1902014

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PRELIMINARY SITE ASSESSMENT

PATTON'S BUSY BEE DISPOSAL ALFRED STATION (T)

SITE NO. 902014 ALLEGANY (C)





Prepared for:

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 Wolf Road, Albany, New York

Thomas C. Jorling, Commissioner

DIVISION OF HAZARDOUS WASTE REMEDIATION

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DECEMBER 1990

PRELIMINARY SITE ASSESSMENT TASK 1: DATA RECORDS SEARCH AND ASSESSMENT

PATTON'S BUSY BEE DISPOSAL SITE
SITE NO. 902014
ALFRED STATION (T)/ALLEGANY (C)

DECEMBER 1990

Performed Under
NYSDEC CONTRACT NO. D002340
NYSDEC WORK ASSIGNMENT NO. D002340-3

By URS CONSULTANTS, INC.

For

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

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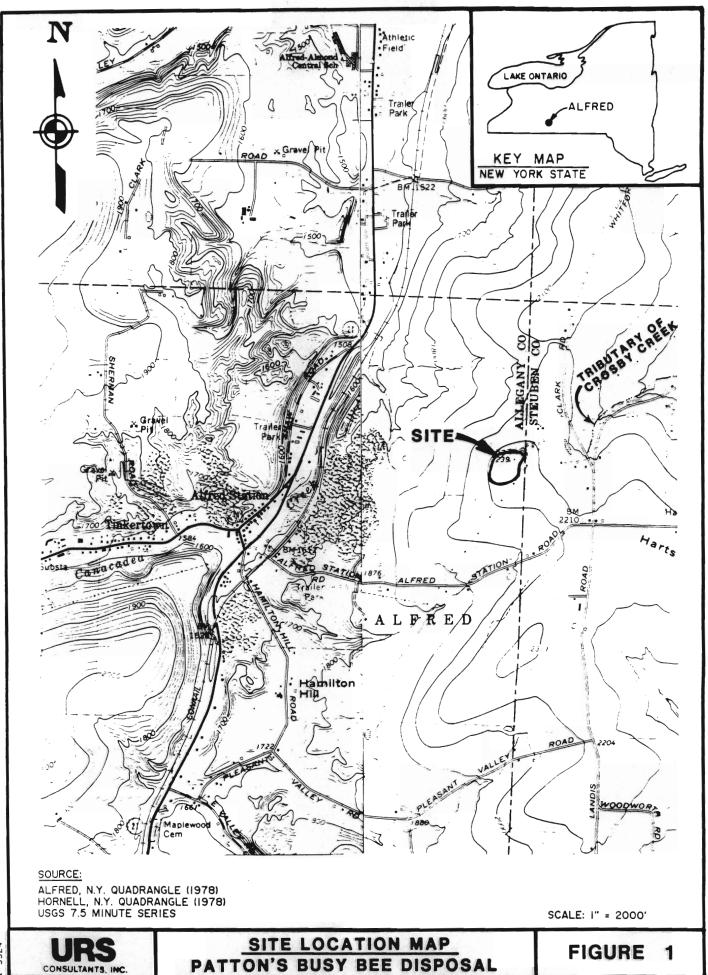
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EXECUTIVE SUMMARY

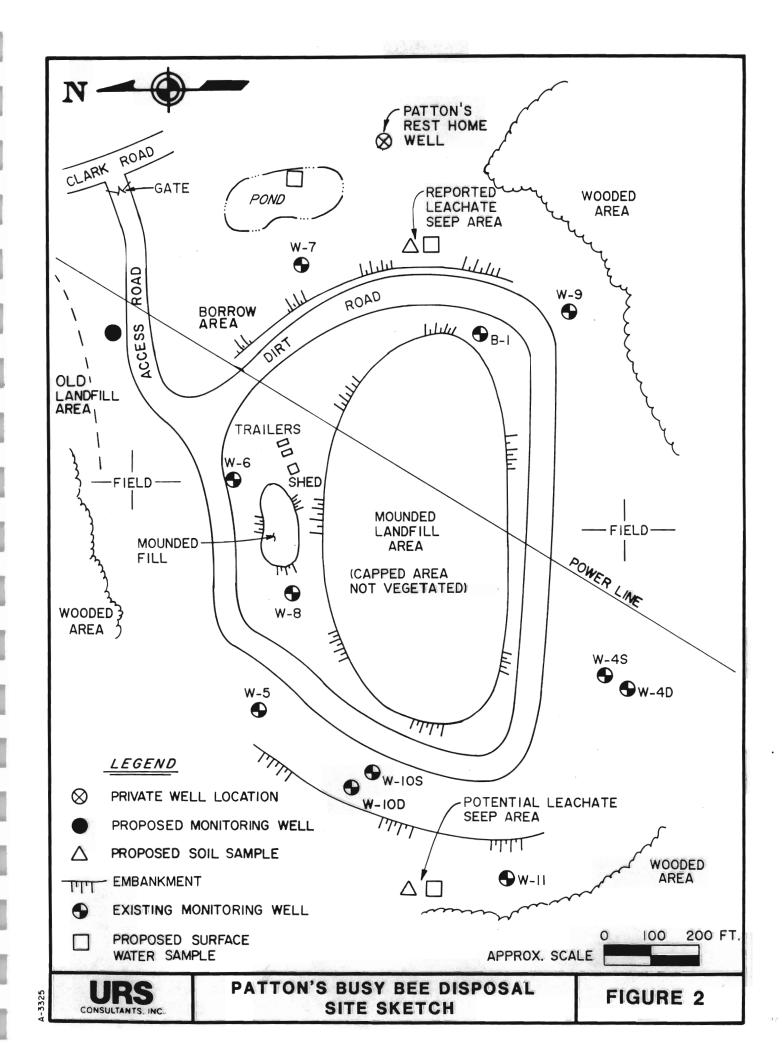
The Patton's Busy Bee Disposal Site (No. 902014) is a 23.25 acre landfill located approximately one mile northeast of Alfred Station, Allegany County, New York (Figs. 1, 2,3) (Ref. 1). The portion of the landfill under investigation is an 8-10 acre trench area which was permitted by the NYSDEC in 1980 to operate as a sanitary landfill. Prior to 1986 the area consisted of three unlined trenches. In 1986 a lined remedial trench with a leachate collection system was constructed along the southern and eastern borders of the unlined trenches (Fig. 4). The purpose of the remedial trench is to intercept leachate produced by fill in the unlined trenches. The remedial trench was filled with C&D debris to create additional landfill space. A two-foot thick clay cap covers all the trenches.

The site accepted municipal waste from Allegany County along with industrial waste from industries in Pennsylvania, Steuben County, and Allegany County (Ref. 1). Additionally, the landfill accepted dewatered sewage sludge from wastewater treatment plants (Ref. 1). SKF Industries, formerly of Hornell, New York, completed a NYSDEC Hazardous Waste Questionnaire in 1981 stating that they disposed of 77 tons of a corrosive liquid through Pattons' Disposal Service. The corrosive liquid was reported as an alkaline metal cleaning solution with a pH of 12.5 (Refs. 2, 3).

Eleven monitoring wells exist at the site. The wells were installed at the expense of the landfill owner between 1983 and 1988, and periodic monitoring of them has occurred since 1986 under the supervision of the NYSDEC Division of Solid Waste. Groundwater contamination has been detected in both the shallow and deep monitoring wells located along the western and southwestern borders of the site (Ref. 4). Major contaminants include: trichloroethylene and trans-1,2-dichloroethylene at maximum



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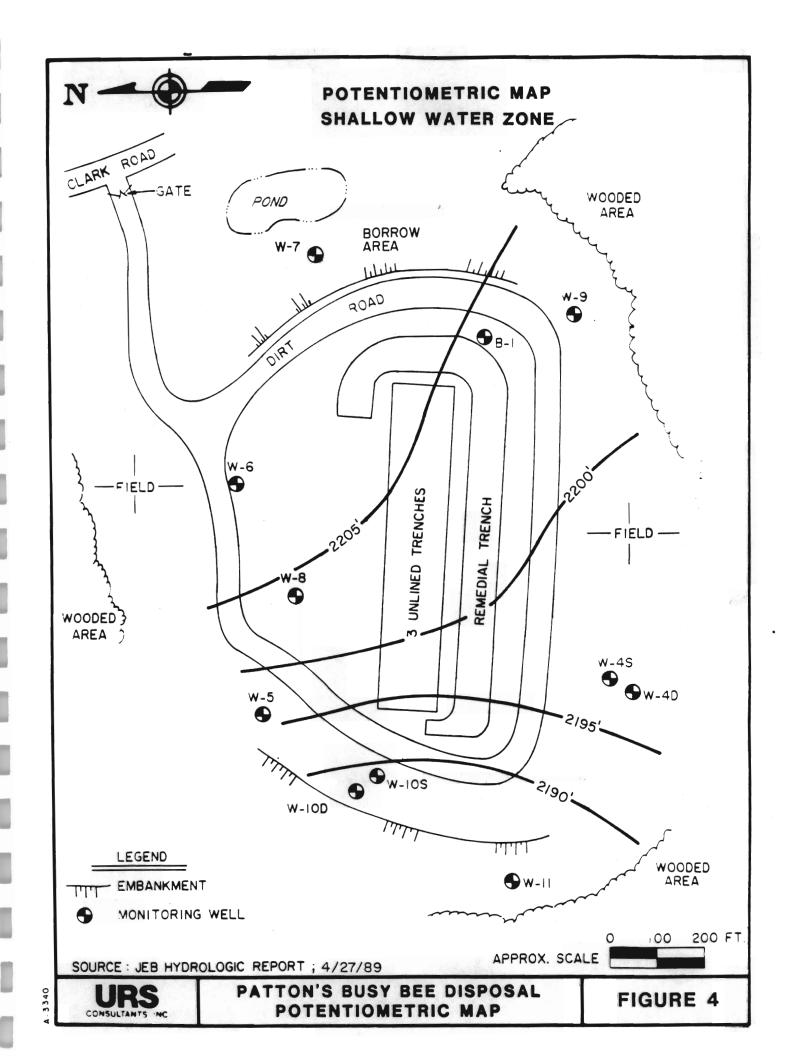


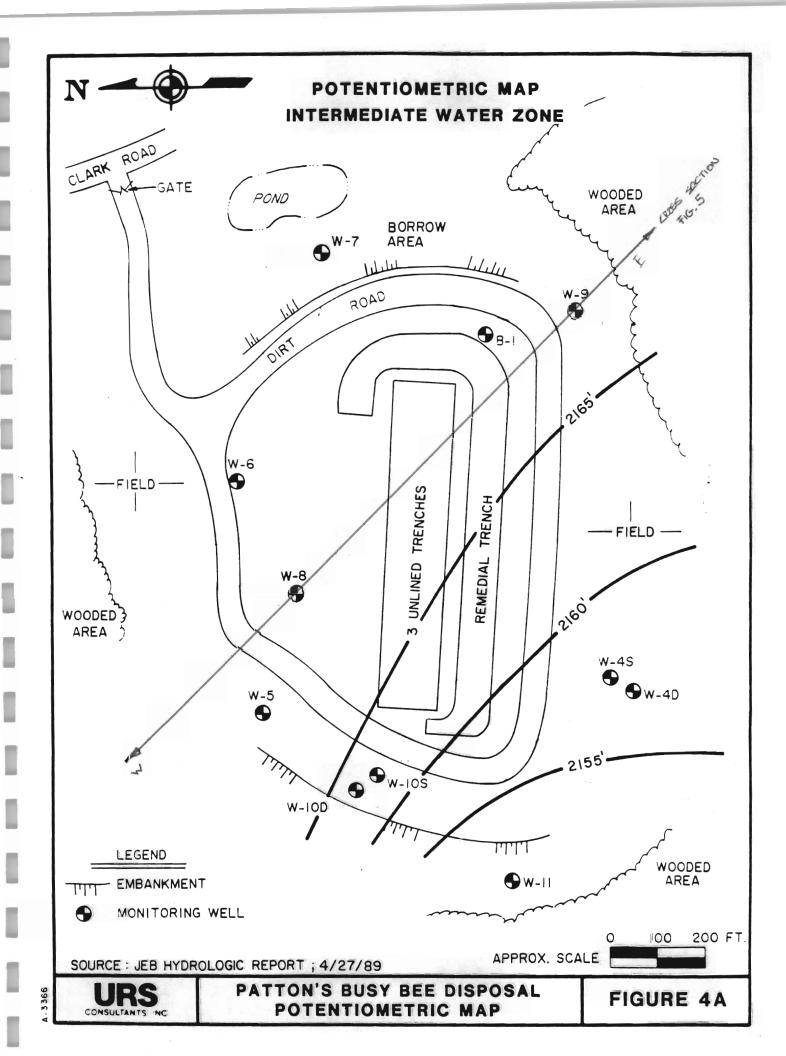
Looking from the northeastern side of the landfill towards the unvegetated mounded fill area to the southwest.



Looking from the southern side of the landfill southeast towards the field area along the southern edge of the site.

FIGURE 3-SITE PHOTOGRAPHS PATTON'S BUSY BEE DISPOSAL





concentrations of 110,000 and 59,000 ug/l, respectively (Ref. 4)(Tables 1.1 through 1.9).

Although recent engineering reports prepared for Patton's Disposal Service indicate vertical and horizontal hydraulic conductivities of the overburden and weathered bedrock are low $(10^{-4} \text{ cm/sec} \text{ or less})$, the detection of organic compounds in several shallow and deep wells beyond the trenches confirms the offsite migration of contaminants (Ref. 5). Groundwater contamination is of major concern because private and municipal wells are the primary source of potable water within a three mile radius of the site (Ref.6).

A site inspection was conducted on May 29, 1990. Inspection personnel included: Robert Kreuzer (URS Consultants), Dave Locey (NYSDEC), Kevin Glaser (NYSDEC), and John Wulforst (Allegany County Soil and Water Conservation Department). At the time of the inspection, the site appeared to be well capped, but the ground surface was not vegetated. No areas of leachate outbreaks could be observed due to runoff from heavy rain during the site inspection.

While existing groundwater data is insufficient to accurately determine the significance of the threat to the water supply in the vicinity of the Patton's Busy Bee Disposal site, contaminants detected in analysis of water from monitoring wells indicates that a threat does exist. It is recommended that the NYSDEC reclassify the site as a Class 2 and perform a remedial investigation/feasibility study (RI/FS). The RI/FS should include a soil vapor survey, the installation of an additional monitoring well to serve as a background well and analysis of surface water, soil, and groundwater samples incorporating the entire NYSDEC ASP list. URS Consultants also recommends conducting hydrologic tests to determine the hydraulic conductivity of the bedrock in the area.

TABLE 1.1

PATTON'S BUSY BEE LANDFILL DETECTED ANALYTICAL RESULTS WELL NO. W-4S

| SAMPLING DATE | 11/05/86 | 10/14/87 | 1/19/88 | 4/22/88 | 8/02/88 | 11/30/88 | 1/19/89 | 4/27/89 | 1/27/90 |
|-----------------------------------|----------|----------|---------|---------|---------|----------|---------|---------|---------|
| | | | | | | | | | |
| trans-1,2-Dichloroethylene (ug/l) | 84 | 77 | 64 | 41 | 85 | | 96 | 89 | |
| Trichloroethylene (ug/I) | 21 | 21 | 5 | 7.1 | 10 | 6.4 | 4 | 4 | |
| 1,1,1-Trichloroethane (ug/l) | 7.4 | 5.7 | | | 4 | | 0 | | |
| Methylene Chloride (ug/l) | | | | | | | | | 9.6 |
| Total Chromium (mg/l) | 0.553 | | | | | | | | |
| Total Iron (mg/l) | 069 | 0.25 | | | | | | | |
| Total Magnesium (mg/l) | | 14 | | | | | | | |
| Total Manganese (mg/l) | | | 4.7 | | | | | | |
| Total Sodium (mg/l) | | 20 | | | | | | | |
| Soluble Aluminum (mg/l) | 0.2 | | | | | | | | |
| Soluble Calcium (mg/l) | 80.6 | | | | | | | | |
| Soluble Copper (mg/l) | 0.009 | | | | | | | | |
| Soluble Magnesium (mg/l) | | 15 | | | | | | | |
| Soluble Manganese (mg/l) | 1.78 | | 0.008 | | | | | | |
| Soluble Sodium (mg/l) | 39 | 20 | | | | | | | |
| Soluble Zinc (mg/l) | 0.08 | | | | | | | | |
| Total Alkalinity (mg/l) | | 44 | | | | | | | |
| Ammonia (mg/l) | | 0.12 | | | | | | | |
| Total Organic Carbon (mg/l) | | 3.5 | 3.8 | 19 | 14.6 | 9 | 49.5 | 19.7 | |
| Chemical Oxygen Demand (mg/l) | 93 | | | | | | | | |
| Chloride (mg/l) | | 110 | | | 64.6 | 150 | 96 | 9/ | |
| Nitrate (mg/l) | 3.7 | | | | | | | | |
| Sulfate (mg/l) | . 29 | | | | | | | | |
| Total Kjeldahl Nitrogen (mg/l) | | 0.5 | | | | | | | |
| Turbidity (N.T.U.) | | 860 | | | | | | | |
| pH (s.u.) | 6.25 | 6.75 | 7.31 | 6.5 | 6.19 | 6.24 | 6.54 | 6.63 | |
| Specific Conductance (umhos/cm) | 740 | 410 | 475 | 875 | 610 | 580 | 520 | 559 | |
| Phenol (ppb) | | | | | | 6.3 | | | |

TABLE 1.2

PATTON'S BUSY BEE LANDFILL DETECTED ANALYTICAL RESULTS WELL NO. W-4D

| SAMPLING DATE | 1/19/88 | 4/22/88 | 8/02/88 | 11/30/88 | 1/19/89 | 4/27/89 | 1/27/90 |
|-----------------------------------|---------|---------|--|----------|---------|---------|---------|
| | | | | | | | |
| trans-1,2-Dichloroethylene (ug/l) | 58 | 48 | 52 | | 22 | 88 | 160 |
| Trichloroethylene (ug/l) | 15 | 16 | 18 | 22 | 13 | 28 | 9 |
| Vinyl Chloride (ug/l) | 7 | | | | | | |
| Chloroethene (ug/I) | | | | | | 9.8 | |
| Chloroethane (ug/l) | | | | | | | 58 |
| Total Manganese (mg/l) | 3.9 | | | | | | |
| Soluble Manganese (mg/l) | 0.13 | | And the Control of th | | | | |
| Total Organic Carbon (mg/l) | 8.9 | 25 | 20.9 | 9 | 43.3 | 15.6 | |
| Chloride (mg/I) | | | 88.2 | 120 | 96 | 113 | |
| pH (s.u.) | 7.02 | 7.51 | | 7.66 | 6.39 | 7.22 | |
| Specific Conductance (umhos/cm) | 525 | 1050 | | 630 | 540 | 390 | |
| Phenol (ppb) | | | | 6.3 | | | |

TABLE 1.3

PATTON'S BUSY BEE LANDFILL DETECTED ANALYTICAL RESULTS WELL NO. W-7

| Acetone (ug/l) 0.013 Total Chromium (mg/l) 0.013 Total Iron (mg/l) 3.7 Total Manganese (mg/l) 0.2 Soluble Aluminum (mg/l) 49.1 Soluble Calcium (mg/l) 0.11 0.05 Soluble Sodium (mg/l) 0.11 0.04 Total Alkalinity (mg/l) 60 Total Organic Carbon (mg/l) 2.9 | | _ | | | | |
|---|---------|----------|------|------|------|-------|
| g/l) 0.013 ng/l) 3.7 mg/l) 0.2 g/l) 49.1 (mg/l) 0.11 11 11 11 11 11 11 11 11 11 | | | | | | |
| 9/l) 0.013 ng/l) 3.7 mg/l) 0.2 g/l) 49.1 s(mg/l) 0.11 11 11 11 11 10 10 10 10 10 | | | | | | 200 B |
| mg/l) 0.2 (mg/l) 0.11 (mg/l) 0.11 (mg/l) 0.11 (mg/l) 0.11 (mg/l) 0.04 (l) | | | | | | |
| mg/l) 0.2 g/l) 49.1 (mg/l) 0.11 (mg/l) 0.11 (l) 0.04 (l) 60 | | | | | | |
| g/l) 0.2 g/l) 49.1 g/l) 0.11 g/l) 0.04 l) 60 | 0.045 | | | | | |
| (mg/l) 49.1 (l/g) | | | | | | |
| (mg/l) 0.11 (l) 11 (l) 60 (l) 60 | | | | | | |
| (l/g (l) | 0.029 | | | | | |
| (h) (h) | | | | | | |
| | | | | | | |
| | | | | | | |
| _ | | 13 10.4 | 8 | 9.4 | 34.5 | |
| Chemical Oxygen Demand (mg/l) 28 | | | | | | |
| Chloride (mg/l) | | 66.1 | 66 | 140 | 166 | |
| Total Hardness (mg/l) 288 | | | | | | |
| Nitrate (mg/l) 0.61 | | | | | | |
| 18 | 35 | | | | | |
| Total Kjeldahl Nitrogen (mg/l) | | | | | | |
| Turbidity (N.T.U.) | | | | | | |
| pH (s.u.) | 7.25 6. | 6.65 6.1 | 80.9 | 5.53 | 6.39 | |
| Specific Conductance (umhos/cm) 730 42 | 425 6 | 650 347 | 430 | 520 | 643 | |
| Phenol (ppb) | | 0.3 | 6.3 | 4.1 | | |

Note: Field Blank value for Acetone = 17 ug/l.

