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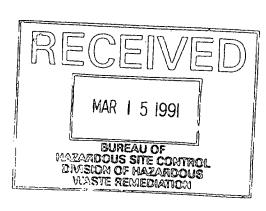
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| Municipal Brownfields - B<br>Superfund - HW<br>Spills - SP<br>ERP - E<br>VCP - V |  |                  |
| BCP - C  |  |                  |

## ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

#### PRELIMINARY SITE ASSESSMENT

Robert Moses Parkway City of Niagara Falls Site No. 932057 Niagara County





# Prepared for: New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233 Thomas C. Jorling, *Commissioner* 

Division of Hazardous Waste Remediation Michael J. O'Toole, Jr., *Director* 

By: E.C. JORDAN CO. Portland, Maine

February 1991

## NYSDEC CONTRACT NO. D002472 NYSDEC WORK ASSIGNMENT NO. D002472-6 E.C. JORDAN CO.

#### FINAL REPORT

TASK 1: DATA RECORDS SEARCH AND ASSESSMENT PRELIMINARY SITE ASSESSMENT

> ROBERT MOSES PARKWAY SITE NO. 932057 NIAGARA COUNTY

> > FEBRUARY 1991

Submitted by:

Elizabeth A. Ryan Project Manager E.C. Jordan Co.

Approved by:

William J. Weber NSSC Program Manager E.C. Jordan Co.

#### NOTICE

This Preliminary Site Assessment report about the Robert Moses Parkway Site (Site No. 932057), located in the City of Niagara Falls, Niagara County, New York, was prepared expressly for the New York State Department of Environmental Conservation (NYSDEC) under the Superfund Standby Contract (No. D002472, Work Assignment No. D002472-6). The purpose of this report is to provide information necessary for NYSDEC to reclassify the site according to the Classes 2, 3, and Delist categories described in Section 2.0 of The conclusions and recommendations in this report this report. represent Jordan's professional judgment and opinion based on present, generally accepted engineering practices for conducting preliminary site characterizations and assessments. Conclusions in this report are based on records reviews, interviews, and site The health-based walkover performed by Jordan personnel. regulatory standards discussed in this report may change in the of environmental contamination that Levels "acceptable" by current standards may not be so in the future.

Information contained in this report may not be suitable for any other use without adaptation for the specific purpose intended. Any such reuse of or reliance on the information, assessments, or conclusions in this report without adaptation will be at the sole risk and liability of the party undertaking the reuse.

#### TABLE OF CONTENTS

| Secti | lon    |                               |                      |               |         |     |         | Ti  | t]        | <u>.e</u> |            |   |   |   |   |   |   |   |   |   | Pa | ge No.           |
|-------|--------|-------------------------------|----------------------|---------------|---------|-----|---------|-----|-----------|-----------|------------|---|---|---|---|---|---|---|---|---|----|------------------|
| 1.0   | EXEC   | JTIVE                         | SUMM                 | ARY.          | •       | •   | •       | •   | •         | •         | •          | • |   | • | • | • | • | • | • |   | •  | 1                |
| 2.0   | PURP   | OSE.                          |                      |               | •       | •   | •       | •   | •         | •         | •          | • | • | • |   | • | • | • | • | • | •  | 5                |
| 3.0   | SCOPI  | E OF V                        | WORK.                |               | •       | •   | •       | •   | •         | •         | •          | • | • | • | • | ٠ | • | • | • | • | •  | 6                |
|       |        | File<br>Site                  |                      |               | •       |     | •       | •   |           | •         | •          |   | • |   | • |   | • | • | • | • |    | 6<br>6           |
| 4.0   | SITE   | ASSES                         | SSMEN                | т             | •       | •   | •       | •   | •         | •         | •          | • | • | • | • | • | • | • | • |   | •  | 7                |
|       | 4.2    | Site<br>Site<br>Site<br>Conta | Topo<br>Hydr         | grapi<br>olog | hy<br>Y |     | .•<br>• | •   |           |           |            | • |   | • | ٠ | • | • | • |   |   | •  | 7<br>7<br>7<br>8 |
| 5.0   |        | SSMEN'<br>RECOMI              |                      |               |         | -   | -       |     |           | •         | •          | • | • |   |   | • | • | • | • |   |    | 10               |
|       |        | Hazai<br>Signi<br>Recoi       | ifica                | nt T          | hre     | eat | : E     | et) | er        | m         | lna        |   |   |   |   |   |   |   |   |   | •  | 10<br>10<br>10   |
| GLOSS | SARY_C | OF ACI                        | RONYM                | S AN          | D 1     | ABE | BRE     | EVI | <u>ra</u> | CIC       | <u> NS</u> | 2 |   |   |   |   |   |   |   |   |    |                  |
| APPEN | NDICE: | <u>S</u>                      |                      |               |         |     |         |     |           |           |            |   |   |   |   |   |   |   |   |   |    |                  |
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| APPEN | DIX (  | 3                             | RESU                 | LTS           | OF      | AN  | IAI     | JYS | ES        | 3         |            |   |   |   |   |   |   |   |   |   |    |                  |

#### LIST OF FIGURES

| Figure No. | Title                         | Page No. |
|------------|-------------------------------|----------|
| 1          | Site Location Map             | 3        |
| C-1        | Monitoring Well Location Plan | C-1      |

#### 1.0 EXECUTIVE SUMMARY

The Robert Moses Parkway Site, Site No. 932057, is located in the City of Niagara Falls, Niagara County, New York (Figure 1). The Parkway was built on reclaimed land along the northern shoreline of the Niagara River. The site, owned by the Power Authority State of New York (PASNY), is under permanent easement to the New York State Department of Transportation (NYSDOT) (Violenti, 1990).

The site came to the attention of New York State Department of Environmental Conservation (NYSDEC) in 1978, after receiving a letter of complaint from a private citizen. This letter claimed that during the construction of the Parkway (circa 1963) 100 containers of unknown waste materials from Hooker Chemical were allegedly buried in trenches between the breakwall and the parkway. The location of the alleged disposal of these containers is not known.

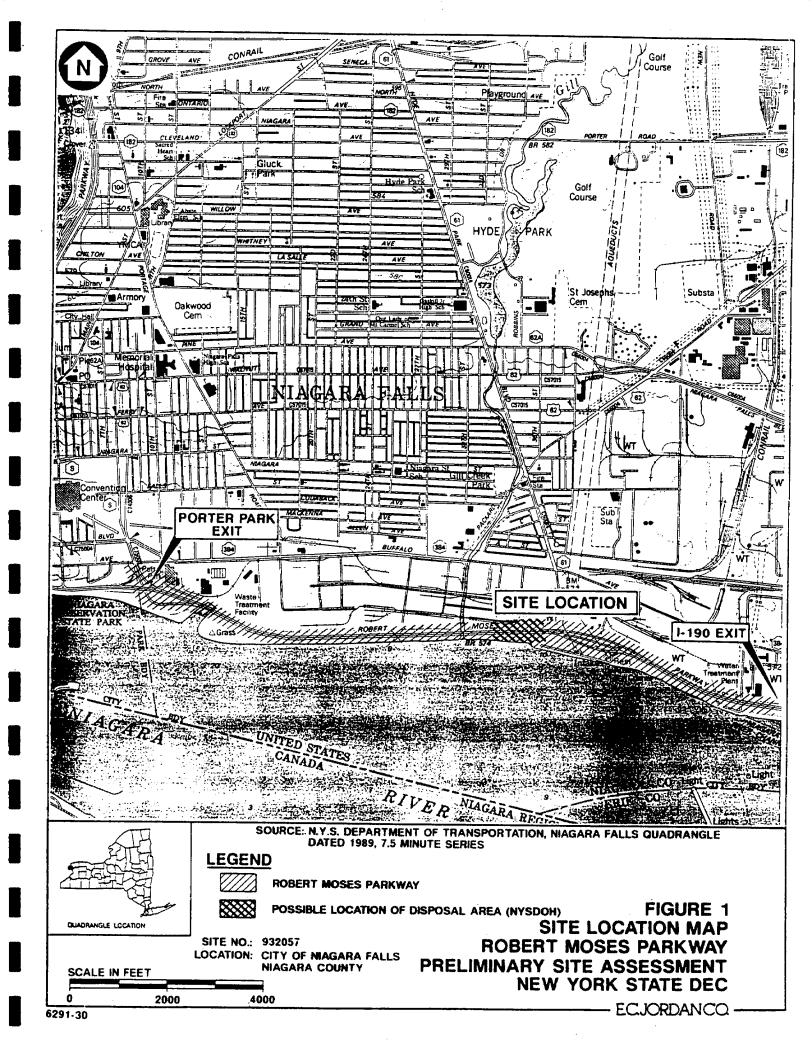
Three previous site inspections have been conducted at this site. In 1978, NYSDEC performed a site inspection and stated that there was insufficient evidence to draw any conclusions regarding the disposal of waste containers. In 1983, Engineering Science (ES) conducted a Phase I investigation and recommended activities be conducted to determine the location of the alleged buried containers. A geophysical investigation of this area was proposed by ES; however, there is no evidence that this investigation was ever performed. A letter to ES from NYSDEC terminating further geophysical activities was located in the file. This letter states that the "possibility [exists] that the geophysical readings of the magnetic anomaly were influenced by construction emplacements in the area" (Grikstas, 1985). the New York State Department of Health (NYSDOH) conducted a site investigation and could not confirm the location of the alleged There was no evidence of containers or burial buried containers. activities noted during any of these site investigations.

E.C. Jordan (Jordan) conducted a data and file review and wind shield survey of the Robert Moses Parkway Site in July 1990. Based on information collected and reviewed, Jordan was unable to document the disposal of hazardous waste at this site. No visible evidence of the alleged containers or disposal area (e.g., no evidence of slumping of fill material) was noted during the wind shield survey. In addition, no known public health or environmental threats were identified that could be related to the alleged container disposal at this site.

Groundwater contamination has been documented beneath the Robert Moses Parkway; however, this contamination is associated with hazardous waste disposal activities at chemical facilities abutting the site. Studies are currently underway to assess the groundwater contamination in this area from these facilities (Locey, 1990).

Based on available information, Jordan cannot recommend changing the classification of the Robert Moses Parkway Site on the New York State Registry of Inactive Hazardous Waste Disposal Sites. obtain data to document the alleged burial of waste containers, and confirm or deny hazardous waste disposal, Preliminary Assessment (PSA) Task 3 activities should be initiated. recommends conducting a geophysical investigation of the area to identify the location of the alleged buried containers. proposed location for the geophysical survey is the parkway between the I-190 interchange and Quay Street exit. Based on the interpretation of these results, borings and/or test pits are recommended to sample the soils in the disposal area. These soils should be analyzed for characteristics of Extraction Procedure (EP) toxicity, corrosivity, ignitability, and reactivity, and the United States Environmental Protection Agency (USEPA) Target Compound List (TCL) of organic and inorganic compounds.

Based on the results of Task 3 activities, NYSDEC Central Office will determine if PSA Task 4 activities should be initiated to determine if the waste disposed on-site present a significant threat to public health or the environment. Jordan recommends installing monitoring wells and analyzing the groundwater for the USEPA TCL of organic and inorganic compounds. One well should be placed upgradient and two wells immediately downgradient of the disposal area. Results of these analyses should be compared to groundwater and drinking water standards to assess the potential risks to public health and the environment. The groundwater monitoring program should use the information available from ongoing Remedial Investigations in this area to evaluate background concentrations and/or potential groundwater contamination beneath the site from other sources.





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

Copy—REGION Copy—DEE Copy—DOH Copy—PREPARER

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

|                          | OI MAG                                  | 114 111/140/11115  | WAG1                             | L DIOPOOAL           | . 01160                               |
|--------------------------|---|--|----------------------------------|----------------------|---------------------------------------|
| 1. SITE NAME<br>Robert N | loses Parkway                           | 2. SITE NO.<br>932057  | 3: TOWN<br>Niagara F             | alls, NY             | 4. COUNTY<br>Nigara                   |
| 5. REGION                | 6. CLASSIFICATION  Current XX /Proposet | 7. ACTIVIT   |                                  | Delist XX            | Modify                                |
| 8a. DESCRIBE             | LOCATION OF SITE (Attach U.             |  |                                  |                      | Modify                                |
|                          |   |  |                                  |                      |                                       |
| The site                 | is currently ope                        | rated as a pub   | lic highway                      | y and is loc         | ated adjacent to the                  |
| Niagara                  | River in Niagara                        | Falls, New Yor   | k. Approx                        | imately 100 v        | waste containers were                 |
| arregedr                 | y buried beneath                        | tne parkway.   |                                  |                      |                                       |
|                          | <sub>e</sub> <u>Niagara Falls</u> c     |  |                                  |                      | d. Tax Map Number                     |
| 9a BRIEFLY DE            | SCRIBE THE SITE (Altach site            | plan showing disposal/s  | sampling locations               | )                    |                                       |
| The site                 | is a public high                        | way located ad   | jacent to                        | the Niagara 1        | River in Niagara Falls,               |
| New York                 | <ul> <li>During constru</li> </ul>      | ction, waste c   | ontainers v                      | were alleged:        | ly buried beneath the                 |
| site. N                  | o evidence of haz                       | ardous waste d   | isposal has                      | s been observ        | ved during four site                  |
| investig                 | ations.                                 |  |                                  |                      | •                                     |
|                          |   |  |                                  |                      |                                       |
| b. Area 4                | miles some                              | EPA ID Number NYD  | 038635884                        | c. PA/SI             | ☑Yes □ No                             |
| e. Complete              |   | nase II PSA  | Sampling                         |                      |                                       |
| 10. BRIEFLY LIS          | ST THE TYPE AND QUANTITY                | OF THE HAZARDOUS W   | ASTE AND THE D                   | ATES THAT IT WAS     | DISPOSED OF AT THIS SITE              |
| Annrowin                 | otolu 100 55 coll.                      |  | •                                |                      |                                       |
| CONSTRUC                 | ately 100 55-gallo                      | on waste conta:<br>- Moses Parkwa  | iners were                       | allegedly bu         | ried during the<br>Llegedly were from |
| the Hook                 | er Chemical Co.                         | noses rankwa   | y. These t                       | containers a         | liegedly were from                    |
|                          |   |  | •                                |                      | •                                     |
| 11a. SUMMARIZ            | ED SAMPLING DATA ATTACH                 | ED   |                                  |                      |                                       |
| ☐ Air                    | ☐ Groundwater ☐ S                       | urface Water S   | ioil 🔲 Wast                      | e 🗆 EP Tox           | TCLP.                                 |
| h Liet contr             | ravened parameters and value:           |  |                                  |                      |                                       |
| u. List come             | avened parameters and value:            |  |                                  |                      |                                       |
|                          |   | •  |                                  |                      |                                       |
| No sample                | es were collected                       | as part of the   | e Task l PS                      | A activities         | <b>5.</b>                             |
|                          |   |  |                                  |                      |                                       |
| 12. SITE IMPACT          | DATA                                    |  |                                  |                      |                                       |
| a. Nearest surfa         | ce water: Distance <u>0</u>             | ft. Direction _  | South                            | Clas                 | sification AA                         |
| b. Nearest groun         | idwater: Depth 10 ft.                   | Flow Direction   | South                            | Sole Sou             | rce Primary Principal                 |
| c. Nearest water         | supply: Distance0                       | ft. Direction  | South_                           | •                    | Active X Yes No                       |
| d. Nearest buildi        | ing: Distance 500 ft.                   | Direction Nort   | :h                               | Us                   | e Industrial/Commercial               |
| e. Crops or livest       | tock on site?                           | X No   | , j. Within a S                  | State Economic Devel | opment Zone? Yes XNo                  |
| f. Exposed hazar         | dous waste?                             | No No  | ŀ                                |                      | Health Model Score Unknown            |
| g. Controlled site       |   |  | 1                                | 2; Priority Category |                                       |
|                          |   | Yes No   | <b> </b> -                       | re Unknown           |                                       |
|                          | cial status fish or wildlife reso       |  | No n. Significar                 |                      | No 🐷 Unknown                          |
| 13. SITE OWNER           |   | 14. ADDRESS  | 2 NO: II. Significan             | it inreat Lifes      | 15. TELEPHONE NUMBER                  |
|                          | ority State of NY                       | The second secon | ston Rd.                         | Niagara Fall         | \$ (716)278-1775                      |
| 16. PREPARER             |   |  |                                  |                      |                                       |
| Ellza                    | ibeth A. Ryan                           |  | oject Mana<br>e and Ospanization | ger/E.C. Jor         | dan Co.                               |
| Decem                    | ber 20, 1990                            | reality. Title   | COA                              | n                    |                                       |
| Da                       |   | ******   | 9                                | Signatu              | re                                    |
| 17. APPROVED             |   |  |                                  |                      |                                       |
|                          | <del></del>                             | Name Title   | and Organization                 |                      |                                       |
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#### 2.0 PURPOSE

The purpose of a PSA is to provide the information necessary for NYSDEC to adequately categorize the site according to the following classifications:

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

PSA Task 1, Data Records Search and Assessment, for the Robert Moses Parkway Site, Site No. 932057, in Niagara Falls, New York was conducted by Jordan under the NYSDEC Superfund Standby Contract (Contract No. D002472, Work Assignment No. D002472-6).

