YS-7900 D4452

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK

PRELIMINARY SITE ASSESSMENT
VOLUME 2: APPENDICES

Walmore Road - Johnson Property
Site Number 932101
Town of Wheatfield, Niagara County

October 1994

Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233

Langdon Marsh, Commissioner

Division of Hazardous Waste Remediation

Michael J. O'Toole, Jr., P.E., Director

Prepared by:

Ecology and Environment Engineering, P.C.

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ecology and environment
engineering, p.c.
BUFFALO CORPORATE CENTER
368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060

APPENDIX A

EPA 2070-13 SITE INSPECTION FORM

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 State	02 Site Number
NY	932101

II. SITE NAME AND LOCATION

01 Site Name (legal, common, or descriptive name of site)	02 Street, Route No., or specific location identifier
Walmore Road - Johnson Property	6373 Walmore Road

03 City	04 State	05 Zip Code	06 County	07 County Code	08 Cong. Dist.
Town of Wheatfield	NY	14304	Niagara	063	

09 Coordinates Latitude	Longitude	10 Type of Ownership (check one)
43° 06' 58" N	78° 55' 25" W	[X] A. Private [ ] B. Federal _____ [ ] C. State [ ] D. County [ ] E. Municipal [ ] F. Other _____ [ ] G. Unknown

III. INSPECTION INFORMATION

01 Date of Inspection	02 Site Status	03 Years of Operation
6 / 23 / 93 (Month Day Year)	[ ] Active [X] Inactive	_____ | _____ (Beginning Year Ending Year) [X] Unknown (prior to 1980)

04 Agency Performing Inspection (check all that apply)
[ ] A. EPA [ ] B. EPA Contractor _____ (name of firm) [ ] C. Municipal [ ] D. Municipal Contractor _____ (name of firm)
[ ] E. State [X] F. State Contractor Ecology and Environment Engineering, P.C. (name of firm) [ ] G. Other _____ (specify)

05 Chief Inspector	06 Title	07 Organization	08 Telephone No.
Chad Eich	Biologist	E & E	(716) 684-8060
09 Other Inspectors	10 Title	11 Organization	12 Telephone No.
Michelle Christman	Environmental Scientist	E & E	(716) 684-6060
Abul Barkat	Engineer	NYSDEC	(716) 847-4585
			( )
			( )

13 Site Representatives Interviewed	14 Title	15 Address	16 Telephone No.
			( )
			( )
			( )
			( )

17 Access Gained by (check one)	18 Time of Inspection	19 Weather Conditions
[X] Permission [ ] Warrant	10:00 a.m.	Sunny, 80°F

IV. INFORMATION AVAILABLE FROM

01 Contact	02 Of (Agency/Organization)	03 Telephone No.
Abul Barkat	NYSDEC	(716) 847-4585

04 Person Responsible for Site Inspection Form	05 Agency	06 Organization	07 Telephone No.	08 Date
Richard Watt		E & E	(716) 684-8060	1 / 13 / 94 (Month Day Year)

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 State	02 Site Number
NY	932101

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 Physical States (check all that apply)

[X] A. Solid
[X] B. Powder, Fines
[ ] C. Sludge
[ ] D. Other _____
[ ] E. Slurry
[ ] F. Liquid
[ ] G. Gas

02 Waste Quantity at Site (measure of waste quantities must be independent)

Tons _____
Cubic Yards approx. 7,500
No. of Drums _____

03 Waste Characteristics (check all that apply)

[X] A. Toxic
[ ] B. Corrosive
[ ] C. Radioactive
[ ] D. Persistent
[ ] E. Soluble
[ ] F. Infectious
[ ] G. Flammable
[ ] H. Ignitable
[ ] I. Highly volatile
[ ] J. Explosive
[ ] K. Reactive
[ ] L. Incompatible
[ ] M. Not applicable