TABLE 1.4

PATTON'S BUSY BEE LANDFILL DETECTED ANALYTICAL RESULTS WELL NO. W-8

| SAMPLING DATE | 10/14/87 | 1/19/88 | 4/22/88 | 8/02/88 | 11/30/88 | 1/19/89 | 4/27/89 | 1/27/90 |
|----------------------------------|----------|---------|---------|---------|----------|---------|---------|---------|
| | | | | | | | | |
| Trichlorofluormethane (ug/I) | | 6 | | | | | | |
| 1,1,1-Trichloroethane (ug/I) | | | | 8 | | | | |
| Acetone (ug/I) | | | | | | | | 52 |
| Total Iron (mg/I) | 0.19 | | | | | | No. | |
| Tota Magnesium (mg/I) | 7.8 | | | | | | | |
| Total Manganese (mg/l) | | 0.24 | | | | | | |
| Total Sodium (mg/l) | 2 | | | | | | | |
| Soluble Magensium (mg/l) | 8 | | | | | | | |
| Soluble Manganese (mg/l) | | 0.24 | | | | | | |
| Total Alkalinity (mg/l) | 99 | | | | | | | |
| Ammonia (mg/l) | 0.14 | | | | | | | |
| Biochemical Oxygen Demand (mg/l) | 2.4 | | | | | | org. | |
| Total Organic Carbon (mg/l) | 7.9 | 12 | 37 | 27.4 | 12 | 38.2 | 19.7 | |
| Chloride (mg/l) | 16 | | | 3.37 | 200 | 29 | 32.3 | |
| Total Kheldahl Nitrogen (mg/l) | 0.59 | | | | | | | |
| Trubidity (N.T.U.) | 20 | | | | | | | |
| pH (s.u.) | 5.8 | 6.17 | 5.85 | 5.94 | 6.82 | 5.95 | 6.04 | |
| Specific Conductance (umhos/cm) | 175 | 200 | 350 | 182 | 240 | 230 | 256 | |

TABLE 1.5

PATTON'S BUSY BEE LANDFILL DETECTED ANALYTICAL RESULTS WELL NO. W-9

| (ug/l) 3.7 0.48 23 8 17 1 17 22 1 1 16 34 0.21 0.21 | | | | | | |
|--|----------|------|------|------|------|----|
| ene (ug/l) 3.7 0.48 23 8 8 17 17 17 17 19/l) 22 18 16 19 16 19 19 19 19 19 19 19 19 19 19 19 19 19 | | | | | | |
| 9/l) 22 16 16 34 0.21 2.4 2.4 | | | | - | | |
| 23 | | | | | | |
| (mg/l) 17 (mg/l) 22 (mg/l) 16 16 17 16 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | | | | |
| (mg/l) 22 16 17 16 16 17 16 17 16 17 16 17 16 17 17 17 17 17 17 17 17 17 17 17 17 17 | 8.1 | | | | | |
| 22 1 16 16 34 34 0.21 0.21 2.4 | | | | | | |
| 16 34 0.21 0.21 | | | | | | |
| 16 34 0.21 0.21 eman (mg/l) 2.4 | 1.3 | | | | | |
| 34 0.21 (mg/l) 2.4 | | | | | | |
| 0.21 (mg/l) 2.4 | | | | | | |
| 1 (mg/l) 2.4 | | | | | | |
| • | | | | | | |
| arbon (mg/l) | 12 2 | 12.5 | 13 | 10.3 | 20.8 | |
| Chloride (mg/l) | | 133 | 200 | 1930 | 251 | |
| Total Kjeldahl Nitrogen (mg/l) 0.66 | | | | | | |
| Turbidity (N.T.U.) | | | | | | |
| pH (s.u.) 7.1 6.17 | .17 5.82 | 5.72 | 60.9 | 5.69 | 5.58 | |
| Specific Conductance (umhos/cm) 490 200 | 200 850 | 481 | 710 | 750 | 191 | |
| Phenol (ppb) | | | 6.3 | | 11.4 | |
| Methylene Chloride | | | | | | 35 |

TABLE 1.6

PATTON'S BUSY BEE LANDFILL DETECTED ANALYTICAL RESULTS WELL NO. W-10S

| SAMPLING DATE | 10/14/87 | 1/19/88 | 4/22/88 | 8/02/88 | 1/19/89 | 4/27/89 | 1/27/90 |
|-----------------------------------|----------|---------|---------|---------|---------|---------|---------|
| | | | | | | | |
| trans-1,2-Dichloroethylene (ug/l) | 29000 | * | * | **097 | 18000 | 13000 | 11000 |
| Trichloroethylene (ug/I) | 110000 | | | 1300** | 38000 | 32000 | 28000 |
| 1,1-Dichloroethylene (ug/I) | 72 | | | | | 12 | |
| Tetrachloroethylene (ug/l) | 77 | | | | | 15 | |
| Toluene (ug/I) | 570 | | | | | | |
| Vinyl Chloride (ug/l) | 200 | | | | | | |
| Methylene Chloride (ug/I) | | | | 140** | | | 35 |
| 1,1,2-Trichloroethane (ug/I) | | | | | 160 | | |
| 1,1,2,2-Tetrachloroethane (ug/I) | | | | | 14 | | |
| 1,1-Dichloroethylene (ug/l) | | | | | 13 | | |
| Chloroethene (ug/l) | | | | | 11 | 7 | |
| Acetone (ug/l) | | | | | | | 120 B |
| Total Organic Carbon (mg/l) | | | | | | | |
| Chloride (mg/l) | | | | | | | |
| pH (s.u.) | | | | | | | |
| Specific Conductance (umhos/cm) | | | | | | | |

Note: Trichloroethylene in various quarterly monitoring reports was recorded as 110 ug/l. It should have been 110,000 ug/l. This value was checked using Recra Environmental's original data sheet.

Note: Acetone value for the field blank = 17 ug/l.

- W-10S was dry during these sampling events.
- ** Sample vial froze and broke during storage at lab. Analysis performed on remaining sample in vial.

TABLE 1.7

PATTON'S BUSY BEE LANDFILL DETECTED ANALYTICAL RESULTS WELL NO. W-10D

| SAMPLING DATE | 1/19/88 | 4/22/88 | 4/22/88 | 8/02/88 | 11/30/88 1/18/89 | 1/18/89 | 4/27/89 |
|-----------------------------------|---------|---------|---------|---------|------------------|---------|---------|
| | | | | | | | |
| trans-1,2-Dichloroethylene (ug/I) | 9 | 3.5 | 3.7 | 6 | | 7 | 9.5 |
| Total Dichlorobenzene (ug/l) | | | | 56 | | | |
| Methylene Chloride (ug/l) | | | | 20 | | | |
| Total Manganese (mg/l) | 0.074 | | | | | | |
| Soluble Manganese (mg/l) | 0.014 | | | | | | |
| Total Organic Carbon (mg/l) | 10 | 17 | 18 | 24.1 | 18 | 19.3 | 20.8 |
| Chloride (mg/l) | | | | 101 | 150 | 72 | 66.8 |
| pH (s.u.) | 7.68 | 7.43 | 7.48 | 7.6 | 7.64 | 7.04 | 7.05 |
| Specific Conductance (umhos/cm) | 550 | 925 | 925 | 548 | 280 | 490 | 488 |

TABLE 1.8

PATTON'S BUSY BEE LANDFILL DETECTED ANALYTICAL RESULTS WELL NO. W-11

| SAMPLING DATE | 4/22/88 | 8/02/88 | 11/30/88 | 1/19/89 | 4/27/89 | 1/27/90 |
|-----------------------------------|---------|---------|----------|---------|---------|---------|
| | | | | | | |
| trans-1,2-Dichloroethylene (ug/I) | 100 | 220 | | 140 | 82 | 100 |
| Trichloroethylene (ug/I) | 21 | 20 | 37 | 24 | 18 | 19 |
| Chloroethene (ug/I) | | 4 | | 2 | | |
| Total Organic Carbon (mg/l) | 16 | 38 | 10 | 37.4 | 20.9 | |
| Chloride (mg/l) | | | 220 | 170 | 129 | |
| pH (s.u.) | 5.89 | 5.85 | 6.21 | 5.55 | 5.78 | |
| Specific Conductance (umhos/cm) | 1050 | 584 | 720 | 830 | 222 | |
| Phenol (ppb) | | | 5.8 | | | |

TABLE 1.9

PATTON'S BUSY BEE LANDFILL DETECTED ANALYTICAL RESULTS LEACHATE

| SAMPLING DATE: | UNITS | 6/25/87 | 4/22/99* | 6/15/88* | 4/27/89 |
|----------------------------|-------|---------|----------|----------|---------|
| | | | | | |
| Benzene | l/gu | 2.0 | | | |
| Chloroethene | I/bn | | | | 220 |
| 1,2-Dichlorobenzene | l/gu | 3.2 | | | |
| Trans-1,2-Dichloroethylene | l/6n | 42 | | 295 | 340 |
| Ethylbenzene | l/gu | 32 | | | |
| Methylene Chloride | l/gu | | | | 9.0 |
| Toluene | l/gu | 220 | | | 20 |
| Vinyl Chloride | l/gu | 32 | | | |
| Total Dichlorobenzenezes | l/gu | 3.2 | | | 6.2 |
| Total Xylenes | l/gu | | | | 30 |
| | 100 | | | | |
| Total Aluminum | l/gm | 1.5 | 0.33 | | |
| Total Arsenic | l/gm | 0.010 | 0.0060 | | |
| Total Cadmium | l/gm | 0.012 | 0.0065 | | |
| Total Calcium | l/gm | 505 | 310 | | |
| Total Chromium | l/gm | 0.015 | 0.015 | | |
| Total Copper | l/gm | 600.0 | 0.016 | | |
| Total Iron | mg/l | 98 | 35 | | |
| Total Lead | mg/l | 0.026 | | | |
| Total Manganese | l/gm | 17 | 3.1 | | |
| Total Silver | l/gm | | 0.049 | | |
| Total Sodium | mg/l | 009 | 1600 | | |
| Total Zinc | mg/l | 2.1 | 2.0 | | |

NOTE*: Due to problems with the contract laboratory exceeding holding times on several parameters associated with the 4/22/88 sampling, resampling was conducted on 6/1/88 for subsequent analysis of these parameters.

Patton's Disposal had planned to have a soil vapor survey conducted to map the extent and source of the contaminants plume. JEB Consultants (Mr. Patton's engineering firm) has subsequently notified the NYSDEC Division of Solid Waste that Patton's Disposal will not be performing the scheduled soil vapor survey due to financial reasons (Ref. 7).

It appears that Laverne Patton, the site owner, is not taking action to remediate the groundwater contamination problem. As a result, a comprehensive RI/FS should be conducted at the site to assess the threat posed by the contaminants detected. Based on available data, the site's current Hazard Ranking System scoring is as follows:

$$S_M = 35.95 (S_{GW} = 62.17, S_{SW} = 2.01, Sa = 0)$$

$$S_{FE} = 0$$

$$S_{DC} = 0$$

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



ADDITIONS/CHANGES TO REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES

| | 1. SITE NAME Patton's Busy Bee Disposal 2. TAX MAP NO. 3. TOWN Alfred Station 4. COUNTY Allegany |
|-----|--|
| | 5. REGION 6. CLASSIFICATION 7. ACTIVITY |
| | 9 Current Proposed Add Reclassity Delist Modify From 2a to 2 |
| | 8. DESCRIBE LOCATION OF SITE |
| | Patton's Busy Bee Landfill is located in a rural area approximately 1 mile northeast of Alfred Station, New York. It is located on top of a N-S trending shale ridge along |
| | the eastern border of Allegany County. |
| П | |
| П | b. Site Latitude 420 16 21 longitude 770 44 20 |
| . L | c. A USGS Topographic Map is attached showing site location Yes Quadrangle Hornell No |
| П | 9. BRIEFLY DESCRIBE THE SITE Patton's Busy Bee Disposal Site is a 23.25 acre landfill located 1 |
| Н | mile Northeast of Alfred Station New York. The facility reportedly accepted municipal, |
| Л | industrial and commercial waste. The site consists of 3 unlined trenches and a lined |
| Н | remedial trench. Groundwater contamination is of major concern since wells are the |
| ч | primary source of potable water for the area. |
| | |
| П | b. Area 23.25 acres c. DEC ID Number 902014 d. EPA ID Number |
| 4 | e. PA/SI Yes No f. DEC investigation None Phase I Phase II Other PSA |
| . | g. A Property Survey Map is attached showing disposal areas Yes Who |
| ľ | 10. BRIEFLY LIST THE TYPE AND QUANTITY OF THE HAZARDOUS WASTE AND THE DATES THAT IT WAS STORED/DISPOSED OF AT THIS SITE |
| ч | oSKF Industries of New York Reportedly used Patton's Disposal service to dispose of |
| 1 | 77 tons of a corrosive Alkaline cleaner between Feb. 81-Aug.81 |
| | oVarious organic compounds detected in monitoring wells indicate a significant amount |
| Ц | of halogenated organic waste was disposed of at the facility. |
| T | 11. SUMMARIZED SAMPLING DATA ATTACHED |
| H | ☐ Air ☑ Groundwater ☐ Surface Water ☐ Soil ☐ Waste ☐ EP Tox. |
| 4 | b List continued and a second and a second as a second |
| | b. List contravened parameters and values Trichloroethylene 110,000 micrograms/liter |
| | trans-1,2-dichloroethylene 59,000 micrograms/liter |
| ٩. | toluene 510 micrograms/liter |
| 1 | Vinyl Chloride 500 micrograms/liter |
| H | 12. PLEASE PROVIDE THE FOLLOWING INFORMATION |
| 1 | a. Distance to nearest surface water 1,500 ft. Classification Class D |
| Ţ. | b. Depth to nearest groundwater 50-150 ft. Aquifer Sole Source Primary Principal |
| | c. Distance to nearest water supply 4,000 ft. Village of Classification Alfred Municipal Wells |
| 1 | d. Is site used for agricultural purposes (crops or livestock)? |
| 1 | e. Is access to site controlled (e.g. fences, gates)? |
| j | f. Has site documented fish or wildlife mortality? |
| | g. Has site impacted on a special status fish or wildlife resource? |
| Ĺ | h. Is the site within a State Economic Development Zone? |
| Ļ | |
| | |
| ì | j. For Class 2, Priority Category. |
| Ļ | k. HRS Score Yes No Sm=35.95, Sfe=0.00, Sdc=0.00 |
| | ToWards Dakken |
| Ì | (007) 270-2003 |
| Į | Alfred Station, N.Y. |
| | |
| ì | Date Signature and Title |

PURPOSE

Task 1, Data Records Search and Assessment, of the Preliminary Site Assessment (PSA) was conducted at Patton's Busy Bee Waste Disposal, Site No. 902014, Alfred Station, Allegany County, New York by URS Consultants under contract to the New York State Department of Environmental Conservation (NYSDEC) Superfund Standby Contract (Contract No. D002340, Work Assignment No. D002340-3).

The Patton's Busy Bee Disposal site (Figure 1) is a suspected inactive hazardous waste site recognized by NYSDEC. This site is currently classified as Class 2a because there is insufficient information to document hazardous waste disposal and/or assess the significance of potential risks to public health or the environment. The purpose of a PSA is to provide the information for NYSDEC to reclassify the site according to the following classifications:

- Class 2- Hazardous waste sites presenting a significant threat to the public health or the environment.
- o Class 3- Hazardous waste sites not presenting a significant threat to the public health or the environment
- o Delist-Sites where hazardous waste disposal can not be documented.

3. SCOPE OF WORK

The Preliminary Site Assessment of Patton's Busy Bee Disposal Site comprised several interrelated tasks as follows:

File Reviews and Data Search

An extensive data search was conducted, utilizing both site-specific and regional sources. This information was compiled from existing data as well as new sources, and a preliminary characterization of the site was developed after review.

During the preliminary site assessment, a number of sources were contacted for information, including but not limited to:

- o NYSDEC Region 9 Headquarters Martin Doster, Dave Locey, Solid and Hazardous Waste Division, May 26 June 22, 1990, (716) 847-4590.
 - Site inspection reports, permit information, and general files.
- o NYS Department of Health, Allegany District Albert Vossler, P.E., May 29, 1990, (716) 268-9254.
 - Site inspection report, use of surface water, and sources of potable water.
- o Allegany Soil and Water Conservation Department, Fred Sinclair, District Field Manager, May 29, 1990, (716) 268-7831.

- Aerial photographs, soil and groundwater data, and water use in the area.
- o Patton's Busy Bee Disposal, LaVerne Patton, Site Owner, June 29, 1990, (607) 276-2683.
 - Site history, operation methods, current plans.
 - Visit to the NYSDEC office in Albany to Conduct a file search 6/14/90 general files.

Site Inspection

A site inspection was conducted on May 29, 1990, between 3:00 and 4:20 p.m., in order to assess the site's surface characteristics, observe evidence (if any) of hazardous substances or wastes present, photograph the site, conduct preliminary air monitoring, and confirm information obtained from the initial data search. A USEPA Site Inspection Report (EPA Form 2070-13) was completed following the site inspection. At the time of the inspection, the trench area appeared to be well capped, but the ground surface had not been vegetated. As a result of runoff from heavy rain, it was not possible to determine whether leachate was seeping from the site. Preliminary air monitoring could not be conducted due to poor weather conditions.

Participants of the site inspection included:

| NAME | TITLE | AFFILIATION |
|----------------|-------------------------|--|
| Robert Kreuzer | Geologist | URS Consultants, Inc. |
| Dave Locey | Asst. Sanitary Engineer | NYSDEC |
| Kevin Glaser | Sr. Env. Technician | NYSDEC |
| John Wulforst | Soil Scientist | Allegany County Soil Conservation Dept. |

4. SITE ASSESSMENT

4.1 Site History

The Patton's Busy Bee Disposal site is a 23.25-acre, privately owned landfill which operated between the mid-1950s and 1988 (Ref. 8). The site is currently owned by LaVerne Patton of Alfred-Almond Road, Alfred Station, New York (Ref. 1). Mr. Patton purchased the property in 1974 from Nelson Henry (Ref. 8). The section of the property under investigation is the southwestern portion (approximately 8-10 acres) permitted by the NYSDEC in 1980 to operate as a sanitary landfill (Permit Number 02S13) (Figs. 1, 2). The area of the property used as a sanitary landfill prior to 1980 is located along the north side of the access road (Fig. 2).

Between 1980 and 1986 the site received municipal, non-hazardous industrial waste and sewage sludge from wastewater treatment plants. The wastes were deposited in three unlined trenches each of which was approximately 25 feet wide by 12 feet deep by 600 feet long (Ref. 1). The waste was backfilled daily with a clayey-silt soil found at the site (Ref. 1). In 1986 the NYSDEC Division of Solid Waste approved an application to use a lined remedial trench with a leachate collection system along the southern and eastern border's of the site (Figure 4, Ref. 8) which had already been constructed. The purpose of the remedial trench was to prevent the migration of leachate from the three unlined trenches and to provide the landfill with additional volume to accept C&D waste. The trenches have been covered with a two foot thick clay cap.

The site is currently under investigation as a potential hazardous waste site by the NYSDEC Division of Hazardous Waste. SKF Industries (formerly of Hornell, New York) indicated on a right-to-know questionnaire that they disposed of 77 tons of a corrosive alkaline cleaning solution between February and August of 1981 through Patton's Disposal Service

The alkaline cleaner is classified as a hazardous waste according to 6 NYCRR Part 371, 371.3(c)1(i) since its pH was greater than or equal to 12.5 (Ref. 2). The alleged disposal of hazardous waste (1981-SKF Industries corrosive waste) may have taken place in one of the unlined trenches (Ref. 31). The highest pH level detected in the monitoring wells was 7.68 in MW-10D which is beyond the limits of the remedial trench. Elevated levels of chlorinated organic compounds detected in groundwater monitoring wells (installed at the site between 1983 - 1988) also suggest hazardous waste has been disposed of at the site. The site was closed in December of 1988 under the terms of a Consent Order. Mr. Patton wanted to continue landfill operations beyond 1988, but the NYSDEC Division of Solid Waste would not permit the site for use as C&D waste landfill due to groundwater contamination problems. The present remedial trench has been determined to be inadequate to prevent the offsite migration of Thus, further actions need to be taken to prevent the contaminants. migration of a contaminant plume.