The Robert Moses Parkway Site is a suspected inactive hazardous waste site recognized by NYSDEC. This site is classified as Class 2a because there is insufficient information to document hazardous waste disposal and/or assess the significance of potential risk to public health or the environment.

#### 3.0 SCOPE OF WORK

PSA Task 1 consists of a file review/records search and a site walkover. Specific activities performed for the Robert Moses Parkway Site under this task are described in the following subsections.

#### 3.1 File Review

The Jordan project team began collecting information on the Robert Moses Parkway Site at the NYSDEC Central office in Albany, New York between June 25 and 27, 1990. In addition, Jordan personnel reviewed files and obtained site information at NYSDOH, the U.S. Geologic Survey, U.S. Fish and Wildlife Service, the NYSDOT, and the New York State Geologic Survey.

A review of the site files, provided by Abul Barkat, Environmental Engineer, at NYSDEC Region 9 Office, was conducted on July 24, 1990. On July 25, 1990, the Jordan team visited the Niagara Falls City Hall and the Niagara County Registry of Deeds to gather additional site information on property ownership, land use, water supply, and water quality.

#### 3.2 Site Visit

On July 25, 1990 a site visit was conducted at the Robert Moses Parkway Site. The following attended the visit:

| Name             | Title                 | Affiliation     |  |  |
|------------------|-----------------------|-----------------|--|--|
| Kathleen Maguire | Geotechnical Engineer | E.C. Jordan Co. |  |  |
| Eric Sandin      | Hydrologist           | E.C. Jordan Co. |  |  |

Since the site is currently operated as a public highway, the site visit consisted of a windshield survey. The site visit began at 8:30 a.m. The Jordan team entered the eastern end of the parkway at I-190 and proceeded west to the Porter Park exit, inspecting the west bound lanes of the parkway. At Porter Park, Jordan proceeded east on the Parkway returning to I-190 inspecting the east bound lanes. The Jordan team then proceeded east on Buffalo Avenue to inspect the facilities abutting the parkway to the north. No air monitoring equipment was used during the site visit. The site visit was completed at 10:00 a.m.

#### 4.0 SITE ASSESSMENT

The following sections describe the information gained through the records search and windshield survey of the Robert Moses Parkway Site.

#### 4.1 Site History

The Robert Moses Parkway, Site Number 932057, is located in the City of Niagara Falls, Niagara County, New York. The site is owned by the PASNY and is under permanent easement to and maintained by NYSDOT (Violenti, 1990). During the construction of the parkway (circa, 1963) approximately 100 containers of unknown waste materials from Hooker Chemical were allegedly buried in trenches between the breakwall and the parkway (NYSDEC, 1978). The exact location of these containers is not known. No visible evidence of any containers was noted during site visits conducted by NYSDEC (1978), ES (1983), NYSDOH (1985) and Jordan (1990).

The Parkway was constructed on reclaimed land consisting of fill material obtained from the Niagara Power Project excavation. The shoreline of the Niagara River was extended up to several hundred feet into the river, and the parkway was constructed on top of this filled area.

#### 4.2 Site Topography

The exact location of the alleged disposal area is not known; however, it is suspected to be beneath the Robert Moses Parkway between the Sewage Treatment Plant and the I-190 exit (ES, 1984). This area is across from the present Occidental Chemical Company Plant. The site borders the Niagara River to the south and an industrial area consisting of chemical companies to the north (Figure 1). The site has a slope of 9.0 percent with the Niagara River being the nearest downslope surface water (ES, 1984).

The land-use within one-half mile of the site is primarily commercial and industrial. There are residential areas east, north and west of the site. The drinking water for the town of Niagara Falls is supplied from the Niagara River.

#### 4.3 Site Hydrology

The Robert Moses Parkway site is bordered on the south by the Niagara River. The River is approximately 1 mile wide and 20 feet deep where it borders the site.

The parkway was constructed on reclaimed land with a fill thickness in excess of 20 feet in several areas. The permeability of this material is estimated to be greater than 10<sup>-3</sup> centimeters per second (cm/sec). A lacustrine layered silt and clay deposit underlies the

fill. This unit is underlain by silty and sandy till which rests on top of the Lockport Dolomite bedrock. The permeability of the Lockport Dolomite formation is between 10<sup>4</sup> to 10<sup>6</sup> cm/sec (ES, 1984). The total thickness of natural soils under the parkway is approximately 15 feet. A shallow aquifer exists within the fill materials and the natural soils. Flow of the groundwater through this aquifer is to the south into the Niagara River (USGS, 1985).

Groundwater in the overburden is expected to be approximately 10 feet below ground surface. General groundwater flow in the unconsolidated aquifer is towards the Niagara River. In the deeper bedrock aquifer the direction of groundwater flow is to the northnorthwest, and is influenced by the drinking water intakes and the head loss above and below Niagara Falls.

The Buckhorn Island State Park, located on Buckhorn Island, approximately 1.5 miles south-south-west from the site contains three state regulated wetlands (TW-18, TW-19, and TW-20). The Buckhorn Island Tern Colony is also located on Buckhorn Island and serves as a major nesting site for the common tern (Sterna hirundo), a threatened species (USFW, 1980).

#### 4.4 Contamination Assessment

The file review and wind shield survey revealed little quantitative data to document the disposal of hazardous wastes at the Robert Moses Parkway site. In 1989, NYSDEC collected one soil sample of a purple crumbly solid material found on-site a few inches below ground surface. This sample was collected approximately 38 feet southwest of Highway Marker 957A. This soil was uncovered during activities conducted in support of an remedial investigation of groundwater contamination in this area. sample was analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, and for characteristics of EP toxicity. The sample was not analyzed for characteristics of corrosivity, ignitability, or reactivity. Results of these analyses are presented in Appendix C. detection limit for the VOC, SVOC, and pesticide analyses were high (up to 4.8 parts per million [ppm]) precluding a determination of low level contamination in the sample. Elevated levels (up to 46 ppm) of unknown compounds were detected in the sample. The sample did not fail the EP toxicity test. Since no containers observed in the area where the sample was collected, Since no containers were relationship between this sample and the alleged buried containers is not known.

Groundwater sampling in the vicinity of the Robert Moses Parkway Site is performed on a regular basis in support of other investigations of hazardous waste disposal in the area. There is an ongoing Remedial Investigation of the "S-area" landfill located at the eastern end of the parkway. A plume of contaminated

groundwater has been documented emanating from this landfill, flowing towards the Robert Moses Parkway Site, and discharging to the Niagara River. Organic compounds have been detected in the groundwater near the site at concentrations in excess of New York state drinking water and ambient drinking water quality standards. Additional groundwater sampling has occurred west of the drinking water intakes, opposite the DuPont Plant. These data also show elevated levels of VOCs. (These data are presented in Appendix C.) Because of the poor groundwater quality upgradient of the site, it is difficult to assess the potential threat to public health or the environment from the alleged buried containers at the Robert Moses Parkway Site.

#### 5.0 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

#### 5.1 Hazardous Waste Deposition

Information collected by Jordan did not confirm hazardous waste deposition at the Robert Moses Parkway site. Unknown contaminants in concentrations up to 46 ppm were detected in a single surface soil sample collected in 1989. However, the relationship between the soil sampling and the alleged buried containers cannot be made since there was no evidence of buried containers in the area where the soil was collected.

Jordan was unable to document any disposal of hazardous waste at this site. No visible evidence of containers or the alleged disposal area (i.e. no evidence of slumping of fill material) was noted during the site inspection. A geophysical investigation of this area was proposed by ES in 1984. Site files contain a letter from NYSDEC terminating further geophysical activities in the area due in part to the "possibility that the geophysical readings of the magnetic anomaly were influenced by construction emplacements in the area" (Grikstas, 1985).

Chemical analyses of samples taken from monitoring wells along the parkway indicate significant groundwater contamination. VOCs were detected in excess of New York State drinking water and ambient water quality standards. A plume of contaminated groundwater, upgradient of the site, has been documented and is associated with the "S-area" landfill site. These monitoring wells and sample analyses are part of an ongoing Remedial Investigation of this landfill. Because of the adverse groundwater quality upgradient of the site, it is not possible to determine if the contamination detected beneath the Robert Moses Parkway site is from the alleged buried waste containers or has migrated from disposal areas north of the site.

#### 5.2 Significant Threat Determination

There are no known public health or environmental threats related to the alleged disposal actions at this site. The chemical contamination detected in groundwater near the Robert Moses site is attributed to disposal activities occurring north of the site. It would be difficult to assess the impact of the alleged containers on groundwater quality because of the significant contamination from upgradient sources.

#### 5.3 Recommendations

Based on available information Jordan cannot recommend changing the classification of the Robert Moses Parkway Site from the New York State Registry of Inactive Hazardous Waste Sites. To obtain data to document the alleged burial of waste containers, and confirm or deny hazardous waste disposal, PSA Task 3 activities should be

initiated. Jordan recommends conducting a geophysical investigation of the area to identify the location of the buried waste containers. The proposed location for the geophysical survey is the parkway between the I-190 interchange and the Quay Street exit. Based on the interpretation of these results, borings and/or test pits are recommended to sample the soil in the disposal area. These soils should be analyzed for characteristics of EP toxicity, corrosivity, ignitability, and reactivity, and the USEPA TCL of organic and inorganic compounds.

Based on the results of Task 3 activities, NYSDEC Central Office will determine if PSA Task 4 activities are warranted. To determine if the wastes disposed of on-site present a significant threat to public health or the environment, Jordan recommends installing monitoring wells and analyzing the groundwater for the USEPA TCL of organic and inorganic compounds. One well should be placed immediately upgradient and two wells downgradient of the disposal area. Results of these analyses should be compared to groundwater and drinking water standards to assess the potential risks to public health and the environment. The groundwater monitoring program should also utilize the information available from Remedial Investigations currently in progress in this area. This will provide information on background concentrations and potential groundwater contamination from other sources.

#### GLOSSARY OF ACRONYMS AND ABBREVIATIONS

cm/sec centimeters per second

EP Extraction Procedure
ES Engineering Science

Jordan E.C. Jordan Co.

NYSDEC New York State Department of Environmental Conservation

NYSDOH New York State Department of Health

NYSDOT New York State Department of Transportation

PASNY Power Authority State of New York

ppm parts per million

PSA Preliminary Site Assessment

SVOC semi-volatile organic compounds

TCL Target Compound List

USEPA U.S. Environmental Protection Agency

VOC volatile organic compounds

APPENDIX A REFERENCES

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APPENDIX B

SITE INSPECTION REPORT (USEPA FORM 2070-13)