III. WASTE TYPE

Category	Substance Name	01 Gross Amount	02 Unit of Measure	03 Comments
SLU	Sludge			This property reportedly has been backfilled with graphite,
OLW	Oily waste			plastic battery cases, hardened resins, heat-treating salts,
SOL	Solvents			flyash, plastic tank sludge, and scrap wood to a depth of 5
PSD	Pesticides			feet. Fill actually encountered includes soil, graphite and
OOC	Other organic chemicals			flyash to maximum depth of 8 feet.
IOC	Inorganic chemicals			
ACD	Acids			
BAS	Bases			
MES	Heavy metals			

IV. HAZARDOUS SUBSTANCES (see Appendix for most frequently cited CAS Numbers)

01 Category	02 Substance Name	03 CAS Number	04 Storage/Disposal Method	05 Concentration	06 Measure of Concentration
OOC	PAHs			Various (max. 190)	ppm in samples
PSD	Numerous			Various (max. 1,200)	ppb in samples
MES	Numerous			Various	ppm in samples

V. FEEDSTOCKS (see Appendix for CAS Numbers)

Category	01 Feedstock Name	02 CAS Number	Category	01 Feedstock Name	02 CAS Number
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

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

Niagara County Department of Health files, Niagara Falls, New York; NYSDEC, Division of Solid and Hazardous Wastes, Inactive Hazardous Waste Disposal Report.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 State	02 Site Number
NY	932101

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. Groundwater Contamination
03 Population Potentially Affected Unknown
02 [ ] Observed (date _____)
04 Narrative Description:
[X] Potential [ ] Alleged

Potential exists because contaminants were detected in fill and leachate may enter groundwater system. However, well on site was sampled in 1985 by NCDOH and no contaminants were detected, therefore potential only. Groundwater is used for drinking water within 3 miles of the site.

01 [ ] B. Surface Water Contamination
03 Population Potentially Affected _____
02 [ ] Observed (date _____)
04 Narrative Description:
[ ] Potential [ ] Alleged

No site-related contaminants detected at elevated levels downstream.

01 [ ] C. Contamination of Air
03 Population Potentially Affected Unknown
02 [ ] Observed (date _____)
04 Narrative Description:
[ ] Potential [ ] Alleged

No organic vapors detected at surface; very low VOC concentrations in fill; soil/sod cover appears adequate to eliminate dust.

01 [ ] D. Fire/Explosive Conditions
03 Population Potentially Affected Unknown
02 [ ] Observed (date _____)
04 Narrative Description:
[ ] Potential [ ] Alleged

Fill samples not ignitable (no flash at 140°F).

01 [ ] E. Direct Contact
03 Population Potentially Affected Unknown
02 [ ] Observed (date _____)
04 Narrative Description:
[X] Potential [ ] Alleged

Potential indirect contact if excavation (for plumbing, plantings, etc.)

01 [X] F. Contamination of Soil
03 Area Potentially Affected ~1 acres
02 [ ] Observed (date _____)
04 Narrative Description:
[X] Potential [ ] Alleged

Potential exists; fill material is in direct contact with soil. However, off-fill surface soil contains similar compounds as fill which are likely the result of background contamination.

01 [X] G. Drinking Water Contamination
03 Population Potentially Affected Unknown
02 [ ] Observed (date _____)
04 Narrative Description:
[X] Potential [ ] Alleged

No groundwater samples were collected; however; groundwater is used for drinking water within 3 miles of the site.

Potential exists as groundwater is used as a source of drinking water on the Tuscarora Indian Reservation. However, groundwater flow in this area is generally south-southwest towards the PASNY conduits and away from the Tuscarora Reservation.

01 [ ] H. Worker Exposure/Injury
03 Workers Potentially Affected _____
02 [ ] Observed (date _____)
04 Narrative Description:
[ ] Potential [ ] Alleged

None reported; fill material is covered with soil and vegetation.