4.2 Site Topography

Patton's Busy Bee Landfill site is located in a rural area approximately one mile northeast of Alfred Station. The facility is situated on top of a north-south trending shale ridge along the eastern border of Allegany County (Fig. 1).

The landfill trench area (approximately 8-10 acres) has been mounded with fill and cap material to form a dome approximately 30-40 feet above the surrounding site area (Fig. 2) (Ref. Site Visit). Elevations surrounding the site drop off steeply. Surface runoff from the site drains in a radial pattern and eventually discharges into Canacadea Creek to the west or Crosby Creek to the east. Both streams ultimately discharge into the Canisteo River (Ref. 5). A small pond is located in a borrow area east of the mounded trench area (Fig. 2). The borrow was created by excavating soils for cap and liner material.

The population in the area uses predominantly groundwater as a potable source of water (Ref. 6). The closest well is located approximately 400 - 600 feet to the east of the trench area (Ref. 27)(Fig. 2). The majority of the population is served by municipal wells located approximately 4,000 feet downgradient (west-southwest) of the site (Ref. 6).

4.3 Site Hydrology

The bedrock underlying the site consists of the Upper Devonian Age Canisteo Shale Member of the Perrysburg Formation. The formation consists of shales interbedded with fine sandstone layers which dip approximately 2° to the southwest (Ref. 9). The overburden encountered consists of a silt or clayey-silt matrix with shale fragments (Ref. 9) and ranges in thickness between 5-10 feet.

Surface Water Hydrology

Surface water drains radially from the site and ultimately discharges into Canacadea Creek to the west or Crosby Creek to the east. Both streams eventually discharge into the Canisteo River (Ref. 5). Numerous seeps and springs are reportedly located along the sides of the ridge on which the site is located (Ref. 9). Outcrops of sandstone along the sides of the ridge are the probable source of these reported seeps and springs (Ref. 1). Discharge from the seeps and springs also drain into Canacadea Creek to the west or Crosby Creek to the east. At the time of the site inspection, the landfill area was not vegetated. As a result, an excessive amount of runoff produced numerous rills in the surrounding soils (Ref. Site Visit).

Groundwater Hydrology

Several water bearing zones have been identified in the upper portion of the bedrock. The water bearing zones are located in three separate sandstone units, and are thought to exist under perched conditions (Ref. 5). The sandstone units range between 1-8 feet in thickness with thinner units to the south (Ref. 9). Groundwater within these water bearing zones generally flows in a southwest direction (Ref. 9). This southwest flow direction is probably the result of a 2°-3° dip to the southwest of the sandstone layers along with a topographic influence (contours drop off steeply to the west). The upper two sandstone units may have a radial flow component based on the site's location (on top of a topographic high).

Eleven PVC ground water monitoring wells are present at the site. Of the eleven wells, nine are used to monitor the three water bearing zones. The nine wells include: four shallow wells (W-4S, W-8, W-9, W-10S), three intermediate wells (B-1, W4-D, W10-D), and two deep wells (W-7, W-11). The elevation of wells W-6 and W-5 is not known since they are not currently used for groundwater monitoring. The approximate elevations of the three water bearing zones are located between 2210'-2186' (shallow), 2178'-2160' (intermediate), and 2166'-2154' deep (Figure 5) (Ref. 9). Groundwater level data is presented in Table 2. Figures 4 and 4A were reproduced from potentiometric maps made by JEB in April of 1989 for the shallow and intermediate wells.

Hydraulic conductivities have been calculated to be on the order of 10^{-4} or less for test pits dug 12 feet into the overburden and weathered shale (Ref. 3). Based on the available hydrologic information, an average seepage velocity of 13.45 ft./year (Ref. 10) was calculated for the upper aquifer by URS Consultants. According to calculations, the time needed for contaminants to reach well W-10S (approximately 100 ft. from the

TABLE 2

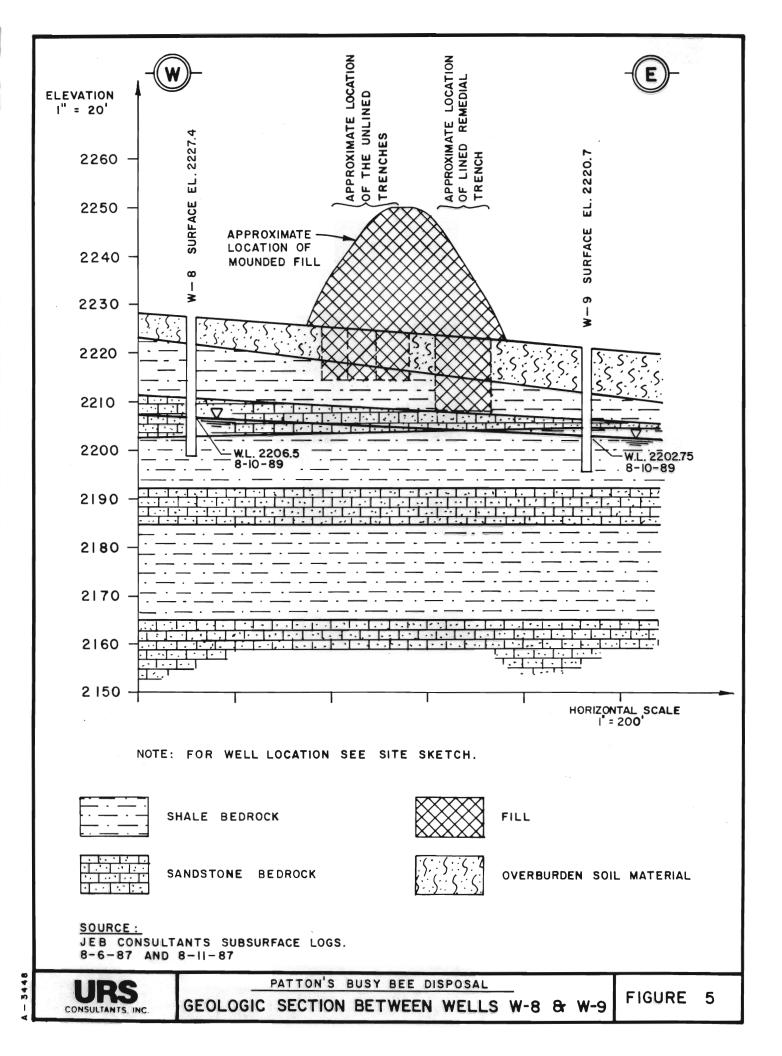
PATTON'S BUSY BEE LANDFILL MONITORING WELL DATA

| WELL | TOPOF | GROUND | SCREEN | | | | GR | GROUNDWATER | 85 | | | | |
|---------------------|---|-------------------|---------------|---------|----------|----------|---------|-------------|-------------------|----------|-------------------|--|---------|
| NUMBER | CASING | SURFACE | INTERVAL | | | | | LEVEL | | | | | • |
| | ELEVATION | ELEVATION | ELEVATION | | | | | | | | | | |
| | (feet) | (feet) | (feet) | 8/22/87 | 10/14/87 | 1/19/88 | 2/22/88 | 4/22/88 | 8/02/88 | 11/30/88 | 1/18/89 | 4/27/89 | 8/10/89 |
| Shallow Wells: | | | | | | the same | | | | | | | |
| W-45 | 2217.6 | 2215.5 | 2199.7-2194.7 | 2195.6 | 2198.7 | 2196.7 | 2196.4 | 2197.7 | 2197.6 | 2198.32 | 2196.88 | 2197.25 | 2185.85 |
| W-8 | 2230 | 2227.4 | 2203.2-2198.2 | 2209.2 | 2211.0 | 2207.2 | 2207.8 | 2207.5 | 2207.1 | 2208.02 | 2205.45 | 2203.53 | 2208.50 |
| 6-M | 2223.9 | 2220.7 | 2202.6-2197.6 | 2201.3 | 2203.9 | 2201.9 | 2201.7 | 2202.3 | 2202.4 | 2202.78 | 2202.35 | 2202.40 | 2202.75 |
| W-10S | 2209.6 | 2206.6 | 2192.5-2187.5 | 2188.4 | 2188.2 | Dry | Dry | Dry | 2187.7 | 2187.7 | 2187.86 | 2187.63 | 2188.28 |
| | | | | | - | | | | | | | | |
| Intermediate Wells: | .8 | | | | | 1 2 | | | | | The second second | The state of the s | |
| B-1 | 2218.7 | | | | | 2172.4 | 2172.4 | 2173.4 | 2170.8 | 2169.5 | 2169.66 | 2169.78 | 2168.54 |
| W-4D | 2217.1 | 2215.1 | | | | 2159.1 | 2158.1 | 2158.9 | 2158.2 | 2158.2 | 2157.89 | 2159.06 | 2158.2 |
| W-10D | 2209.6 | 2207.0 | | | | 2165.7 | 2165.0 | 2165.3 | 2165.3 | 2164.9 | 2164.75 | 2165.21 | 2165.38 |
| | | | | | | | 100 C | | The Second Second | | | | |
| Deep Wells: | A CONTRACT OF THE PARTY OF THE | The second second | | | | | 200 | | | | | | |
| V-7 | 2177.2 | 2175.3 | | | | 2169.0 | 2169.2 | 2170.0 | 2168.6 | 2168.36 | 2169.39 | 2168.39 | 2168.15 |
| W-11 | 2180.7 | | | | | | | 2160.7 | 2159.7 | 2156.18 | 2155.64 | 2153.91 | 2157.54 |
| | | | | | | | | | | | | | |

trenches) would be approximately 6-7 years (Ref. 10). This suggests the contaminants detected may have seeped from the trench area.

Groundwater contamination is of major concern because wells are the primary source of potable water within a three mile radius of the site. The closest well (130 feet deep) is located 400-600 feet to the east of the trenches along Clark Road. The location of this well is southeast of Well W-7 in a possible direction of localized flow for that area as shown on Figure 5. In 1988 leachate seeps were reported to occur along the embankment near the pond (Ref. 27). This suggests radial flow may be taking place in the upper water zones. The private well (400-600 feet east of the trenches) was analyzed in 1988 for contaminants detected in the groundwater monitoring wells at the site. Results did not indicate contamination problems at that time (Ref 11). Additionally, 35-40 private wells are located along Crosby Creek road approximately 3 miles northeast of the site.

The municipal wells for the Village of Alfred are located approximately 4,000 feet west of the site in the general direction of groundwater flow. Based on available information: contaminant concentrations in the monitoring wells, the hydraulic gradient between the site and the municipal wells, and assuming higher vertical and horizontal hydraulic conductivities than what probably exist, a rough calculation was made by URS Consultants using a dispersion equation to assess the threat of contamination to the municipal wells (Ref. 12). The results indicate that it is unlikely that the contaminant plume could travel the 400' vertical and 4,000' horizontal distance needed to contaminate the municipal wells in a ten-year time span. The results indicate the plume is migrating at a very slow rate and currently does not pose an immediate threat of groundwater contamination to the municipal wells. calculations were based on limited data and should not be accepted as an adequate assessment of the groundwater problem. Not enough is known about the hydrologic conditions between the site and the village wells.



4.4 Site Contamination

Groundwater contaminants have been detected in several of the site's groundwater monitoring wells (Ref. 4). Wells showing the highest levels of contamination are the shallow wells located along the western and southwestern borders of the site. Shallow wells in which elevated levels of contaminants were detected, include W-4S and W-10S. located 100' downgradient of the orginal trenches and beyond the limits of the remedial trench showed the highest levels of contamination with concentrations of up to 110,000 ppb (trichloroethylene), (Table 1.6, Ref. Results of groundwater analysis also showed the presence of trans-1,2-dichloroethylene, toluene and vinyl chloride. The deeper wells are also showing signs of contamination. Well W-4D, located 240 feet southwest of the remedial trench, contained the highest levels of contamination for the deeper wells at 160 ppb (trans-1,2-dichloroethylene) (Table 1.2, Ref. 4). Monitoring well and leachate analytical data is presented in Tables 1.1 through 1.9.

In 1988 JEB Consultants compiled a key parameter list from previous leachate analysis for future monitoring, sampling and analysis. The NYSDEC approved analytical program includes: pH, specific conductance (field), EPA method 624-purgeable organics, total organic carbon, total manganese, and soluble manganese (Table 1.9).

Groundwater contamination is of major concern at the site since groundwater is the primary source of potable water for the area within a three mile radius (Ref. 6). Present analytical data indicates that a contaminant plume is leaving the site in the southwesterly direction. Although no documentation exists of halogenated solvents being disposed of at the site, elevated concentrations of trichloroethylene and trans-1,2-dichloroethylene detected in the groundwater indicate that significant quantities of the compounds were disposed of at the facility.

Surface water contamination is also of concern at the site. In 1988 leachate seeps were observed along the embankment near the pond area (Ref. 27). The discharge of leachate from this area or along the embankment at the western end of the site has the potential to impact the water quality of Crosby and Canacadea Creeks. Crosby and Canacadea Creeks are class D streams used for recreational fishing (Ref. 15).

ASSESSMENT OF DATA ACCURACY AND RECOMMENDATIONS

5.1 Hazardous Waste Deposition

SKF Industries of Hornell acknowledges disposing of 77 tons of a corrosive liquid by Patton's Disposal Service. The liquid is listed as an alkaline cleaning solution with a pH of 12.5 and was classified as hazardous according to 6NYCRR 371,371.3(C) 1(i) since its pH was \geq 12.5. SKF could not locate records indicating whether the waste was characterized by a lab prior to disposal (Ref. 2).

Although documentation of the deposition of organic solvents in the unlined trenches does not exist, organic contaminant levels detected in the monitoring wells indicate a significant amount of solvents have been disposed of at the site. The contaminants detected are presented in Tables 1.1 through 1.9.

In order to determine the nature of those contaminants detected, a comparison was made between detected compounds and those listed in the Minnesota Pollution Control Agency study "Volatile Organic Compounds as Indicators of Municipal Solid Waste Contamination" (Sabel and Clark, 1983; Ref. 32). The concentrations of trans-1,2-dichloroethene, trichloroethene, and vinyl chloride detected in wells at the site exceeded those reported for groundwater contaminated with municipal landfill leachate. For example, the typical range of trichloroethene found in groundwater containing municipal landfill leachate is 0.02 - 144.0 ug/l (Ref. 32). The range found at the site was 4.0 - 110,000 ug/l. It should be noted that the 110,000 ug/l concentration found in well 10s on October 14, 1987 was an exceptionally high value, whereas the average concentration for this well was 41, 860 ug/l. The average is still approximately 300 times greater than the highest value listed in the Sable and Clark study for trichloroethene (144 ug/l). In addition, trans-1,2- dichloroethylene and vinyl chloride exceeded the typical range listed for groundwater near

municipal landfills. These results indicates that more than just municipal waste was deposited within the landfill. A comparison of trichloroethylene, trans-1,2-dichloroethene, and vinyl chloride concentrations detected versus those listed in the study is presented in Table 3.

Prior to 1986 wastes at the site were placed in unlined trenches 12 feet deep by 25 feet wide by 600 feet long (Ref. 1). Between 1986 and 1988 wastes were placed in a lined remedial trench 20 feet deep which was constructed along the southern and eastern borders of the original trenches (Ref. 1, 8). It is difficult to say whether the source of the organic contamination is from the lined trench area or unlined area. The locations of the unlined and remedial trenches are shown on Figures 4 and 4A.

5.2 Significant Threat Determination

Groundwater contamination is of major concern because the population within a three mile radius of the site relies solely on wells for a potable source of water. Approximately 5,000-5,500 residents downgradient (southwest) would be affected by groundwater contamination. current data, a rough calculation was made to determine whether the contaminant plume, migrating in a southwest direction, could reach the municiple wells. Current information suggests that the plume is traveling at a very slow rate of approximately 15 ft./year. These calculations are based on several assumptions (i.e. hydraulic conductivities, hydraulic connection) thus further investigation of the area's hydrologic conditions southwest of the site needs to be performed. Additionally, the threat of groundwater contamination may exists for residents of Patton's Rest Home along Clark Road east of the landfill. Leachate seeps along the embankment near the pond area indicate that there is localized flow to the east. This localized flow is probably the result of the steep embankment

TABLE 3

COMPARISON OF GROUNDWATER FROM MUNICIPAL LANDFILLS TO GROUNDWATER FOUND AT THE SITE

| GROUNDWATER DATA FROM | FROM SABLE AND CLARK REPORT | PORT | | ANALYTICAL DATA FROM PATTON'S DISPOSAL | M PATTON'S |
|--------------------------------|--|------|-----------------|---|--------------|
| Compound | <pre># of sites Detected Total sites</pre> | % | Range (ug/1) | Wells Detected in | Range (ug/l) |
| Trans-1,2- Dichloroethylene | $\frac{3}{13}$ | 23 | 23 0.6-98.0 | 4S, 4D, W-9, 10S, 10D, W-11 | 3.5-59,000 |
| Trichloroethylene | 9 13 | 69 | 0.2-144.0 | 69 0.2-144.0 4S, 4D, 10S, W-11 4.0-110,000. | 4.0-110,000. |
| Vinyl Chloride | <u>3</u> 13 | 23 | ND to Pres | 4D, 10S | 7.0-500. |

DATA FROM: Sable and Clark, 1983. "Volatile Organic Compounds as Indicators of Municipal Solid Waste Leachate Contamination" and JEB Consultants Groundwater Monitoring Results for Patton's Busy Bee Disposal Site between November 1986 and January 1990.

in this area. The flow is most likely isolated to the upper two water zones, but the threat of vertical migration to deeper strata is possible. Vertical migration could take place in the fractures of the underlying beds (Ref. boring logs).

Surface water contamination is also of major concern because leachate outbreaks have been reported along the sides of the ridge. According to Sharon Patton, a resident who lives at Patton's Rest Home, leachate seeps were observed in 1988 along the embankment by the pond area in 1988 (Ref. 27). Thus, leachate has the potential to impact the water quality of nearby Crosby Creek and the pond which are located in the direction of surface water drainage.

5.3 Recommendations

Based on the current hydrologic and analytical data, URS Consultants recommends reclassifying Patton's Busy Bee Disposal Site from a Class 2A to a Class 2. A Remedial Investigation/Feasibility Study should be conducted at this site. Due to the current data deficiencies URS Consultants recommends the following additional work.

Specific recommendations include:

- o Additional analysis should be conducted on groundwater samples from the sites monitoring wells as well as a sample taken from the private well east of the site. Analyses should incorporate the entire NYSDEC ASP list plus indicator parameters.
- A soil vapor survey should be performed at the site to try to map the extent and source of the contaminant plume.

- An additional monitoring well should be installed along the north side of the access road. According to geologic data (strike and dip of the water bearing zones) a 20-30 foot well would intercept the deep water bearing zone at this location. This well would be useful in determining the direction of groundwater flow in the deep water bearing zone. Presently, only wells W-7 and W-11 are installed in this zone. It would also serve as a more accurate background well. (The proposed location is presented on Figure 2.) Slug tests need to be conducted of the shallow, intermediate, and deep wells to more accurately determine hydraulic conductivities of the material present in the area.
- Surface water samples should be collected from the pond located in the northeast corner of the site. Additionally, the embankments near the pond area and along the western border should be checked for leachate outbreaks, and if found, analyzed for the entire NYSDEC ASP List and indicator parameters.
- o Soil samples should also be taken near the leachate sample collection locations. (The proposed locations are located on Figure 2.)