### **₽ EPA**

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I.IDENTIFICATION

01 SITE NUMBER

|  |                                  |            |                               |   |           | 01 31              | AIE                          | 01 2715          | NOWREK   |                      |  |
|--|----------------------------------|------------|-------------------------------|---|-----------|--------------------|------------------------------|------------------|--|----------------------|--|
|  | T 1 - SITE LOCATION              | AND INS    | SPECTION INFO                 | DRMATION  |           | New Y              | ork                          | D038635          | 884  |                      |  |
| II. SITE NAME AND LO   |                                  |            |                               | T   |           |                    |                              |                  |  |                      |  |
|  | ommon, or descriptive name       | e of site) |                               | 02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER |           |                    |                              |                  |  |                      |  |
| Robert Moses Parkway   | y                                |            |                               | Robert Mo   |           |                    |                              |                  |  | <u></u>              |  |
| 03 CITY  |                                  |            |                               | 04 STATE  | 05 ZIP (  | ZIP CODE 06 COUNTY |                              |                  | 07 COUNTY<br>CODE                              | 08 CONG.<br>DIST     |  |
| Niagara Falls  |                                  |            |                               | New York  |           |                    | Niagara                      |                  | 063  | 36                   |  |
| 09 COORDINATES LATITUDE LONGITUDE A. PRIVATE B. FEDERAL X C. STATE D. COUNTY F. OTHER G. UNKNOWN |                                  |            |                               |   |           | E. MUNI            | CIPAL                        |                  |  |                      |  |
| III. INSPECTION INFO   | ORMATION                         |            |                               |   |           |                    |                              |                  |  |                      |  |
| 01 DATE OF INSPECTION 7 / 25 / 90 MONTH DAY YEA  | ACTIVE                           | O3 YEA     | RS OF OPERATION 19            | 63  | 1<br>EN   | 963<br>ID I NG     | YEAR                         | UNKNOWN          | · <u>- · · · · · · · · · · · · · · · · · ·</u> |                      |  |
| 04 AGENCY PERFORMING   | INSPECTION (Check all CONTRACTOR | that apply | /                             | C MUNIT   |           |                    |                              |                  |  |                      |  |
| _ E. STATE X F. STA  | (N                               | ame of fir | m)<br>lan Co.                 |   |           |                    | NICIPAL CONTR                | ACTOR _          | (Name of fir                                   | rm)                  |  |
|  | (                                | Name of f  | irm)                          | -   | -         |                    | (Spe                         | icify)           |  |                      |  |
| 05 CHIEF INSPECTOR<br>Kathleen Maguire   |                                  |            | TITLE<br>otechnical Eng       | ineer   |           |                    | ORGANIZATION<br>. Jordan Co. |                  | 08 TELER<br>(207) 77                           | PHONE NO.<br>75-5401 |  |
| 09 OTHER INSPECTORS<br>Eric Sandin   |                                  |            | TITLE<br>jineer/Scienti       | st  |           |                    | ORGANIZATION<br>Jordan Co.   | -                | 12 TELEPHONE NO.<br>(207) 775-5401             |                      |  |
|  |                                  |            |                               |   |           |                    |                              |                  | ( )  |                      |  |
|  |                                  |            |                               |   |           |                    |                              |                  | ( )  |                      |  |
|  |                                  |            |                               |   |           |                    |                              |                  | ( )  |                      |  |
|  |                                  |            | *.:                           |   |           |                    |                              |                  | ( )  | ·········            |  |
| 13 SITE REPRESENTATI   | VES INTERVIEWED                  | 14         | 14 TITLE 15 ADDRESS           |   |           |                    |                              | 16 TELEPHONE NO. |  |                      |  |
| Dario Violenti   |                                  |            |                               | New York !  | State Dep | artme              | ent of Transpo               | ortation         | on (716) 278-1775                              |                      |  |
|  |                                  |            |                               |   |           |                    |                              |                  | ( )  |                      |  |
|  |                                  |            |                               |   |           |                    |                              |                  | ( )  |                      |  |
| <del></del>  |                                  |            |                               |   |           |                    | -                            |                  | ( )  |                      |  |
|  |                                  |            |                               |   |           |                    | -                            |                  | ( )  |                      |  |
|  |                                  |            |                               |   |           |                    |                              |                  | ( )  |                      |  |
| 17 ACCESS GAINED BY  | 18 TIME OF INSPECT               | ON 19      | WEATHER CONDI                 | TIONS   |           |                    |                              |                  | <u> </u>                                       |                      |  |
| (Check one) X PERMISSION  WARRANT  | 8:30 am                          |            | Clear, Su                     | nny, 70° F  |           |                    |                              |                  |  |                      |  |
| IV. INFORMATION AVAI   | LABLE FROM                       |            |                               |   |           |                    |                              |                  |  |                      |  |
| 01 CONTACT<br>Sri Maddineni  |                                  |            | 02 OF (Agency<br>New York Sta | /Organization)<br>te Departme                         | ent of En | viron              | mental Conser                | vation           | 03 TELEPI<br>(518) 457                         |                      |  |
| 04 PERSON RESPONSIBL   | E FOR SITE INSPECTION            | N FORM     | 05 AGENCY                     | 06 OR   | GANIZATIO | N                  | 07 TELEPHO                   | NE NO.           | 03 DATE  |                      |  |
| Elizabeth Ryan   |                                  |            |                               | E.C.  | Jordan Co | ١.                 | (207) 775-                   | 5401             |  | 1 / 90<br>AY YEAR    |  |
| EPA FORM 2070-13   | (7-81)                           |            | ·                             |   |           |                    |                              |                  | <del></del>                                    |                      |  |

## **S** EPA

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I.IDENTIFICATION

| ı | 0 | 1 | S | T | A | Ţ | Ε |
|---|---|---|---|---|---|---|---|
| ŀ |   |   |   |   |   |   |   |

| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |  | PART                       | 2 . WAS    | STE INFORM   | AATION            |                     | Nou   | Vank                                  | DO7047E994      | <b>DER</b>  |
|---------------------------------------|--|----------------------------|------------|--|-------------------|---------------------|---|---------------------------------------|-----------------|---|
| II. WAST                              | TE STATES,                                   | QUANTITIES, AND            |            |  |                   |                     | Меж   | York                                  | D038635884      |   |
| 01 PHYSIC                             |  | (Check all that            | 02 W       | ASTE QUANTI  | TY AT SITE        | 03 W                | ASTE CHARAC   | TERISTICS (Check                      | all that apply) | <del></del>   |
| A. SOL<br>B. POW<br>C. SLU            | .ID<br>/DER, FINES<br>/DGE<br>IERUNKN<br>(Sr | E. SLURRY F. LIQUID G. GAS | CUE        | Acesures of we<br>ist be independ<br>TONS —<br>BIC YARDS —<br>OF DRUMS — | dent)             | - A                 | . TOXIC<br>. CORROSIVE<br>. RADIOACTIV<br>. PERSISTEN | VE G.FLAMMAR                          | BLE L. II       | IGHLY VOLATILE<br>XPLOSIVE<br>EACTIVE<br>NCOMPATIBLE<br>OT APPLICABLE |
| III. WAS                              |  |                            |            | <del></del>  | <u></u>           |                     |   |                                       |                 | <del></del>   |
| CATEGORY                              | SUBSTANCE                                    | NAME                       | 01 GR      | OSS AMOUNT   | 02 UNIT O         | F MEASURE           | 03 COMMENT  | s                                     |                 |   |
| SLU                                   | SLUDGE                                       |                            |            |  | <u> </u>          | <del></del>         | <del> </del>  |                                       |                 |   |
| OLW                                   | OILY WASTE                                   | E                          |            |  |                   |                     |   |                                       | <del></del> -   | <del></del>   |
| SOL                                   | SOLVENTS                                     |                            |            |  |                   |                     |   |                                       |                 |   |
| PSD                                   | PESTICIDES                                   | S                          |            |  |                   |                     |   | · · · · · · · · · · · · · · · · · · · |                 |   |
| осс                                   | OTHER ORG/                                   | ANIC CHEMICALS             | 100        |  | Drums             |                     | Unknown co  | ontents suspecte                      | ed Hooker che   | emical waste  |
| 10C                                   | INORGANIC                                    | CHEMICALS                  |            |  |                   |                     |   |                                       |                 |   |
| ACD                                   | ACIDS  |                            |            |  |                   |                     |   |                                       |                 |   |
| BAS                                   | BASES  |                            |            |  |                   |                     |   |                                       |                 |   |
| MES                                   | HEAVY META                                   |                            |            |  |                   |                     |   |                                       |                 |   |
| <del></del>                           |  | TANCES (See Apper          |            | 1  |                   |                     |   |                                       |                 |   |
| 01 CATEGO                             | <u></u> -                                    | 02 SUBSTANCE               | NAME       | 03 CAS NUM   | MBER              | 04/STORAC<br>METHOD | GE/DISPOSAL   | 05 CONCENTRATI                        |                 | EASURE OF<br>ENTRATION  |
|                                       |  | Unknown                    |            |  |                   | drums               |   | unknown                               |                 |   |
|                                       |  |                            |            |  |                   |                     |   |                                       | <del></del>     |   |
|                                       |  |                            |            |  |                   |                     |   |                                       |                 | · · · · · · · · · · · · · · · · · · ·                                 |
|                                       |  |                            |            |  |                   |                     |   |                                       |                 |   |
|                                       |  |                            |            |  |                   |                     |   |                                       |                 |   |
|                                       |  |                            |            |  |                   |                     |   |                                       |                 |   |
|                                       |  |                            |            |  |                   |                     |   |                                       |                 |   |
|                                       |  |                            |            |  |                   |                     |   |                                       |                 |   |
|                                       |  |                            |            |  |                   |                     |   |                                       |                 |   |
|                                       |  |                            |            |  |                   |                     |   |                                       |                 |   |
|                                       |  |                            |            |  |                   |                     |   |                                       |                 |   |
|                                       |  |                            |            |  |                   |                     |   |                                       |                 |   |
|                                       |  |                            |            |  |                   |                     |   |                                       |                 |   |
|                                       |  |                            |            |  |                   |                     |   |                                       |                 |   |
| ļ                                     | <del></del>                                  |                            |            | <u> </u>   |                   |                     |   |                                       |                 |   |
|                                       |  |                            |            |  |                   |                     |   |                                       |                 |   |
|                                       |  | Appendix for CAS Nu        | (aredmi    |  |                   |                     |   |                                       |                 |   |
| CATEGOR                               |  | EEDSTOCK NAME              |            | 02 0   | CAS NUMBER        | CATEGO              | RY O1 FE  | EDSTOCK NAME                          |                 | 02 CAS NUMBER   |
| FDS                                   | N/A  |                            |            |  |                   | FDS                 |   |                                       |                 |   |
| FDS                                   | <del></del>                                  |                            |            |  |                   | FDS                 |   |                                       |                 |   |
| FDS                                   | $\longrightarrow$                            |                            |            |  |                   | FDS                 |   |                                       |                 |   |
| FDS                                   |  |                            |            |  |                   | FDS                 |   |                                       |                 | ļ   |
| VI. SOUR                              | CES OF INF                                   | ORMATION (Cite s           | pecific re | aferences, e.g.,   | , state files, sa | ample analysis      | a, reports)   |                                       |                 |   |
| Preliminar                            | y Site Ass                                   | sessment Report,           | , Janua    | ry 1991, E.  | .C. Jordan        | Co., and r          | references  | cited therein.                        |                 | '   |

## **Ş** EPA

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I.IDENTIFICATION

01 STATE

01 SITE NUMBER

| PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS   | New York        | D03863          | 5884          |  |  |  |  |  |  |
|--|-----------------|-----------------|---------------|--|--|--|--|--|--|
| II. HAZARDOUS CONDITIONS AND INCIDENTS   |                 |                 |               |  |  |  |  |  |  |
| 01 X A. GROUNDWATER CONTAMINATION 02 OBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION                                      |                 | X POTENTIAL     | ALLEGED       |  |  |  |  |  |  |
| Potential for groundwater contamination if the alleged buried drums contains   | ed hazardous co | onstituents and | d leaked.     |  |  |  |  |  |  |
| 01 X B. SURFACE WATER CONTAMINATION 02 OBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 3,000 04 NARRATIVE DESCRIPTION                              | )               | X POTENTIAL     | ALLEGED       |  |  |  |  |  |  |
| Site is located adjacent to Niagara River. Potential for surface water con hazardous constituents and leaked. Shallow groundwater flow is towards the  |                 | the alleged dru | ans contained |  |  |  |  |  |  |
| 01 C. CONTAMINATION OF AIR 02 OBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION   | )               | _ POTENTIAL _   | ALLEGED       |  |  |  |  |  |  |
| N/A - Drums were allegedly burried.  |                 |                 |               |  |  |  |  |  |  |
| 01 D. FIRE/EXPLOSIVE CONDITIONS 02 OBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION  | )               | POTENTIAL _     | ALLEGED       |  |  |  |  |  |  |
| N/A - Drums were allegedly buried.   |                 |                 |               |  |  |  |  |  |  |
| 01 E. DIRECT CONTACT 02 OBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION   | )               | POTENTIAL       | _ ALLEGED     |  |  |  |  |  |  |
| N/A - Drums were allegedly buried.   |                 |                 |               |  |  |  |  |  |  |
| 01 X F. CONTAMINATION OF SOIL 03 POPULATION POTENTIALLY AFFECTED: 3,000 04 WARRATIVE DESCRIPTION   | )               | X POTENTIAL     | _ ALLEGED     |  |  |  |  |  |  |
| Potential for alleged buried drums to leak.  |                 |                 |               |  |  |  |  |  |  |
| 01 X G. DRINKING WATER CONTAMINATION 02 OBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: unknown 04 WARRATIVE DESCRIPTION                           | <b></b> >       | X POTENTIAL     | ALLEGED       |  |  |  |  |  |  |
| Potential for drinking water contamination if alleged buried drums contain groundwater flow is towards the Niagara River which is used as a drinking w |                 | tituents and lo | eak. Shallow  |  |  |  |  |  |  |
| 01 H. WORKER EXPOSURE/INJURY 02 OBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 04 WARRATIVE DESCRIPTION   | )               | POTENTIAL .     | ALLEGED       |  |  |  |  |  |  |
| N/A  |                 |                 |               |  |  |  |  |  |  |
| 01 I. POPULATION EXPOSURE/INJURY 02 OBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION                                       | >               | POTENTIAL .     | _ ALLEGED     |  |  |  |  |  |  |
| N/A  |                 |                 |               |  |  |  |  |  |  |

## **₽ EPA**

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

01 STATE

I.IDENTIFICATION

01 SITE NUMBER

| A LI A   |  | Na. Vani         | DOZDAZEGOA       |  |  |  |  |  |  |
|--|--|------------------|------------------|--|--|--|--|--|--|
| PART 3 - DESCRIPTION OF HAZARDOUS CONDITION  | NS AND INCIDENTS                               | New York         | 0038635884       |  |  |  |  |  |  |
| 11. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)   |  |                  |                  |  |  |  |  |  |  |
| 01 J. DAMAGE TO FLORA<br>04 NARRATIVE DESCRIPTION  | 02 _ OBSERVED (DATE:                           | ) POTEN          | MITIAL _ ALLEGED |  |  |  |  |  |  |
| None observed  |  |                  |                  |  |  |  |  |  |  |
| 01 K. DAMAGE TO FAUNA<br>04 NARRATIVE DESCRIPTION (Include name(s) of species)   | 02 _ OBSERVED (DATE:                           | ) POTEM          | ITIAL ALLEGED    |  |  |  |  |  |  |
| N/A - alleged drums are burried.   |  |                  |                  |  |  |  |  |  |  |
| D1 X L. CONTAMINATION OF FOOD CHAIN<br>04 NARRATIVE DESCRIPTION  | 02 _ OBSERVED (DATE:                           | ) <u>X</u> POTEN | ITIALALLEGED     |  |  |  |  |  |  |
| Unknown. Niagara River is used for recreational fish   | ing.   |                  |                  |  |  |  |  |  |  |
| 01 X M. UNSTABLE CONTAINMENT OF WASTES   | 02 _ OBSERVED (DATE:                           | ) <u>X</u> POTEN | ITIALALLEGED     |  |  |  |  |  |  |
| (Spills/Runoff/Standing liquids, Leeking drums) 03 POPULATION POTENTIALLY AFFECTED:  | 04 NARRATIVE DESCRIPTION                       |                  |                  |  |  |  |  |  |  |
| Potential for alleged drums to leak.   | *  |                  |                  |  |  |  |  |  |  |
| 01 N. DAMAGE TO OFFSITE PROPERTY 03 POPULATION POTENTIALLY AFFECTED:   | 02 OBSERVED (DATE:<br>04 NARRATIVE DESCRIPTION | )POTEM           | ITIAL ALLEGED    |  |  |  |  |  |  |
| N/A  |  |                  |                  |  |  |  |  |  |  |
| 01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS<br>03 POPULATION POTENTIALLY AFFECTED:  | 02 OBSERVED (DATE:<br>04 NARRATIVE DESCRIPTION | ) POTEN          | TTAL ALLEGED     |  |  |  |  |  |  |
| N/A  |  |                  |                  |  |  |  |  |  |  |
| O1 P. ILLEGAL/UNAUTHORIZED DUMPING O3 POPULATION POTENTIALLY AFFECTED:   | 02 OBSERVED (DATE:<br>04 NARRATIVE DESCRIPTION | )POTEN           | TIAL _ ALLEGED   |  |  |  |  |  |  |
| N/A  |  |                  |                  |  |  |  |  |  |  |
| 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLE  | GED HAZARDS                                    |                  |                  |  |  |  |  |  |  |
| No other potential or alleged hazards exist.   |  |                  |                  |  |  |  |  |  |  |
| III. TOTAL POPULATION POTENTIALLY AFFECTED:  |  |                  |                  |  |  |  |  |  |  |
| IV. COMMENTS.  |  |                  |                  |  |  |  |  |  |  |
| Approximately 100 drums were allegedly buried during the construction of the Robert Moses Parkway (Circa, 1963). The contents and conditions of these drums are not known. |  |                  |                  |  |  |  |  |  |  |
| V. SOURCES OF INFORMATION (Cite specific references, e.g., state   | files, sample analysis, reports)               | <u> </u>         |                  |  |  |  |  |  |  |
| Preliminary Site Assessment Report, January 1991, E.C. Jordan Co., and references cited therein.   |  |                  |                  |  |  |  |  |  |  |

