USEPA WORK ASSIGNMENT NO. 076-2JZZ
USEPA CONTRACT NO. 68-W8-0110
FOSTER WHEELER ENVIRONMENTAL CORPORATION
ARCS II PROGRAM

FINAL
SITE INSPECTION PRIORITIZATION (SIP)
GLENS FALLS LANDFILL
TOWN OF QUEENSBURY
WARREN COUNTY, NEW YORK
CERCLIS NO.: NYD980506620

APRIL 1996

VOLUME III OF III

NOTICE

RECOMMENDATIONS

The overall Hazard Ranking Score (HRS) for the Glens Falls Landfill site is 1.22. The groundwater, surface water, soil exposure and air pathways were evaluated on a potential-to-release basis.

The groundwater pathway score is 1.30 evaluated on a potential-to-release basis. There are monitoring wells located adjacent to the landfill for the purpose of permanently monitoring the PCB containing landfill located to the east of the site. Groundwater flow is to the east to southeast towards the adjacent PCB landfill. Evaluation of the groundwater data relative to the Glens Falls site alone indicates no hazardous constituents significantly above background. Contaminants in the well influenced by the PCB landfill were used to present a worst-case scenario for the Glens Falls Landfill. There is an approximate total population of 13,920 persons utilizing groundwater within four miles of the site. The remaining population relies on surface water sources not part of the surface water pathway.

The surface water pathway score is 1.22 for overland flow and 0.03 for the groundwater to surface water component. This pathway was evaluated on a potential-to-release basis. Surface flow is to the west and north via a dry drainage ditch to the Halfway Creek probable points-of-entry one mile overland and north of the site. The drainage ditch is the stormwater runoff control for the adjacent highway Interstate Route 87. Stormwater runoff along this drainage ditch is expected to potentially contribute contamination of any leaked product being conveyed on the highway, as well as vehicular petroleum-related contaminants. Halfway Creek discharges to the Champlain Barge Canal at a point approximately 14 miles downstream. Surface water is not used as a drinking water source either on Halfway Creek or the Champlain Barge Canal. Only Halfway Creek is characterized as a potential habitat supportive of fishing and drinking water supply. The wetland frontage along the 15-mile surface water pathway consists of 6.5 miles and is located only along the 14-mile reach of Halfway Creek. The nearest sensitive environment in the surface water pathway occurs at the beginning of Halfway Creek.

The soil exposure pathway score is 0.00 based on the lack of any documented areas of surficial soil contamination. There are no schools or day-care centers within 200 feet of the site. There are no nearby residents, and no evidence of site-related contamination reaching a residential property. There are no full-time on-site workers. There are approximately 5,134 residents within one mile of the site. Access to the site is somewhat limited by the landfill location: an interstate highway borders the site on the west, and other controlled facilities (waste transfer station, two NYSDEC controlled sites, and small industry) limit access to the south and southeast. The east and northern borders are open, but not easily accessible due to the rural nature of the area and overgrown brush.

The air pathway score is 1.66 evaluated on a potential-to-release basis. There are approximately 42,184 people within a 4-mile radius of the site. There are 13 sensitive environments supportive of federally or state-designated threatened or endangered species, and approximately 1,310 acres of wetlands within four miles of the site.

A sensitivity analysis was performed to determine if another scenario would affect the site score and to assess the impact of an observed release and if actual contamination of targets were to

occur. Only the groundwater and surface water pathways were considered in this exercise. The soil exposure and air pathways were not evaluated further due to the lack of documented surficial contamination or air releases.

1. Using the Phase II analytical data that indicated contamination in the monitoring well downgradient of the two PCB sources as a potential site contaminant produced the above-mentioned score. To carry the process further and document a Level I release to the downgradient well, causes the pathway score to increase to 49.92, and the overall site score to increase to 24.98. However, there is no documented evidence to suggest that PCBs were deposited and subsequently migrated downgradient. This is proven by the low concentration in the northernmost downgradient well, which is away from other PCB-containing sources.

2. Utilizing PCBs again as a potential contaminant in the surface water pathway as a Level 1 release in a sediment sample increases the surface water pathway score to 100.00, and the overall site score to 50.01. Again, as discussed above, no evidence of PCB contamination is present for the landfill. Also, due to the chemical properties of PCBs and their slow mobility rate in soil migration, it is unlikely for sediments in Halfway Creek more than one mile distance to become contaminated with site-related PCBs. In addition, one mile of potential contribution by the interstate highway stormwater runoff would have to be characterized for its contribution.

Based on the existing information and the sensitivity analysis, a finding of No Further Remedial Action Planned (NFRAP) is recommended for the Glens Falls Landfill site.

NPL Characteristics Data Collection Form
Glens Falls Landfill - 02/09/96

Record Information

1. Site Name: Glens Falls Landfill
   (as entered in CERCLIS)
2. Site CERCLIS Number: NYD980506620
3. Site Reviewer: D. J. Place
4. Date: February, 1996
5. Site Location: Queensbury / Warren, New York
   (City/County,State)
6. Congressional District: 24
7. Site Coordinates: Single

   Latitude: 43 18'16.5" Longitude: 073 40'34.8"

Site Description

1. Setting: Suburban
2. Current Owner: Municipal
3. Current Site Status: Inactive
4. Years of Operation: Inactive Site,from and to dates: 1961 to 1977
5. How Initially Identified: State/Local Program
6. Entity Responsible for Waste Generation:

   - Landfill
     - Municipal

7. Site Activities/Waste Deposition:

   - Municipal Landfill

Waste Description

8. Wastes Deposited or Detected Onsite:

   - Municipal Waste

Response Actions

9. Response/Removal Actions:

RCRA Information

10. For All Active Facilities, RCRA Site Status:

    - Not Applicable

Demographic Information

11. Workers Present Onsite: No

12. Distance to Nearest Non-Worker Individual: > 10 Feet - 1/4 Mile

13. Residential Population Within 1 Mile: 5134.0

14. Residential Population Within 4 Miles: 42184.0

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: 13920.0

17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:

    - Municipal (Services over 25 People)
    - Private

18. Surface Water Adjacent to/Draining Site:

- Other - Drainage ditch along Route 87.

HRS DOCUMENTATION RECORD
Glens Falls Landfill - 02/09/96

1. Site Name: Glens Falls Landfill
   (as entered in CERCLIS)

2. Site CERCLIS Number: NYD980506620

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   (City/County,State)

6. Congressional District: 24

7. Site Coordinates: Single

   Latitude: 43 18'16.5" Longitude: 073 40'34.8"

	Score
Ground Water Migration Pathway Score (Sgw)	1.30
Surface Water Migration Pathway Score (Ssw)	1.22
Soil Exposure Pathway Score (Ss)	0.00
Air Migration Pathway Score (Sa)	1.66

Site Score	1.22

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.

GROUND WATER MIGRATION PATHWAY SCORESHEET
Glens Falls Landfill - 02/09/96

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: Bedrock Aquifer		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	3
2d. Travel Time	35	35
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	440
3. Likelihood of Release	550	460
Waste Characteristics		
4. Toxicity/Mobility	*	2.00E-02
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	1
Targets		
7. Nearest Well	50	5.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	9.50E+01
8d. Population (lines 8a+8b+8c)	**	9.50E+01
9. Resources	5	0.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	1.00E+02
12. Targets (including overlaying aquifers)	**	2.34E+02
13. Aquifer Score	100	1.30
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	1.30

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Glens Falls Landfill - 02/09/96

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	10	10
2b. Runoff	25	1
2c. Distance to Surface Water	25	6
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	70
3. Potential to Release by Flood		
3a. Containment (Flood)	10	0
3b. Flood Frequency	50	0
3c. Potential to Release by Flood (lines 3a x 3b)	500	0
4. Potential to Release (lines 2d+3c)	500	70
5. Likelihood of Release	550	70
Waste Characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	100
8. Waste Characteristics	100	32
Targets		
9. Nearest Intake	50	0.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources	5	5.00E+00
12. Targets (lines 9+10d+11)	**	5.00E+00
13. DRINKING WATER THREAT SCORE	100	0.14