APPENDIX A

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1. EHP) 2. File: 025/3 May 24, 1989 Mr. John Banaszak, P.E. JEB Consultants Suite 515 Brisbane Building Buffalo, New York 14203 Dear Mr. Banaszak: The Region 9 and Central Offices have reviewed your submission of March 20, 1989, concerning the groundwater monitoring program at Patton's Busy Bee Landfill. From the data presented, the Department concurs with your conclusion that several contaminants, particularly trichloroethylene and trans-1,2-dichloroethylene, are migrating in an apparent southwesterly direction from the landfill. The Department had previously recommended use of soil gas sampling to determine the extent of contamination (letter of December 28, 1987) and you indicate in your letter that you are considering the use of soil gas survey techniques to better define the plume. The following comments are provided on the submission: Although method 8240 was utilized for the analysis of both the November 1. and January data, the parameter list varied between the two dates. What is the reason for this? Chloride is extremely elevated in well 9 on the January sampling date. Is any salt or brine used on the roads in the winter? A previous report noted that the volatiles sample from the August 1988 sampling of well W-10S froze in BLT's freezer and had to be thawed, resulting in creation of a head space. A review of the data from the August sample reveals much lower levels of trichloroethylene and trans-1,2dichloroethylene than recorded in the October 1987 or January 1989 sampling rounds (during other sampling rounds the well was dry). It is likely that a significant portion of the volatiles were lost as a result of the freezing of the sample, and the Department considers the October 1987 and January 1989 data more representative of levels in this well. Contamination is apparently migrating to deeper zones in the bedrock as evidenced by low levels of trans-1,2-dichloroethene in well W-10D and higher levels (up to 220 ppb) in well W-11.

5. A review of our files indicates that we have not received any sampling data for the April 1988 quarter. Was this data forwarded to the Department?

In view of the above results, the Department requests that you develop a proposal for your planned use of soil gas survey techniques. Upon receipt and review of this document, the Department will schedule a meeting to discuss your proposal. If you have any questions, please contact the writer at 647-4595.

Yours truly,

Mary E. McIntosh

Senior Engineering Geologist

MEM: vam

cc: Mr. Peter Buechi

Mr. Robert Mitrey

Ms. Anita Grikstas

URS CONSULTANTS, INC.

REF (10)

PAGE OF SHEET NO. OF

PROJECT PATION'S BUSY BEE DISPOSAL SITE SUBJECT AVERAGE SEEPAGE VELOCITY

MADE BY BY DATE 712 190

REF. PAGE

CALCULATION OF AVERAGE SEEPAGE VELOCITY

SEEDAGE VELOCITY = Vs = K dh

dh = hydraulic gladient

K = hydraulic gradient

Ne = effective porosity

USING DATA FROM JEB HYDROGEOLOGIC REPORT 8/87

WELL, W-105 WATER LEVEL = 2209.2' Ih = 2209.2-2188.4 = 20.8'

DISTANCE BETWEEN WE AND WIOS = dl = 400'

HYDRAULIC GRADIENT = 20.8 = .052

HYDRAULIC CONDUCTIVITY 10-4 EFFECTIVE PORCSITY = 14

(FROM: JEB REPORT) CM/SEC (Clayery SICT 13-15)

 $V_S = \frac{10^{-4} \text{ cm/sec}}{.4} \times .052 = 1.3 \times 10^{-5} \times 31536000 \text{ sec}$

= 409,968 cm/yen = 30,48 = 13,45 ft/ YEAR





TECHNICAL SERVICES, INC.

101

4626 Royal Avenue, Niagara Falls, New York 14303 • Phone (716) 285-2587

Date: August 25, 1988

4-Bromofluorobenzene

ANALYSIS FOR: JEB Consultants

BLT # 2296-11 SAMPLE # Laverne's Brother

| PARAMETER | DETECTION LIMIT ug/L | RESULT ug/L |
|----------------------------|----------------------|-------------------|
| Chloromethane | 4 | <dl< td=""></dl<> |
| Bromomethane | 4 | <dl< td=""></dl<> |
| Chloroethene | 4 | <dl< td=""></dl<> |
| Chloroethane | 4 | <dl< td=""></dl<> |
| Methylene Chloride | 4 | <dl< td=""></dl<> |
| Trichlorofluoromethane | 4 | <dl< td=""></dl<> |
| 1,1-Dichloroethylene | 4 | <dl< td=""></dl<> |
| Acrolein | 200 | <dl< td=""></dl<> |
| Acrylonitrile | 200 | <dl< td=""></dl<> |
| 1,1-Dichloroethane | 4 | ⟨DL |
| Trans-1,2-Dichloroethylene | 4 | <dl< td=""></dl<> |
| Chloroform | 4 | ⟨DL |
| 1,2-Dicloroethane | 4 | <dl< td=""></dl<> |
| 1,1,1-Trichloroethane | 4 | <dl< td=""></dl<> |
| Carbon Tetrachloride | 4 | <dl< td=""></dl<> |
| Bromodichloromethane | 4 | <dl< td=""></dl<> |
| 1,2-Dichloropropane | 4 | <dl< td=""></dl<> |
| Trans-1,3-Dichloropropene | 4 | <dl< td=""></dl<> |
| Trichloroethylene | 4 | <dl< td=""></dl<> |
| Benzene | 4 | <dl< td=""></dl<> |
| Dibromochloromethane | 4 | <dl< td=""></dl<> |
| Cis-1,3-Dichloropropene | 4 | <dl< td=""></dl<> |
| 1,1,2-Trichloroethane | 4 | <dl< td=""></dl<> |
| 2-Chlorovinyl Ether | 4 | <dl< td=""></dl<> |
| Bromoform | 4 | <dl< td=""></dl<> |
| Tetrachloroethylene | 4 | <dl< td=""></dl<> |
| 1,1,2,2-Tetrachloroethane | 4 | <dl< td=""></dl<> |
| Toluene | 4 | <dl< td=""></dl<> |
| Chlorobenzene | 4 | <dl< td=""></dl<> |
| Ethylbenzene | 4 | <dl< td=""></dl<> |
| 1,3-Dichlorobenzene | 4 | <dl< td=""></dl<> |
| 1,4-Dichlorobenzene | 4 | <dl< td=""></dl<> |
| 1,2-Dichlorobenzene | 4 | <dl< td=""></dl<> |
| Total Xylene | 12 | <dl< td=""></dl<> |
| SURROGATE RECOVERIES | %RECOVERY | |
| 1,2-Dichloroethane D4 | 102 | |
| Toluene D8 | 92 | |

| The State of the S | NO. | |
|--|----------------------|---|
| Nagital Control of the Control of th | | CHKD. BY DATE |
| | 4000 FT | PAG |
| | | |
| | | LYXXXX A |
| | | |
| | | $K = 1 \times 10^{-3} \text{ ch/s}$ $D_{V} = 1 \times 10^{-8} \text{ m/s}$ $i = 0.0016$ |
| | | |
| 4 | | KH= 1×10-2 cn/4 |
| | | i = 0.1 |
| | 1,5 × 10 -8 × 100 cm | m _y = |
| | | m = .0000000 m/sec |
| | | |
| | | 5.0 × 10 8 × 31536000 |
| | VERT | 18,29 ft/year |

URS CONSULTANTS, INC.

PROJECT

PAGE OF Z
SHEET NO. 2 OF Z
JOB NO.
MADE BY DATE
CHKD. BY DATE

COLL AT DEPTH OF 20 M (60 FT) AFTER 10 YRS c= 9.2 ng/L (well 10d) CONC AT TITE SOVECE (0 = 11,000 mg/L (well 10 s) $\frac{2}{co} = \left\{ erfc \frac{x - \frac{q}{n}t}{2 \left[0_n t \right] n} + exp \left(\frac{qx}{n} \right) erfc \frac{x + \frac{q}{n}t}{2 \left[0_n t \right] n} \right\}$ $2\frac{9.2}{11,000} = erf(\frac{20-9.7.884-10^8}{3.55} + exp(q*5*10^3)) erf(\frac{20+97.884+10^8}{3.55})$ 0.0016 = f(q) f(q) = 0.0016 for $q = 1.5 \times 10^{-8} \frac{14}{5}$ 9 = ki -> i= = 1.5 × 10- = 2 0.0016

PACE 768

9 (- VERTICAL

URS CONSULTANTS, INC.

SHEET NO. 3

MADE BY DATE CHKD. BY DATE

GOING 400 FT (170 M) DEEP AFTER

10 725

$$C(x,t) = \frac{C_0}{2} \left(erfc \frac{120 - 1.5 \times 10^{-8} \times 7.884 \times 10^8}{3.55} + erp \left(\frac{1.5 \times 10^{-6} \times 120}{0.4 \times 1 \times 10^{-8}} \right) \right)$$

ette 120 + 1.5 40 - 8 + 7.884 - 108)

$$C(+,+) = \frac{C_0}{0.5} \left(\text{enfc } 30.5 + e^{450} \text{ enfc } 37.1 \right)$$

((1,t) = 0.0

IT IS VERY UNLIKELY THAT THE CONTAMINANT DEACHED A DEPTH OR 400 AT DUKING THE 10 YAS THE CANDFILL'S EXISTATCE

- FOR A 100 YRS PERIOD (VERTICAL MIGRATION GOUFT)

$$C1+_{i}t1 = \frac{C_{0}}{2} \left[\text{extc.} \frac{120-1.5+10^{-8}\times 3.1536+10^{9}}{0.4} + \frac{2[1+_{10}-8\times 3.1536\times 10^{9}]^{\frac{1}{2}}}{2[1+_{10}-8\times 3.1536\times 10^{9}]^{\frac{1}{2}}} \right]$$

URS CONSULTANTS, INC. PAGE OF 12 SHEET NO. 4 OF JOB NO. SUBJECT MADE BY DATE CHKD. BY DATE

| as he was not a second a second and the contract of the contra | tion 4000 ET (| |
|--|---|--|
| (1+,+) = Co forte 1200 | $0 - \frac{1 - 10^{-4} - 0.1}{0.4} \times 3,1536$ $0 - \frac{1 - 10^{-3} + 3,1536 - 10^{9}}{0.4}$ | -10°3 |
| + exp (1-10-4+0.1 1 | 1700 -10-7) + enfe | + 10-4-21 + 0.4 +3.1536 + +10-7 + 3.1536 +1097 |
| $C(n+) = \frac{c_0}{2} \left\{ e^{it} \right\}$ | | |
| | ≈ U.5 × 4,840 = | |

| PROGRAM: | | · | OWN: A | fred |
|--|---------------|--------------|----------|------------|
| CLIENT: Paton's Busy & | Bee Diessal. | Service | | |
| ADDRESS: Paton's Busy & ADDRESS: albred almond | I Rd., alfre | d Station | M.Y. 1: | 4803 |
| PHONE: | , | | V | |
| NOTES: | | Tel: | 716) 847 | - 4585 |
| FV-1 6/2/87 acc | ompanied Ken | in Slay | er, DE | C to |
| Patton's landfil | l'estes. | | | |
| noted on the | | 4p (Att. =1) | the a | pproximate |
| Rocation of both | | | | |
| is covered and a | ppears as | a large f | will. | The |
| active site has be | een fully co | vered on | the W | est side |
| but not reseaded to | grass, only | bore soil. | a | vew_ |
| trench has been , | erepared on | the Easi | side | , to |
| receive trash(| but not go | arbage). | This | trench |
| has leachate co | laction pe | per at lo | w poi | nto and |
| is lined with a | 2 ft. thic | k loger o | f cla | y which |
| has been to to | 7 ant so | and ilit | | li a train |
| Mr. Patton expects a to begin using the | / | albert | m. Vo | esler |
| Mr. Patton expects a | Part 360 pers | nit soon i | to allow | v hina |
| to begin using the | e trench. | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

TC - Telephone Call

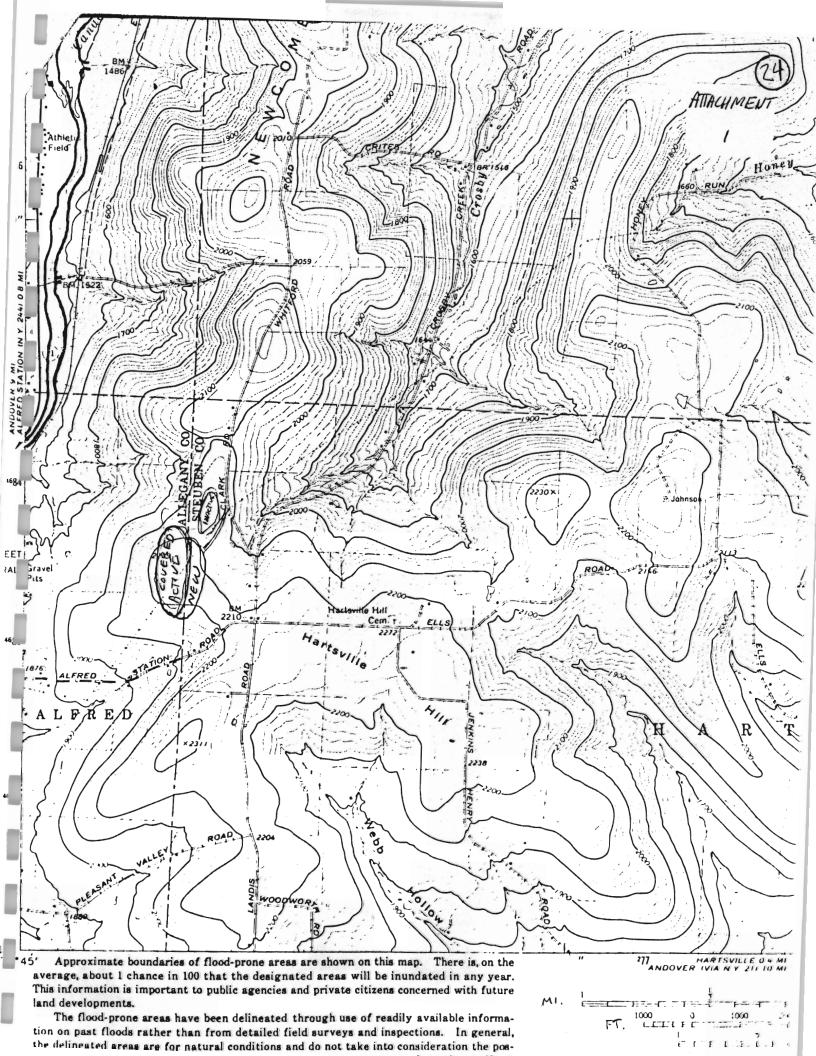
FV-1 - Field Visit Initial Visit

OV - Office Visit

FV-2 - Field Visit Re-Visit

See Diagram on Reverse

OC - Office Conference





New York State Department of Environmental Conservation

MEMORANDUM

TO: File

FROM:

SUBJECT: Patton's Busy Bee Disposal Landfill, #02S13

DATE:

May 13, 1988

Attended Town of Alfred Board Meeting on 5/11/88 to discuss Patton's proposal to construct another cell or landfill at his facility.

Overall, the writer sensed that the large crowd was against the new landfill. Most concerns expressed related to the auto shredder fluff. Many expressed a concern about the great number of trucks bringing the fluff to the landfill. expressed concerns about the noise and safety hazards with the truck traffic.

Cannot understand why DEC - Avon closed the Steuben County part of Patton's Landfill while DEC - Buffalo approved the continued operation.

He also indicated he now could see the top of the landfill.

Stream below the landfill is a protected trout stream.

Buffalo slag could possibly be sending contaminated material to wherever.

Operational violations of the site.

Bonding insufficient to protect the residents in the event of groundwater contamination.

Can hear operations from house. Is difficult to determine where the groundwater comes from. Indicated that he was told that his water could possibly come from Kansas.

DEC indicated they would close the landfill immediately due to the oil and grease in the fluff (?). He did not say who made this statement.

Citizen indicated that the Board Members are responsible for the landfill in the event that Patton walks away.

Citizen wonders if the material is ignitable, fire hazard.

told citizen that hazardous waste strike force was able to dump drums of hazardous waste in the landfill. (1986 - Operation Sting).

to send DEC copy of all his concerns.



Mr. Frank Ricotta, Division of Hazardous Waste Remediation, Albany Mr. Peter Buechi, Region 9 ///
Patton's Busy Bee Disposal Site
July 7, 1988

Attached find a recommendation to list Patton's Busy Bee Disposal site in Allegany County as an inactive hazardous waste disposal site. This recommendation is based on the RTK information provided by SKF of Hornell.

The Busy Bee Disposal site is an active Part 360 facility receiving construction and demolition waste and certain other industrial solid waste. The site is operating under the terms of a Consent Order requiring closure by December, 1988. In the past, prior to December 1986, the site received municipal solid waste. The area currently being operated has a soil liner and leachate collection system, whereas the older areas did not have a complete leachate collection system. Disposal of the allegedly hazardous waste would have taken place in the older area. Groundwater monitoring has revealed the presence of volatile organics, particularly in one well. Further investigation of this contamination has been requested by the Municipal Waste Program.

Please call if you have questions regarding this matter.

vam

cc: Mr. Robert Mitrey
Mr. John Tygert

| MILE RADIUS 87 x 3,8 = 331 PEOPLE

2 MILE RADIUS 235 x 3,8 = 893 PEOPLE + 331 = 1,224

3 MILE RADIUS 408 x 3,8 = 1,550 PEOPLE+ 1,224 = 2,774

Source FOR HOUSE COUNT USGS TOPOGRAPHIC QUAD SHEETS

THE APPROXIMATE

TOTAL POPULATION SERVED BY GROUNDWATER WITHIN A

2,774 + 50% OF THE STUDENTS
AND STAFF OF ALFRED
COLLEGE AND ALFRED UNIVERSITY

STUDENTS + STAFF ALFRED COLLEGE \$ 3750 Source: College Information 607-587-4111

STUDENTS AND STAFF OF ALFRED UNIVERSITY 1683 Source: University Information 607-871-2111

TOTAL OF 5433
BOTH SCHOOLS

ASSUMING A MAJOR PERCENTAGE OF THE STUDENTS AND
STREE ARE INCLUDED IN THE POPULATION REPRESENTED
BY THE HOUSE COUNT, 50% of STUDENTS AND STREE
WERE USED TO DETERMINE THE HOTAL POPULATIONS
WITHIN 3 MILES OF THE SITE SERVED BY GROUND WATER.
TOTAL POPULATION SERVED BY GROUNDWATER WITHIN A

3 MILE RADIUS OF THE SITE = 2,774 - 2716 = 5490

APPENDIX B

Site Inspection Report USEPA Form 2070-13



Site Inspection Report

€EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT RT 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 902014

| VEPA | PART 1 - SI | TE LOCATION AN | | | NY | 902014 |
|--|---|--|----------------|-----------------------|------------------------------|-------------------------------------|
| II. SITE NAME AND LO | | | | | | |
| 01 SITE NAME (Legal, common. | | | 02 STREE | T, ROUTE NO., OR S | SPECIFIC LOCATION IDENTIFIER | |
| Patton's Bus | sy Bee Disposal | | Cl | ark Road | | |
| Alfred Stati | ion | | 04 STATE NY | 14803 | Allegany | O7COUNTY 08 CONG CODE DIST |
| 09 COORDINATES LATITUDE 42 16 21" | LONGITUDE 77 44 20" | 10 TYPE OF OWNERSH A. PRIVATE F. OTHER | O B. FE | | . C. STATE D. COUNT | |
| III. INSPECTION INFOR | | | | | | |
| 01 DATE OF INSPECTION 5 , 29, 90 MONTH DAY YEAR | 02 SITE STATUS ACTIVE INACTIVE ISPECTION (Check at that apply) | | | 1988 IR ENDING YEA | UNKNOW | N |
| A STATE OF THE STA | | | · · · | | MINIODAL 00457740707 | |
| □ A. EPA □ B. EPA □ E. STATE Ø F. STAT | TE CONTRACTOR URS CO | onsultants | G. O1 | | MUNICIPAL CONTRACTOR _ | (Name of firm) |
| 05 CHIEF INSPECTOR | | (Name of firm) 06 TITLE | | | (Specify) 07 ORGANIZATION | OS TELEPHONE NO. |
| Robert Kreuze | er | Geol | ogist | | URS | (716 883-552 |
| 09 OTHER INSPECTORS | | 10 TITLE | | | 11 ORGANIZATION | 12 TELEPHONE NO. |
| Dave Locey | | Assistant | Sanit | ary Engine | er NYSDEC | 0 16)847-4585 |
| Kevin Glaser | | Sr. Env. | Tech. | | NYSDEC | 716,847-4585 |
| John Wolfors | t | Soil Sci | entis. | t | Allegany Ct Soil Cons. | y. V 16) 268−7831 |
| | | | | | | () |
| | | | | | | () |
| 13 SITE REPRESENTATIVES | | 14 TITLE | | SADORESS | and Dond | 16 TELEPHONE NO |
| LaVern Patto | n | Owner | A A | lfred Almo | tion | 607) 276-2683 |
| | | | | · | | () |
| | | | | | | () ′ |
| | | | | | | () |
| | | | | | | () |
| | | | | | | () |
| | | | | | | |
| 17 ACCESS GAINED BY (Chock end) DEPTH PERMISSION WARRANT | 3:00-4:20 | 19 WEATHER CONC | | | · | |
| IV. INFORMATION AV | AILABLE FROM | | | | | |
| Robert Kreu | zer | URS Co | | ants | | 716 ,883-5525 |
| 04 PERSON RESPONSIBLE | FOR SITE INSPECTION FORM | 05 AGENCY | 06 ORG | ANIZATION | 07 TELEPHONE NO. | 08 DATE |
| Robert Kreu | zer | URS | | | (716) 883-552 | 5 , 29, 90 |
| EPA FORM 2070-13 (7-81) | | | | | | <u> </u> |