## **Ş** EPA

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

| 1.IDENTIFICATION |                |
|------------------|----------------|
| 01 STATE         | 01 SITE NUMBER |
| New York         | D038635884     |

| PART 4 -  | PERMIT AND DESCRI  | PTIVE INFORMATION     | New York   |                                  | 038635884                             |  |  |  |
|---|--|-----------------------|--|----------------------------------|---------------------------------------|--|--|--|
| II. PERMIT INFORMATION  |  |                       |  |                                  | · · · · · · · · · · · · · · · · · · · |  |  |  |
| 01 TYPE OF PERMIT ISSUED (Check all that apply)   | 02 PERMIT NUMBER   | 03 DATE ISSUED        | 04 EXPIRATION DATE   | 05 COMMENTS                      |                                       |  |  |  |
| _ A. NPDES  |  |                       |  |                                  |                                       |  |  |  |
| _ B. UIC  |  |                       |  |                                  |                                       |  |  |  |
| _ C. AIR  |  |                       |  |                                  |                                       |  |  |  |
| _ D. RCRA   |  |                       |  |                                  |                                       |  |  |  |
| E. RCRA INTERIM STATUS  |  |                       |  |                                  |                                       |  |  |  |
| _ F. SPCC PLAN  |  |                       |  |                                  |                                       |  |  |  |
| G. STATE (specify)  |  |                       |  |                                  | :                                     |  |  |  |
| H. LOCAL (specify)  |  |                       |  |                                  |                                       |  |  |  |
| I. OTHER (specify)  |  |                       |  |                                  |                                       |  |  |  |
| J. NONE   | ·  |                       |  |                                  |                                       |  |  |  |
| III. SITE DESCRIPTION   |  |                       |  | •                                |                                       |  |  |  |
| 01 STORAGE/DISPOSAL<br>(check all that apply)   | THUOMA SO  | 03 UNIT OF MEASURE    | 04 TREATMENT<br>(check all that apply)   |                                  | 05 OTHER _ A. BUILDINGS ONSITE        |  |  |  |
| A. SURFACE IMPOUNDMENT B. PILES C. DRUMS, ABOVE GROUND D. TANK, ABOVE GROUND E. TANK, BELOW GROUND F. LANDFILL G. LANDFARM H. OPEN DUMP X I. OTHER Buried Drums (specify) | 100  | Drums                 | A. INCINERATION B. UNDERGROUND C. CHEMICAL/PHY: D. BIOLOGICAL E. WASTE OIL PROMOTE OF THE PROMOT | 06 AREA OF SITE  Unknown (acres) |                                       |  |  |  |
| Hooker chemical waste mater   | ials allegedly burie   | ed on-site during hig | hway construction.   |                                  |                                       |  |  |  |
| IV. CONTAINMENT   |  |                       |  |                                  |                                       |  |  |  |
| 01 CONTAINMENT OF WASTES (ch  | eck one) - unknown   |                       | <u> </u>   |                                  |                                       |  |  |  |
| _ A. ADEQUATE, SECU   | RE _ B. MODERATE   | _ C. INADEQUATE,      | POOR _ D. INSECUR  | E, UNSOUND, I                    | DANGEROUS                             |  |  |  |
| 02 DESCRIPTION OF DRUMS, DI   | KING, LINERS, BARRIE   | RS, ETC.              |  |                                  |                                       |  |  |  |
| Drums were allegedly buried and thus not visible for inspection. Condition of containment is unknown.   |  |                       |  |                                  |                                       |  |  |  |
| V. ACCESSIBILITY  |  |                       |  |                                  |                                       |  |  |  |
| 01 WASTE EASILY ACC   | ESSIBLE: YES _ I   | NO X Unknown          | <u> </u>   |                                  |                                       |  |  |  |
| Drums were allegedly buried beneath the parkway.  |  |                       |  |                                  |                                       |  |  |  |
| VI. SOURCES OF INFORMATION  | VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports) |                       |  |                                  |                                       |  |  |  |
| Preliminary Site Assessment Report, January 1991, E.C. Jordan Co., and references cited therein.  |  |                       |  |                                  |                                       |  |  |  |

POTENTIAL HAZARDOUS WASTE SITE I.IDENTIFICATION **₽ EPA** SITE INSPECTION REPORT 01 STATE 01 SITE NUMBER PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA New York D038635884 II. DRINKING WATER SUPPLY 01 TYPE OF DRINKING SUPPLY 02 STATUS 03 DISTANCE TO SITE (check as applicable) SURFACE WELL **ENDANGERED** AFFECTED MON1 TORED COMMUNITY A. <u>X</u> A. \_ A. .. B. \_ E. \_ C. <u>X</u> 0.5 NON-COMMUNITY R. III. GROUNDWATER 01 GROUNDWATER USE IN VICINITY (check one) \_ A. ONLY SOURCE FOR 8. DRINKING X C. COMMERCIAL INDUSTRIAL IRRIGATION \_ D. NOT USED. DRINKING (other sources available) (Limited other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) 03 DISTANCE TO NEAREST DRINKING WATER WELL \_\_\_\_N/A\_\_\_ 02 POPULATION SERVED BY GROUNDWATER None 04 DEPTH TO GROUNDWATER | 05 DIRECTION OF GROUNDWATER FLOW 06 DEPTH TO AQUIFER 07 POTENTIAL YIELD 08 SOLE SOURCE AQUIFFR OF CONCERN OF AQUIFER \_ (ft) south \_\_YES unknown (gpd) 09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings) 10 RECHARGE AREA 11 DISCHARGE AREA X YES COMMENTS X YES COMMENTS NO IV. SURFACE WATER 01 SURFACE WATER USE (Check one) X A. RESERVOIR, RECREATION \_ B. IRRIGATION, ECONOMICALLY \_ C. COMMERCIAL INDUSTRIAL \_ D. NOT CURRENTLY USED IMPORTANT RESOURCES IMPORTANT RESOURCES 02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER NAME: AFFECTED DISTANCE TO SITE Niagara River < 100 feet

(mi)

(mi)

UNUSABLE

X NO

(mi) (mi) V. DEMOGRAPHIC AND PROPERTY INFORMATION 01 TOTAL POPULATION WITHIN 02 DISTANCE TO NEAREST POPULATION ONE (1) MILE OF SITE TWO (2) MILES OF SITE THREE (3) MILES OF SITE 3,000 5,700 9,500 \_ (mi) NO. OF PERSONS NO. OF PERSONS NO. OF PERSONS

04 DISTANCE TO NEAREST OFF-SITE BUILDING

\_ (mi) 05 POPULATION WITHIN VICINITY OF SITE [Provide narrative description of nature of population within written vicinity of site, e.g., rural, village, densely populated urban area)

The Robert Moses Parkway is located in an industrial section of the city. A residential area is located east of the site. Several industrial chemical companies are located north of the Parkway.

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

## POTENTIAL HAZARDOUS WASTE SITE

| I | • | l | D | E | N | T | I | F | I | C | ľ | I | ON |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|
|   |   |   |   |   | _ | _ |   |   |   |   | _ |   |    |  |

| S EPA S   | ITE INSPECTIO                          | IN REPORT                           |  | 01 STATE                    | 01 SITE NUMBER   |
|---|--|-------------------------------------|--|-----------------------------|--|
| PART 5 - W                                      | ATER, DEMOGRAPHIC, A                   | ND ENVIRONMENTAL                    | DATA   | New York                    | D038635884   |
| VI. ENVIRONMENTAL INFORMATIO                    | ON                                     |                                     |  |                             | <del></del>  |
| O1 PERMEABILITY OF UNSATURATE                   | D ZONE (Check one)                     |                                     |  |                             | <del></del>  |
| _ A. 10 <sup>-6</sup> - 10 <sup>-6</sup> cm/sec | B. 10 <sup>-4</sup> - 10 <sup>-6</sup> | s cm/sec                            | _ C. 10 <sup>-4</sup> - 10 <sup>-3</sup>             | cm/sec X D. GRE             | EATER THAN 10 <sup>-3</sup> cm/sec   |
| 02 PERMEABILITY OF BEDROCK IC                   | heck one)                              |                                     |  |                             | H this the state of the state o |
| A. IMPERMEABLE<br>(Tess than 10 cm/sec)         | X B. RELATIVI<br>(10 -                 | ELY IMPERMEABLE<br>10° cm/sec)      | _ C. RELATIV<br>(10 <sup>-2</sup> - 10 <sup>-1</sup> | ELY PERMEABLE (G            | _D. VERY PERMEABLE<br>reater than 10 <sup>-2</sup> cm/sec)   |
| 03 DEPTH TO BEDROCK                             | 04 DEPTH OF CON                        | TANINATED SOIL                      | ZONE 05 SC   | OIL Ph                      |  |
| 25(ft)  | 10                                     | (ft)                                | ur   | nknown                      |  |
| 06 NET PRECIPITATION                            | 07 ONE YEAR 24 I                       | HOUR RAINFALL                       | 08 SLOPE   |                             |  |
|   | 1                                      |                                     | SITE SLOPE   | DIRECTION OF SITE           | SLOPE TERRAIN AVERAGE SLOPE  |
| 8 (in)  | 2                                      | (in)                                | 9 %  | North and Sou               | uth 0.1 %  |
| 09 FLOOD POTENTIAL                              |  | 10                                  | OU DARDIED ICLAN                                     | COACTAL LITCH H             | ATAN AND ALIENTIE PLANNING   |
| SITE IS IN N/A YEA                              | R FLOODPLAIN                           | 3116 13                             | UN BAKKIEK ISLAM                                     | ID, COASTAL HIGH H          | AZARD AREA, RIVERINE FLOODWAY  |
| 11 DISTANCE TO WETLANDS (5 acre                 | minimum)                               |                                     | 12 DISTANCE TO                                       | CRITICAL HABITAT            | (of endangered species)  |
| ESTAURINE                                       | OTHE                                   | ĒR                                  |  |                             | 1.5 (mi)   |
| Α (π  | ni) B. <u>&gt; 3</u>                   | <u>5</u> (mi)                       | ENDANGERED   | SPECIES: Sterna             | hirundo (threatened)   |
| 13 LAND USE IN VICINITY                         |  |                                     | •  |                             |  |
| DISTANCE TO:                                    | PP01PFNY141 A1                         |                                     |  |                             |  |
| COMMERCIAL/INDUSTRIAL                           | FORESTS,                               | REAS; NATIONAL/S<br>OR WILDLIFE RES | STATE PARKS,<br>SERVES                               | AGRICULTUR<br>PRIME AG LAND | RAL LANDS<br>AG LAND   |
| A (mi   | •                                      | в0.3                                | (mi)   | CN/A                        | (mi) D. <u>N/A</u> (mi)  |
| 14 DESCRIPTION OF SITE IN REL                   | ATION TO SURROUND                      | ING TOPOGRAPHY                      |  |                             |  |
|   |  |                                     |  |                             |  |
| The Robert Moses Parkway para                   | llels the Niagara                      | a River on the r                    | northern shoreli                                     | ne. The Parkway i           | s built up approximately 15  |
| feet relative to the surround                   | ing area.                              |                                     |  | •                           | ,  |
|   |  |                                     |  |                             |  |
|   |  |                                     |  |                             |  |
|   |  |                                     |  |                             |  |
|   |  |                                     |  |                             |  |
|   |  |                                     |  |                             |  |
|   |  |                                     |  |                             |  |
|   |  |                                     |  |                             |  |
|   |  |                                     |  |                             |  |
|   |  |                                     |  |                             |  |
|   |  |                                     |  |                             |  |
|   |  |                                     |  |                             |  |
|   |  |                                     |  |                             |  |
|   |  |                                     |  |                             | - 1  |
| VII. SOURCES OF INFORMATION                     | (Cite specific reference               | e, e.g., state files, s             | ample analysis, report                               | s)                          |  |
| Preliminary Site Assessment R                   | eport, February 1                      | 1991, E.C. Jorda                    | on Co., and refer                                    | rences cited there          | in.  |

## **⊕** EPA

## POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

| I.IDENTIFICATION |                |
|------------------|----------------|
| 01 STATE         | O1 SITE NUMBER |
| New York         | D038635884     |

| <b>\</b>         | PART (        | 5 - SAMPLE AN                         | d field in       | NFORMATION                       | New York                                | D038635884                             |
|------------------|---------------|---------------------------------------|------------------|----------------------------------|---|--|
| 1. SAMPLES TAI   | KEN - No samp | les were coll                         | ected as p       | oart of PSA Task 1               |   |  |
| SAMPLE TYPE      |               | 01 NUMBER OF<br>SAMPLES TA            | KEN              | 02 SAMPLES SENT TO               |   | 03 ESTIMATED DATE<br>RESULTS AVAILABLE |
| ROUNDWATER       |               |                                       | <del></del>      |                                  |   |  |
| SURFACE WATER    |               |                                       | ···-             |                                  | 181                                     |  |
| JASTE            |               |                                       | -                |                                  |   |  |
| \IR              |               |                                       |                  |                                  |   |  |
| RUNOFF           |               |                                       |                  |                                  |   |  |
| SPILL            |               | · · · · · · · · · · · · · · · · · · · | -                |                                  | ***                                     |  |
| S01L             |               |                                       |                  |                                  |   |  |
| /EGETATION       |               |                                       | ·-               |                                  |   |  |
| OTHER            |               |                                       |                  |                                  |   |  |
| III. FIELD MEAS  | SUREMENTS TAK | EN                                    |                  |                                  |   |  |
| O1 TYPE          |               | 02 COMMENTS                           |                  | <del></del>                      |   |  |
| Vone             |               |                                       |                  |                                  |   |  |
|                  |               |                                       |                  |                                  |   |  |
|                  |               |                                       |                  |                                  |   | 1, 11, 1                               |
|                  |               |                                       |                  |                                  | *******                                 |  |
| IV. PHOTOGRAPHS  | AND MAPS      | ·                                     |                  |                                  |   |  |
| 1 TYPE GROUN     | ID AERIAL     |                                       | 02 IN CUS        | STODY OF                         | (Name of organizatio                    | o or individual)                       |
| 3 MAPS           | 04 LOCATION   | OF MAPS                               | <u>l </u>        |                                  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |  |
| _ NO             | Sri Mad       | dineni, NYSDE                         | C. 50 Wolf       | Road, Albany, New Yo             | ork                                     |  |
| . OTHER FIELD    | DATA COLLECT  | ED (Provide narra                     | tive description | on)                              |   |  |
|                  |               |                                       |                  |                                  |   |  |
| lo other field d | iata collecte | d during site                         | visit.           |                                  |   |  |
|                  |               |                                       |                  | •                                |   |  |
|                  |               |                                       |                  |                                  |   |  |
|                  |               | ~.                                    |                  |                                  |   |  |
|                  |               |                                       |                  |                                  |   |  |
|                  |               |                                       |                  |                                  |   |  |
|                  |               |                                       |                  |                                  |   |  |
|                  |               |                                       |                  |                                  |   |  |
| /I. SOURCES OF   | THEODRATION   |                                       |                  | itate files, sample analysis, re |   |  |