01 [ ] I. Population Exposure/Injury
03 Population Potentially Affected _____
02 [ ] Observed (date _____)
04 Narrative Description:
[ ] Potential [ ] Alleged

None reported; fill material is covered with soil and vegetation.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 State	02 Site Number
NY	932101

II. HAZARDOUS CONDITIONS AND INCIDENTS (Cont.)

01 [ ] J. Damage to Flora — 02 [ ] Observed (date _____) — [ ] Potential — [ ] Alleged
04 Narrative Description:

None reported or observed; waste is covered with soil and vegetation.

01 [ ] K. Damage to Fauna — 02 [ ] Observed (date _____) — [ ] Potential — [ ] Alleged
04 Narrative Description:

None reported; waste is covered with soil and vegetation.

01 [X] L. Contamination of Food Chain — 02 [ ] Observed (date _____) — [X] Potential — [ ] Alleged
04 Narrative Description:

Potential exists if bank erosion exposes fill to Cayuga Creek. However, currently no site-related surface water or sediment contamination observed.

01 [ ] M. Unstable Containment of Wastes (spills/ runoff/standing liquids, leaking drums) — 02 [ ] Observed (date _____) — [ ] Potential — [ ] Alleged
03 Population Potentially Affected: ____
04 Narrative Description:

Waste is covered with approximately 0.5 feet of soil and vegetation, and no leachate observed.

01 [ ] N. Damage to Off-site Property — 02 [ ] Observed (date _____) — [ ] Potential — [ ] Alleged
04 Narrative Description:

None reported.

01 [ ] O. Contamination of Sewers, Storm Drains, WWTPs — 02 [ ] Observed (date _____) — [ ] Potential — [ ] Alleged
04 Narrative Description:

None reported. No storm sewers are located near site.

01 [X] P. Illegal/Unauthorized Dumping — 02 [ ] Observed (date _____) — [ ] Potential — [ ] Alleged
04 Narrative Description:

Unable to document source of fill. Site currently inactive.

05 Description of Any Other Known, Potential, or Alleged Hazards

None identified.

III. TOTAL POPULATION POTENTIALLY AFFECTED 413 within 1 mile, total number within 3 miles is unknown.

IV. COMMENTS

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

NYSDEC Phase I investigation June 1989; Ecology and Environment Engineering, P.C. Site Inspection, May 2, 1991; Niagara County Health Department files, Niagara Falls, New York; Niagara County Department of Planning, Lockport, New York; Town of Wheatfield (NY) Water Division

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 State	02 Site Number
NY	932101

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 (check all that apply)	02 Amount	03 Unit of Measure
[ ] A. Surface Impoundment		
[ ] B. Piles		
[ ] C. Drum, Aboveground		
[ ] D. Tank, Aboveground		
[ ] E. Tank, Belowground		
[X] F. Landfill	7500	yd^3
[ ] G. Landfarm		
[ ] H. Open Dump		
[ ] I. Other _____ (specify)		

04 Treatment (check all that apply)

- [ ] A. Incineration
- [ ] B. Underground Injection
- [ ] C. Chemical/Physical
- [ ] D. Biological
- [ ] E. Waste Oil Processing
- [ ] F. Solvent Recovery
- [ ] G. Other Recycling Recovery
- [ ] H. Other _____ (specify)

05 Other

[X] Buildings On Site

06 Area of Site

0.8 Acres of fill on 2 acre parcel of land.

07 Comments

Contaminants detected in fill samples, but did not meet the definition of a hazardous waste.

IV. CONTAINMENT

01 Containment of Wastes (check one)

[ ] A. Adequate, Secure [X] B. Moderate [ ] C. Inadequate, Poor [ ] D. Insecure, Unsound, Dangerous

02 Description of Drums, Diking, Liners, Barriers, etc.

Waste was used as fill material, placed on land surface, and covered.

V. ACCESSIBILITY

01 Waste Easily Accessible [X] Yes [ ] No

02 Comments

Waste covered by approximately 0.5 feet of soil and vegetation.