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Glens Falls Landfill - 02/09/96

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	70
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation	*	5.00E+08
16. Hazardous Waste Quantity	*	100
17. Waste Characteristics	1000	320
Targets		
18. Food Chain Individual	50	2.00E+00
19. Population		
19a. Level I Concentrations	**	0.00E+00
19b. Level II Concentrations	**	0.00E+00
19c. Pot. Human Food Chain Contamination	**	6.00E-04
19d. Population (lines 19a+19b+19c)	**	6.00E-04
20. Targets (lines 18+19d)	**	2.00E+00
21. HUMAN FOOD CHAIN THREAT SCORE	100	0.54

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Glens Falls Landfill - 02/09/96

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	70
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc.	*	5.00E+08
24. Hazardous Waste Quantity	*	100
25. Waste Characteristics	1000	320
Targets		
26. Sensitive Environments		
26a. Level I Concentrations	**	0.00E+00
26b. Level II Concentrations	**	0.00E+00
26c. Potential Contamination	**	2.00E+00
26d. Sensitive Environments (lines 26a+26b+26c)	**	2.00E+00
27. Targets (line 26d)	**	2.00E+00
28. ENVIRONMENTAL THREAT SCORE	60	0.54
29. WATERSHED SCORE	100	1.22
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	1.22

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Glens Falls Landfill - 02/09/96

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release to Aquifer Aquifer: Unconsolidated Aquif		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	6
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	460
3. Likelihood of Release	550	460
Waste Characteristics		
4. Toxicity/Mobility/Persistence	*	2.00E-02
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	1
Targets		
7. Nearest Intake	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	5.00E+00
10. Targets (lines 7+8d+9)	**	5.00E+00
11. DRINKING WATER THREAT SCORE	100	0.03

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Glens Falls Landfill - 02/09/96

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	460
Waste Characteristics		
13. Toxicity/Mobility/Persistence/Bioacc.	*	1.00E+02
14. Hazardous Waste Quantity	*	100
15. Waste Characteristics	1000	10
Targets		
16. Food Chain Individual	50	0.00E+00
17. Population		
17a. Level I Concentrations	**	0.00E+00
17b. Level II Concentrations	**	0.00E+00
17c. Pot. Human Food Chain Contamination	**	0.00E+00
17d. Population (lines 17a+17b+17c)	**	0.00E+00
18. Targets (lines 16+17d)	**	0.00E+00
19. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Glens Falls Landfill - 02/09/96

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	460
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc.	*	1.00E+02
22. Hazardous Waste Quantity	*	100
23. Waste Characteristics	1000	10
Targets		
24. Sensitive Environments		
24a. Level I Concentrations	**	0.00E+00
24b. Level II Concentrations	**	0.00E+00
24c. Potential Contamination	**	0.00E+00
24d. Sensitive Environments (lines 24a+24b+24c)	**	0.00E+00
25. Targets (line 24d)	**	0.00E+00
26. ENVIRONMENTAL THREAT SCORE	60	0.00
27. WATERSHED SCORE	100	0.03
28. SW: GW to SW COMPONENT SCORE (Sgs)	100	0.03

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SOIL EXPOSURE PATHWAY SCORESHEET
Glens Falls Landfill - 02/09/96

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	0
Waste Characteristics		
2. Toxicity	*	0.00E+00
3. Hazardous Waste Quantity	*	0
4. Waste Characteristics	100	0
Targets		
5. Resident Individual	50	0.00E+00
6. Resident Population		
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b)	**	0.00E+00
7. Workers	15	0.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	0.00E+00
11. RESIDENT POPULATION THREAT SCORE	**	0.00E+00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

SOIL EXPOSURE PATHWAY SCORESHEET
Glens Falls Landfill - 02/09/96

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility	100	0.00E+00
13. Area of Contamination	100	0.00E+00
14. Likelihood of Exposure	500	0.00E+00
Waste Characteristics		
15. Toxicity	*	0.00E+00
16. Hazardous Waste Quantity	*	0
17. Waste Characteristics	100	0
Targets		
18. Nearby Individual	1	1.00E+00
19. Population Within 1 Mile	**	4.00E+00
20. Targets (lines 18+19)	**	5.00E+00
21. NEARBY POPULATION THREAT SCORE	**	0.00E+00
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

AIR PATHWAY SCORESHEET
Glens Falls Landfill - 02/09/96

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release		
2a. Gas Potential to Release	500	220
2b. Particulate Potential to Release	500	280
2c. Potential to Release	500	280
3. Likelihood of Release	550	280
Waste Characteristics		
4. Toxicity/Mobility	*	2.00E+02
5. Hazardous Waste Quantity	*	100
6. Waste Characteristics	100	10
Targets		
7. Nearest Individual	50	2.00E+01
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	2.80E+01
8d. Population (lines 8a+8b+8c)	**	2.80E+01
9. Resources	5	0.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	1.00E+00
10c. Sens. Environments(lines 10a+10b)	***	1.00E+00
11. Targets (lines 7+8d+9+10c)	**	4.90E+01
AIR MIGRATION PATHWAY SCORE (Sa)	100	1.66E+00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

WASTE QUANTITY

Glens Falls Landfill - 02/09/96

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Landfill

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

WASTE QUANTITY

Glens Falls Landfill - 02/09/96

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	Landfill
b. Source Type	Landfill
c. Secondary Source Type	N.A.
d. Source Vol.(yd3/gal) | Source Area (ft2)	0.00 | 609840.00
e. Source Volume/Area Value	1.79E+02
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00
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)	1.79E+02

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Nickel	> 2	NO	0.0E+00	ppm
PCBs	> 2	NO	0.0E+00	ppm
Zinc	> 2	NO	0.0E+00	ppm

Documentation for Source Type:

Available documentation indicates that the surrounding towns operated a former municipal landfill at the property.

Reference: 12, pp. 1-73 of 73; 13, pp. 1-320 of 320.

WASTE QUANTITY

Glens Falls Landfill - 02/09/96

Documentation for Source Hazardous Substances:

No soil samples were collected from the landfill proper area. As a conservative evaluation of the landfills effect, a review of groundwater results used to monitor the adjacent two NYDEC listed sites contaminated (and known to contain sources of PCBs) was conducted. Three constituents were identified (PCBs, zinc, and nickel) as present in the two downgradient monitoring wells east of the landfill. As PCBs were allegedly deposited in the landfill, the low concentration in the northern downgradient well (and furthest from the adjacent PCB landfill site) indicates that the nearby PCB sources contribute a considerable PCB loading to groundwater not similarly seen from the municipal landfill.
Therefore these constituent were evaluated to provide a worst case scenario relative to the Glen Falls landfill in the absence of any available documentation of hazardous waste being deposited on the site.

Reference: 13, pp. 16, 40, 41, and 45 of 320.

Documentation for Source Area:

The area landfilled is estimated to be 14 acres or 609,840 square feet.

Reference: 13, p. 5 of 320.

WASTE QUANTITY
Glens Falls Landfill - 02/09/96

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	Landfill	GW-SW-A	1.79E+02	0.00E+00	1.79E+02

WASTE QUANTITY
Glens Falls Landfill - 02/09/96

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Values		HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	2.00E-02	100	1
SW: Overland Flow, DW	Tox./Persistence	1.00E+04	100	32
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	5.00E+08	100	320
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+08	100	320
SW: GW to SW, DW	Tox./Persistence	2.00E-02	100	1
SW: GW to SW, HFC	Tox./Persis./Bioacc.	1.00E+02	100	10
SW: GW to SW, Env	Etox./Persis./Bioacc.	1.00E+02	100	10
Soil Exposure:Resident	Toxicity	0.00E+00	0	0
Soil Exposure: Nearby	Toxicity	0.00E+00	0	0
Air	Toxicity/Mobility	2.00E+02	100	10

* Hazardous Waste Quantity Factor Values
** Waste Characteristics Factor Category Values

Note: SW = Surface Water
GW = Ground Water
DW = Drinking Water Threat
HFC = Human Food Chain Threat
Env = Environmental Threat

GROUND WATER PATHWAY AQUIFER SUMMARY
Glens Falls Landfill - 02/09/96

No.	Aquifer ID	Type	Overlaying No.	Inter-Connected with	Likelihood of Release	Targets
1	Unconsolidated Aquif	Non K	0	0	460	1.69E+02
2	Bedrock Aquifer	Non K	1	1	460	2.34E+02

Containment

No.	Source ID	HWQ Value	Containment Value
1	Landfill	1.79E+02	10
	Containment Factor		10

Documentation for Ground Water Containment, Source Landfill:

Only soil to support vegatative growth was installed on top of the landfill. During an inspection performed after installation, exposed landfilled materials were noted. No further remediation has been performed.