POTENTIAL HAZARDOUS WASTE SITE I.IDENTIFICATION 😂 EPA SITE INSPECTION REPORT 01 STATE 01 SITE NUMBER **PART 7 - OWNER INFORMATION** D038635884 New York CURRENT OWNER(S) PARENT COMPANY (If applicable) 01 NAME 02 D+B NUMBER 08 NAME 09. D+B NUMBER Power Authority of New York State 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 10 STREET ADDRESS (P.O. Box, RFD #, etc.) 11 SIC CODE 5777 Lewiston Road 05 CITY STATE 07 ZIP CODE 12 CITY 13 STATE 14 ZIP CODE Niagara Falls New York 14305 01 NAME 02 D+B NUMBER 08 NAME 09 D+B NUMBER Power Authority of New York State 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 5777 Lewiston Road 04 SIC CODE 10 STREET ADDRESS (P.O. Box, RFD #, etc.) 11 SIC CODE 05 CITY 06 STATE 07 ZIP CODE 12 CITY 13 STATE 14 ZIP CODE Niagara Falls New York 14305 01 NAME 02 D+B NUMBER 08 NAME 09 D+8 NUMBER 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 10 STREET ADDRESS (P.O. Box, RFD #, etc.) 11 SIC CODE 05 CITY 06 STATE 07 ZIP CODE 12 CITY 13 STATE 14 ZIP CODE 01 NAME 02 D+B NUMBER 08 NAME 09 D+B NUMBER 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 10 STREET ADDRESS (P.O. Box, RFD #, etc.) 11 SIC CODE 05 CITY 06 STATE 07 ZIP CODE 12 CITY 13 STATE 14 ZIP CODE III. PREVIOUS OWNER(S) (List most recent first) IV. REALTY OWNER(S) (If applicable; list most recent first) O1 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 O1 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+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 V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports) Preliminary Site Assessment Report, February 1991, E.C. Jordan Co., and references cited therein.

| SITE INSPECTION REPORT PART 8 - OPERATOR INFORMATION  1. CURRENT OPERATOR (Provide if different from owner)  O1 NAME New York State Dept. of Transportation  O3 STREET ADDRESS (P.O. Box, RFD #, etc.)  O4 SIC CODE  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  O5 CITY New York  O6 STATE New York  O7 ZIP CODE  14 CITY  D8 STREET ADDRESS (P.O. Box, RFD #, etc.)  O8 YEARS OF OPERATION NAME  O2 D+B NUMBER  O3 STREET ADDRESS (P.O. Box, RFD #, etc.)  O6 STATE O7 ZIP CODE  14 CITY  PREVIOUS OPERATOR'S PARENT COMPANIES (If epudite entry if the provide only if the part of the p | **                            |                    | RDOUS WASTE                   | SITE                     | 1.IDENTIFICATI       | ON            |  |
|--|-------------------------------|--------------------|-------------------------------|--------------------------|----------------------|---------------|--|
| PART 8 - OPERATOR INFORMATION  II. CURRENT OPERATOR (Provide if different from owner)  OPERATOR'S PARENT COMPANY (If applicable)  O1 NAME  New York State Dept. of Transportation  O3 STREET ADDRESS (P.O. Box, RFD #, etc.)  O4 SIC CODE  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  O5 CITY  O6 STATE New York  O7 ZIP CODE  14 CITY  15 STATE  O8 YEARS OF OPERATION  O9 NAME OF OWNER  O1 NAME  O2 D+B NUMBER  O3 STREET ADDRESS (P.O. Box, RFD #, etc.)  O4 SIC CODE  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  O5 CITY  O6 STATE  O7 ZIP CODE  O7 ZIP CODE  O7 STREET ADDRESS (P.O. Box, RFD #, etc.)  O6 STATE  O7 ZIP CODE  O7  | **                            | TE INSPEC          | CTION REPORT                  |                          | 01 STATE             | 01 SI1        | E NUMBER                               |
| 10 NAME  |                               | RT 8 - OPERA       | TOR INFORMATION               |                          | New York             | 003863        | 55884                                  |
| New York State Dept. of Transportation  03 STREET ADDRESS (P.O. Box, RFD #, etc.)  04 SIC CODE  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  05 CITY  06 STATE  07 ZIP CODE  14 CITY  15 STATE  17 STATE  18 STATE  19 NAME  10 NAME  10 NAME  10 PREVIOUS OPERATION (S) (List most recent first, provide only if different from owner)  10 NAME  11 NAME  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  13 STREET ADDRESS (P.O. Box, RFD #, etc.)  14 CITY  15 STATE  16 STATE  17 STREET ADDRESS (P.O. Box, RFD #, etc.)  18 STREET ADDRESS (P.O. Box, RFD #, etc.)  19 NAME  10 NAME  11 NAME  11 NAME  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  13 STREET ADDRESS (P.O. Box, RFD #, etc.)  14 CITY  15 STATE  16 STATE  17 STREET ADDRESS (P.O. Box, RFD #, etc.)  18 STREET ADDRESS (P.O. Box, RFD #, etc.)  19 NAME  10 NAME  10 NAME  11 NAME  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  13 STREET ADDRESS (P.O. Box, RFD #, etc.)  14 CITY  15 STATE  16 STATE  17 STATE  18 STATE  19 OF STATE  19 OF STATE  10 NAME  10 NAME  10 NAME  11 NAME  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  | . CURRENT OPERATOR (Provide   | f different from ( | owner)                        | OPERATOR'S PAR           | ENT COMPANY (If ap   | plicable)     |  |
| 15 STATE   15 STATE   15 STATE   15 STATE   15 STATE   15 STATE   16 STATE   17 STATE   18 STATE   19 STATE    |                               |                    | 02 D+B NUMBER                 | 10 NAME                  |                      |               | 11 D+B NUMBER                          |
| New York   OB YEARS OF OPERATION   OP NAME OF OWNER  | STREET ADDRESS (P.O. Box, RFD | #, etc.)           | 04 SIC CODE                   | 12 STREET ADDR           | ESS (P.O. Box, RFD a | f, etc.)      | 13 SIC CODE                            |
| 1960's to Present  |                               |                    | 07 ZIP CODE                   | 14 CITY                  |                      | 15 STATE      | 16 ZIP CODE                            |
| 02 D+B NUMBER   10 NAME   03 STREET ADDRESS (P.O. Box, RFD #, etc.)   04 SIC CODE   12 STREET ADDRESS (P.O. Box, RFD #, etc.)   05 CITY   06 STATE   07 ZIP CODE   14 CITY   15 STATE   08 YEARS OF OPERATION   09 NAME OF OWNER   10 NAME   02 D+B NUMBER   10 NAME   10 NAME   03 STREET ADDRESS (P.O. Box, RFD #, etc.)   04 SIC CODE   12 STREET ADDRESS (P.O. Box, RFD #, etc.)   05 CITY   06 STATE   07 ZIP CODE   14 CITY   15 STATE   08 YEARS OF OPERATION   09 NAME OF OWNER   10 NAME      |                               | NAME OF OWNE       | R                             |                          |                      |               | •                                      |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.)  04 SIC CODE  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  05 CITY  06 STATE  07 ZIP CODE  14 CITY  15 STATE  08 YEARS OF OPERATION  09 NAME OF OWNER  01 NAME  02 D+B NUMBER  10 NAME  03 STREET ADDRESS (P.O. Box, RFD #, etc.)  04 SIC CODE  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  05 CITY  06 STATE  07 ZIP CODE  14 CITY  15 STATE  08 YEARS OF OPERATION  09 NAME OF OWNER  01 NAME  02 D+B NUMBER  10 NAME   |                               | st mast recent fi  | rst; provide only if          | PREVIOUS OPERA           | TOR'S PARENT CON     | PANIES (If ap | pplicable)                             |
| 05 CITY  | NAME                          |                    | 02 D+B NUMBER                 | 10 NAME                  |                      |               | 11 D+B NUMBER                          |
| 08 YEARS OF OPERATION 09 NAME OF OWNER  01 NAME 02 D+B NUMBER 10 NAME  03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 12 STREET ADDRESS (P.O. Box, RFD #, etc.)  05 CITY 06 STATE 07 ZIP CODE 14 CITY 15 STATE  08 YEARS OF OPERATION 09 NAME OF OWNER  01 NAME 02 D+B NUMBER 10 NAME   | STREET ADDRESS (P.O. Box, RFC | #, etc.)           | 04 SIC CODE                   | 12 STREET ADDR           | ESS (P.O. Box, RFD   | 7, etc.)      | 13 SIC CODE                            |
| 01 NAME 02 D+B NUMBER 10 NAME 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 12 STREET ADDRESS (P.O. Box, RFD #, etc.) 05 CITY 06 STATE 07 ZIP CODE 14 CITY 15 STATE 08 YEARS OF OPERATION 09 NAME OF OWNER 01 NAME 02 D+B NUMBER 10 NAME   | CITY                          | 06 STATE           | 07 ZIP CODE                   | 14 CITY                  |                      | 15 STATE      | 16 ZIP CODE                            |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.)  04 SIC CODE  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  05 CITY  06 STATE  07 ZIP CODE  14 CITY  15 STATE  08 YEARS OF OPERATION  09 NAME OF OWNER  01 NAME  02 D+B NUMBER  10 NAME   | YEARS OF OPERATION 09         | NAME OF OWNER      | R                             |                          |                      | •             |  |
| 05 CITY 06 STATE 07 ZIP CODE 14 CITY 15 STATE  08 YEARS OF OPERATION 09 NAME OF OWNER  01 NAME 02 D+B NUMBER 10 NAME   | NAME                          |                    | 02 D+B NUMBER                 | 10 NAME                  |                      |               | 11 D+B NUMBER                          |
| D8 YEARS OF OPERATION  | STREET ADDRESS (P.O. Box, RFC | #, etc.)           | 04 SIC CODE                   | 12 STREET ADDR           | ESS (P.O. Box, RFD   | , etc.)       | 13 SIC CODE                            |
| 01 NAME 02 D+B NUMBER 10 NAME  | CITY                          | 06 STATE           | 07 ZIP CODE                   | 14 CITY                  |                      | 15 STATE      | 16 ZIP CODE                            |
|  | YEARS OF OPERATION 09         | NAME OF OWNER      | R                             |                          |                      | •             | <u> </u>                               |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.)  04 SIC CODE  12 STREET ADDRESS (P.O. Box, RFD #, etc.)  | NAME                          |                    | 02 D+B NUMBER                 | 10 NAME                  |                      |               | 11 O+B NUMBER                          |
|  | STREET ADDRESS (P.O. Box, RFD | #, etc.)           | 04 SIC CODE                   | 12 STREET ADDR           | ESS (P.O. Box, RFD   | f, etc.)      | 13 SIC CODE                            |
| 05 CITY 06 STATE 07 ZIP CODE 14 CITY 15 STATE  | CITY                          | 06 STATE           | 07 ZIP CODE                   | 14 CITY                  |                      | 15 STATE      | 16 ZIP CODE                            |
| 08 YEARS OF OPERATION OP NAME OF OWNER   | YEARS OF OPERATION 09         | NAME OF OWNE       | R                             |                          |                      | 1.            | *····································· |
| IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)   | /. SOURCES OF INFORMATION (   | Cite specific refe | rences, e.g., state files, si | emple analysis, reports) | <del></del>          |               |  |