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

Niagara County Department of Health files, Niagara Falls, New York; Ecology and Environment Engineering, P.C. Site Inspection, May 2, 1991; NYSDEC Engineering Investigation Phase I, June 1989.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 State	02 Site Number
NY	932101

II. DRINKING WATER SUPPLY

01 Type of Drinking Supply (check as applicable)

	Surface	Well
Community	A. [X]	B. [ ]
Non-community	C. [X]	D. [X]

02 Status

Endangered	Affected	Monitored
A. [ ]	B. [ ]	C. [X]
D. [ ]	E. [ ]	F. [X]

03 Distance to Site

A 5.5 (mi)

B 5.5/~3.0 (mi)

III. GROUNDWATER

01 Groundwater Use in Vicinity (check one)

[ ] A. Only Source for Drinking [X] B. Drinking (other sources available) Commercial, Industrial, Irrigation (no other water sources available) [ ] C. Commercial, Industrial, Irrigation (limited other sources available) [ ] D. Not Used, Unusable

02 Population Served by Groundwater Unknown

03 Distance to Nearest Drinking Water Well ~3 (mi)

04 Depth to Groundwater	05 Direction of Groundwater Flow	06 Depth to Aquifer of Concern	07 Potential Yield of Aquifer	08 Sole Source Aquifer
5 (ft)	Southwest	15 (ft)	Unknown (gpd)	[ ] Yes [X] No [ ] Unknown

09 Description of Wells (including usage, depth, and location relative to population and buildings)

One well reportedly on site but no longer used. Wells within 3 miles of site are used for irrigation purposes only. Approximately 3 miles north of site drinking water wells exist a Tuscarora Reservation.

10 Recharge Area

[X] Yes | Comments: Unconsolidated deposits. Aquifer is recharged with precipitation

[ ] No |

11 Discharge Area

[X] Yes | Comments: Discharge likely occurs to Cayuga Creek

[ ] No |

IV. SURFACE WATER

01 Surface Water (check one)

[ ] A. Reservoir, Recreation, Drinking Water Source [ ] B. Irrigation, Economically Important Resources [ ] C. Commercial, Industrial [X] D. Not Currently Used

02 Affected/Potentially Affected Bodies of Water

Name:	Affected	Distance to Site
Cayuga Creek	[ ]	0 (mi)
Niagara River	[ ]	3.5 (mi)
	[ ]	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 Total Population Within	One (1) Mile of Site	Two (2) Miles of Site	Three (3) Miles of Site	02 Distance to Nearest Population
	A. 413 No. of Persons	B. 5,072 No. of Persons	C. 21,584 No. of Persons	0 (mi)

03 Number of Buildings Within Two (2) Miles of Site

1,181

04 Distance to Nearest Off-Site Building

< 0.1 (mi)

05 Population Within Vicinity of Site (provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Site located in semi-rural area. Niagara Falls Air Force Base adjacent to site. City of Niagara Falls approximately 1.5 miles to the southwest of site.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 State: NY

02 Site Number: 932101

VI. ENVIRONMENTAL INFORMATION

01 Permeability of Unsaturated Zone (check one)

[ ] A. Impermeable (less than 10^{-6} cm/sec) [X] B. Relatively Impermeable (10^{-4} - 10^{-6} cm/sec) [ ] C. Relatively Permeable (10^{-2} - 10^{-4} cm/sec) [ ] D. Very Permeable (greater than 10^{-2} cm/sec)

02 Permeability of Bedrock (check one)

[ ] A. Impermeable (less than 10^{-6} cm/sec) [ ] B. Relatively Impermeable (10^{-4} - 10^{-6} cm/sec) [X] C. Relatively Permeable (10^{-2} - 10^{-4} cm/sec) [ ] D. Very Permeable (greater than 10^{-2} cm/sec)