Reference: 13, p. 30 of 320; 16, p. 2 of 7.

Net Precipitation

Net Precipitation (inches) 21

Documentation for Net Precipitation:

Net precipitation was calculated by subtracting the evaporation for the area from the net precipitation for the area provided in Ref. 27.

Reference: 27, pp. 5 and 6 of 13.

Aquifer: Unconsolidated Aquifer

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

Documentation for Unconsolidated Aquifer Aquifer:

Boring logs, and geological and soil references, indicate that the surficial material at the site consists of mostly fine sand. The unconsolidated aquifer materials were deposited by glacial lakes. The aquifer is approximately 120 feet thick, 15 miles long and 9 miles wide at its maximum point.

Reference: 13, pp. 35 of 320; 27, p. 7 of 13.

OBSERVED RELEASE

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

- N/A and/or data not specified

Observed Release Factor 0

POTENTIAL TO RELEASE

Containment

Containment Factor	10	

Net Precipitation

Net Precipitation Factor	6	

Depth to Aquifer

A. Depth of Hazardous Substances	17.00	feet

Documentation for Depth of Hazardous Substances:

The deepest known point (depth) of contamination is from the results of analysis of the soil sample obtained from MW-101 at the 15-17 foot level.

Reference: 13, p. 39 of 320.

B. Depth to Aquifer from Surface	0.00	feet

Documentation for Depth to Aquifer from Surface :

The aquifer at the site which has been evaluated is the unconsolidated aquifer found at ground surface. It is composed of glacial lake deposits which consist mostly of fine sands.

Reference: 13, p. 35 of 320.

C. Depth to Aquifer (B - A)	0.00	feet
Depth to Aquifer Factor	5	

Travel Time

Are All Layers Karst?	NO

Documentation for Karst Layers:

No information reviewed indicates Karst layers in the area of the site. In addition the thickness of the unconsolidated aquifer is estimated to be 120 feet.

Reference: 13, pp. 34 and 35 of 320.

Thickness of Layer(s) with Lowest Conductivity	0.00	feet

Documentation for Thickness of Layers with Lowest Conductivity:

The landfilled materials at the site have been mounded to approximately 40 feet above original ground surface. The depth to the top of the water table in the unconsolidated aquifer averages 14 feet below ground surface.

Reference: 13, pp. 29 and 36 of 320.

Hydraulic Conductivity (cm/sec)	0.0E-00

GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Unconsolidated Aquifer AQUIFER
Glens Falls Landfill - 02/09/96

Documentation for Hydraulic Conductivity:

The landfilled materials at the site have been mounded to approximately 40 feet above ground surface. The depth to the top of the water table in the unconsolidated aquifer averages 14 feet below ground surface. Consequently, possible sources of contamination are below the top of the water table.

Reference: 13, pp. 29 and 36 of 320.

Travel Time Factor	35
Potential to Release Factor	460

Aquifer: Bedrock Aquifer

Type of Aquifer: Non Karst

Overlaying Aquifer: 1

Interconnected with: 1

Documentation for Bedrock Aquifer Aquifer:

The top of the bedrock aquifer is approximately 120 feet below ground surface and is reported to be either shale or limestone in the vicinity of the site.

Reference: 13, pp. 34 and 35 of 320.

OBSERVED RELEASE

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

- N/A and/or data not specified

Observed Release Factor 0

POTENTIAL TO RELEASE

Containment

Containment Factor	10	

Net Precipitation

Net Precipitation Factor	6	

Depth to Aquifer

A. Depth of Hazardous Substances	17.00	feet

Documentation for Depth of Hazardous Substances:

The deepest known point (depth) of contamination is from the results of analysis of the soil sample obtained from MW-101 at the 15-17 foot level.

Reference: 13, p. 39 of 320.

B. Depth to Aquifer from Surface	120.00	feet

Documentation for Depth to Aquifer from Surface :

Th top of the bedrock aquifer is reported to be 120 below ground surface.

Reference: 13, pp. 34 and 35 of 320.

C. Depth to Aquifer (B - A)	103.00	feet

Depth to Aquifer Factor 3

Travel Time

Are All Layers Karst? NO

Documentation for Karst Layers:

No information reviewed indicates Karst layers in the area of the site.

Reference: 13, pp. 34 and 35 of 320.

Thickness of Layer(s) with Lowest Conductivity 103.00 feet

Documentation for Thickness of Layers with Lowest Conductivity:

The depth to the top of the water table is approximately 14 feet below ground surface. The reported depth to bedrock is 120 feet below ground surface. No layer has been reported to exist between the unconsolidated aquifer and the bedrock aquifer in the area around the site.

Reference: 13, pp. 34, 35 and 36 of 320.

Hydraulic Conductivity (cm/sec) 1.0E-02

Documentation for Hydraulic Conductivity:

An approximation of permeability was calculated during the Phase II investigation.

Reference: 13, p. 36 of 320.

Travel Time Factor	35

Potential to Release Factor	440

GROUND WATER PATHWAY WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 179.36

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Nickel	100	2.00E-05	2.00E-03
PCBs	10000	2.00E-07	2.00E-03
Zinc	10	2.00E-03	2.00E-02

Hazardous Substances Found in an Observed Release

Well No.	Observed Release Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value

- N/A and/or data not specified

Toxicity/Mobility Value from Source Hazardous Substances:	2.00E-02
Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility Factor:	2.00E-02
Sum of Source Hazardous Waste Quantity Values:	1.79E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	1

GROUND WATER PATHWAY TARGETS FOR AQUIFER Unconsolidated Aquifer
Glens Falls Landfill - 02/09/96

Population by Well

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

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

GROUND WATER PATHWAY TARGETS FOR AQUIFER Unconsolidated Aquifer
Glens Falls Landfill - 02/09/96

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	13.0	1.70E+00
> 1/4 to 1/2	39.0	3.30E+00
> 1/2 to 1	149.0	5.20E+00
> 1 to 2	1369.0	2.94E+01
> 2 to 3	4317.0	6.78E+01
> 3 to 4	4228.0	4.17E+01

Potential Contamination Factor: 149.000

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

Population served by drinking water wells is based on Ref. 4 for population supplied by private wells and on information provided by NYSDOH for community wells. It has been assumed that all private wells were completed in the upper unconsolidated aquifer. Ref. 4 computed the population on private wells using the Census Bureau's 1990 STF-3A files by the formula: ((Drilled Wells + Dug Wells) / Households) * Population.No community wells were reported by NYSDOH for this distance from the site.

Reference: 4, p. 9 of 9; 20, pp. 1-13 of 13; 30, p. 1 of 1.

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

Population served by drinking water wells is based on Ref. 4 for population supplied by private wells and on information provided by NYSDOH for community wells. It has been assumed that all private wells were completed in the upper unconsolidated aquifer. Ref. 4 computed the population on private wells using the Census Bureau's 1990 STF-3A by the formula: ((Drilled Wells + Dug Wells) / Households) * Population.No community wells were reported by NYSDOH for this distance from the site.

Reference: 4, p. 9 of 9; 20, pp. 1 -13 of 13; 30, p. 1 of 1.

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

Population served by drinking water wells is based on Ref. 4 for population supplied by private wells and on information provided by NYSDOH for community wells. It has been assumed that all private wells were completed in the upper unconsolidated aquifer. Ref. 4 computed the population on private wells using the Census Bureau's 1990 STF-3A files by the formula: ((Drilled Wells + Dug Wells) / Households) * Population. No community wells were reported for this distance from the site.