**S** EPA

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

| I.IDENTIFICATION |    |      |      |
|------------------|----|------|------|
| 01 STATE         | 01 | SITE | NUME |

| 3 STREET ADDRESS (P.O. Box, RFD #, etc.)   | ITE NUMBER    |
|--|---------------|
| 11 NAME  | 635884        |
| 04 SIC CODE   05 CITY  |               |
| 11. OFF-SITE GENERATOR(S)   12. OFF-SITE GENERATOR(S)   13. STREET ADDRESS (P.O. Box, RFD #, etc.)   14. SIC CODE   15. CITY   16. STATE   |               |
| 11   OFF-SITE GENERATOR(s)   O2 D+B NUMBER   |               |
| 10   10   10   10   10   10   10   10  |               |
| 100ker Chemical (alleged)   0.5 No North   0.5 No No North   0.5 No No No No No North   0.5 No  |               |
| 1 NAME   | 02 D+B NUMBER |
| NAME   | 04 SIC CODE   |
| 3 STREET ADDRESS (P.O. Box, RFD #, etc.)  04 SIC CODE  05 CITY  06 STATE  07 ZIP CODE  05 CITY  06 STATE  07 ZIP CODE  07 ZIP CODE  08 STREET ADDRESS (P.O. Box, RFD #, etc.)  08 STATE  09 D+B NUMBER  0 | 07 ZIP CODE   |
| S CITY   | 02 D+B NUMBER |
| V. TRANSPORTER(S)         O2 D+B NUMBER         O1 NAME         O2 D+B NUMBER         O1 NAME         O2 D+B NUMBER           3 STREET ADDRESS (P.O. Box, RFD #, etc.)         04 S1C CODE         03 STREET ADDRESS (P.O. Box, RFD #, etc.)         04 S1C CODE           5 CITY         06 STATE         07 ZIP CODE         05 CITY         06 STATE         07 ZIP CODE           1 NAME         02 D+B NUMBER         01 NAME         02 D+B NUMBER         02 D+B NUMBER           3 STREET ADDRESS (P.O. Box, RFD #, etc.)         04 S1C CODE         03 STREET ADDRESS (P.O. Box, RFD #, etc.)         04 S1C CODE           5 CITY         06 STATE         07 ZIP CODE         05 CITY         06 STATE         07 ZIP CODE           6 CITY         06 STATE         07 ZIP CODE         05 CITY         06 STATE         07 ZIP CODE           5 CITY         06 STATE         07 ZIP CODE         05 CITY         06 STATE         07 ZIP CODE           6 CITY         06 STATE         07 ZIP CODE         05 CITY         06 STATE         07 ZIP CODE  | 04 SIC CODE   |
| 1 NAME 02 D+B NUMBER 01 NAME 02 D+B NUMBER 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 05 CITY 06 STATE 07 ZIP CODE 07 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 07 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 05 CITY 06 STATE 07 ZIP CODE 05 CITY 07 ZIP CODE 07 ZIP CODE 05 CITY 07 ZIP CODE 05 CITY 07 ZIP CODE 05 CITY 07 ZIP CODE 07 ZIP CODE 05 CITY 07 ZIP CODE 07 ZIP CODE 05 CITY 07 ZIP CO | 07 ZIP CODE   |
| 3 STREET ADDRESS (P.O. Box, RFD #, etc.)  04 SIC CODE  05 CITY  06 STATE  07 ZIP CODE  05 CITY  06 STATE  07 ZIP CODE  07 ZIP CODE  1 NAME  08 STREET ADDRESS (P.O. Box, RFD #, etc.)  09 D+B NUMBER  01 NAME  02 D+B NUMBER  01 NAME  02 D+B NUMBER  03 STREET ADDRESS (P.O. Box, RFD #, etc.)  04 SIC CODE  05 CITY  06 STATE  07 ZIP CODE  07 ZIP CODE  08 STREET ADDRESS (P.O. Box, RFD #, etc.)  08 STATE  09 STA | <u></u>       |
| 5 CITY 06 STATE 07 ZIP CODE 05 CITY 06 STATE 07 ZIP CODE  1 NAME 02 D+B NUMBER 01 NAME 02 D+B NUMBER  3 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE  5 CITY 06 STATE 07 ZIP CODE 05 CITY 06 STATE 07 ZIP CODE  W. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)  | 02 D+B NUMBER |
| 1 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 05 CITY 06 STATE 07 ZIP CODE 05 CITY 07 ZIP CODE 05 CITY 08 STATE 07 ZIP CODE 07 ZIP CODE 05 CITY 08 STATE 07 ZIP CODE 07 Z | 04 SIC CODE   |
| 3 STREET ADDRESS (P.O. Box, RFD #, etc.)  04 S1C CODE  05 CITY  06 STATE  07 ZIP CODE  08 STATE  09 STATE  09 STATE  09 STATE  09 STATE  00 STATE  00 STATE  00 STATE  01 STREET ADDRESS (P.O. Box, RFD #, etc.)  04 S1C CODE  05 CITY  06 STATE  07 ZIP CODE  08 STATE  09 STATE  0 | 07 ZIP CODE   |
| 5 CITY 06 STATE 07 ZIP CODE 05 CITY 06 STATE 07 ZIP CODE  V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)  | 02 D+B NUMBER |
| V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)  | 04 SIC CODE   |
|  | 07 ZIP CODE   |
|  |               |
|  | 07 ZIP COD    |
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| _           |          |                         | POTENTIAL HAZARDOUS WAS             |   | 1.IDENTIFICATION |                |
|-------------|----------|-------------------------|-------------------------------------|---|------------------|----------------|
| 8           | , E      | PA                      | SITE INSPECTION REPOR               | RT                                      | 01 STATE         | 01 SITE NUMBER |
| _           |          |                         | PART 10 - PAST RESPONSE ACTIV       | ITIES                                   | New York         | D038635884     |
| ١.          |          |                         | ACTIVITIES                          |   |                  |                |
|             | 01       | A. WATER                | SUPPLY CLOSED                       | 02 DATE                                 | O3 AGENCY        | *              |
|             |          | DESCRIPTIL              |                                     |   |                  |                |
| /A          | 01       | 0 75000                 | RARY WATER SUPPLY PROVIDED          | 02 2-2-                                 |                  |                |
|             | 04       | DESCRIPTIO              | RART WATER SUPPLY PROVIDED          | 02 DATE                                 | 03 AGENCY        | <del></del>    |
| I/A         |          |                         |                                     |   |                  |                |
|             | 01       | _ C. PERMA              | NENT WATER SUPPLY PROVIDED          | 02 DATE                                 | O3 AGENCY        |                |
|             | 04       | DESCRIPTIO              | N ·                                 | *************************************** |                  |                |
| I/A         |          |                         |                                     |   |                  |                |
|             | 01<br>04 | D. SPILL<br>DESCRIPTION | ED MATERIAL REMOVED                 | 02 DATE                                 | 03 AGENCY        |                |
|             |          | DESCRIPTIO              | 44                                  |   |                  | •              |
| /A          |          | E CONTA                 | MINATED SOIL REMOVED                | O2 DATE                                 | O3 AGENCY        | ····           |
|             | ŏ4       | DESCRIPTIO              | N                                   | UZ DATE                                 | US AGENCY        |                |
| /A          |          |                         |                                     |   |                  |                |
|             |          |                         | REPACKAGED                          | OZ DATE                                 | D3 AGENCY        |                |
|             | 04       | DESCRIPTIO              | N                                   | · · · · ·                               |                  |                |
| /A          |          |                         |                                     |   |                  |                |
|             | 01<br>04 | G. WASTE<br>DESCRIPTIO  | DISPOSED ELSEWHERE                  | 02 DATE                                 | 03 AGENCY        |                |
|             |          | 2220011110              | <del></del>                         |   |                  |                |
| /A          |          | H. ON ST                | TE BURIAL                           | 02 DATE                                 | 03 AGENCY        |                |
|             |          | DESCRIPTIO              |                                     | VE DATE                                 | US AGENUT        |                |
| lle         | ged      |                         |                                     |   |                  |                |
|             | 01       | I. IN SI                | TU CHEMICAL TREATMENT               | 02 DATE                                 | O3 AGENCY        |                |
|             | 04       | DESCRIPTIO              | N                                   |   |                  |                |
| /A          |          |                         |                                     |   |                  |                |
|             | 01<br>04 | J. IN SI<br>DESCRIPTIO  | TU BIOLOGICAL TREATMENT<br>N        | OZ DATE                                 | O3 AGENCY        |                |
| /A          |          |                         |                                     |   |                  |                |
|             | 01       | K. IN ST                | TU PHYSICAL TREATMENT               | 02 DATE                                 | U3 VCENCA        |                |
|             | 04       | DESCRIPTIO              | N                                   |   |                  |                |
| /A          |          |                         |                                     |   |                  |                |
|             | 01       | L. ENCAP                | SULATION                            | 02 DATE                                 | 03 AGENCY        |                |
|             |          | DESCRIPTIO              | N                                   |   |                  |                |
| /A          |          |                         |                                     |   |                  |                |
|             |          | M. EMERG<br>DESCRIPTION | ENCY WASTE TREATMENT<br>N           | O2 DATE                                 | 03 AGENCY        |                |
| /A          |          |                         |                                     |   |                  |                |
| <del></del> | 01       | N. CUTOF                | F WALLS                             | 02 DATE                                 | O3 AGENCY        |                |
|             | 04       | DESCRIPTIO              | N                                   |   |                  |                |
| /A          |          |                         |                                     |   |                  |                |
|             | 01       | O. EMERG                | ENCY DIKING/SURFACE WATER DIVERSION | 02 DATE                                 | O3 AGENCY        |                |
|             |          | DESCRIPTION             | N                                   |   |                  | ,              |
| A/          |          |                         |                                     |   |                  |                |
|             | 01<br>04 | P. CUTOF<br>DESCRIPTION | F TRENCHES/SUMP                     | 02 DATE                                 | O3 AGENCY        |                |
|             |          |                         | -                                   |   |                  | ·              |
| /A          |          | O CHOCH                 | RFACE CUTOFF WALL                   | 02 DATE                                 | 03 AGENCY        |                |
|             | 04       | DESCRIPTION             | N                                   | UZ DATE                                 | US AGENCY        |                |
|             |          |                         |                                     |   |                  |                |

| _        |          |                        | POTENTIAL HAZARDO                      |   | I.IDENTIFICATION     | · · · · · · · · · · · · · · · · · · · |
|----------|----------|------------------------|--|---|----------------------|---------------------------------------|
| Ž        | į        | PA                     | SITE INSPECTION                        | REPORT                                    | 01 STATE             | 01 SITE NUMBER                        |
|          |          |                        | PART 10 - PAST RESPONS                 | SE ACTIVITIES                             | New York             | D038635884                            |
| 11.      |          |                        | ACTIVITIES (Continued)                 |   |                      |                                       |
| ļ        | 01<br>04 | R. BARR<br>DESCRIPTI   | IER WALLS CONSTRUCTED                  | O2 DATE                                   | 03 AGENCY            |                                       |
| N/A      |          |                        |  |   |                      |                                       |
| <u> </u> | 01       | S. CAPP                | ING/COVERING                           | N2 DATE                                   | 07 ACTHOV            |                                       |
|          | 04       | DESCRIPTION            | ON CONTROL                             | oz vate                                   | US AGENCT            |                                       |
| N/A      |          |                        |  |   |                      | •                                     |
|          | 01       | T. BULK<br>DESCRIPTION | TANKAGE REPAIRED                       | O2 DATE                                   | O3 AGENCY            |                                       |
| N/A      |          | DESCRIPTION            | /n                                     |   |                      |                                       |
| 17/      |          | II CROUS               | CURTAIN CONSTRUCTED                    | 02.0475                                   | A                    | · · · · · · · · · · · · · · · · · · · |
|          | 04       | DESCRIPTION            | ON CONTAIN CONSTRUCTED                 | UZ DATE                                   | O3 AGENCY            |                                       |
| N/A      |          |                        |  |   |                      |                                       |
|          | 01       | V. BOTTO               | DM SEALED                              | 02 DATE                                   | O3 AGENCY            | · · · · · · · · · · · · · · · · · · · |
| N/A      |          | DESCRIPTION            | JN.                                    |   |                      |                                       |
| - N/A    |          | _ W. GAS (             | CONTROL                                | 02 0475                                   | 07                   | •                                     |
|          | 04       | DESCRIPTIO             | ON COL                                 | UZ DATE                                   | U3 AGENCY            |                                       |
| N/A      |          |                        |  |   |                      |                                       |
|          | 01       | X. FIRE<br>DESCRIPTION | CONTROL                                | 02 DATE                                   | 03 AGENCY            |                                       |
|          | 04       | DESCRIPTIO             |  |   |                      |                                       |
| N/A      | 01       | V 15461                | ATE TREATMENT                          | 00  |                      |                                       |
|          | 04       | DESCRIPTIO             | N REATMENT                             | UZ DATE                                   | O3 AGENCY            |                                       |
| N/A      |          |                        |  |   |                      |                                       |
|          | 01       | Z. AREA<br>DESCRIPTIO  | EVACUATED                              | OZ DATE                                   | 03 AGENCY            |                                       |
|          |          | DESCRIPTIO             | PN .                                   |   |                      |                                       |
| N/A      |          | 1 4005                 | C TO CITE PERTURE                      | 22.22.2                                   |                      |                                       |
|          | 04       | DESCRIPTIO             | S TO SITE RESTRICTED                   | UZ DATE                                   | 03 AGENCY            |                                       |
| N/A      |          |                        |  |   |                      |                                       |
|          | 01       | 2. POPUL               | ATION RELOCATED                        | O2 DATE                                   | 03 AGENCY            |                                       |
|          | U4       | DESCRIPTIO             | N .                                    |   |                      |                                       |
| N/A      | 01       | 7 07450                | DENGE LA ACTIVITIES                    | 22  |                      |                                       |
|          | 01<br>04 | DESCRIPTIO             | REMEDIAL ACTIVITIES                    | 02 DATE                                   | 03 AGENCY            |                                       |
| None     |          |                        |  |   |                      |                                       |
|          |          |                        |  |   |                      |                                       |
|          |          |                        |  |   |                      |                                       |
|          |          |                        |  |   |                      |                                       |
|          |          |                        |  |   |                      |                                       |
|          |          |                        |  |   |                      |                                       |
| IV.      | SOU      | RCES OF INF            | ORMATION (Cite specific references, e. | g., state files, sample analysis, reports | )                    |                                       |
|          |          |                        |  |   |                      |                                       |
| Prel     | imin     | ary Site As            | sessment Report, February 199          | 1. E.C. Jordan Co and refe                | rences cited therein | ١.                                    |
|          |          | ,                      | para,                                  |   | ar veen tirer till   | · <del>·</del>                        |
|          |          |                        |  |   |                      |                                       |

## **Ş** EPA

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 11 - ENFORCEMENT INFORMATION

1.IDENTIFICATION

01 STATE

01 SITE NUMBER

New York

D038635884

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION \_ YES X NO

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

Site Investigation by NYSDEC, 1978.

Site Investigation by ES, 1983.

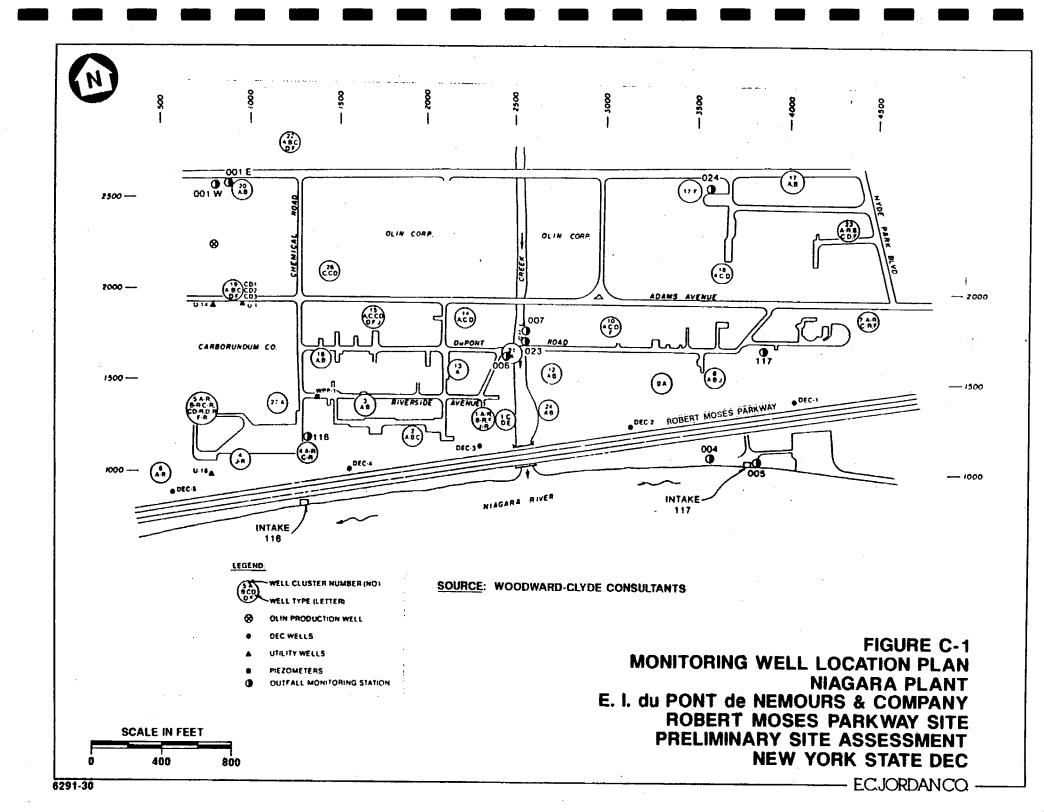
Site Investigation by NYSDOH, 1985.