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|---|-----|---|
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| | 100 | ı |
| | | |

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 - WASTE INFORMATION

| | IFICATION |
|----------------|-----------|
| O1 STATE NY | 902014 |

| SUBSTANCE NAME CIDS SUBSTANCE NAME LUDGE HLY WASTE OLVENTS ESTICIDES THER ORGANIC CHEMICALS IORGANIC CHEMICALS IORGANIC CHEMICALS EAVY METALS BSTANCES (See Appendix for most frequency) O2 SUBSTANCE NAME Chloroethylene | Unknown 77 Tons | 03 WASTE CHARACTI A. TOXIC A. B. CORRO C. RADIOA D. PERSIS | SIVE F. INFINCTIVE G. F.LASINETT H. IGN | LUBLE I. HIGHLY ECTIOUS J. EXPLOS | SIVE IVE PATIBLE |
|--|---|---|---|---|--|
| THER ORGANIC CHEMICALS IORGANIC | Unknown 77 Tons | A. TOXIC XI 8. CORRO C. RADIOA D. PERSIS | SIVE F. INFINCTIVE G. F.LASINETT H. IGN | LUBLE I. HIGHLY ECTIOUS J. EXPLOS AMMABLE K. REACTI ITABLE L. INCOM | SIVE IVE PATIBLE |
| SUBSTANCE NAME LUDGE HILY WASTE OLVENTS ESTICIDES THER ORGANIC CHEMICALS HORGANIC CHEMICALS CIDS ASES EAVY METALS BSTANCES (See Appendix for most frequency of the control | Unknown 77 Tons | 02 UNIT OF MEASURE | | ith pH of 12. | |
| LUDGE HLY WASTE OLVENTS ESTICIDES THER ORGANIC CHEMICALS IORGANIC CHEMICALS CIDS ASES EAVY METALS BSTANCES (See Appendix for most frequency of the property of | Unknown 77 Tons | 02 UNIT OF MEASURE | | ith pH of 12. | |
| LUDGE HLY WASTE OLVENTS ESTICIDES THER ORGANIC CHEMICALS IORGANIC CHEMICALS CIDS ASES EAVY METALS BSTANCES (See Appendix for most frequency of the property of | Unknown 77 Tons | | | ith pH of 12. | |
| COLVENTS ESTICIDES THER ORGANIC CHEMICALS IORGANIC CHEMICALS CIDS ASES EAVY METALS BSTANCES (See Appendix for most frequency of the control o | 77 Tons | | Cleaner w | ith pH of 12. | |
| ESTICIDES THER ORGANIC CHEMICALS IORGANIC CHEMICALS CIDS ASES EAVY METALS BSTANCES (See Appendix for most frequency of the company of the com | 77 Tons | | Cleaner w | ith pH of 12. | |
| ESTICIDES THER ORGANIC CHEMICALS IORGANIC CHEMICALS CIDS ASES EAVY METALS BSTANCES (See Appendix for most frequency of the company of the com | 77 Tons | | Cleaner w | ith pH of 12. | |
| THER ORGANIC CHEMICALS IORGANIC CHEMICALS CIDS ASES EAVY METALS BSTANCES (See Appendix for most frequency substance name chloroethylene | 77 Tons | | Cleaner w | ith pH of 12. | |
| IORGANIC CHEMICALS CIDS ASES EAVY METALS BSTANCES (See Appendix for most frequency substance name chloroethylene | 77 Tons | | Cleaner w | ith pH of 12. | |
| CIDS ASES EAVY METALS BSTANCES (See Appendix for most frequency of Substance NAME) chloroethylene | venify cited CAS Numbers) | | Cleaner w | ith pH of 12. | |
| EAVY METALS BSTANCES (See Appendix for most freque 02 SUBSTANCE NAME chloroethylene | venify cited CAS Numbers) | | Cleaner w | ith pH of 12. | |
| BSTANCES (See Appendix for most frequency of SUBSTANCE NAME chloroethylene | venify cited CAS Numbers) | | OZGUI.GZ | TOIL PIL | 5 |
| 02 SUBSTANCE NAME chloroethylene | | | | | <u> </u> |
| chloroethylene | 03 CAS NUMBER | | Groundwate | er | |
| | | 04 STORAGE/DISA | POSAL METHOD | 05 CONCENTRATION | OS MEASURE OF |
| | | Landfill/GW | N-Conc | 110,000 | mg/l |
| 1,2, -Dichloroethyle | erle | " | | 59,000 | 11 |
| l Chloride | | " | | 500 | " |
| rachloroethylene | | " | 2.2 | 77 | 11 |
| - Dichloroethylene | | ii ii | | 72 | 11 |
| ene | | " | | 570 | " |
| 2-Trichloroethene | | 11 | | 160 | 11 |
| 2,2-Tetrachloroeth | are | 11 | | 14 | " |
| roethene | | " | | 11 | 11 |
| cone | | " | | 120 | " |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | |] | | 1 | |
| e Appendix for CAS Numbers) | | | | | - |
| 01 FEEDSTOCK NAME | 02 CAS NUMBER | CATEGORY | 01 FEEDS | TOCK NAME | 02 CAS NUMBER |
| | | FDS | | | |
| FORMATION (Cito specific references, e | g., state files, sample analysis, | reports) | • | | |
| 22.2 | 2-Trichloroethene 2,2-Tetrachloroeth coethene one Appendix for CAS Mumbers; 01 FEEDSTOCK NAME | 2-Trichloroethene 2,2-Tetrachloroethare coethene one Appendix for CAS Mumbers; 01 FEEDSTOCK NAME 02 CAS NUMBER ORMATION (Cas specific references, e.g., state files, sample analysis, | 2.2—Trichloroethene " 2.2—Tetrachloroethare " Coethene | 2.2—Tetrachloroethare " coethene " nee " Appendix for CAS Mumbers) O1 FEEDSTOCK NAME O2 CAS NUMBER CATEGORY O1 FEEDS FDS FDS FDS FDS ORMATION (Cite specific references, e.g., state files, sample snerysis, reports) | 2-Trichloroethene " 160 2,2-Tetrachloroethare " 14 roethene " 11 roethene " 120 Appendix for CAS Mumbers) O1 FEEDSTOCK NAME 02 CAS NUMBER CATEGORY 01 FEEDSTOCK NAME FDS FDS FDS FDS FDS |

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT 3. DESCRIPTION OF HAZARDOUS CONDITIONS AND INCI

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 902014

| | AZARDOUS CONDITIONS AND INCIDENT | S NY 9 | 02014 |
|--|---|--------------|-------------|
| II. HAZARDOUS CONDITIONS AND INCIDENTS | | | |
| 01 & A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 5,490 | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | POTENTIAL | □ ALLEGED |
| Various inorganic compounds have b site. The Village of Alfred draws from the site. | 3 | | |
| 01 🗵 B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: | 02 □ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | Ø POTENTIAL | □ ALLEGED |
| Although leachate outbreaks are not impacttwo creeks in the area located | common at the site, surface approximately 1,500-2,000 | runoff coul | Lđ |
| 01 □ C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: | 02 C OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | POTENTIAL | □ ALLEGED |
| None Reported | | - | |
| 01 □ D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | POTENTIAL | ALLEGED |
| None Reported | | | |
| 01 M E. DRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: 331 Population within one mile of the si | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | POTENTIAL | □ ALLEGED |
| 01 Ø F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Acres) | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | SI POTENTIAL | □ ALLEGED . |
| Contaminated groundwater plume is mi | igrating through the overbur | den. | , |
| 01 X G. DRINKING WATER CONTAMINATION 5,490 | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | POTENTIAL | □ ALLEGED |
| Groundwater is the sole source of dr population within 3 miles. | rinking water; 5,490 is the | approximate | |
| 01 D H. WORKER EXPOSURE/NJURY 03 WORKERS POTENTIALLY AFFECTED: None Reported | 02 □ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | O POTENTIAL | □ ALLEGED |
| 01 DI. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: Non Reported | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | POTENTIAL | ALLEGED |
| | | | |

\$EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 902014

| WEPA | | AZARDOUS CONDITIONS AND INCIDENTS | NY 90 | 02014 . |
|---|---|---|-------------|-----------|
| II. HAZARDOUS CONDITIO | NS AND INCIDENTS (Continued) | | | |
| 01 J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION | | 02 OBSERVED (DATE:) | POTENTIAL | ☐ ALLEGED |
| | None Reported | | | |
| 01 G K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION | | 02 OBSERVED (DATE:) | POTENTIAL | ☐ ALLEGED |
| | None Reported | • | | |
| 01 . CONTAMINATION OF 04 NARRATIVE DESCRIPTION | | 02 GBSERVED (DATE:) | ☐ POTENTIAL | □ ALLEGED |
| , | None Known of | | | |
| 01 M. UNSTABLE CONTAIL | NMENT OF WASTES | 02 - OBSERVED (DATE:) | M POTENTIAL | ALLEGED |
| 01 M. UNSTABLE CONTAIN (Sods Runoff Standing lique 03 POPULATION POTENTIALL | LY AFFECTED: 5,490 | 04 NARRATIVE DESCRIPTION | | _ |
| 01 C N. DAMAGE TO OFFSIT 04 NARRATIVE DESCRIPTION | | 02 G OBSERVED (DATE:) | POTENTIAL | C ALLEGED |
| | None Known of | | | |
| 01 O CONTAMINATION OF 04 NARRATIVE DESCRIPTION | | 02 OBSERVED (DATE:) | POTENTIAL | ALLEGED |
| | None Known of | | | |
| 01 T. P. ILLEGAL/UNAUTHOR 04 NARRATIVE DESCRIPTION | | 02 OBSERVED (DATE:) | POTENTIAL | ALLEGED |
| | ` | | | |
| 05 DESCRIPTION OF ANY OT | THER KNOWN, POTENTIAL, OR ALLEG | SED HAZARDS | | |
| | None Known of | | | |
| | | | | |
| III. TOTAL POPULATION PO | OTENTIALLY AFFECTED:5,4 | 190 | | |
| IV. COMMENTS | | | | |
| | | 00 ft. from site serve the Vion and two colleges. | /illage of | |
| V. SOURCES OF INFORMA | ATION (Cité specific references, e.g., state ives, s. | Jampie analysis, reportsi | | |
| | Site visit, DEC file | es, Health Dept. files | | |

| 2 | POTENTIA | AL HAZAF | RDOU | S WASTE SITE | | I. IDENTIFICATION |
|--|---|---------------------------------------|--------|--|-------------|--------------------------------------|
| ⊕EPA | SITE INSPECTION | | | | | 01 STATE 02 SITE NUMBER NY 902014 |
| II. PERMIT INFORMATION | | | | 200 | | |
| 01 TYPE OF PERMIT ISSUED (Check all that apply) | 02 PERMIT NUMBER | 03 DATE IS | SSUED | 04 EXPIRATION DATE | 05 COMMENTS | |
| A. NPDES | | | | | | |
| B. UIC | | | | 3 | | |
| C. AIR | | † | | | | |
| D. RCRA | | | | | | |
| □ E. RCRA INTERIM STATUS | | | | | | |
| F. SPCC PLAN | | - | | | | |
| G. STATE (Specify) | 02S13 | 1980 | | 1988 | sanitary | landfill |
| □ H. LOCAL (Specify) | | | | 16 | | |
| ☐ I. OTHER (Specify) | | | | | | |
| ☐ J. NONE | | | | | | |
| III. SITE DESCRIPTION | | | 101 | | | |
| 01 STORAGE/DISPOSAL (Check all that apply) | 02 AMOUNT 03 UNIT (| OF MEASURE | 04 TF | REATMENT (Check at that a | (POY) | 05 OTHER |
| A. SURFACE IMPOUNDMENT | | | 1000 | INCENERATION | | A. BUILDINGS ON SITE |
| ☐ B. PILES ☐ C. DRUMS, ABOVE GROUND | | | | UNDERGROUND INJ | | A. 5012555 |
| D. TANK, ABOVE GROUND | | | | CHEMICAL/PHYSICA BIOLOGICAL | T. | Metal Storage Shed |
| ☐ E. TANK, BELOW GROUND | | | | WASTE OIL PROCES | SING | 06 AREA OF SITE |
| F. LANDFILL | | | | SOLVENT RECOVER | | 23.25 |
| ☐ G. LANDFARM ☐ H. OPEN DUMP | | | | OTHER RECYCLING | RECOVERY | (Acres) |
| □ I. OTHER | | | Un. | OTHER(Spe | ocify) | |
| (Specify) 07 COMMENTS | | · · · · · · · · · · · · · · · · · · · | | | | |
| | to-d for anni | | ~ 7 ,, | 25-40 VORKS | The no | rtion of the gite |
| | | | | | | rtion of the site |
| presently under permitted by the | | | inc | Tudes 3 uni. | ined crem | cnes which were |
| permitted by the | 3 NIODEC III TAC | 30. | | | | |
| | | | | | | |
| IV. CONTAINMENT | | | | | | |
| 01 CONTAINMENT OF WASTES (Check one) | | | - | | | |
| ☐ A. ADEQUATE, SECURE | ☐ B. MODERATE | X C. IN | IADEQI | UATE, POOR | D. INSECU | RE, UNSOUND, DANGÉROUS |
| 02 DESCRIPTION OF DRUMS, DIKING, LINERS, B | ARRIERS. ETC. | | | | | |
| The older trench | one of the land | afill w | ore | not lined. | Shallow. | and deep monitoring |
| wells are showing | | | | | | and deep monitoring |
| | 19 519110 01 5- | Julian | - | 01.00 | | |
| | | | | | | |
| V. ACCESSIBILITY | | | | | | |
| 01 WASTE EASILY ACCESSIBLE: YES | i M MO | | | | | |
| 02 COMMENTS | | of 1 | a z ah | ata outhroal | l-a did no | t appear to be |
| The site has been | | | | | | |
| | | | | e surroundin | ig it, bui | t does ha v e a gate. |
| VI. SOURCES OF INFORMATION (CAN AN | ecific references, e.g. state files, seri | nois analysis, repo | arts) | A STATE OF THE STA | | |
| Site visit, DEC | files, Health | Dept. | file | S. | | |
| i . | • | - | | | | |

| Y | |
|---|--|

POTENTIAL HAZARDOUS WASTE SITE

| I. IDENTIFICATION | | | | |
|-------------------|--------|--|--|--|
| 01 STATE NY | 902014 | | | |

| ⇔EPA | PART 5 - WATER | | PECTION REPORT APHIC, AND ENVIRONMENTAL DATA | | | |
|--|--|---------------------------------|--|-------------------------------|--------------------------------------|-----------------------------|
| II. DRINKING WATER SUPPLY | | | | | | |
| 01 TYPE OF DRINKING SUPPLY (Check as applicable) | | 02 STATUS | 20 | | | 03 DISTANCE TO SITE |
| SURFACE | WELL | ENDANGERE | ED AFFE | CTED A | MONITORED | |
| COMMUNITY A. 🗆 | 8. Œ | A. 🗆 | B. (| | c. 🗆 | A. 4.000 (ptk ft. |
| NON-COMMUNITY C. | D. 🔯 | D. 🗆 | E. (| <u> </u> | F. 🔾 | 8600 800 (RX ft. |
| III. GROUNDWATER | | | | | | |
| 01 GROUNDWATER USE IN VICINITY (Check | one) | | | | | |
| A. ONLY SOURCE FOR DRINKING | B. DRINKING (Other sources evalue) COMMERCIAL, INI (No other water source) | DUSTRIAL, IRRIGATIO | (Lin | OMMERCIAL, nited other source | INDUSTRIAL, IRRIGAT ces avesebre) | TION D. NOT USED, UNUSEABLE |
| 02 POPULATION SERVED BY GROUND WAT | TER 5,490 | - | 03 DISTANCE | E TO NEARES | T DRINKING WATER | well 400-600 (R) ft |
| 04 DEPTH TO GROUNDWATER | 05 DIRECTION OF GRO | SUNDWATER FLOW | 06 DEPTH TO | | 07 POTENTIAL YIEL OF AQUIFER | LD 08 SOLE SOURCE AQUIFER |
| | South We | est | 40-15 | The second of the | OP MUUIFER | (cod) Ñ YES □ NO |
| 09 DESCRIPTION OF WELLS (Including useage. | dooth and income minter in | and huddings | | | | _ (gpd) |
| Wells near | r the site 4 | .001-5,00011 | | | | led in fractured |
| | | | | | | er of the site is |
| Village we | ells 4,000 f | t. west of | the sit | e whic | h are inst | South West toward the |
| 10 RECHARGE AREA gravel lay | | | 11 DISCHARG | | | |
| ☐ YES COMMENTS | | | ☐ YES | COMMENT | 3 | |
| □ NO | | | | | | |
| IV. SURFACE WATER | | | | | | |
| 01 SURFACE WATER USE (Check one) | | | | | | |
| A. RESERVOIR, RECREATION DRINKING WATER SOURCE | | N, ECONOMICALLY NT RESOURCES | ′ □ C. C | OMMERCIA | L. INDUSTRIAL | ☑ D. NOT CURRENTLY USED |
| 02 AFFECTED/POTENTIALLY AFFECTED BO | DDIES OF WATER | | | | | |
| NAME: | | | | | AFFECTED | DISTANCE TO SITE |
| Crosby Creek Tributa | 3. 30 x y | | | | _ | 1 500 f.t. |
| Canacadea Creek Trib | | | | | | 2,000 |
| Canacaded Cleck III | Jucary | | | | | 2 <u>7000</u> |
| V DEMOCRAPHIC AND DRODERT | VINEODMATION | | | | | |
| V. DEMOGRAPHIC AND PROPERT 01 TOTAL POPULATION WITHIN | MPUNMATION | | | 02 | DISTANCE TO NEARE | MOITA ILIGARETS |
| | 10 (0) MI EQ OF OTE | THREE! | * | . (| DOTATOL TO THE L | STPOPOLITION |
| 221 | WO (2) MILES OF SITE | C. 54 | 3) MILES OF S 190 | ле | 60 | 0-800 (mi) ft. |
| NO OF PERSONS | NO OF PERSONS | N. N | O. OF PERSONS | u beine | | (fin) |
| 03 NUMBER OF BUILDINGS WITHIN TWO (2) | MILES OF SITE | | 04 DISTANCE | TO NEARES | T OFF-SITE BUILDING | |
| 235 | | | | | 600-800 | ft. |
| 05 POPULATION WITHIN VICINITY OF SITE (| Provide narretive description of | network of population within | | avel vilege, de | and the same stated urban an | |
| 2. 2. | | | meaning or and, org., | , form, renige, | many proposed and a | 74 |
| The site | is located in | n a rural a | area, No | rtheas | t of Alfre | ed Station. |
| | | | | | | and water wells |
| | ,000 ft. West | | | - | | |

| Y | PA |
|---|----|

POTENTIAL HAZARDOUS WASTE SITE

| I. IDENTIFICATION | | | | | |
|-------------------|----------|----------------|--|--|--|
| | 01 STATE | 02 SITE NUMBER | | | |
| | NY | 902014 | | | |

| € EPA | SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA O1 STATE O2 SITE NUMBER 902014 | | | | |
|-------------------------------------|--|--|---|--|--|
| VI. ENVIRONMENTAL INFORM | ATION | | | | |
| 01 PERMEABILITY OF UNSATURATED | | | | | |
| | | 4 - 10 ⁻⁶ cm/sec | C. 10 ⁻⁴ − 10 ⁻³ cm/sec □ D. GREATE | R THAN 10 ⁻³ cm/sec | |
| 02 PERMEABILITY OF BEDROCK (Chec | , | | | | |
| ☐ A. IMPER (Less the | MEABLE B. REL | ATIVELY IMPERMEAB | LE C. RELATIVELY PERMEABLE C | D. VERY PERMEABLE (Greater than 10 ⁻² cnv.sec) | |
| 03 DEPTH TO BEDROCK | 04 DEPTH OF CONTAM | NATED SOIL ZONE | 05 SOIL pH | | |
| <u>0-12</u> (ft) | unkn | | | | |
| 06 NET PRECIPITATION | 07 ONE YEAR 24 HOUR | RAINFALL | 08 SLOPE DIRECTION OF SITE | SLOPE TERRAIN AVERAGE SLOPE | |
| 10.9 (in) | 2.1 | (in) | up to 25 Hill East, West, S | outh 8.3 | |
| 09 FLOOD POTENTIAL None | 10 | C SITE IS ON BARRI | ER ISLAND, COASTAL HIGH HAZARD ARE | A RIVERINE EL CODWAY | |
| Hill Top SITE IS INYEAR FL | OODPLAIN | - ONE IS ON BANK | | | |
| 11 DISTANCE TO WETLANDS (5 acre min | mumj | | 12 DISTANCE TO CRITICAL HABITAT (of endange | aved apecies) | |
| ESTUARINE | OTHE | R | | (mi) | |
| A(mi) | B | (mi) | ENDANGERED SPECIES: Non | e Known | |
| 13 LAND USE IN VICINITY | | | | | |
| DISTANCE TO: | 05000 | THE ADEAS, NATIO | MANUSTATE DARVE | RICULTURAL LANDS | |
| COMMERCIAL/INDUST | | ENTIAL AREAS; NATIO FORESTS, OR WILDLIF | | | |
| A. <u>1-2</u> (m | 4) | B. <u>1-2</u> | (ml) C1 | (mi) D (mi) | |
| 14 DESCRIPTION OF SITE IN RELATION | N TO SURROUNDING TOPO | GRAPHY | | | |
| The site | is located or | n a Hill Top | Drainage from the site a appears as a large do | e flows to the East, ome (30-40' in | |
| Height) l | ocated on top | o of the hil | 1. | , | |
| | | | | | |
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| Ì | | | | | |
| VII. SOURCES OF INFORMATI | ON (Can proceed residence or a | O state files commit engine | model | | |
| THE CONTROL OF THE CHARACTE | The state of the s | | | | |
| · NYSDEC F | iles, Site Vi | sit, Health | Dept. Files. | | |
| | | | | | |

| \$EPA | | POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT ART 6 - SAMPLE AND FIELD INFORMATION | I. IDENTIFICATION O1 STATE O2 SITE NUMBER NY 902014 |
|-------------------------|-------------------------------|--|---|
| II. SAMPLES TAKEN | | | |
| SAMPLE TYPE | 01 NUMBER OF SAMPLES TAKEN | 02 SAMPLES SENT TO | 03 ESTIMATED DATE RESULTS AVAILAB |
| GROUNDWATER | | No additional samples taken | |
| SURFACE WATER | | | |
| WASTE | | | |
| AIR | | | |
| RUNOFF | | | |
| SPILL | | | |
| SOIL | | | |
| VEGETATION | | | |
| OTHER | | | |
| III. FIELD MEASUREMENTS | TAKEN | | |
| 01 TYPE | 02 COMMENTS | | |
| | | | |
| | | | |
| | | | |
| | | | |