Reference: 4, p. 8 of 9; 20, pp 1 - 13 of 13; 30, p. 1 of 1.

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

Population served by drinking water wells is based on Ref. 4 for private wells and on information provided by NYSDOH for community wells. It has been assumed that all private wells were completed in the upper unconsolidated aquifer. Ref. 4 computed the population on private wells using the Census Bureau's 1990 STF-3A files by the formula: ((Drilled Wells + Dug Wells) / Households) * Population. NYSDOH reports that 1,369 people are supplied by community wells completed in the unconsolidated aquifer and located 1 - 2 miles from the site.

Reference: 4, p. 8 of 9; 20, p. 1 - 13 of 13; 30, p. 1 of 1.

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

Population served by drinking water wells is based on Ref. 4 for population supplied by private wells and on information provided by NYSDOH for community wells. It has been assumed that all private wells were completed in the upper unconsolidated aquifer. Ref. 4 computed the population on private wells using the Census Bureau's 1990 STF-3A files by the formula: ((Drilled Wells + Dug Wells) / Households) * Population. NYSDOH reports that 2,783 people are supplied by community wells completed in the upper unconsolidated aquifer and located 2 - 3 miles from the site.

Reference: 4, p. 8 of 9; 20, pp. 1 -13 of 13; 30, p. 1 of 1.

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

Population served by drinking water wells is based on Ref. 4 for population supplied by private wells and on information provided by NYSDOH for community wells. It has been assumed that all private wells were completed in the upper unconsolidated aquifer. Ref. 4 computed the population on private wells based on the Census Bureau's 1990 STF-3A files by the formula: ((Drilled Wells + Dug Wells) / Households) * Population. NYSDOH reports that 2,561 people are supplied by community wells completed in the upper unconsolidated aquifer and located 3 - 4 miles from the site.

Reference: 4, p. 8 of 9; 20, pp. 1 - 13; 30, p. 1 of 1.

Nearest Well

Level of Contamination: Potential
Distance in miles: 0.13

Nearest Well Factor: 2.00E+01

Documentation for Nearest Well:

Residence wells referred to as Houses 21 and 23 in the Phase II report were used as a source of drinking water. During an interview performed by Ebasco with one of the residences, it was ascertained that these wells are no longer used as a source of drinking water. As the Census information cannot determine the exact location of the nearest private potable well, the 0.133 mile distance to these wells will be used as the most conservative value for this evaluation.

Reference: 13, pp. 31 and 32 of 320; 16, p. 2 of 7.

Resources

Resource Use: NO

Resource Factor: 0.00E+00

Documentation for Resources:

Groundwater has not definitively been determined to be used as a resource.

Reference: 16, p. 2 of 7.

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

Documentation for Wellhead Protection Area:

No formal WPA has been designated for the area.

Reference: 21, p. 1 of 1; 22, p. 7 - 12 of 18.

GROUND WATER PATHWAY TARGETS FOR AQUIFER Bedrock Aquifer
Glens Falls Landfill - 02/09/96

Population by Well

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

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

GROUND WATER PATHWAY TARGETS FOR AQUIFER Bedrock Aquifer
Glens Falls Landfill - 02/09/96

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	3700.0	9.39E+01
> 2 to 3	0.0	0.00E+00
> 3 to 4	105.0	1.30E+00

Potential Contamination Factor: 95.000

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

It has been assumed that all private wells were completed in the upper unconsolidated aquifer. NYSDOH reports no community wells completed in the bedrock aquifer for this distance from the site.

Reference: 20, p. 1 - 13; 30, p. 1 of 1.

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

It has been assumed that all private wells were completed in the upper unconsolidated aquifer. NYSDOH reports no community wells completed in the bedrock aquifer for this distance from the site.

Reference: 20, pp. 1 - 13 of 13; 30, p. 1 of 1.

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

It has been assumed that all private wells were completed in the upper unconsolidated aquifer. NYSDOH reports no community wells completed in the bedrock aquifer for this distance from the site.

Reference: 20, pp. 1 - 13 of 13; 30, p. 1 of 1.

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

It has been assumed that all private wells were completed in the upper unconsolidated aquifer. NYSDOH reports that the community of South Glens Falls uses groundwater from the bedrock aquifer extracted from wells located approximately 1.9 miles from the site.

Reference: 20, pp. 1 - 13 of 13; 30, p. 1 of 1.

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

It has been assumed that all private wells were completed in the upper unconsolidated aquifer. NYSDOH reports no community wells completed in the bedrock aquifer for this distance from the site.

Reference: 20, pp. 1 - 13 of 13; 30, p. 1 of 1.

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

It has been assumed that all private wells were completed in the upper unconsolidated aquifer. NYSDOH reports that the town of Fort Edwards uses groundwater from the bedrock aquifer extracted by wells located approximately 3.8 miles from the site.

Reference: 20, pp. 1 - 13 of 13; 30, p. 1 of 1.

Nearest Well

Level of Contamination: Potential
Distance in miles: 1.90

Nearest Well Factor: 5.00E+00

Documentation for Nearest Well:

NYSDOH reports that South Glens Falls community wells are completed in the bedrock aquifer.

Reference: 30, p. 1 of 1.

Resources

Resource Use: NO

Resource Factor: 0.00E+00

Documentation for Resources:

No documentation is available to indicate that the bedrock aquifer is being used as a resource.

Reference: 16, p. 2 of 7.

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

GROUND WATER PATHWAY TARGETS FOR AQUIFER Bedrock Aquifer
Glens Falls Landfill - 02/09/96

Documentation for Wellhead Protection Area:

No formal WPA has been designated for this area.

Reference: 21, p. 1 of 1; 22, p. 7 - 12 of 18.

SURFACE WATER PATHWAY SEGMENT SUMMARY
Glens Falls Landfill - 02/09/96

No.	Segment ID	Segment Type	Water Type	Start Point (mi)	End Point (mi)	Average Flow (cfs)
1	Halfway Creek	River	Fresh	0.00	14.21	10
2	Champlain Canal	River	Fresh	14.21	15.00	50

Documentation for segment: Halfway Creek:

No flow gages are present on Halfway Creek. Flow rate is an estimated value provided as part of Ref. 27.

Reference: 24, p. 1 of 1; 27, p. 11 of 13.

Documentation for segment: Champlain Canal:

Flow rate is an estimated value provided as part of Ref. 27.

Reference: 27, p. 11 of 13.

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Glens Falls Landfill - 02/09/96

OBSERVED RELEASE

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

- N/A and/or data not specified

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Observed Release Factor 0

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Glens Falls Landfill - 02/09/96

POTENTIAL TO RELEASE

Potential to Release by Overland Flow

Containment

No.	Source ID	HWQ Value	Containment Value
1	Landfill	1.79E+02	10

Containment Factor: 10

Documentation for Overland Flow Containment, Source Landfill:

Only soil to support vegetative growth was installed on top of the landfill. During an inspection performed after installation, exposed landfill material was noted. No further remediation has been performed.

Reference: 13, p. 30 of 320; 16, p. 2 of 7.

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Glens Falls Landfill - 02/09/96

Distance to Surface Water

Distance to Surface Water:	5280.0 feet
Distance to Surface Water Factor:	6

Documentation for Distance to Surface Water:

Distance to the nearest surface water was based on the USGS Glens Falls, NY topographic quadrangle map. At the time of the off-site investigation performed by Ebasco, the drainage ditch along Interstate Route 87 was dry and appears to be an intermittent stream. Consequently, the PPE for the site is on Halfway Creek.

Reference: 6, p. 1 of 1; 16, 1 of 7.

Runoff

A. Drainage Area:	14.0 acres

Documentation for Drainage Area:

Estimated area landfilled is 14 acres.

Reference: 13, p. 5 of 320.

B. 2-year, 24-hour Rainfall:	3.0 inches

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Glens Falls Landfill - 02/09/96

Documentation for Rainfall:

Source for value is Technical Paper No. 40, Rainfall Frequency Atlas of the United States.

Reference: 11, p. 2 of 2.