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

Preliminary Site Assessment Report, February 1991, E.C. Jordan Co., and references cited therein.

APPENDIX C
RESULTS OF ANALYSES

APPENDIX C-1
GROUNDWATER ANALYSES



# TABLE 1 (continued) FIRST SEMI-ANNUAL, 1990 NIAGARA PLANT GROUNDWATER INVESTIGATION MONITORING WELL INDICATOR PARAMETER ANALYSIS

| LOCATION  |                   | DEC1     | DEC2        | DEC3              | DEC4         | DECS          |
|---|-------------------|----------|-------------|-------------------|--------------|---------------|
| DATE SAMPLED                                    |                   | 03/08/90 | 03/08/90    | 03/08/90          | 03/08/90     | 03/08/90      |
| FIELD PARAMETERS                                |                   |          |             |                   |              |               |
| PH  |                   | 10.49    | 10.49       | 6.85              | 7.62         | 7.66          |
| SPEC. COMD.                                     | umhos/cm          | 14,400   | 17,800      | 2450              | 1250         | 375           |
| SPEC. GRAVITY                                   | g/al              | 1.013    | 1.022       | 1.002             | 1.001        | 1.000         |
| TEMPERATURE                                     | C                 | 10.0     | 10.0        | 8.5               | 9.5          | 10.5          |
| OTHER PARAMETERS                                |                   |          |             |                   |              |               |
| CHLORIDE  | bizan             | MS       | 2420        | 1170              | 448          | 114           |
| PHEMOLS, TOTAL                                  | tica              | NS.      | 0.0682      | 0.0598            | 0.050 U      | 0.050 U       |
| 100   | ti <del>tus</del> | 115      | 47.3        | 13.9              | 14.5         | 20.1          |
| Tox   | SC200             | 25       | 17.18       | 612               | 3.92         | 0.085         |
| CYAHIDE, TOTAL                                  | bbs               | #\$      | 4.76 A      | 0.320 UR          | 0.020 U      | 0.020 ⊍       |
| BARTUM, SOLUBLE                                 | bb=               | HS       | 1.0 U       | 1.0 u             | 1.0 U        | 1.0 U         |
| TOTAL INDICATOR ORGANICS                        | ppb               | 6.4      | 2703        | 1,342,227         | 2969.062     | 77.8          |
| VOLATILES                                       |                   |          |             |                   |              | _             |
| "VINTL CHLORIDE                                 | ppb               | 2 U      | 1110        | 10,000 U          | 50 U         | 2 U           |
| CHLOROPETHAME                                   | ppb               | 5 U      | 50 U        | 25,000 U          | 125 U        | 5 U           |
| 1,1-DICHLORETHENE                               | ppb               | 1 0      | 16.7        | 5000 U            | 25 U         | 1 U           |
| METHYLENE CHLORIDE                              | ppto              | 1 U      | 14.3        | 529,000           | 26.5         | 2             |
| *TRANS+1,2-DICHLOROETHEME<br>1,1-DICHLOROETHAME | ppb               | 1 U      | 17.2        | 5000 U            | 90.7         | 1             |
| *C18+1.2-DICHLOROFTMENE                         | papis<br>papis    | . 1 u    | 10 U<br>961 | 5000 U<br>104,000 | 25 U<br>1070 | 1 u<br>23.6   |
| *CHLOROFORK                                     | pipis             | 1 u      | . 79.6      | 28,300            | 216          | 1.3 <b>to</b> |
| 1,1,1-TEICHLORGETHANE                           | ppb<br>ppb        | 1 U      | 10 U        | 5000 U            | 25 ປ         | 1.3           |
| CARBON TETRACHLORIDE                            | ppb<br>ppb        | . 1 U    | 10 U        | 5000 U            | 25 U         | 1 0           |
| *TRICHLONGETHEME                                | bbp<br>him        | 1.8      | 304         | 563,000           | 1380         | 22.3          |
| 1.1.2-TEICHLORGETHANE                           | ppb               | 1 0      | 10 U        | 5000 u            | 25 U         | 1 U           |
| *TETRACHLOROETHEME                              | blop<br>b         | 4.6      | 187         | 70,800            | 268          | 21.7          |
| 1,4-91CHLOROBUTANE                              | ppb               | 3 0      | 30 U        | 15,000 U          | 75 U         | 3 0           |
| *1,1,2,2-TETRACHLOROETHAME                      | • •               | 2 U      | 20 U        | 47,100            | 939          | 5.9           |
| *CMLCROSEKTEME                                  | ppb               | 2 U      | 20 U        | 10,000 U          | 50 U         | 2 U           |
| MEXACHLORGETHANE                                | ppb               | 2 U      | 20 U        | 10,000 U          | 50 U         | 2 U           |
| 1,4-bichLonomenzene(P)                          | ppb               | 2 U      | 20 U        | 10,000 U          | 50 U         | 2 U           |
| 1,2-01CHLCHOBERZEME(O)                          | ppib              | 2 U      | 20 U        | 10, <b>000</b> U  | 50 U         | 2 u           |
| HEXACHLOROBUTAD 1 EME                           | ppb               | 3 U      | 30 U        | 15,000 U          | 75 U         | <b>3</b> u    |
| TETRANYDROTH I SPHENE                           | ppb               | 3 U      | 162         | 15,000 U          | 75 U         | 3 U           |
| *BENZEME  | ppb               | 2 U      | 29.9        | 10,000 U          | 50 U         | 2 U           |
| TOLUEME   | ppb               | 2 U      | 45.3        | 10,000 U          | 50 U         | 2 U           |
| TOTAL VOLATILES                                 | ppb               | 6.4      | 2927        | 1,342,200         | 3988.2       | 77.8          |
| OTHER ORGANICS                                  |                   |          |             |                   |              |               |
| *alpha-BHC                                      | ppb               | MS       | 0.50 U      | 55.7              | 0.50 U       | 0.50 U        |
| *gama-8HC                                       | ppb               | ME       | 0.50 U      | 1.14              | 0.50 U       | 0.50 U        |
| *beta-BIÇ                                       | ppb               | MS       | 0.50 U      | 12.3              | 0.862        | 0.50 U        |
| *delta-88C                                      | ppb               | #1       | 0.50 U      | 2.54              | 0.50 U       | 0.50 U        |
| *PC\$ 1221                                      | ppb               | 113      | 0.50 U      | 50.0 U            | 0.50 U       | 0.50 U        |
| *PCS 1232                                       | ppb               | 21       | 0.50 U      | 50.0 U            | 0.50 U       | 0.50 u        |
| *PCS 1026                                       | ppb               | ME       | 0.50 U      | 50.0 U            | 0.50 U       | 0.50 U        |
| *PCB 1242                                       | ppb               | ME       | 0.50 U      | 5.0 U             | 0.50 U       | 0.50 U        |
| *PCB 1248                                       | ppb               | #2       | 0.50 ป      | 5.0 U             | 0.50 U       | 0.50 U        |
| *PCB 1254                                       | ppb               | MS       | 0.50 U      | 5.0 U             | 0.50 U       | 0.50 U        |
| *PC\$ 1260                                      | ppb               | NS       | 0.50 U      | 5.0 U             | 0.50 U       | 0.50 U        |
| BIS(2-ETHYLHEXYL)PHYMALATE                      | ppb               | NS       | 96.6        | 22.2              | 68.3         | 31.6          |
| HAPHTHALENE                                     | ppb               | 85       | 20 U        | . 20 U            | 20 U         | 20 U          |

Compounds used

APPENDIX C-2 SOIL ANALYSES

#### HYSDEC SAMPLE N

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

93280101 Lab Name: IT PITTSBURGH Contract: C002165

 $rac{7}{2}$ ab Code: ITPA Case No.: SH989 SAS No.: SDG No.: 8910B

Matrix: (soil/water) SOIL Lab Sample ID: 93280101

Sample wt/vol: 4.2 (g/mL) G Lab File ID: 1061024N

Level: (low/med) LOW Date Received: 10/21/89

% Moisture: not dec. 25 Date Analyzed: 10/24/89

Column: (pack/cap) PACK Dilution Factor: 1.0

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q | 74-87-3-----Chloromethane\_\_\_\_ 16 !U 74-83-9-----Bromomethane\_ 16 !U

75-01-4-----Vinyl Chloride\_\_\_\_ 16 U 75-00-3-----Chloroethane\_ 16 !U 75-09-2----Methylene Chloride\_\_\_\_ 8 ! U | 67-64-1-----Acetone 8 !BJ : 75-15-0-----Carbon Disulfide ! U 75-35-4----1,1-Dichloroethene\_\_\_\_ 8 ; U | 75-34-3-----1,1-Dichloroethane\_ 8 ! U | 540-59-0----1,2-Dichloroethene (total)\_\_\_\_ 8 ∃ U 67-66-3-----Chloroform . 8 |U 107-06-2----1,2-Dichloroethane\_\_\_\_ 8 ! U 78-93-3----2-Butanone 16 ! U 71-55-6----1,1,1-Trichloroethane\_\_\_\_ 8 ! U | 56-23-5-----Carbon Tetrachloride\_\_\_\_ 8 ! U 108-05-4-----Vinyl Acetate\_\_\_ 16 ! U 75-27-4----Bromodichloromethane\_\_ 8 U 78-87-5----1,2-Dichloropropane\_\_\_\_ 8 !U 1 10061-01-5----cis-1,3-Dichloropropene\_\_\_\_ 1 U 79-01-6-----Trichloroethene 8 | U 124-48-1-----Dibromochloromethane\_\_ ! U 79-00-5----1,1,2-Trichloroethane\_\_\_\_ 8 ¦ U 71-43-2----Benzene\_\_\_ 8 U 10061-02-6----Trans-1,3-Dichloropropene 8 U 75-25-2----Bromoform\_ 8 ; U 108-10-1-----4-Methyl-2-Pentanone\_\_\_\_ 16 | U | 591-78-6----2-Hexanone\_ 16 ΙŪ 127-18-4----Tetrachloroethene\_\_\_ 8 IU | 79-34-5----1,1,2,2-Tetrachloroethane\_\_\_\_ U ! 108-88-3----Toluene\_ !U 108-90-7----Chlorobenzene\_\_\_\_ 1:1 | 100-41-4----Ethylbenzene\_\_\_\_\_ 100-42-5-----

# NYSDEC SAMPLE!

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

| Lab Name: IT PITTSBURGH      |                     | Contract: <u>C002165</u> | : 93280101<br>:   |
|------------------------------|---------------------|--------------------------|-------------------|
| Lat, Code: ITPA Case         | e No.: <u>SH989</u> | SAS No.:SD               | G No.: 8910B      |
| Matrix: (soil/water) SOI     | IL                  | Lab Sample ID            | : <u>93280101</u> |
| Sample wt/vol:               | 4.2 (g/mL) G        | Lab File ID:             | 1061024N          |
| Level: (low/med) LOV         | <b>√</b>            | Date Received            | 10/21/89          |
| % Moisture: not dec. $\_2$   | <u>.</u>            | Date Analyzed            | 10/24/89          |
| Column (pack/cap) <u>PAC</u> | CK                  | Dilution Facto           | or: 1.0           |
|                              |                     |                          |                   |

Number TICs found: 2

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

| <br> | CAS | NUMBER |                    | COMPOUND | NAME | RT   | EST.        | CONC.    |                      | Q | : |
|------|-----|--------|--------------------|----------|------|------|-------------|----------|----------------------|---|---|
| -    | 1.  | •      | UNKNOWN<br>UNKNOWN |          |      | 2.33 | <b>====</b> | 85<br>14 | =   =:<br>  J<br>  J |   |   |

NYSDEC SAMPLE NO.

|              | 11       | 3        |      |       |
|--------------|----------|----------|------|-------|
| SEMIVOLATILE | ORGANICS | ANALYSIS | DATA | SHEET |

93280101 Lab Rame: IT PITTSBURGH Contract: C002165 Lat Code: ITPA Case No.: SH989 SAS No.: SDG No.: 8910B Matrix: (soil/water) SOIL Lab Sample ID: 93280101 Sample wt/vol: 30.0 (g/mL) G Lab File ID: 4071108D Level: (low/med) LOW Date Received: 10/21/89 % Moisture: not dec. 33 dec. Date Extracted: 10/31/89 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/08/39 GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/KG</u> 108-95-2----Phenol 990 l U 111-44-4----bis(2-Chloroethyl)Ether\_ 990 ¦ U

| -          | 95-57-82-Chlorophenol  | 000    |        |                                       |
|------------|--|--------|--------|---------------------------------------|
| i          | 95-57-82-Chlorophenol<br>541-73-11,3-Dichlorobenzene   | 990    | ¦ U    | i                                     |
| ٠į         | 106-46-71,4-Dichlorobenzene  | 990    | וט     | ł                                     |
|            | 100-51-6Benzyl Alcohol   | 130    | ١J     | ŀ                                     |
| į          | 95-50-11 2-Dickless  | 990    | ŧυ     | 1                                     |
|            | 95-50-11,2-Dichlorobenzene   | 990    | Įΰ     | 1                                     |
| i          | 95-48-72-Methylphenol  | 990    | ΙŪ     | 1                                     |
| 1          | 108-60-1bis(2-Chloroisopropyl)Ether  | 990    | ĮΨ     | - 1                                   |
| 1          | 106-44-54-Methylphenol   | 990    | ¦ Ŭ    | :                                     |
| 1          |  |        | U      | }                                     |
| , <b>i</b> | 6/-/2-1Hexachloroethane  | 990    | ; U    | ;                                     |
| i          | 67-72-1Hexachloroethane  98-95-3Nitrobenzene   | 990    | ΙŪ     | }                                     |
|            | /U JJ I """==""" Shinnarang  | 000    | ¦ U    | Ì                                     |
| i          | 88-75-52-Nitrophenol   | 990    | ! U    | i                                     |
| i          | 88-75-52-Nitrophenol   105-67-92,4-Dimethylphenol  | 990    | U      | Ì                                     |
| ł          | OUTOUTTTTTTTTBENZOIC ACID  | . 4000 | U      | i                                     |
| ļ          | - 1117717177777777777777777777777777777  | 000    | Ü      | į                                     |
| ì          | 120-83-22,4-Dichlorophenol   | 990    | Ü      | i                                     |
| ļ          | 120-83-22,4-Dichlorophenol   120-82-11,2,4-Trichlorobenzene                                    | 990    | Ü      |                                       |
| ŀ          | JI-2U-3Nanhthalana i   | 000    | Ü      | į                                     |
| !          | 106-47-84-Chloroaniline<br>87-68-3Hexachlorobutadiene  | 990    | Ü      | :                                     |
| !          | 87-68-3Hexachloroputadiene   | 990    | Ü      | :                                     |
| 1          | 59-50-74-Chloro-3-Methylphenol   | 990    | Ü      |                                       |
| 1          | 91-57-62-Methylnaphthalene   | 990    | Ü      |                                       |
|            |  |        | Ü      | !                                     |
| !          | 88-06-22,4,6-Trichlorophenol   | 990    | U      | į.                                    |
| í          | 88-06-22,4,6-Trichlorophenol 95-95-42,4,5-Trichlorophenol                                      | 4800   | ָ<br>ט | • • • • • • • • • • • • • • • • • • • |
| ì          | 91-58-72-Chloronaphthalene   | 990    | U      | 1                                     |
| !          | 88-742-Nitrospiline  | 4800   | Ü      | 1                                     |
| :          | 91-58-72-Chloronaphthalene   88-74-4  2-Nitroaniline   131-11-3  Dimethyl Phthalate   208-26-3 | 990    | 117    | :                                     |
|            | 208-96-8Acenarhthylene   | 990    | l U    |                                       |
| !          | 208-96-8Acenarhthylene   | 990    |        |                                       |
| 1          | ooo ao a a a a a a a a a a a a a a a a   | 990    | ijÜ    |                                       |