02 IN CUSTODY OF URS Consultants
[Name of organization or individual]

03 MAPS X YES V. OTHER FIELD DATA COLLECTED (Provide narrative description)

04 LOCATION OF MAPS

URS Consultants

IV. PHOTOGRAPHS AND MAPS

01 TYPE GROUND - AERIAL

VI. SOURCES OF INFORMATION (Cité specific references, e.g. state files, sample analysis, reports)

Site Inspection, USGS 7.5 minute series topographic maps, JEB Consultants Reports

| SITE INSPE | | | ZARDOUS WASTE SITE PECTION REPORT VNER INFORMATION I. IDENTIFICATION 01 STATE 02 SITE NUMBER NY 902014 | | |
|---|----------------|---------------|--|--------------------|---------------|
| II. CURRENT OWNER(S) | | | PARENT COMPANY (# applicable) | | |
| LaVerne Patton • | | 02 D+B NUMBER | OB NAME | | 09 D+B NUMBER |
| O3 STREET ADORESS (P.O. Box. RFO F. Mc.) Alfred-Almond Road | 1 | 04 SIC CODE | 10 STREET ADDRESS (P.O. Box, RFD P. exc.) | | 11 SIC CODE |
| Alfred Station | 06 STATE NY | 14803 | 12 017 | 13 STATE | 14 ZIP CODE |
| 01 NAME | | 02 D+B NUMBER | 08 NAME | • | 09 D+8 NUMBER |
| 03 STREET ADDRESS (P.O. Box, RFO #, etc.) | | 04 SIC CODE | 10 STREET ADDRESS (P.O. Soz, RFD #, etc.) | | 11 SIC CODE |
| 05 CITY | 06 STATE | E 07 ZIP CODE | 12 CITY | 13 STATE | 14 ZIP CODE |
| 01 NAME | | 02 D+B NUMBER | OS NAME | | 09 D+B NUMBER |
| 03 STREET ADDRESS (P.O. Box, RFD P. esc.) | | 04 SIC CODE | 10 STREET ADDRESS (P.O. Box. RFD #, edc.) | | 11SIC CODE |
| 05 CITY | 06 STATE | O7 ZIP CODE | 12 CITY | 13 STATE | 14 ZIP CODE |
| 01 NAME | | 02 D+8 NUMBER | 08 NAME | | 09 D+B NUMBER |
| 03 STREET ADDRESS (P.O. Box, AFD F. etc.) | | 04 SIC CODE | 10 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 11 SIC CODE |
| 05 CITY | 06 STATE | E 07 ZIP CODE | 12 CITY | 13 STATE | 14 ZIP CODE |
| III. PREVIOUS OWNER(S) (List most recent it | ferent) | | IV. REALTY OWNER(S) (# applicable, but in | most recent first) | |
| Nelson Henry | Paris | 02 D+8 NUMBER | 01 NAME | | 02 D+8 NUMBER |
| os street ADDRESS (P.O. BOX. AFD 0. occ.) not listed in the phone | e book | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE |
| or NYSDEC files. | 1 | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |
| 01 NAME | | 02 D+B NUMBER | O1 NAME | | 02 D+8 NUMBER |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 City | 06 STATE | 07 ZIP CODE |
| 01 NAME | | 02 D+8 NUMBER | O1 NAME | | 02 D+B NUMBER |
| 03 STREET ADDRESS (P O Box. RFD #. etc.) | | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box. AFD #, etc.) | 1 | 04 SIC CODE |
| OSCITY | OG STATE | 07 ZIP CODE | 05 CITY | OS STATE | 07 ZIP CODE |
| 1 | | | | 1 , | i |

| POTENTIAL HAZA | | | | ARDOUS WASTE SITE | | I. IDENTIFICATION | |
|---|-------------------------|--------------------|---------------------------------|--|-------------------|-------------------|--|
| SITE INSPE | | | CTION REPORT | ON REPORT 01 STATE 02 SITE NUMBER | | | |
| II. CURRENT OPERATOR (Provide & different from owner) | | | | OPERATOR'S PARENT COMP | ANY (I explicate) | | |
| 1 NAME | | | 02 D+8 NUMBER | 10 NAME | | 11 D+B NUMBER | |
| Inactive | 3 | 1 | | | İ | | |
| 3 STREET ADDRESS (P.O. | Box, RFD F, etc.) | | 04 SIC CODE | 12 STREET ADDRESS (P.O. Box, AFD F, or | c.) | 13 SIC CODE | |
| | | | 1 | i | | | |
| 5 CITY | | 06 STATE | 07 ZIP CODE | 14 CITY | 15 STATE | 16 ZIP CODE | |
| 8 YEARS OF OPERATION | 09 NAME OF OWNER | | | | | | |
| II. PREVIOUS OPERA | TOR(S) (Let most recent | Arat: provide on | y if different from owners | PREVIOUS OPERATORS' PAR | ENT COMPANIES (I | anoficable) | |
| 1 NAME | 1011(0) | | 02 D+B NUMBER | 10 NAME | | 11 D+B NUMBER | |
| LaVerne Pat | -ton | - 1 | | | i | | |
| 3 STREET ADDRESS (P.O. A | Box. RFD #. etc.) | | 04 SIC CODE | 12 STREET ADDRESS (P.O. Box, RFD P. o. | ic.) | 13 SIC CODE | |
| | | IOS STATE | 07 ZIP CODE | 11000 | I S CYAYE | 10000 | |
| Alfred Stat | tion | NY | | 14 CITY | ISSIAIE | 16 ZIP CODE | |
| | | | 14803 | | | L | |
| 8 YEARS OF OPERATION | 09 NAME OF OWNER | DURING THIS | SPERIOD | | | | |
| 1 NAME | | | 02 D+B NUMBER | 10 NAME | | 11 D+B NUMBER | |
| 3 STREET ADDRESS (P.O. 8 | lox, RFD #, etc.) | | 04 SIC CODE | 12 STREET ADDRESS (P.O. Box, RFD #, etc. | e.) | 13 SIC CODE | |
| 5 CITY | | 06 STATE | 07 ZIP CODE | 14 CITY | 15 STATE | 16 ZIP CODE | |
| S YEARS OF OPERATION | 09 NAME OF OWNER | 1 DURING THE | S PERIOD | | | | |
| 1 NAME | | | 02 D+8 NUMBER | 10 NAME | | 11 D+8 NUMBER | |
| 3 STREET ADDRESS (P.O. 8 | lox, RFD #, etc.) | | TO4 SIC CODE | 12 STREET ADDRESS (P.O. Box, RFD 0, on | e.) | 13 SIC CODE | |
| | | | | | | | |
| 5 CITY | | 06 STATE | 07 ZIP CODE | 14 CITY | 15 STATE | 16 ZIP CODE | |
| 8 YEARS OF OPERATION | 09 NAME OF OWNER | 1 DURING THE | S PERIOD | | | | |
| | | | | | | | |
| V. SOURCES OF INFO | DRMATION (Cite specia | ilic references, e | .g., state files, sample analys | NE. reports) | | | |
| | | | | | | | |
| LaV | erne Patton | , DEC F | Files | | | | |
| | | | | | | | |
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| ⊕EPA | POTENTIAL HAZARDOUS WASTE SITE I. IDENTIFICATION OI STATE OZ SITE NUMBER OF STATE OF SITE NUMBER | | | | |
|--|---|---------------------------------|---|----------|---------------|
| VEIA | PART | 9 - GENERATOR/1 | NY | 902014 | |
| II. ON-SITE GENERATOR | | | | | |
| 01 NAME | | 02 D+B NUMBER | | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE | | | |
| 05 CITY | 06 STATE | 07 ZIP CODE | | | |
| III. OFF-SITE GENERATOR(S) | | · · | | | |
| O1 NAME SKF Industries | | 02 D+B NUMBER | 01 NAME | | 02 D+B NUMBER |
| 03 STREET ADDRESS (P.O. Sox. AFD 4. etc.) 1100 First Avenue | | 04 SIC CODE | 03 STREET ADDRESS (P.O Box, RFD F. etc.) | | 04 SIC CODE |
| OSCITY King of Prussia | 06 STATE PA | 07 ZIP CODE 19406 | 05 CITY | 06 STATE | 07 ZIP CODE |
| 01 NAME | | 02 D+B NUMBER | 01 NAME | | 02 D+8 NUMBER |
| O3 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, RFD P. otc.) | | 04 SIC CODE |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |
| IV. TRANSPORTER(S) | | l toway | | | |
| 01 NAME | | 02 D+B NUMBER | 01 NAME | | 02 D+B NUMBER |
| 03 STREET ADDRESS (P.O. BOX, RFD #, etc.) | | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIC CODE |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |
| 01 NAME | | 02 D+8 NUMBER | 01 NAME | | 02 D+B NUMBER |
| 03 STREET ADDRESS (P.O. Box. RFD #, etc.) | | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 04 SIO CODE |
| 05 CITY | 06 STATE | 07 ZIP CODE | 05 CITY | 06 STATE | 07 ZIP CODE |
| V. SOURCES OF INFORMATION (Cre as | pecific references, o | e.g., state Mas, sample analysi | в. герогів) | | |
| | | | | | |
| SKF Industries | | | | • | |
| | | | v. | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| PA FORM 2070-13 (7-81) | | | | | |

| SEPA | POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT | | L IDENTIFICATION |
|--|---|-----------|------------------|
| | PART 10 - PAST RESPONSE ACTIVITIES | | NY 902014 |
| PAST RESPONSE ACTIVITIES | | | |
| 01 A. WATER SUPPLY CLOSED 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 D B. TEMPORARY WATER SUPPLY PROVI 04 DESCRIPTION | OED 02 DATE | 03 AGENCY | |
| 01 C. PERMANENT WATER SUPPLY PROVI | DED 02 DATE | 03 AGENCY | |
| 01 D. SPILLED MATERIAL REMOVED 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 DE. CONTAMINATED SOIL REMOVED 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 D F. WASTE REPACKAGED 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 H. ON SITE BURIAL 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 D J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 [] K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 L ENCAPSULATION 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 G M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 N. CUTOFF WALLS 04 DESCRIPTION | 02 DATE | 03 AGENCY | · |
| 01 O EMERGENCY DIKING/SURFACE WATE | ER DIVERSION 02 DATE | 03 AGENCY | |
| 01 ⊠ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION | 02 DATE1986 | 03 AGENCY | |

Remedial Trench with Leachate Collection System was constructed.

03 AGENCY

02 DATE __

01 \(\text{Q}\) SUBSURFACE CUTOFF WALL 04 DESCRIPTION

| | _ | |
|---|---|--|
| | | |
| - | | |
| | | |
| | | |

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

| I. IDEN | TIFICATION |
|----------|----------------|
| O1 STATE | 02 SITE NUMBER |
| | 902014 |

| WEIA . | PART 10 - PAST RESPONSE ACTIVITIES | NY 902014 |
|---|--|-----------------|
| II PAST RESPONSE ACTIVITIES (Continued) | • • | |
| 01 R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION | 02 DATE | 03 AGENCY |
| 01 S. CAPPING/COVERING 04 DESCRIPTION | 02 DATE1988 | 03 AGENCY |
| After closur | re a 2' thick clay cap was place | |
| 01 □ T. BULK TANKAGE REPAIRED 04 DESCRIPTION | 02 DATE | 03 AGENCY |
| 01 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION | | 03 AGENCY |
| 01 U. BOTTOM SEALED 04 DESCRIPTION | | 03 AGENCY |
| 01 C W. GAS CONTROL 04 DESCRIPTION | | 03 AGENCY |
| 01 X. FIRE CONTROL 04 DESCRIPTION | 02 DATE | 03 AGENCY |
| 01 X Y. LEACHATE TREATMENT | | 03 AGENCY |
| 04 DESCRIPTION Leachate from wastewater to | m the remedial trench is hauled reatment plant in Hornell, N.Y. | d off site to a |
| 01 Z. AREA EVACUATED 04 DESCRIPTION | 02 DATE | 03 AGENCY |
| 01 1. ACCESS TO SITE RESTRICTED | 02 DATE | 03 AGENCY |
| 04 DESCRIPTION Chained gate | , No fence around the facility | |
| 01 2. POPULATION RELOCATED 04 DESCRIPTION | 02 DATE | O3 AGENCY |
| 01 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION | 02 DATE | 03 AGENCY |

III. SOURCES OF INFORMATION (Cite apocific references, e.g., state Res, asmore energies, reports)

NYSDEC File, Conversation with Laverne Patton



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 902014

| FNFORCEMENT | |
|--------------------|--|
| | |
| | |

01 PAST REGULATORY/ENFORCEMENT ACTION | YES | NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Consent order for closure by December, 1988.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

APPENDIX C

Interview Documentation Forms

June 29, 1990

URS CONSULTANTS, INC.

570 DELAWARE AVENUE BUFFALO. NEW YORK 14202-1207 (716) 883-5525 FAX: (716) 883-0754

Bill McGlocklin SKF Industries 1100 First Avenue King of Prushia, PA 19406 BUFFAL CLEVELAND COLUMBUS DENVER

RE: DISPOSAL OF CORROSIVE WASTE BY PATTON'S DISPOSAL SERVICE

Dear Mr. McGlocklin:

As I mentioned during our telephone conversation on June 29, 1990, URS Consultants, Inc. is currently conducting a Preliminary Site Assessment of Patton's Busy Bee Disposal Site.

We are performing this investigation under contract to the New York State Department of Environmental Conservation (NYSDEC) pursuant to the requirements of the New York State Environmental Conservation Law, Section 3-0309.

This is to confirm our telephone conversation wherein you provided the following information:

To the best of my knowledge,

- The 77 Tons of Corrosive liquid our plant in Hornell disposed of in 1981 was an alkaline cleaner with a pH of 12.5. AlKAllUC
- The/cleaner was listed as a Quaker Chemical Co. Product 699GN.

The above liquid was used to clean bearings prior to installing them in metal castings.

I have been unable To locate and

No records exist stating whether the waste was characterized by a lab prior to disposal.

We would appreciate it if you would review this information, note any necessary corrections, and return a signed and dated copy to indicate your concurrence. Your prompt attention to this would be greatly appreciated, as the information is necessary to complete our evaluation of the site. Please use enclosed return envelope.

Sincerely,

URS CONSULTANTS, INC.

RahtF. Kun

Robert F. Kreuzer

Project Geologist RFK/ys

6-29-90S.RK 35216.03 (File: 5010)

I agree with the information as it is presented.

Gleeklin Bill McGlocklin

File

AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

URS CONSULTANTS, INC.

June 27, 1990

570 DELAWARE AVENUE BUFFALO, NEW YORK 14202-1207 (716) 883-5525 FAX: (716) 883-0754 ATLANTA
BOSTON
BUFFALO
CLEVELAND
COLUMBUS
DENVER
NEW YORK
PARAMUS NJ
NEW OFLEANS
SAN FRANCISCO
SAN MATEO
SEATTLE
VIRGINIA BEACH
WASHINGTON D

WORK MUS NJ OFILEANS "RANCISCO MATEO TLE NINGTON D TO THE TOTAL TO THE TOTAL T

John Palaski
New York State Department of
Enviornmental Conservation
50 Wolf Road
Albany, New York 12233

RE: PATTON'S BUSY BEE DISPOSAL SERVICE

Dear Mr. Palaski:

As I mentioned during our telephone conversation on June 26, 1990, URS Consultants, Inc. is currently conducting a Preliminary Site Assessment of Patton's Disposal Service.

We are performing this investigation under contract to the New York State Department of Environmental Conservation (NYSDEC) pursuant to the requirements of the New York State Environmental Conservation Law, Section 3-0309.

This is to confirm our telephone conversation wherein you provided the following information:

o SKF Industries of Hornell, New York was a manufacturer which processed steel tubing and bar stock. The company closed its facility in Hornell, New York in November of 1988.

We would appreciate it if you would review this information, note any necessary corrections, and return a signed and dated copy to indicate your concurrence. Your prompt attention to this would be greatly appreciated, as the information is necessary to complete our evaluation of the site. Please use enclosed return envelope.

Sincerely,

RFK/ys

URS CONSULTANTS, INC.

LITIK

Robert F. Kreuzer

Project Geologist

6-27-90S.RK 35216.03 (File: 501 RECEIVED URS CONSULTANTS

JUL 5 1990

JOB# 35 216.03

(5010)

I agree with the information as it is presented.

John Ralaski

7290 Date SKF Bearing Industries Co.



Hornell, NY USA

Gill Mc Loushin

June 28, 1988

New York Emergency Response Commission State Dept. of Environmental Conservation Bureau of Spill Prevention and Response 50 Wolf Road, Room 326 Albany, New York 12233-3510

Gentlemen:

Enclosed you will find five (5) form "R"'s submitted as required by section 313 of Title III.

All five (5) were required under the process portion for our facility.

We process steel tubing and bar stock along with castings to make our product. Most of the incoming tonnage goes into the Article with the remainder going out as scrap cast iron and steel which is sold for reuse. This is exempt according to Part II (off site locations) of Title III and does not have to be noted on the forms.

For: SKF Ind. Inc.