C. Soil Group: B
Medium-textured soils with moderate infiltration rates

Documentation for Soil Group:

The soil in the area has been designated by the USAD as the Oakville loamy fine sand and Udorthents, smoothed. The soil borings installed during the Phase II investigation confirmed the Oakville classification off of the landfill proper.

Reference: 26, pp. 2-6 of 6; 13, p. 35 of 320.

Runoff Factor: 1

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Potential to Release by Overland Flow Factor: 70

SURFACE WATER PATHWAY OVERLAND FLOW/FLOOD COMPONENT LIKELIHOOD OF RELEASE
Glens Falls Landfill - 02/09/96

Potential to Release by Flood

No.	Source ID	HWQ Value	Flood Containment Value	Flood Frequency Value	Potential to Release by Flood
- N/A and/or data not specified					

Potential to Release by Flood Factor: 0

Documentation for Flood Containment, Source Landfill:

Only soil to support vegetative growth was installed on top of the landfill. During an inspection of the site after the installation, exposed landfilled materials were noted. No further remediation has been performed.

Reference: 13, p. 30 of 320; 16, p. 2 of 7.

Documentation for Flood Frequency, Source Landfill:

The site is located in an area of minimal flooding, greater than the 500 year flood plain.

Reference: 5, pp. 2 and 3 of 3.

SW PATHWAY: OVERLAND/FLOOD DRINKING WATER THREAT WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 179.36

Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value
Nickel	100	1.00E+00	1.00E+02
PCBs	10000	1.00E+00	1.00E+04
Zinc	10	1.00E+00	1.00E+01

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Toxicity/ Persistence Value

- N/A and/or data not specified

Toxicity/Persistence Value from Source Hazardous Substances:	1.00E+04
Toxicity/Persistence Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence Factor:	1.00E+04
Sum of Source Hazardous Waste Quantity Values:	1.79E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	32

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Glens Falls Landfill - 02/09/96

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

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Glens Falls Landfill - 02/09/96

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

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Glens Falls Landfill - 02/09/96

Level II 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 II Intakes: 0.0

Level II Population Factor: 0.00E+00

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Glens Falls Landfill - 02/09/96

Potential Contamination

Intake ID	Average Annual Flow (cfs)	Population Served
- N/A and/or data not specified		

Documentation for Intake :

No intakes have been identified as being present along the surface water pathway.

Reference:

Type of Surface Water Body	Total Population	Dilution-Weighted Population
- N/A and/or data not specified		

Dilution-Weighted Population Served
by Potentially Contaminated Intakes: 0.0

Potential Contamination Factor: 0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: YES

Resource Value: 5.00E+00

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT DRINKING WATER THREAT TARGETS
Glens Falls Landfill - 02/09/96

Documentation for Resources:

Halfway Creek, located 1 mile to the north of the site and forms approximately 14 miles of the 15 mile surface water pathway, is designated as an acceptable source of drinking water by the State of New York. It may also be used as a source for irrigation of farmlands.

Reference: 16, p. 2 of 7.

SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 179.36

Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value
Nickel	100	1.00E+00	5.00E-01	5.00E+01
PCBs	10000	1.00E+00	5.00E+04	5.00E+08
Zinc	10	1.00E+00	5.00E+02	5.00E+03

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Toxicity Value	Persistence Value	Bio-accum. Value	Toxicity/ Persistence/ Bioaccum. Value

- N/A and/or data not specified

SW PATHWAY: OVERLAND/FLOOD HUMAN FOOD CHAIN THREAT WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Toxicity/Persistence/Bioaccumulation Value from Source Hazardous Substances:	5.00E+08
Toxicity/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Persistence/Bioaccumulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	1.79E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	320

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Glens Falls Landfill - 02/09/96

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

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Glens Falls Landfill - 02/09/96

Level I Concentrations

Fishery	Annual Production (pounds)	Human Food Chain 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

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Glens Falls Landfill - 02/09/96

Level II Concentrations

Fishery	Annual Production (pounds)	Human Food Chain 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

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Glens Falls Landfill - 02/09/96

Potential Contamination

Fishery	Annnual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
1 Halfway Creek	1.0	River	10	0.0	1.00E-01	3.00E-03
2 Champlain Canal	1.0	River	50	0.0	1.00E-01	3.00E-03

Sum of (Pi*Di): 6.00E-03

Potential Human Food Chain Contamination Factor: 6.00E-04

Documentation for Halfway Creek Fishery:

Halfway Creek is classified by NYSDEC as a fishery.

Reference: 23, p. 11 of 21.

Documentation for Champlain Canal Fishery:

Champlain Canal is classified by NYSDEC as a fishery.

Reference: 23, p.11 of 21.

Food Chain Individual

Location of Nearest Fishery: Halfway Creek
Distance from the Probable Point of Entry: 0.00 miles
Type of Surface Water Body: River
Dilution Weight: 0.1000000
Level of Contamination: Potential

Food Chain Individual Factor: 2.00

Documentation for Halfway Creek:

No flow gages are present on Halfway Creek. Flow rate is an estimated value provided as part of Ref. 27.

Reference: 24, p. 1 of 1; 27, p. 11 of 13.

SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 179.36

Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
Nickel	10	1.00E+00	5.00E+02	5.00E+03
PCBs	10000	1.00E+00	5.00E+04	5.00E+08
Zinc	10	1.00E+00	5.00E+02	5.00E+03

Hazardous Substances Found in an Observed Release

Sample No.	Observed Release Hazardous Substance	Eco-toxicity Value	Persistence Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value

- N/A and/or data not specified

SW PATHWAY: OVERLAND FLOW/FLOOD ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Ecotoxicity/Persistence/Bioaccummulation Value from Source Hazardous Substances:	5.00E+08
Ecotoxicity/Persistence/Bioaccummulation Value from Observed Release Hazardous Substances:	0.00E+00
Ecotoxicity/Persistence/Bioaccummulation Factor:	5.00E+08
Sum of Source Hazardous Waste Quantity Values:	1.79E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	320

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

SW PATHWAY: OVERLAND FLOW/FLOOD COMPONENT ENVIRONMENTAL THREAT TARGETS
Glens Falls Landfill - 02/09/96

Level I Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

Level II Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		

Sum of Sensitive Environments Values: 0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Sensitive Environments

Type of Surface Water Body	Sensitive Environment	Sensitive Environment Value
River	1 Halfway Creek	5
River	6 Champlain Canal	5

Wetlands

Type of Surface Water Body	Sensitive Environment	Wetlands Frontage	Wetlands Value
River	2 Wetlands - GF-25	1.00	25
River	3 Wetlands - GF-3	4.20	150
River	4 Wetlands - PM-4	0.60	25
River	5 Wetlands - PM-5	0.70	25

Documentation for Sensitive Environment Halfway Creek:

Halfway Creek is a state classified surface water body designated as a water body capable of fish propagation.

Reference: 23, p. 11 of 21.

Documentation for Sensitive Environment Wetlands - GF-25:

Based on State of New York Freshwater Wetlands maps.

Reference: 9, p. 1 of 1; 10 p. 1 of 2.

Documentation for Sensitive Environment Wetlands - GF-3:

Based on New York State Freshwater Wetlands Maps.

Reference: 9, p. 1 of 1; 10, p. 1 of 2.

Documentation for Sensitive Environment Wetlands - PM-4:

Based on New York State Freshwater Wetlands Maps.

Reference: 9, p. 1 of 1; 10, p. 1 of 2.

Documentation for Sensitive Environment Wetlands - PM-5:

Based on State of New York Freshwater Wetlands maps.

Reference: 9, p. 1 of 1; 10, p. 1 of 2.

Documentation for Sensitive Environment Champlain Canal:

Champlain Canal is a state classified surface water body designated for fishing.

Reference: 23, p. 11 of 21.

SURFACE WATER PATHWAY GW TO SW CONTAINMENT SUMMARY
Glens Falls Landfill - 02/09/96

Containment

No.	Source ID	HWQ Value	Containment Value
1	Landfill	1.79E+02	10
	Containment Factor		10

Documentation for Ground Water Containment, Source Landfill:

Only soil to support vegatative growth was installed on top of the landfill. During an inspection performed after installation, exposed landfilled materials were noted. No further remediation has been performed.

