compound not detected,

TABLE 4-5

DUTCHESS COUNTY AIRPORT BALEFILL INORGANIC ANALYSIS SUMMARY

Well	Gr	Groundwater, ug/1	g/l	lleW	Surf	Surface Water ug/l	ug/l	Sec	Sediments, mg/kg	7/kg
1	B-2	B-3S	8-1D	B-3D	SW-1	SW-2	SW-3	Sample SD-1	Sample SD-2	Sample SD-3
1,170	1,050	728	5,630	1,060	465		328	15,400	17,400	8,550
										3.37
391	219	256	1,160	249					87.6	
241,000	141,000	129,000	128,000	114,000	28,900	27,200	27,900		2,420	1,370
								14.6	40.9	10.2
									15.8	
			48.6					17.4	92.6	16.4
								0.39	0.36	0.37
1,600	17,000	5,820	6,920	422	224	158	333	27,000	33,300	19,800
13.3	9.6	10.5	18.6	109	19.2	10.9	107	11.9	147	15.9
20,900	12,000	6,200	10,600	(1,390)	8,550	8,030	7,460	5,980	5,690	4,090
5,010	16,400	6,040	1,430	162	33.1	68.7	72.4	466	1,070	710
1.0			9.0							
								21.9	60.1	17.3
18,200	(2,480)	39,200	15,600	57,100	(1,110)	5,000		(830)	(898)	(200)
				11.6				,		
47,500	7,200	171,000	79,200	89,100	12,700	11,000		. *		
								15.0	20.8	20.4
23.3	70.4	63.7	141	37.1				73.8	360	327

Blank spaces indicate compound not detected (see Appendix B for detection limits). NOTES
1. Blan
2. Par

Parenthical numbers indicate concentration values greater than or equal to the instrument detection limit, but less than the contract required detection limit.

TABLE 4-6

DUTCHESS COUNTY AIRPORT BALEFILL ANALYTICAL RESULTS OF WATER QUALITY PARAMETERS*

Parameter

Identification	Hd	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-1D	10.29	463	2,400	1.55	6,200		
B-1S	8.09	1,350	364	<1.0	470		
B-2	6.51	7,800	189	5.42	310		
B-3D	11.88	263	556	34.5	2,250		
B-3S	6.76	5,130	259	67.4	2,000		
SW-1	7.82	<1.0	164	<1.0	220		
SW-2	7.81	<1.0	161	1.55	225		
SW-3	8.34	4.6	143	<1.0	190		
Field Blank	7.53	1.6	<1.0	<1.0	10		
SD-1						78.09	4.52
SD-2						67.73	3.52
SD-3						80.77	4.86

*Samples collected March 6, 1986 by Wehran Engineering; see Figure 1-3 for sample locations.