♂. Barr

JB/djm cc: R. Elzinga enclosure

Horton Street Hornell, NY 14843-1499 Telephone: 607-324-5435 FAX: 607-324-7544

15-3 (10/29) NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION **ALBANY, NEW YORK 12233** NDUSTRIAL CHEMICAL SURVEY Please refer to PART L attached table I COMPLETE AND RETURN TO THE ABOVE ADDRESS, ATTENTION: INDUSTRIAL CHEMICAL SURVEY. OFFICE USE ONLY SIC CODE (If known) OMPANY NAME SKF INDUSTRIES, INC. 3562 STATE ZIP CODE NY MAILING ADDRESS CITY Horton Street Hornell NY 14843 TELEPHONE CONTACT NAME NAME (If different) Area SKF Mounted Bearings Division 607-324-5435 James E. Gallman ZIP CODE STATE ANT ADDRESS (If different) CITY PAL BUSINESS OF PLANT Manufacture of Bearing Mounting Devices & Accessories OLE: (If parent company, give name and addresses of all divisions, subsidiaries, etc. located in New York State. A separate questionnaire is to be completed 5002 and submitted for each.) No other SKF Manufacturing Facilities within N.Y. State 00-220-9773 PART II Discharge Information 1. Does your plant discharge liquid wastes to a municipally owned sanitary sewer system? Yes Yes Name of System Hornell Water Pollution Control Plant 2. Is your facility permitted to discharge liquid wastes under a State (SPDES) or Federal (NPDES) permit? Do you discharge liquid wastes in any other manner? Explain Used Coolant & Alkaline Cleaner shipped to treatment and Disposal site If any of the above are "Yes": a. Do you discharge process or chemical wastes - (i.e. water used in manufacturing including direct contact cooling water and scrubber water)? b. Do you discharge non-contact cooling water?.................................. c. Do you discharge collected storm drainage only? Does your facility have sources of possible emissions to the atmosphere? 2. Enter Location and Facility Code as shown on your Air Pollution Control Application for Permits and Certification (If applicable) 1. List Name and Address of Firm (Including yourself) removing wastes other than office and cafeteria refuse. Patton's Busy Bee Disposal Service State Alfred-Almond Rd. Midstate Trading Co. State Zip Code 2525 Trenton Ave. P.O. 3275 Williamsport PA List Location(s) of Landfill(s) owned and used by your facility. N/A

Manufacture Pesticides or Pesticide Product Ingredients?

Produce Pesticides or Pesticide Product Ingredients?.....

Yes

Yes

Yes

7 Yes

X No

X No

No

2

1. Does this facility:

Formulate Pesticides?

Repackage Pesticides?

. EPA Establishment Number



SUBSTANCES OF CONCERN (Refer to attached TABLE I)

Complete all information for those substances your facility has used, produced, stored, distributed or otherwise disposed of since January 1, 1977. Do not include chemicals used only in analytical laboratory work. Enter the name and code from Table 1. If facility uses a substance in any of the Classes A — F which is not specified in the list, enter it as code class plus 99, e.g. B99 with name, usage, etc.

| which is not specified in the list, en | ter it as code clas | ss plu | 5 77, e.g. B | W E | rith | name, usage, etc. | т | _ | | | | | |
|---|---------------------|-----------------|----------------|------|---------|-----------------------|----------|----------|-----------------|--|--|--|--|
| NAME OF SUBSTANCE | c | ODE | AVERAG | | GÉ | AMOUNT NOW ON HAND | CAL. | [B. | (State y | PURPOSE OF USE whether produced, reacted, blended, and, distributed, no longer used, etc.) | | | |
| Polychlorinated Biphe | eny1 | A21 | 0 | | | 0 | | | Dispose | d of 450 KVA transforme | | | |
| | | | | | | | T | | and oil | July 1979. | | | |
| | | | | | | | | | Disposa | 1 agent: Transformer | | | |
| | | | | | | | L | | Service | Inc. Box 1077, | | | |
| | | | | | | | L | | | , N.H. 03301 | | | |
| · | | | | | | | | | This ma | terial not used since | | | |
| | | | | | | | | L | disposa | l of transformer. | | | |
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| use chemicals of unknown composition | n, list trade name | or oth | ner identifica | atio | n, r | name of supplier and | con | nple | te information. | | | | |
| | AVERAGE | | | (1 | | | | | | PURPOSE OF USE (State whether produced, reacted, | | | |
| NAME OF SUBSTANCE | USAGE | | WON THUC | GAL. | LB. | SUP | PLIE | R | | blended, packaged, distributed, | | | |
| | | - | | ۲ | | | | | | no longer used, etc.) | | | |
| | | - | | Н | Н | | | | | | | | |
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| I hereby affirm under penalty of peri are punishable as a Class A misdem | neanor pursuant to | on pro Secti | on 210.45 of | s to | m Pe | is true to the best o | my | kno | owledge and be | illef. False statements made herein | | | |
| II : (Owner, Partner/ or Officer) | | | 1.0 | | | | | | DATE | | | | |
| X12 111.111 | E. Calic | : [| / | | | | | | | 4/2/82 | | | |
| Printed or Typed) | | | | | T | ITLE Divisio | n | D=- | aident | | | | |
| - / | | | | | \perp | DIVISIO | 11 | rre | saraeut | | | | |

NYSDEC

"COMMUNITY-RIGHT-TO-KNOW" EXECUTIVE ORDER #33

ICS #: 8166793
SKF INDUSTRIES INC.(MOUNTED BEA
JAMES GALLMAN
HORTON ST.
HORNELL NY 14843

INDUSTRIAL CHEMICAL SURVEY (ICS)

INSTRUCTIONS

A. If you have submitted an ICS form to the Department since January 1, 1980 (1), please check the box below, sign and return (2), this sheet.

X

ICS submitted since January 1, 1980

Signature

Date

- B. If you have <u>not</u> submitted an ICS form to the Department since January 1, 1980, please complete and return (2) the attached ICS form.
- NOTE: (1) If you wish to update the ICS currently on file you may do so by completing and returning the enclosed forms.
 - (2) All materials are to be returned in the enclosed self-addressed envelope.

APPENDIX C

Interview Documentation Forms

REF. 6

URS
AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATE

July 2, 1990

URS CONSULTANTS, INC.

570 DELAWARE AVENUE BUFFALO. NEW YORK 14202-1207 (716) 883-5525

(716) 883-5525 FAX: (716) 883-0754

Roger Mullen
Village of Alfred Department of Works
7 West University Street
Alfred, New York 14802

RE: MUNICIPAL WATER SUPPLY FOR THE ALFRED AREA

ACLANTA
BUSFALO
CLEVELAND
CLEVELAND
COLUMBUS
DENVER
URS CONSULTANTS
PARAMI, S. N.J.
NEW OFFLEANS
SAM MATEO
SAM MATEO
SEATTLE
URGINIA BEACH
AM JOB # 0 3 5 216.03

(5010)

Dear Mr. Mullen:

As I mentioned during our telephone conversation on July, 1990, URS Consultants, Inc. is currently conducting a Preliminary Site Assessment of Patton's Landfill located off of Clark Road in Alfred Station.

We are performing this investigation under contract to the New York State Department of Environmental Conservation (NYSDEC) pursuant to the requirements of the New York State Environmental Conservation Law, Section 3-0309.

This is to confirm our telephone conversation wherein you provided the following information:

- o The Village of Alfred Municipal wells are located along Shaw Road in Alfred Station.
- o The wells serve Alfred university, Alfred College, the Village of Alfred as well as Alfred Station.
- o The wells have been tested on an annual basis and have shown no contaminant concentrations to be above acceptable limits.
- o The trailer park located along Alfred Station Road is also served by municipal water.

We would appreciate it if you would review this information, note any necessary corrections, and return a signed and dated copy to indicate your concurrence. Your prompt attention to this would be greatly appreciated, as the information is necessary to complete our evaluation of the site. Please use enclosed return envelope.

Sincerely,

URS CONSULTANTS, INC.

Robert F. Kreuzer Project Geologist

RFK/ys 7-2-90S.RK

35216.03 (File: 5010)

I agree with the information as it is presented.

Roger Mullen

1/5/90

Date



June 29, 1990

URS CONSULTANTS, INC.

570 DELAWARE AVENUE BUFFALO. NEW YORK 14202-1207 (716) 883-5525 - FAX: (716) 883-0754 ATLANTA
BOSTON
BUFFALO
CLEVELAND
COLUMBUS
DENVER
NEW YORK
PAPAMUS NJ
NEW ORLEANS
SAN FRANCISCO
SCATTLE
VIRGINIA SEACH
WASHINGTON D.C.

LaVerne Patton
Patton's Busy Bee Disposal
Alfred-Almond Road
Alfred Station, New York 14803

RE: PATTON'S BUSY BEE DISPOSAL SERVICE

Dear Mr. Patton:

As I mentioned during our telephone conversation on June 29, 1990, URS Consultants, Inc. is currently conducting a Preliminary Site Assessment of your landfill located off of Clark Road.

We are performing this investigation under contract to the New York State Department of Environmental Conservation (NYSDEC) pursuant to the requirements of the New York State Environmental Conservation Law, Section 3-0309.

This is to confirm our telephone conversation wherein you provided the following site history information:

- o I have owned the landfill property since 1974.
- o The previous owner was Nelson Henry.
- o the property has been used as a landfill approximately 35-40 years.
- o The trench area under investigation was permitted by the NYSDEC in 1980 and was closed under a consent order in 1988.

We would appreciate it if you would review this information, note any necessary corrections, and return a signed and dated copy to indicate your concurrence. Your prompt attention to this would be greatly appreciated, as the information is necessary to complete our evaluation of the site. Please use enclosed return envelope.

Sincerely,

URS CONSULTANTS, INC.

Robert F. Kreuzer Project Geologist

RFK/ys 6-29-90S.RK

35216.03 (File: 5010)

Distribution

RK
CH

FILE 55-370-03

I agree with the information as it is presented.

Zolm E. Past 2

Date

July 6, 1990

URS CONSULTANTS, INC.

570 DELAWARE AVENUE BUFFALO, NEW YORK 14202-1207 (716) 883-5525 FAX: (716) 883-0754

Mr. John Wulforst Soil Scientist Allegany Soil Conservation Department Agelica Road Belmont, New York 14813 ATLANTA
BOSTON
BUFFALO
CLEVELAND
COLUMBUS
DENVER
NEW YORK
PARAMUS, NJ
NEW ORLEANS
SAN FRANCISCO
SAN MATCO
SEATTLE
VIRGINIA BEACH
WASHINGTON, D.C.

RE: PATTON'S BUSY BEE DISPOSAL

Dear Mr. Wulforst:

As I mentioned during our telephone conversation on July 6, 1990, URS Consultants, Inc. is currently conducting a Preliminary Site Assessment of the Patton's Busy Bee Disposal Site.

We are performing this investigation under contract to the New York State Department of Environmental Conservation (NYSDEC) pursuant to the requirements of the New York State Environmental Conservation Law, Section 3-0309.

This is to confirm our telephone conversation wherein you provided the following information: To the best of my knowledge,

- o The area surrounding Patton's Landfill (3 mile radius) is not a particularly active agricultural area.
- o Irrigation by surface or groundwater does not take place on a large scale within several miles of the site.
- o The only probable use of surface water is for live stock and irrigation of small farms located several miles away in the valley near Alfred Station.

We would appreciate it if you would review this information, note any necessary corrections, and return a signed and dated copy to indicate your concurrence. Your prompt attention to this would be greatly appreciated, as the information is necessary to complete our evaluation of the site. Please use enclosed return envelope.

Sincerely,

URS CONSULTANTS, INC.

Ruh IF. Kun, _

Robert F. Kreuzer Project Geologist

RFK/ys 7-6-90L.RK

35216.03 (File: 5010)

I agree with the information as it is presented.

John Wulforst Soil Scientist 7-10-90
Date



AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

URS CONSULTANTS, INC.

July 10, 1990

570 DELAWARE AVENUE BUFFALO, NEW YORK 14202-1207 (716) 883-5525 FAX: (716) 883-0754 BOSTON BUFFALO CLEVELAND COLUMBUS COLUMBUS
DENVER
NEW YORK
PARAMUS, NJ
NEW ORLEANS
SAN FRANCISCO
SAN MATEO SEATTLE VIRGINIA BEACH WASHINGTON D.C.

Keith Stanley Alfred Station Fire Chief P.O. Box 152 Alfred Station, New York 14803

RE: PATTON'S LANDFILL (THREAT OF FIRE AND/OR EXPLOSION)

Dear Mr. Stanley:

As I mentioned during our telephone conversation on July 10, 1990, URS Consultants, Inc. is currently conducting a Preliminary Site Assessment of Patton's Busy Bee Disposal Site.

We are performing this investigation under contract to the New York State Department of Environmental Conservation (NYSDEC) pursuant to the requirements of the New York State Environmental Conservation Law, Section 3-0309.

This is to confirm our telephone conversation wherein you provided the following information:

To the best of my knowledge,

- There is no known threat of fire and/or explosion at the Landfill.
- To date, there have been no reported fires or explosions at the site.

We would appreciate it if you would review this information, note any necessary corrections, and return a signed and dated copy to indicate your concurrence. Your prompt attention to this would be greatly appreciated, as the information is necessary to complete our evaluation of the site. Please use enclosed return envelope.

Sincerely,

URS CONSULTANTS, INC.

IT. Kun -

Robert F. Kreuzer Project Geologist

RFK/ys 7-10-90L.RK

35216.03 (File: 5010)

REL URS CONSULTANTS

AUG 1 6 1990

JOB#

I agree with the information as it is presented.

AN INFRINCTIONAL PROFESSIONMENT RVICES ORGANIZATION

ATLANAC
BOSTON
BUI FALO
CLE VELAND
COLUMBLIS
DER VER
NEW YORK
PAFAMUS NJ
NEV ORLEANS
SAN PARALUSCO
SAN MATEO
SEA
VIRLINGTER C- 350/4 0 3

file 5010

July 11, 1990

URS CONSULTANTS, INC.

570 DELAWARE AVENUE BÜFFALO, NEW YORK 14202-1207 (716) 883-5525 FAX: (716) 883-0754

Shar@n Patton
P.O. Box 37
Alfred Station, New York 14803

RE: PATTON'S BUSY BEE DISPOSAL SITE

Dear Mrs. Patton:

As I mentioned during our telephone conversation on July 11, 1990, URS Consultants, Inc. is currently conducting a Preliminary Site Assessment of the Patton's Busy Bee Disposal Site.

We are performing this investigation under contract to the New York State Department of Environmental Conservation (NYSDEC) pursuant to the requirements of the New York State Environmental Conservation Law, Section 3-0309.

This is to confirm our telephone conversation wherein you provided the following site history information:

- o Leachate seeps were observed along the embankment near the pond in 1988. The leachate appeared as a rust colored water with an oily sheen.
- o Eight people living on your property are served by well water.

One resident who lives in a trailer on your property draws his water from a spring. The spring is located near the pond area.

We would appreciate it if you would review this information, note any necessary corrections, and return a signed and dated copy to indicate your concurrence. Your prompt attention to this would be greatly appreciated, as the information is necessary to complete our evaluation of the site. Please use enclosed return envelope.

Sincerely,

URS CONSULTANTS, INC.

Robert F. Kreuzer

Robert F. Kreuzer Project Geologist

RFK/ys 7-11-90S.RK

35216.03 (File: 5010)

I agree with the information as it is presented.

See Attachment:

Shapen Patton

Date

Stephen Patton Feeding Liberations TWG LICE Moderate of Galder of Gard of Tile God Sono Budy of Louge well Frank Trailer Muency 10 N.C.

APPENDIX D

Hazard Ranking System

| Facility name: Patton's B | usy Bee Disp | posal | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|
| Location: Clark Road Al | fred Station | n, New York | | | | | | | | |
| EPA Region:II, NYSDEC Region 9 | | | | | | | | | | |
| Person(s) in charge of the facility: | LaVerne Pa | atton | | | | | | | | |
| | Alfred-Alm | nond Road | | | | | | | | |
| | Alfred Sta | ation, New York | | | | | | | | |
| Name of Reviewer: URS Cons | ultants | 5/29/90 | | | | | | | | |
| General description of the facility: | | A single control of the single control of th | | | | | | | | |
| (For example: landfill, surface im facility; contamination route of me | poundment, pile, co vjor concern; types | intainer; types of hazardous substances; location of the of information needed for rating; agency action, etc.) | | | | | | | | |
| Patton's Busy Bee Di | sposal Site | is a 23.25 acre Landfill located on, Allegany County, NY. The site | | | | | | | | |
| | | ndustrial and commercial waste | | | | | | | | |
| | marrerpar, | industrial and commercial waste | | | | | | | | |
| from Allegany and St | euben counti | es. Included in the waste accepted | | | | | | | | |
| was 77 tons of a cor New York. Groundwat | rosive liqui | d from SKF Industries of Hornell, toring wells indicated the presence | | | | | | | | |
| of various halogenat | ed organic o | compounds. Groundwater contamination | | | | | | | | |
| is of major concern | because the | areas municipal wells are located | | | | | | | | |
| within 4,000 ft of t | he site. | | | | | | | | | |
| Scores: S _M 35.95 62.1 | 2.01 | - 0.00 | | | | | | | | |
| SFE - 0.00 | | | | | | | | | | |
| S DC = 0.00 | | | | | | | | | | |

HRS COVER SHEET

| | | G | Broun | d W | /ate | r Ro | ute W | lork S | heet | | | | |
|---|--|--------------|-----------|--------------------|-------|-------|---------------|------------|------|-----------------|---------|---------------|-------------------|
| | Rating Factor | | | - 100 | | d Va | | Succession | | Multi- plier | Score | Max. Score | Ref. (Section) |
| 1 | Observed Release | | 0 | | er er | | 45 | | | 1 | 45 | 45 | 3.1 |
| | If observed releas | Tak bere Tak | | | | | | | | | | - | |
| 2 | Route Characteris Depth to Aquife | | 0 | 1 | 2 | 3 | | | | 2 | | 6 | 3.2 |
| | Concern Net Precipitation Permeability of t | the | 0 | 1 | 2 | 3 | | | | 1 | | 3 3 | |
| | Unsaturated Zo Physical State | me | 0 | 1 | 2 | 3 | | | | 1 | | 3 | |
| | | Tota | l Rou | te (| Cha | racte | ristic | Scor | • | | 0 | 15 | |
| 3 | Containment | | 0 | 1 | 2 | 3 | | | | 1 | 0 | 3 | 3.3 |
| 4 | Waste Characteris Toxicity/Persist Hazardous Wast Quantity | ence | 0 | 3 | | 31 | 2 (15) 4 5 | 18 6 7 | 8 | 1 | 15 3 | 18 8 | 3.4 |
| | | Total | Was | te (| Cha | racte | ristics | Scor | • | | 18 | 26 | |
| 5 | Targets Ground Water Use Distance to Near Well / Population Served | rest | 0 0 12 24 | 1 4 16 30 | 18 32 | 30 35 | 10 | | | 3 | 9 | 9 40 | 3.5 |
| 6 | If line 1 is 45, | multiply 1 | | | | | Score | | | | 44 | 49 | |
| | | nultiply 2 x | | | | | 5 | | | 3 | 5640 | 57,330 | |
| 7 | Divide line 6 by | 57,330 and m | nultipl | y b | y 10 | 00 | | | | gw = | 62.17 | · | |

GROUND WATER ROUTE WORK SHEET

| | | S | urface ! | Water F | Route W | ork Shee | t | | | |
|----|--|------------------------------|--------------------|--------------------|---------------------|------------|-----------------|---------|---------------|------------------|
| | Rating Factor | · | | igned \ ircle O | | | Multi- plier | Score | Max. Score | Ref. (Section |
| 1 | Observed Release | • | 0 | | 45 | | 1 | ,O 3 | 45 | 4.1 |
| | If observed release | | | | | | | | | |
| 2 | Route Characteris Facility Slope ar | | 0 1 | 2(3 |) . | | 1 | 3 | 3 | 4.2 |
| | Terrain 1-yr. 24-hr. Rain Distance to Nea | | 0 1 0 1 | * | | | 1 2 | 2 | 3 6 | |
| | Water Physical State | | 0 1 | 23 |) | | 1 | 3 | 3 | |
| | | Tota | Route | Charac | teristics | Score | | 12 | 15 | |
| 3 | Containment | | 01 | 2 3 | | | 1 | 1 | 3 | 4.3 |
| 4 | Waste Characteris Toxicity/Persist Hazardous Wast Quantity | ence | 0 3 0 1 | 23 | 12 (15) 1 4 5 | 8 8 7 8 | 1 | 15 3 | 18 | 4.4 |
| | | Total | Waste | Charac | teristics | Score | 10 | 18 | 26 | |
| 5 | Targets Surface Water U Distance to a Se | | 0 | 1 2 | 3 | | 3 2 | 6 | 9 | 4.5 |
| | Population Serve to Water Intake Downstream | | 0 12 14 3 | | 8 10 20 35 40 | | 1 | 0 | 40 | |
| _ | | | Total | Targets | Score | | 7 | 6 | 56 | |
| _ | | multiply 1 x nultiply 2 x | | | 5 | | | 1296 | 64,350 | |
| 7] | Divide line 6 by | 64,350 and m | ultiply i | ov 100 | 721 | | Saw - | 2.01 | | |

| | | | A | r Rou | ite V | Vork | She | et | | | | | |
|---|---------------------------------------|------------|--------------|-----------------|-------|------|-------|------|--------|----|-----|---------------|------------------|
| | Rating Factor | 1 | | signe Circle | | | | | Multi- | | re | Max. Score | Ref. (Section |
| 1 | Observed Release | | 0 45 | | | | 1 | |) | 45 | 5.1 | | |
| | Date and Location | 1: | | | | | | | | | | | |
| | Sampling Protocol | l: | | | | | | | | | | | |
| | If line 1 is 0, t If line 1 is 45, | _ | O. Enter on | _ | _ | • | | | | | | | |
| 2 | Waste Characteris Reactivity and | itics | 0 | 1 2 | 3 | | | | 1 | | | 3 | 5.2 |
| | Incompatibility | | • | • | • | | | | • | | | 3 | |
| | Toxicity Hazardous Waste Quantity | • | | 1 2 | | | 5 - 6 | 7 | 8 1 | | | 9 8 | |
| | | | Total Wast | e Chi | araci | eris | ics S | core | | | | 20 | |
| 3 | Targets | | | | | | | | | | | | 5.3 |
| | Population Within 4-Mile Radius |)• | } 0 21 2 | 9 12 | 15 | 18 | | | 1 | | | 30 | |
| | Distance to Sens | itive | | 1 2 | | | | | 2 | | | 6 | |
| | Environment Land Use | | 0 | 1 2 | 3 | | | | 1 | | | 3 | |
| | | | | | | | | | | | | | |
| | | | Tota | ai Tar | gete | Sco | ore . | | | | | 39 | |
| 4 | Multiply 1 x 2 | 2 × 3 | | | | | | | | | | 35,100 | |
| 5 | Divide line 4 b | y 35,100 a | and multipli | y by | 100 | | | | S. | 0 | | | |