Reference: 13, p. 30 of 320; 16, p. 2 of 7.

Net Precipitation

Net Precipitation (inches)	0.00

Documentation for Net Precipitation:

Net precipitation was calculated by subtracting the evaporation for the area from the net precipitation for the area provided in Ref. 27.

Reference: 27, pp. 5 and 6 of 13.

SURFACE WATER PATHWAY GW TO SW COMPONENT LIKELIHOOD OF RELEASE
Glens Falls Landfill - 02/09/96

Aquifer: Unconsolidated Aquifer

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

Documentation for Unconsolidated Aquifer Aquifer:

Boring logs, and geological and soil references, indicate that the surficial material at the site consists of mostly fine sand. The unconsolidated aquifer materials were deposited by glacial lakes. The aquifer is approximately 120 feet thick, 15 miles long and 9 miles wide at its maximum point.

Reference: 13, pp. 35 of 320; 27, p. 7 of 13.

OBSERVED RELEASE

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

- N/A and/or data not specified

==========

Observed Release Factor 0

POTENTIAL TO RELEASE

Ground Water to Surface Water Angle

Probable Point of Entry	0.00	miles
Angle Theta	0	

Containment

Containment Factor	10	

Net Precipitation

Net Precipitation Factor	6	

Depth to Aquifer

A. Depth of Hazardous Substances	17.00	feet

Documentation for Depth of Hazardous Substances:

The deepest known point (depth) of contamination is from the results of analysis of the soil sample obtained from MW-101 at the 15-17 foot level.

Reference: 13, p. 39 of 320.

B. Depth to Aquifer from Surface	0.00	feet

Documentation for Depth to Aquifer from Surface :

The aquifer at the site which has been evaluated is the unconsolidated aquifer found at ground surface. It is composed of glacial lake deposits which consist mostly of fine sands.

Reference: 13, p. 35 of 320.

C. Depth to Aquifer (B - A)	0.00	feet
Depth to Aquifer Factor	5	

Travel Time

Are All Layers Karst?	NO

Documentation for Karst Layers:

No information reviewed indicates Karst layers in the area of the site. In addition the thickness of the unconsolidated aquifer is estimated to be 120 feet.

Reference: 13, pp. 34 and 35 of 320.

Thickness of Layer(s) with Lowest Conductivity	0.00	feet

Documentation for Thickness of Layers with Lowest Conductivity:

The landfilled materials at the site have been mounded to approximately 40 feet above original ground surface. The depth to the top of the water table in the unconsolidated aquifer averages 14 feet below ground surface.

Reference: 13, pp. 29 and 36 of 320.

Hydraulic Conductivity (cm/sec)	0.0E-00

Documentation for Hydraulic Conductivity:

The landfilled materials at the site have been mounded to approximately 40 feet above ground surface. The depth to the top of the water table in the unconsolidated aquifer averages 14 feet below ground surface. Consequently, possible sources of contamination are below the top of the water table.

Reference: 13, pp. 29 and 36 of 320.

Travel Time Factor	35

==========

Potential to Release Factor	460

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 179.36

Hazardous Substance	Toxicity Factor Value	Persist. Value	Mobility Value	Toxicity/ Mobililty/ Persistence
Nickel	100	1.00E+00	2.00E-05	2.00E-03
PCBs	10000	1.00E+00	2.00E-07	2.00E-03
Zinc	10	1.00E+00	2.00E-03	2.00E-02

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Factor Value	Persist. Value	Toxicity/ Persistence

- N/A and/or data not specified

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Toxicity/Mobility/Persistence Value from Source Hazardous Substances:	2.00E-02
Toxicity/Mobility/Persistence Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility/Persistence Factor:	2.00E-02
Sum of Source Hazardous Waste Quantity Values:	1.79E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	1

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

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT TARGETS
Glens Falls Landfill - 02/09/96

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

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT TARGETS
Glens Falls Landfill - 02/09/96

Level II 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 II Intakes: 0.0

Level II Population Factor: 0.00E+00

Potential Contamination

Intake ID	Average Annual Flow (cfs)	Population Served
- N/A and/or data not specified		

Documentation for Intake :

No intakes have been identified as being present along the surface water pathway.

Reference:

Type of Surface Water Body	Total Population	Dilution-Weighted Population
- N/A and/or data not specified		

Dilution-Weighted Population Served
by Potentially Contaminated Intakes: 0.0

Potential Contamination Factor: 0.0

Nearest Intake

Location of Nearest Drinking Water Intake: N.A.

Nearest Intake Factor: 0.00

Resources

Resource Use: YES

Resource Value: 5.00E+00

SW PATHWAY: GW TO SW COMPONENT DRINKING WATER THREAT TARGETS
Glens Falls Landfill - 02/09/96

Documentation for Resources:

Halfway Creek, located 1 mile to the north of the site and forms approximately 14 miles of the 15 mile surface water pathway, is designated as an acceptable source of drinking water by the State of New York. It may also be used as a source for irrigation of farmlands.

Reference: 16, p. 2 of 7.

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 179.36

Hazardous Substance	Toxicity Value	Persist. Value	Mobility Value	Bio-accum. Value	Tox./Mobil./ Persistence/ Bioaccum. Value
Nickel	100	1.00E+00	2.00E-05	5.00E-01	1.00E-03
PCBs	10000	1.00E+00	2.00E-07	5.00E+04	1.00E+02
Zinc	10	1.00E+00	2.00E-03	5.00E+02	1.00E+01

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Toxicity Value	Persist. Value	Bio-accum. Value	Toxicity/ Persistence Bioaccum. Value
- N/A and/or data not specified				

SW PATHWAY: GW TO SW COMPONENT HUMAM FOOD CHAIN THREAT WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Toxicity/Mobility/Persistence/Bioaccumulation Value from Source Hazardous Substances:	1.00E+02
Toxicity/Mobility/Persistence/Bioaccumulation Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility/Persistence/Bioaccumulation Factor:	1.00E+02
Sum of Source Hazardous Waste Quantity Values:	1.79E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	10

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

Level I Concentrations

Fishery	Annual Production (pounds)	Human Food Chain 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

Level II Concentrations

Fishery	Annual Production (pounds)	Human Food Chain 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

SW PATHWAY: GW TO SW COMPONENT HUMAN FOOD CHAIN THREAT TARGETS
Glens Falls Landfill - 02/09/96

Potential Contamination

Fishery	Annnual Production (pounds)	Type of Surface Water Body	Average Annual Flow (cfs)	Pop. Value (Pi)	Dilution Weight (Di)	Pi*Di
1 Halfway Creek	1.0	River	10	0.0	0.00E+00	0.00E+00
2 Champlain Canal	1.0	River	50	0.0	0.00E+00	0.00E+00

Sum of (Pi*Di): 0.00E+00

Potential Human Food Chain Contamination Factor: 0.00E+00

Documentation for Halfway Creek Fishery:

Halfway Creek is classified by NYSDEC as a fishery.

Reference: 23, p. 11 of 21.

Documentation for Champlain Canal Fishery:

Champlain Canal is classified by NYSDEC as a fishery.

Reference: 23, p.11 of 21.

Food Chain Individual

Location of Nearest Fishery: Halfway Creek
Distance from the Probable Point of Entry: 0.00 miles
Type of Surface Water Body: River
Dilution Weight: 0.0000000
Level of Contamination: Potential

Food Chain Individual Factor: 2.00

Documentation for Halfway Creek:

No flow gages are present on Halfway Creek. Flow rate is an estimated value provided as part of Ref. 27.

Reference: 24, p. 1 of 1; 27, p. 11 of 13.