### MYSDEC SAMPLE NO

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

93280101 Lab Name: IT PITTSBURGH Contract: C002165 Lab Code: ITPA Case No.: SH989 SAS No.: SDG No.: 8910B Matrix: (soil/water) SOIL Lab Sample ID: 93280101 Sample wt/vol: 30.0 (g/mL) G Lab File ID: 4071108D Level: (low/med) LOW Date Received: 10/21/89 % Moisture: not dec. 33 dec. Date Extracted: 10/31/89 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/03/39 GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q | 99-09-2----3-Nitroaniline\_\_\_\_\_ 4800 ! U 83-32-9-----Acenaphthene\_\_\_\_ 990 ¦ U | 51-28-5----2,4-Dinitrophenol\_\_\_\_\_ 4800 | U 100-02-7----4-Nitrophenol\_\_\_\_\_ 4800 ΙU 132-64-9-----Dibenzofuran\_\_\_ 990 U 121-14-2----2,4-Dinitrotoluene\_\_\_\_ 990 !U 84-66-2----Diethylphthalate\_\_\_ 990 ! U 7005-72-3----4-Chlorophenyl-phenylether\_\_\_ 990 U 86-73-7----Fluorene\_ 990 ! U | 100-01-6-----4-Nitroaniline\_ 4800 ¦ U | 534-52-1----4,6-Dinitro-2-Methylphenol\_\_\_\_ 4800 ; U | 86-30-6----N-Nitrosodiphenylamine (1)\_\_\_\_ 990 ! U 101-55-3----4-Bromophenyl-phenylether\_\_\_\_ 990 ! U 118-74-1----Hexachlorobenzene\_\_\_\_ 990 U 87-86-5----Pentachlorophenol\_\_\_\_ 4800 | U 85-01-8-----Phenanthrene\_ 990 ! U 120-12-7----Anthracene\_ 990 ! U 84-74-2----Di-n-Butylphthalate\_\_\_\_ 100 IJ 206-44-0----Fluoranthene\_\_\_\_ 990 ; U | 129-00-0----Pyrene\_ 990 ! U 85-68-7-----Butylbenzylphthalate\_\_ 990 U 91-94-1----3,3'-Dichlorobenzidine\_\_\_\_ 2000 U | 56-55-3----Benzo(a)Anthracene\_\_\_\_ 990 !U | 218-01-9-----Chrysene\_ 990 !U 117-81-7----bis(2-Ethylhexyl)Phthalate\_\_\_\_ 420 |J | 117-84-0----Di-n-Octyl Phthalate\_\_\_\_\_ 990 ! U 205-99-2----Benzo(b)Fluoranthene\_\_\_\_ 990 ; U 207-08-9----Benzo(k)Fluoranthene\_\_\_\_\_ 990 1 U | 50-32-8-----Benzo(a)Pyrene\_\_ 990 | U | 193-39-5----Indeno(1,2,3-cd)Pyrene\_\_\_\_ ; U 990 53-70-3-----Diberz(a,h)Anthracene\_\_\_\_ 990 10 191-24 · ···---Benzo(g,h,i)Perylene\_\_\_\_ 990 10

## NYSDEC SAMPLE A

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>IT PITTSBURGH</u> \_\_\_\_\_ Contract: C002165 93230101

Matrix: (soil/water) SOIL

Lab Sample ID: 93280101

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 4071108D

Level: (low/med) LOW

Date Received: 10/21/39

% Moisture: not dec. 33 dec. Date Extracted: 10/31/39

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 11/08/89

GPC Cleanup: (Y/N) Y pH: 6.9 Dilution Factor: 1.0

Number TICs found: 15

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

| CAS NUMBER   | COMPOUND NAME   | RT    | EST. CONC.                 | Q           |
|--|---|-------|----------------------------|-------------|
| 1. 2. 3. 4. 98-86-2 5. 932-98-9 6. 7. 32038-83-8 8. 6285-05-8 9. 10. 11. 12. 13. 14. 15. | UNKNOWN UNKNOWN UNKNOWN ETHANONE, 1-PHENYL- BENZENE, 1-CHLORO-4-NITROSO- UNKNOWN 2-PROPYNENITRILE, 3-FLUORO- 1-PROPANONE, 1-(4-CHLOROPHENY) UNKNOWN | 26.14 | 620<br>2100<br>1600<br>970 | =====     J |

| NYSDEC | SAMPLE | 110 |
|--------|--------|-----|
|        |        |     |

I INORGANIC ANALYSES DATA SHEET

| Lab Name: (                                   | TAS_FITTSBURG | H   | Contract: Co    | 002165    | <br>  28010<br>                       | 01     |
|---|---------------|---|-----------------|-----------|---------------------------------------|--------|
| Lab Code: Il                                  | TFA C         | ase No.: SH                                 | 989 SAS No.:    |           | SDG No.:                              | 8910-B |
|   | l/water): SOI |   |                 | Lab Sampl |                                       |        |
| Level (low/m                                  | ned): LOW     |   | •               |           |                                       |        |
| % Solids:                                     | _55           |   |                 | Date Rece | 1V <b>ed:</b> 10/2                    | 21/89  |
|   |               |   |                 | •         |                                       | •      |
|   | Concentration | Units (ug                                   | /L or mg/kg dry | weight):  | MG/KG                                 |        |
|   |               |   |                 |           |                                       |        |
|   | ICAS No.      | ∃ Analyte                                   |                 | CI D      | 1 1<br>1 1                            |        |
| •   | 17429-90-5    | Aluminum                                    | 104001          | _         | <del>_</del> !                        |        |
|   | 17440-36-0    | IAntimony                                   | 3.51            |           | ·' !                                  |        |
|   | 17440-38-2    | JArsenic                                    |                 | U!N!      | · _ !                                 |        |
|   | 17440-39-3    | Barium                                      | 1331            | _         | •                                     |        |
|   | 17440-41-7    | Bervllium                                   | 1.51            |           | ( <u> </u>                            |        |
|   | 17440-43-9    | Cadmium                                     | 0.591           | 1         | · !                                   |        |
|   | 17440-70-2    | Calcium                                     | 417001          | U)        | ·                                     |        |
|   | 1/440-4/23    | i Chromium I                                | 44 DI           | · 1       | ( 1                                   |        |
|   | 17440-48-4    | Cobalt                                      | 11.61           | _ )   r   |                                       | ÷      |
|   | 17440-50-8    | Copper                                      | 2861            | N)[       | . <del></del>                         |        |
|   | 17439-89-6    | Iron  | 204001          | -'        | 1                                     |        |
|   | 1/407-72-1    | ILBAD                                       | AP 4!           | 1 4. 157  |                                       |        |
|   | 17429-95-4    | Magnesium                                   | 77601           |           | _ ' .                                 |        |
|   | 17439-96-5    | Manganese                                   | 5801            | -         | - 1                                   |        |
|   | 1/437-7/-8    | :mercury /                                  | 0.571           | N* 10     | Q.L                                   |        |
|   | 1/440-05-0    | Nickel[                                     | 72.81           | 1 16      | 1                                     |        |
|   | 17440-09-7    | lPotassiuml                                 | 17601           | 1 15      | - <u>i</u>                            |        |
|   | 17782-49-2    | Selenium_                                   | 0.601U          | JI N IF   | ~ · ·                                 |        |
|   | 17440-22-4    | Silver                                      | 0.9618          | BI N IP   | _ ·<br>                               |        |
|   | 17440-23-5    | Sodium                                      | 257 LE          | 31 (P     | ·<br>                                 |        |
|   | 17440-28-0    | hallium                                     | 0.6011          | JI IF     | ✓                                     |        |
|   | 17440-62-2    | Vanadium_                                   | 32.1            | 1 18      | · I                                   |        |
|   | 17440-66-6    | Zinc/                                       | 1021            | 1_E1P     |                                       |        |
|   |               |   |                 |           | 1                                     |        |
|   |               |   |                 | _ 1 1 _   | (+                                    |        |
| Calor Before:                                 | BLACK         | Clarit                                      | y Before:       | T         | exture:                               | MEDIUM |
| Colon After:                                  | BLACK         | Clarit                                      | y After:        | A         | rtifacts:                             | YES    |
| Comments:<br>ARTIFACTS:                       | ROOTS         | THE ST. |                 |           |                                       |        |
|   |               |   |                 |           | · · · · · · · · · · · · · · · · · · · |        |
| and dept was drop that the last, was the way. |               |   |                 |           |                                       | · ·    |
|   |               |   |                 | ·         |                                       |        |

## NYSDEC SAMPLE NO.

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| -72 <b>€</b> 344 <b>:</b><br>-7- | er Englisher   | EPI  |  |                                       | Tigger Heli  | ٠                                   | en. inner<br>Til   |
| -72 <b>€</b> 344 <b>:</b><br>-7- | er Englisher   | EPI  |  |                                       | Tigger Heli  | ٠                                   |  |
| # -                              | en gegen en e   |  | · · · · · · · · · · · · · · · · · · ·  |                                       |  | <b>س</b> ر                          |  |
|                                  |  |  |  | i i                                   | · · · · ·  | _                                   |  |
|                                  |  |  |  |                                       | •  | -:\i                                |  |
| •                                | ing<br>National Professional   | ;  |  |                                       |  |                                     |  |
|                                  | * , <del>* </del>  |  | :  | 1                                     | †  | :                                   |  |
|                                  |  | 1 27 11 40                                 | ! Tarretor Ar  |                                       | îi O   | 1.0                                 | : Standard   |
|                                  | The second secon | 1<br>                                      | :<br>:<br>: ::::::::::::::::::::::::::::::::   | Pb                                    |  | 1                                   | •  |
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|                                  |  | 11 70 20 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | · <del></del>  | 1.4                                   |  | F .                                 | : v> 5.0   |
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|                                  | Park Here  | 1 Type by the control of                   |  | 4 7:                                  |  |                                     | vs 1.0   |
|                                  | The second   |  |  | -                                     |  |                                     | V 5 5.0  |
|                                  | 2430-52-1  | totanomi, 😿 📑                              |  | ī<br>Ciroli                           | ·  | ,                                   | V5 0.2   |
|                                  | T723443 2 45   | 人名英意森特 化基础                                 |  | 14 . 11 14                            | ; j.   |                                     | V) 1.0   |
|                                  | <b>一个4分量要用</b> 从。  |  |  |                                       |  | =                                   | V5 5.0   |
|                                  | •  | 1  |  | · · · · · · · · · · · · · · · · · · · |  |                                     | Y > 5.0  |
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| i.                               |  |  |  |                                       |  |                                     |  |
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| ı                                |  |  |  | . <u></u> i                           | 1  | 1                                   |  |
| or Bofore: (                     | COLCRUESS  | Cimmit                                     | v Refore:  | CLEAR                                 |  | Ter                                 | tus estro <del>n</del> e   |
| lor After:                       | CELERIES   | Slarib                                     | y இறிந்துள் ந  | CLEAS                                 |  | Lint                                | ifact=* ;  |
| nmenyt B t                       |  |  |  |                                       |  |                                     |  |

IT ANALYTICAL SERVICES PITTSBURGH, PA

NYSDEC

Date: 11/18/89

Case: SH989

SDG:8910D

|  | E.P. | Toxicity | Leachate | Analysis | of | Pesticides |
|--|------|----------|----------|----------|----|------------|
|--|------|----------|----------|----------|----|------------|

| Sample ID:      | Lindane | Endrin | Methoxychlor       | Toxaphene |
|-----------------|---------|--------|--------------------|-----------|
|                 |         | Concer | itration $\mu$ g/L |           |
| Blank 10/30/89  | ND0.05  | NDO.10 | NDO.5              | ND1.0     |
| EP-PB 10/26/89  | ND0.05  | NDO.10 |                    | ND1.0     |
| 902001-01       | NDO.05  | NDO.10 | NDO.5              | ND1.0     |
| 902001-02       | NDO.05  | NDO.10 | NDO.5              | ND1.0     |
| 902001-03       | NDO.05  | NDO.10 | NDO.5              | ND1.0     |
| 915008A-01      | ND0.05  | NDO.10 | NDO.5              | ND1.0     |
| 915008A-02      | ND0.05  | NDO.10 |                    | ND1.0     |
| 915105-01       | NDO.05  | NDO.10 | NDO.5              | ND1.0     |
| 915105-02       | NDO.05  | NDO.10 | NDO.5              | ND1.0     |
| 915105-03       | NDO.05  | NDO.10 | NDO.5              | ND1.0     |
| RMP > 932801-01 | ND0.05  | ND0.10 | NDO.5              | ND1.0     |

Matrix Spike Percent Recovery

|                | Lindane | Endrin       | Methoxychlor |
|----------------|---------|--------------|--------------|
|                | Pe      | rcent Recovi | ery          |
| 915008A-02 MS  | 84%     | 106%         | 106%         |
| 915008A-02 MSD | 86%     | 130%         | 107%         |

NYSDEC Date: 11/18/89

Case:

SH989

SDG:8910D

| E.P. 7 | Toxicity | Leachate | Analysis | of | Herbicides |
|--------|----------|----------|----------|----|------------|
|--------|----------|----------|----------|----|------------|

| Sample ID:           | 2,4-D                            | 2,4,5-TP<br>(Silvex) |
|----------------------|----------------------------------|----------------------|
| Blank 10/30/89       | ND12                             | ND1.7                |
| EP-PB 10/26/89       | ND12                             | ND1.7                |
| 902001-01            | ND12                             | ND1.7                |
| 902001-02            | ND12                             | ND1.7                |
| 902001-03            | ND12                             | ND1.7                |
| 915008A- <b>01</b>   | ND12                             | ND1.7                |
| 915008A- <b>02</b>   | ND12                             | ND1.7                |
| 915105-01            | ND12                             | ND1.7                |
| 915105-02            | ND12                             | ND1.7                |
| 915105-03            | ND12                             | ND1.7                |
| 932801-01            | ND12                             | ND1.7                |
| PMP 932801-01        | Matrix Spike<br>Percent Recovery |                      |
|                      | 2,4-D                            | 2,4,5-TP<br>(Silvex) |
| Blank Spike 10/30/89 | 67%                              | 61%                  |
| 915008A-02 MSD       | 74%                              | 62%                  |

**a** = 1111 = **b** 

MAR 2 0 1991

ENVIRONM NO CONSERVATION