AIR ROUTE WORK SHEET

| •• . | S | s ² |
|---|-------|----------------|
| Groundwater Route Score (Sgw) | 62.17 | 3865.11 |
| Surface Water Route Score (Ssw) | 2.01 | 4.04 |
| Air Route Score (Sa) | 0 | 0 |
| $S_{gw}^2 + S_{sw}^2 + S_a^2$ | | 3869.15 |
| $\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$ | | 62.20 |
| $\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 - s_M =$ | | 35.96 |

WORKSHEET FOR COMPUTING $s_{\mathbf{M}}$

| | | F | ire a | ind | Ex | plos | sior | w | ork | Sh | eet | | | | | |
|---|---|-------------|--------|------|---------|------|-------------|-------|------|-----|------|-----------------|------|-----|-----------------------|-------------------|
| | Rating Factor | | | | | | /alu ne) | | | | | Multi- plier | Sco | ore | Max. Score | Ref. (Section) |
| 1 | Containment | | 1 | | | | | 3 | | | | 1 | . 0 | | 3 | 7.1 |
| 2 | Waste Characteristic Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity | • | 0 | 1 | 2 2 2 2 | 3 | 4 | 5 | 6 | 7 | 8 | 1 1 1 1 1 | 2212 | | 3 3 3 3 8 | 7.2 |
| | | Total | Was | ite | Cha | arac | teri | istic | :8 : | Sco | re . | | | | 20 | |
| 3 | Targets Distance to Nearest Population | ł | 0 | | | | 4 | 5 | - | | | 1 | | | 5 | 7.3 |
| | Distance to Nearest Building Distance to Sensitiv | | 0 | 1 | 2 | | | | | | | 1 | | | 3 | |
| | Environment Land Use | • | 0 | 1 | 2 | 3 | | | | | | 1 | | | 3 | |
| | Population Within 2-Mile Radius | | 0 | | | | 4 | | | | | 1 | | | 5 5 | |
| | Buildings Within 2-Mile Radius | | • | • | • | • | • | • | | | | . • | | | • | |
| | | | Tot | al ' | Tary | gets | s Sc | con | | | | | | I | 24 | |
| 4 | Multiply 1 x 2 | × 3 | | | | | | | | | | | | | 1,440 | |
| 5 | Divide line 4 by 1 | ,440 and mu | Itiply | by | / 10 | ю | | | | | | SFE - | * | | | |

FIRE AND EXPLOSION WORK SHEET

| | | Direct Contact Work Shee | it | | | |
|---|---|--------------------------------|-----------------|-------|---------------|-------------------|
| | Rating Factor | Assigned Value (Circle One) | Multi- plier | Score | Max. Score | Ref. (Section) |
| 1 | Observed Incident | 45 | 1 | 0 | 45 | 8.1 |
| | if line 1 is 45, proceed to 1 is 0, proceed to | | | | | |
| 2 | Accessibility | 0 1 2 3 | 1 | 3 | 3 | 8.2 |
| 3 | Containment | () 15 | 1 | 0 | 15 | 8.3 |
| 4 | Waste Characteristics Toxicity | 0 1 2 3 | 6 | 15 | 15 | 8.4 |
| 5 | Targets Population Within a 1-Mile Radius | 0 1 2 3 4 5 | 4 | 8 | 20 | 8.5 |
| | Distance to a Critical Habitat | 0 1 2 3 | 4 | 0 | 12 | |
| | | | | | | |
| | · | Total Targets Score | | • 8 | 32 | |
| | If line 1 is 45, multiply If line 1 is 0, multiply | | | 0 | 21,600 | |
| 7 | Divide line 6 by 21,600 a | and multiply by 100 | SDC = | 0.00 | | |

DIRECT CONTACT WORK SHEET

GROUNDWATER ROUTE

- 1 OBSERVED RELEASE 45
- o CONTAMINANTS DETECTED (5 MAXIMUM):

Trichloroethylene
trans-1,2-dichloroethylene
Toluene
Vinyl Chloride
Methylene Chloride

o RATIONALE FOR ATTRIBUTING THE CONTAMINANTS TO THE FACILITY:

The analytes are found in the downgradient monitoring wells, and the upgradient background wells do not show signs of contamination.

Score 45

2 ROUTE CHARACTERISTICS

DEPTH TO AQUIFER OF CONCERN

o NAME/DESCRIPTION OF AQUIFER(S) OF CONCERN:

N/A

DEPTH(S) FROM THE GROUND SURFACE TO THE HIGHEST SEASONAL LEVEL OF THE SATURATED ZONE [WATER TABLE(S)] OF THE AQUIFER OF CONCERN:

N/A

O DEPTH FROM THE GROUND SURFACE TO THE LOWEST POINT OF WASTE DIS-POSAL/STORAGE:

N/A

NET PRECIPITATION

- o MEAN ANNUAL OR SEASONAL PRECIPITATION (LIST MONTHS FOR SEASONAL):
 N/A
- o MEAN ANNUAL LAKE OR SEASONAL EVAPORATION (LIST MONTHS FOR SEASONAL):

N/A

o NET PRECIPITATION (SUBTRACT THE ABOVE FIGURES): N/A

Score 0

PERMEABILITY OF UNSATURATED ZONE

o SOIL TYPE IN UNSATURATED ZONE: N/A

o PERMEABILITY ASSOCIATED WITH SOIL TYPE:
N/A

Score 0

PHYSICAL STATE

O PHYSICAL STATE OF SUBSTANCES AT TIME OF DISPOSAL (OR AT PRESENT TIME FOR GENERATED GASES):

N/A

Score 0

3 CONTAINMENT

CONTAINMENT

o METHOD(S) OF WASTE OR LEACHATE CONTAINMENT EVALUATED:

N/A

o METHOD WITH HIGHEST SCORE:

N/A

Score 0

4 WASTE CHARACTERISTICS

TOXICITY AND PERSISTENCE

o COMPOUND(S) EVALUATED:

| Compound | Toxicity | Persistence | Score |
|----------------------------|----------|-------------|-------|
| Trichloroethylene | 2 | 2 | 12 |
| trans-1,2-dichloroethylene | 2 | 2 | 12 |
| Toluene | 2 | 1 | 9 |
| Vinyl Chloride | 3 | 2 | 15 |
| Methylene Chloride | 2 | 2 | 12 |

o COMPOUND WITH HIGHEST SCORE:

Vinyl Chloride

Score 15

HAZARDOUS WASTE QUANTITY

TOTAL QUANTITY OF HAZARDOUS SUBSTANCES AT THE FACILITY, EXCLUDING THOSE WITH A CONTAINMENT SCORE OF O (GIVE A REASONABLE ESTIMATE EVEN IF QUANTITY IS ABOVE MAXIMUM):

77 tons of a corrosive alkaline cleaner from SKF Industries

Score 3

o BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

Communication with SKF Industries (Ref. 2)

5 TARGETS

GROUNDWATER USE

o USE(S) OF AQUIFER(S) OF CONCERN WITHIN A 3-MILE RADIUS OF THE FACILITY:

Drinking water, no other water available from an unthreatened source (Ref. 6)

Score 3

DISTANCE TO NEAREST WELL

 LOCATION OF NEAREST WELL DRAWING FROM <u>AQUIFER OF CONCERN</u> OR OC-CUPIED BUILDING NOT SERVED BY A PUBLIC WATER SUPPLY:

Patton's retirement home northeast of the site

o DISTANCE TO ABOVE WELL OR BUILDING:

600-800 ft. (Ref. Site Visit)

POPULATION SERVED BY GROUNDWATER WELLS WITHIN A 3-MILE RADIUS

o IDENTIFIED WATER-SUPPLY WELL(S) DRAWING FROM <u>AQUIFER(S)</u> OF <u>CONCERN</u> WITHIN A 3-MILE RADIUS AND POPULATIONS SERVED BY EACH:

Municipal water wells supply the Village of Alfred, Alfred Station, Alfred University, and Alfred College.

- $3.8 \times 408 \text{ houses} + 50\% \text{ of college students and staff} = 5,490 (Ref. 33).$
- O COMPUTATION OF LAND AREA IRRIGATED BY SUPPLY WELL(S) DRAWING FROM AQUIFER(S) OF CONCERN WITHIN A 3-MILE RADIUS, AND CONVERSION TO POPULATION (1.5 PEOPLE PER ACRE):

No irrigation known of (Ref. 13)

o TOTAL POPULATION SERVED BY GROUNDWATER WITHIN A 3-MILE RADIUS:

5,490

SURFACE WATER ROUTE

1 OBSERVED RELEASE

0

O CONTAMINANTS DETECTED IN SURFACE WATER AT THE FACILITY OR DOWNHILL FROM IT (5 MAXIMUM):

N/A

o RATIONALE FOR ATTRIBUTING THE CONTAMINANTS TO THE FACILITY:

N/A

Score 0

2 ROUTE CHARACTERISTICS

FACILITY SLOPE AND INTERVENING TERRAIN

AVERAGE SLOPE OF FACILITY IN PERCENT:

Steep slopes are found surrounding the facility to the east, west, and south of the site as great as 25%

- o NAME/DESCRIPTION OF NEAREST DOWNSLOPE SURFACE WATER:
 - 1,500 ft. Crosby Creek to the east
 - 2,000 ft. to a tributary of Canacadea Creek to the west
- O AVERAGE SLOPE OF TERRAIN BETWEEN FACILITY AND ABOVE-CITED SURFACE WATER BODY IN PERCENT:
- 8.3% distance bewteen the site and Crosby Creek (REF. USGS topo. map)
- O IS THE FACILITY LOCATED EITHER TOTALLY OR PARTIALLY IN SURFACE WATER?

No

o IS THE FACILITY COMPLETELY SURROUNDED BY AREAS OF HIGHER ELEVATION?

1-YEAR 24-HOUR RAINFALL IN INCHES

2.1 inches (Ref.14)

Score 2

DISTANCE TO NEAREST DOWNSLOPE SURFACE WATER

1,500 ft.

Score 2

PHYSICAL STATE OF WASTE

Solvents, aqueous cleaning solution (REF. 2, organics detected in monitoring wells)

Score 3

3 CONTAINMENT

CONTAINMENT

- o METHOD(S) OF WASTE OR LEACHATE CONTAINMENT EVALUATED:

 Landfill has cover as well as a leachate collection system
 Leachate seeps reportedly occurred in 1988 (Ref. 27)
- o METHOD WITH HIGHEST SCORE:

N/A

4 WASTE CHARACTERISTICS

TOXICITY AND PERSISTENCE

o COMPOUND(S) EVALUATED

| Compound | Toxicity | Persistence | Score |
|----------------------------|----------|-------------|-------|
| Trichloroethylene | 2 | 2 | 12 |
| trans-1,2-dichloroethylene | 2 | 2 | 12 |
| Toluene | 2 | 1 | 9 |
| Vinyl Chloride | 3 | 2 | 15 |
| Methylene Chloride | 2 | 2 | 12 |

o COMPOUND WITH HIGHEST SCORE:

Vinyl Chloride

Score 15

HAZARDOUS WASTE QUANTITY

O TOTAL QUANTITY OF HAZARDOUS SUBSTANCES AT THE FACILITY EXCLUDING THOSE WITH A CONTAINMENT SCORE OF O (GIVE A REASONABLE ESTIMATE EVEN IF QUANTITY IS ABOVE MAXIMUM):

77 tons of a corrosive alkaline cleaner from SKF Industries (Ref. 2).

Score 3

o BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

Communication with SKF Industries (Ref. 2)

5 TARGETS

SURFACE WATER USE

USE(S) OF SURFACE WATER WITHIN 3 MILES DOWNSTREAM OF THE HAZARDOUS SUBSTANCE:

Recreational fishing, no known surface water intakes (Ref.13,15)

o IS THERE TIDAL INFLUENCE?
There is no tidal influence on the site.

DISTANCE TO A SENSITIVE ENVIRONMENT

- O DISTANCE TO 5-ACRE (MINIMUM) COASTAL WETLAND, IF 2 MILES OR LESS:
 None within 2 miles of the site.
- o DISTANCE TO 5-ACRE (MINIMUM) FRESH-WATER WETLAND, IF 1 MILE OR LESS:

None within 1 mile of the site (Ref. 15)

O DISTANCE TO CRITICAL HABITAT OF AN ENDANGERED SPECIES OR NATIONAL WILDLIFE REFUGE, IF 1 MILE OR LESS:

No known endangered species or national wildlife refuges within 1 mile (Ref. 15)

Score 0

POPULATION SERVED BY SURFACE WATER

O LOCATION(S) OF WATER-SUPPLY INTAKE(S) WITHIN 3 MILES (FREE-FLOWING BODIES) OR 1 MILE (STATIC WATER BODIES) DOWNSTREAM OF THE HAZARDOUS SUBSTANCE AND POPULATION SERVED BY EACH INTAKE:

None known of (Ref. 13)

O COMPUTATION OF LAND AREA IRRIGATED BY ABOVE-CITED INTAKE(S) AND CONVERSION TO POPULATION (1.5 PEOPLE PER ACRE):

None known of (Ref. 13)

o TOTAL POPULATION SERVED:

N/A

o NAME/DESCRIPTION OF NEAREST OF ABOVE WATER BODIES:
N/A

O DISTANCE TO ABOVE-CITED INTAKES, MEASURED IN STREAM MILES.
N/A

Score 0

AIR ROUTE

- 1 OBSERVED RELEASE
- CONTAMINANTS DETECTED:No recorded air release
- DATE AND LOCATION OF DETECTION OF CONTAMINANTS

 N/A
- o METHODS USED TO DETECT THE CONTAMINANTS: N/A
- o RATIONALE FOR ATTRIBUTING THE CONTAMINANTS TO THE SITE: N/A

Score <u>0</u>

2 WASTE CHARACTERISTICS

REACTIVITY AND INCOMPATIBILITY

- o MOST REACTIVE COMPOUND: N/A
- MOST INCOMPATIBLE PAIR OF COMPOUNDS: N/A

TOXICITY

o MOST TOXIC COMPOUND:

N/A

Score 0

HAZARDOUS WASTE QUANTITY

o TOTAL QUANTITY OF HAZARDOUS WASTE:

N/A

Score 0

o BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

N/A

3 TARGETS

POPULATION WITHIN 4-MILE RADIUS

o UNDERLINE RADIUS USED, GIVE POPULATION, AND INDICATE HOW DE-TERMINED:

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

Score 0

DISTANCE TO A SENSITIVE ENVIRONMENT

- O DISTANCE TO 5-ACRE (MINIMUM) COASTAL WETLAND, IF 2 MILES OR LESS: N/A
- o DISTANCE TO 5-ACRE (MINIMUM) FRESH-WATER WETLAND, IF 1 MILE OR LESS:

N/A

O DISTANCE TO CRITICAL HABITAT OF AN ENDANGERED SPECIES, IF 1 MILE OR LESS:

N/A

Score 0

LAND USE

O DISTANCE TO COMMERCIAL/INDUSTRIAL AREA, IF 1 MILE OR LESS:

N/A

O DISTANCE TO NATIONAL OR STATE PARK, FOREST, OR WILDLIFE RESERVE, IF 2 MILES OR LESS:

N/A

o DISTANCE TO RESIDENTIAL AREA, IF 2 MILES OR LESS:

N/A

o DISTANCE TO AGRICULTURAL LAND IN PRODUCTION WITHIN PAST 5 YEARS, IF 1 MILE OR LESS:

N/A

O DISTANCE TO PRIME AGRICULTURAL LAND IN PRODUCTION WITHIN PAST 5 YEARS, IF 2 MILES OR LESS:

N/A

O IS A HISTORIC OR LANDMARK SITE (NATIONAL REGISTER OR HISTORIC PLACES AND NATIONAL NATURAL LANDMARKS) WITHIN THE VIEW OF THE SITE?

N/A

FIRE AND EXPLOSION

- 1 CONTAINMENT
- HAZARDOUS SUBSTANCES PRESENT:
 No documented fire or explosion threat (Ref. 16).
- TYPE OF CONTAINMENT, IF APPLICABLE
 No documented fire or explosion threat.

Score 0

2 WASTE CHARACTERISTICS

DIRECT EVIDENCE

o TYPE OF INSTRUMENT AND MEASUREMENTS:

N/A

Score 0

IGNITABILITY

o COMPOUND USED:

N/A

Score 0

REACTIVITY

o MOST REACTIVE COMPOUND:

N/A

Score 0

INCOMPATIBILITY

MOST INCOMPATIBLE PAIR OF COMPOUNDS:

N/A

HAZARDOUS WASTE QUANTITY

O TOTAL QUANTITY OF HAZARDOUS SUBSTANCES AT THE FACILITY:
N/A

Score 0

BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY: N/A

3 TARGETS

DISTANCE TO NEAREST POPULATION

N/A

Score 0

DISTANCE TO NEAREST BUILDING

N/A

Score 0

DISTANCE TO SENSITIVE ENVIRONMENT

o DISTANCE TO WETLANDS:

N/A

o DISTANCE TO CRITICAL HABITAT:

N/A

LAND USE

O DISTANCE TO COMMERCIAL/INDUSTRIAL AREA, IF 1 MILE OR LESS:

O DISTANCE TO NATIONAL OR STATE PARK, FOREST, OR WILDLIFE RESERVE, IF 2 MILES OR LESS:

N/A

O DISTANCE TO RESIDENTIAL AREA, IF 2 MILES OR LESS:

N/A

O DISTANCE TO AGRICULTURAL LAND IN PRODUCTION WITHIN PAST 5 YEARS, IF 1 MILE OR LESS:

N/A

o DISTANCE TO PRIME AGRICULTURAL LAND IN PRODUCTION WITHIN PAST 5 YEARS, IF 2 MILES OR LESS:

N/A

O IS A HISTORIC OR LANDMARK SITE (NATIONAL REGISTER OR HISTORIC PLACES AND NATIONAL NATURAL LANDMARKS) WITHIN THE VIEW OF THE SITE?

N/A

Score 0

POPULATION WITHIN 2-MILE RADIUS

N/A

Score 0

BUILDINGS WITHIN 2-MILE RADIUS

N/A

DIRECT CONTACT

- 1 OBSERVED INCIDENT
- o DATE, LOCATION, AND PERTINENT DETAILS OF INCIDENT:

No documented direct contact problems have been reported.

Score 0

- 2 ACCESSIBILITY
- o DESCRIBE TYPE OF BARRIER(S):

Low chain gate is located at the end of the access road.

Score 3

- 3 CONTAINMENT
- o TYPE OF CONTAINMENT, IF APPLICABLE:

Two foot clay cap covers the landfill, no leachate outbreaks were observed at the time of inspection.

Score 0

4 WASTE CHARACTERISTICS

TOXICITY

o COMPOUNDS EVALUATED:

Trichloroethylene 2 trans-1,2-dichloroethylene 2 Toluene 2 Vinyl Chloride 3

o COMPOUND WITH HIGHEST SCORE:

Vinyl Chloride 3

5 TARGETS

POPULATION WITHIN ONE-MILE RADIUS

87 homes at 3.8 person = 331 people (REF. USGS topo map)

Score 2

DISTANCE TO CRITICAL HABITAT (OF ENDANGERED SPECIES)

None known of

Score <u>0</u>