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 179.36

Hazardous Substance	Eco-toxicity Value	Persist. Value	Mob. Value	Bio-accum. Value	Ecotoxicity/ Mobility/ Persistence/ Bioaccum. Value
Nickel	10	1.00E+00	2.00E-05	5.00E+02	1.00E-01
PCBs	10000	1.00E+00	2.00E-07	5.00E+04	1.00E+02
Zinc	10	1.00E+00	2.00E-03	5.00E+02	1.00E+01

Hazardous Substances Found in an Observed Release

Observed Release Hazardous Substance	Eco-toxicity Value	Persist. Value	Bio-accum. Value	Ecotoxicity/ Persistence/ Bioaccum. Value
- N/A and/or data not specified				

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Source Substances:	1.00E+02
Ecotoxicity/Mobility/Persistence/Bioaccummulation Value from Observed Hazardous Substances:	0.00E+00
Ecotoxicity/Mobility/Persistence/Bioaccummulation Factor:	1.00E+02
Sum of Source Hazardous Waste Quantity Values:	1.79E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	10

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

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS
Glens Falls Landfill - 02/09/96

Level I Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		
Sum of Sensitive Environments Values:		0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level I Concentrations Factor: 0.00E+00

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS
Glens Falls Landfill - 02/09/96

Level II Concentrations

Sensitive Environment	Distance from Probable Point of Entry to Sensitive Env. (miles)	Sensitive Environment Value
- N/A and/or data not specified		
Sum of Sensitive Environments Values:		0

Wetlands

Wetland	Distance from Probable Point of Entry to Wetland (miles)	Wetlands Frontage (miles)
- N/A and/or data not specified		

Total Wetlands Frontage: 0.00 Miles Total Wetlands Value: 0

Sum of Sensitive Environments Value + Wetlands Value: 0.00E+00

Level II Concentrations Factor: 0.00E+00

Potential Contamination

Sensitive Environments

Type of Surface Water Body	Sensitive Environment	Sensitive Environment Value
River	1 Halfway Creek	5
River	6 Champlain Canal	5

Wetlands

Type of Surface Water Body	Sensitive Environment	Wetlands Frontage	Wetlands Value
River	2 Wetlands - GF-25	1.00	25
River	3 Wetlands - GF-3	4.20	150
River	4 Wetlands - PM-4	0.60	25
River	5 Wetlands - PM-5	0.70	25

Documentation for Sensitive Environment Halfway Creek:

Halfway Creek is a state classified surface water body designated as a water body capable of fish propagation.

Reference: 23, p. 11 of 21.

Documentation for Sensitive Environment Wetlands - GF-25:

Based on State of New York Freshwater Wetlands maps.

Reference: 9, p. 1 of 1; 10 p. 1 of 2.

Documentation for Sensitive Environment Wetlands - GF-3:

Based on New York State Freshwater Wetlands Maps.

Reference: 9, p. 1 of 1; 10, p. 1 of 2.

Documentation for Sensitive Environment Wetlands - PM-4:

Based on New York State Freshwater Wetlands Maps.

Reference: 9, p. 1 of 1; 10, p. 1 of 2.

Documentation for Sensitive Environment Wetlands - PM-5:

Based on State of New York Freshwater Wetlands maps.

Reference: 9, p. 1 of 1; 10, p. 1 of 2.

Documentation for Sensitive Environment Champlain Canal:

Champlain Canal is a state classified surface water body designated for fishing.

Reference: 23, p. 11 of 21.

SW PATHWAY: GW TO SW COMPONENT ENVIRONMENTAL THREAT TARGETS
Glens Falls Landfill - 02/09/96

Type of Surface Water Body	Sum of Sens. Environment Values(Sj)	Sum of Wetland Frontage Values(Wj)	Dilution Weight (Dj)	Dj(Wj+Sj)
Small to Moderate Stream	10	150	0.00E+00	0.00E+00

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

Potential Contamination Sensitive Environment Factor: 0.00E+00

SOIL EXPOSURE PATHWAY RESIDENT POPULATION THREAT LIKELIHOOD OF EXPOSURE
Glens Falls Landfill - 02/09/96

Likelihood of Exposure

No.	Source ID	Level of Contamination
- N/A and/or data not specified		

Likelihood of Exposure Factor: 0

Source: 0 (null)

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value
nce Hazardous	8224

Sum of Source Hazardous Waste Quantity Values: 0.00E+00

Documentation for Level I Population:

No soil samples have been obtained for analysis from the landfill proper. No residents are present on-site. The nearest residents are approximately 300 feet south of the site. No daycare centers or schools were observed within 200 feet of the site during the offsite inspection performed by Ebasco.

Reference: 13, p. 16 of 320; 16 p. 2 of 7.

Waste Characteristics Factor Category: 0

Documentation for Level II Population:

No soil samples have been obtained from the landfill proper. No residents are present on-site. The nearest residents are approximately 300 feet south of the site. No daycare centers or schools were observed within 200 feet of the site during the offsite inspection performed by Ebasco.

Reference: 13, p. 16 of 320; 16, p. 2 of 7.

Toxicity Factor: %8.21E
Glens Falls Landfill - 02/09/96

Targets

Level I Population: 0.0 Value: 0.00

Documentation for Workers:

The landfill is inactive and consequently no workers are located on the landfill proper.

Reference: 13, p. 5 of 320.

Level II Population: 0.0 Value: 0.00

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Documentation for Resources:

No on-site usage of the landfill proper has been found in the information reviewed.

Reference:

- N/A and/or data not specified

Resident Individual: (null) Value: 0.00

Terrestial Sensitive Environment	Value
- N/A and/or data not specified	

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Terrestrial Sensitive Environments Factor: 1.30485992031043747000000000000000

NO
TO

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SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT LIKELIHOOD OF EXPOSURE

Likelihood of Exposure

No.	Source ID	Level of Contamination	Attractiveness/ Accessibility	Area of Contam. (sq. feet)
0	PAGE: 92			
SW	TARGETS			
	9504	774910509		
0	(null)		nce	
6.0E-154	1.7E-76	9.7E+246	E D	

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SOIL EXPOSURE PATHWAY NEARBY POPULATION THREAT WASTE CHARACTERISTICS

Glens Falls Landfill - 02/09/96

Source: 0 U 0 740007/14/88-15

Source Hazardous Waste Quantity Value: 1.00

Hazardous Substance	Toxicity Value
(null)	-16384

Toxicity Factor:	7.14E+02
Sum of Source Hazardous Waste Quantity Values:	4.15E+03
Hazardous Waste Quantity Factor:	0

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

Population is based on Census Bureau files STF-1A.

Reference: 4, pp. 8 and 9 of 9.

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

Population is based on Census Bureau files STF-1A.

Reference: 4, pp. 8 and 9 of 9.

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

Population is based on Census Bureau files STF-1A.

Reference: 4, pp. 8 and 9 of 9.

AIR PATHWAY LIKELIHOOD OF RELEASE
Glens Falls Landfill - 02/09/96

OBSERVED RELEASE

No.	Sample ID	Distance (miles)	Level of Contamination

- N/A and/or data not specified

Observed Release Factor: 0

AIR PATHWAY LIKELIHOOD OF RELEASE
Glens Falls Landfill - 02/09/96

Gas Migration Potential

GAS POTENTIAL TO RELEASE

Source ID	Source Type	Gas Contain. Value (A)	Gas Source Type Value (B)	Gas Migrtn. Potent. Value (C)	Sum (B+C)	Gas Potential to Rel. Value A(B+C)
Landfill	Landfill	10	11	11	22	220

Gas Potential to Release Factor: 220

Documentation for Gas Containment, Source Landfill:

Only soil to support vegetative growth was installed on top of the landfill. During an inspection performed after installation, exposed landfilled materials were noted. No further remediation has been performed.

Reference: 13, p. 30 of 320; 16, p. 2 of 7.

Documentation for Source Type, Source Landfill:

Available documentation indicates that the surrounding towns operated a former municipal landfill at the property.

Reference: 12, pp. 1-73 of 73; 13, pp. 1-320 of 320.

AIR PATHWAY LIKELIHOOD OF RELEASE
Glens Falls Landfill - 02/09/96

Source: Landfill

Gaseous Hazardous Substance	Hazardous Substance Gas Migration Potential Value
PCBs	11

Average of Gas Migration Potential Value for 3 Hazardous Substances: 11.000

Gas Migration Potential Value From Table 6-7: 11

AIR PATHWAY LIKELIHOOD OF RELEASE
Glens Falls Landfill - 02/09/96

Particulate Migration Potential

PARTICULATE POTENTIAL TO RELEASE

Source ID	Source Type	Partic. Contain. Value (A)	Partic. Source Type Value (B)	Partic. Migrtn. Potent. Value (C)	Sum (B+C)	Partic. Potential to Rel. Value A(B+C)
Landfill	Landfill	10	22	6	28	280

Particulate Potential to Release Factor: 280

Documentation for Particulate Containment, Source Landfill:

Only soil to support vegetative growth was installed on top of the landfill. During an inspection performed after installation, exposed landfilled materials were noted. No further remediation has been performed.

Reference: 13, p. 30 of 320; 16, p. 2 of 7.

Documentation for Source Type, Source Landfill:

Available documentation indicates that the surrounding towns operated a former municipal landfill at the property.

Reference: 12, pp. 1-73 of 73; 13, pp. 1-320 of 320.

Documentation for Particulate Migration Potential:

Based on Figure 6-2 of HRS.

Reference: 1

Source: Landfill

Particulate Hazardous Substance
Nickel
PCBs
Zinc

AIR PATHWAY WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Source: 1 Landfill

Source Hazardous Waste Quantity Value: 179.36

Hazardous Substance	Toxicity Value	Gas Mobility Value	Particulate Mobility Value	Toxicity/ Mobility Value
Nickel	100	NA	2.00E-04	2.00E-02
PCBs	10000	2.00E-02	2.00E-04	2.00E+02
Zinc	10	NA	2.00E-04	2.00E-03

Hazardous Substances Found in an Observed Release

Sample ID	Observed Release Hazardous Substance	Particulate Toxicity/ Mobility Value	Gas Toxicity/ Mobility Value

- N/A and/or data not specified

Documentation for Particulate Mobility:

Based on Figure 6-3 of HRS.

Reference: 1

AIR PATHWAY WASTE CHARACTERISTICS
Glens Falls Landfill - 02/09/96

Toxicity/Mobility Value from Source Hazardous Substances:	2.00E+02
Toxicity/Mobility Value from Observed Release Hazardous Substances:	0.00E+00
Toxicity/Mobility Factor:	2.00E+02
Sum of Source Hazardous Waste Quantity Values:	1.79E+02
Hazardous Waste Quantity Factor:	100
Waste Characteristics Factor Category:	10

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	0.0	0.0000
> 0 to 1/4 mile	268.0	4.1000
> 1/4 to 1/2 mile	714.0	2.8000
> 1/2 to 1 mile	4152.0	8.3000
> 1 to 2 miles	16385.0	8.3000
> 2 to 3 miles	14215.0	3.8000
> 3 to 4 miles	6449.0	0.7000
	Potential Contaminantion Factor:	28.0000

Documentation for Population Onsite Distance Category:

The landfill is inactive.

Reference: 13, p. 5 of 320; 16, p. 1 of 7.

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

Population is based on Census Bureau files STF-1A and calculated as per formula described and provided on pages 1 and 2 of Reference 4.

Reference: 4, pp. 8 and 9 of 9.

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

Population is based on Census Bureau files STF-1A and calculated as per formula described and provided on pages 1 and 2 of Reference 4.

Reference: 4, pp. 8 and 9 of 9.

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

Population is based on Census Bureau files STF-1A and calculated as per formula described and provided on pages 1 and 2 of Reference 4.

Reference: 4, pp. 8 and 9 of 9.

Documentation for Population > 1 to 2 miles Distance Category:

Population is based on Census Bureau files STF-1A and calculated as per formula described and provided on pages 1 and 2 of Reference 4.

Reference: 4, pp. 8 and 9 of 9.

Documentation for Population > 2 to 3 miles Distance Category:

Population is based on Census Bureau STF-1A files and calculated as per formula described and provided on pages 1 and 2 of Reference 4.

Reference: 4, pp. 8 and 9 of 9.

AIR PATHWAY TARGETS
Glens Falls Landfill - 02/09/96

Documentation for Population > 3 to 4 miles Distance Category:

Population is based on Census Bureau files STF-1A and calculated as per formula described and provided on pages 1 and 2 of Reference 4.

Reference: 4, pp. 8 and 9 of 9.

Nearest Individual Factor

Level of Contamination: Potential
Distance in miles: 0 to 1/8

Nearest Individual Value: 20

Documentation for Nearest Individual:

Nearest residence is south of landfill across Lazurne road.

Reference: 16, p. 1 of 7.

Resources

Resource Use: NO

Resource Value: 0

Documentation for Resources:

No resources identified.

Reference: 6, p. 1 of 1.

AIR PATHWAY TARGETS
Glens Falls Landfill - 02/09/96

Actual Contamination, Sensitive Environments

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

Actual Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value
- N/A and/or data not specified		

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

AIR PATHWAY TARGETS
Glens Falls Landfill - 02/09/96

Potential Contamination, Sensitive Environments

Sensitive Environment	Distance (miles)	Sensitive Environment Value	Distance Weight	Weighted Value/10
Nor. Wild Comfrey	1.360	50	0.0051	0.026
Karner Blue	2.060	75	0.0023	0.017
Karner Blue	2.380	75	0.0023	0.017
Karner Blue	2.170	75	0.0023	0.017
Karner Blue	0.860	75	0.0160	0.120
Karner Blue	1.860	75	0.0051	0.038
Karner Blue	3.110	75	0.0014	0.011
Karner Blue	1.170	75	0.0051	0.038
Karner Blue	1.330	75	0.0051	0.038
Karner Blue	0.550	75	0.0160	0.120
Karner Blue	0.420	75	0.0540	0.405
Karner Blue	1.695	75	0.0051	0.038
S. W. Ladyslipper	3.295	75	0.0014	0.011
Sum of Sensitive Environments Weighted Values/10:				0.896

Potential Contamination, Wetlands

Distance Category	Wetland Acreage	Wetland Acreage Value	Distance Weight	Weighted Value/10
> 3 to 4 miles	832.2	500.0	0.0014	0.070
> 2 to 3 miles	365.0	350.0	0.0023	0.081
> 1 to 2 miles	91.3	75.0	0.0051	0.038
> 1/2 to 1 mile	21.8	25.0	0.0160	0.040
Total Wetland Acreage:	1310.3			
Sum of Wetland Weighted Acreage Values/10:				0.229

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Sensitive Environment Potential Contamination Factor: 1.000

Documentation for Sensitive Environment Nor. Wild Comfrey:

New York State status of species is threatened.

Reference: 17, p. 4 of 12.

Documentation for Sensitive Environment Karner Blue:

Federal status for the species is endangered.

Reference: 17, p. 4 of 12.

Documentation for Sensitive Environment Karner Blue:

Federal status for species is endangered.

Reference: 17, p. 4 of 12.

Documentation for Sensitive Environment Karner Blue:

Federal status for species is endangered.

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Documentation for Sensitive Environment Karner Blue:

Federal status of species is endangered.

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Documentation for Sensitive Environment Karner Blue:

Federal status for the species is endangered.

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Documentation for Sensitive Environment Karner Blue:

Federal status for the species is endangered.

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Documentation for Sensitive Environment Karner Blue:

Federal status for the species is endangered.

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Documentation for Sensitive Environment Karner Blue:

Federal status for the species is endangered.

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Documentation for Sensitive Environment Karner Blue:

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Documentation for Sensitive Environment Karner Blue:

Federal status for the species is endangered.

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Documentation for Sensitive Environment Karner Blue:

Federal status for the species is endangered.

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Documentation for Sensitive Environment S. W. Ladyslipper:

New York State status for the species is endangered.

Reference: 17, p. 6 of 12.

Documentation for Sensitive Environment Wetlands:

Based on New York State Freshwater wetlands maps.

Reference: 9, p. 1 of 1; 10, p. 1 of 2.

Documentation for Sensitive Environment Wetlands:

Based on New York State Freshwater Wetlands maps.

Reference: 9, p. 1 of 1; 10, p. 1 of 2.

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Reference: 9, p. 1 of 1; 10, p. 1 of 2.