03 Depth to Bedrock	04 Depth of Contaminated Soil Zone	05 Soil pH
15-20 (ft)	1 (ft)	6.9-8.6

06 Net Precipitation	07 One Year 24-Hour Rainfall	08 Slope: Site Slope	Direction of Site Slope	Terrain Average Slope
4 (in)	2.5 (in)	2 %	NW	2 %

09 Flood Potential

Site is in 100 Year Floodplain

10 [ ] Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway

11 Distance to Wetlands (5 acre minimum)

ESTUARINE OTHER

A. NA (mi) B. 2.25 (mi)

12 Distance to Critical Habitat (of endangered species)

NA (mi)

Endangered Species: _____

13 Land Use in Vicinity

Distance to:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 0.1 (mi)	B. 0 (mi)	C. 0 (mi)	D. 0 (mi)

14 Description of Site in Relation to Surrounding Topography

This site is located in a flat area. The property is bounded on the west by Walmore Road, Cayuga Creek to the north and a Conrail railroad track embankment to the northeast and east. Rainwater runoff is expected to enter Cayuga Creek, which flows southwest to Niagara River.

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

USGS 7.5 Minute Topographic Maps, Ransomville and Tonawanda West Quads
FEMA Flood Insurance Maps
Soil Survey of Niagara County, New York
Niagara County Department of Health, Niagara Falls, New York
Town of Wheatfield Water Department, Wheatfield, New York
NYSDEC Phase I Investigation, June 1989

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 State	02 Site Number
NY	932101

II. SAMPLES TAKEN

Sample Type	01 Number of Samples Taken	02 Samples Sent To	03 Estimated Date Results Available
Groundwater	NA		
Surface Water	3	E & E Analytical Services Center	2/14/94
Waste	11	E & E Analytical Services Center	2/14/94
Air	NA		
Runoff	NA		
Spill	NA		
Soil	3	E & E Analytical Services Center	2/14/94
Vegetation	NA		
Other: Sediment	3	E & E Analytical Services Center	2/14/94

III. FIELD MEASUREMENTS TAKEN

01 Type	02 Comments
Air	Performed with HNu photoionization detector during site inspection. No readings above background noted.
Radiation	Performed with Radiation Alert Monitor 4EC during site inspection. No readings above background noted.

IV. PHOTOGRAPHS AND MAPS

01 Type [X] Ground [X] Aerial	02 In Custody of Ecology and Environment Engineering, P.C; Niagara County EMC (name of organization or individual)

03 Maps	04 Location of Maps
[X] Yes [ ] No	NYSDEC, Region 9 and Ecology and Environment Engineering, P.C. Buffalo

V. OTHER FIELD DATA COLLECTED (provide narrative description of sampling activities)

Surveyed sample locations and physical features of site.

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

Niagara County Department of Health
Niagara County Environmental Management Council
NYSDEC Phase I Investigation Report, June 1989
Ecology and Environment Engineering, P.C., Site Inspection, May 2, 1991

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 State NY	02 Site Number 932101

II. CURRENT OWNER(S)			PARENT COMPANY (if applicable)		
01 Name T. Dean and Pamela Johnson, Jr.	02 D&B Number		08 Name	09 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.) 4169 Purdy Road		04 SIC Code	10 Street Address (P.O. Box, RFD #, etc.)		11 SIC Code
05 City Lockport	06 State NY	07 Zip Code 14094	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	03 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)		
01 Name	02 D&B Number		01 Name	02 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code	03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code
05 City	06 State	07 Zip Code	05 City	06 State	07 Zip Code
01 Name	02 D&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)

Town of Wheatfield Tax Map No. 147.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 State: NY	02 Site Number: 932101

II. CURRENT OPERATOR (provide if different from owner)			OPERATOR'S PARENT COMPANY (if applicable)		
01 Name	02 D&B Number		10 Name	11 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.)	04 SIC Code		12 Street Address (P.O. Box, RFD #, etc.)	13 SIC Code	
05 City	06 State	07 Zip Code	14 City	15 State	16 Zip Code
08 Years of Operation	09 Name of Owner				

III. PREVIOUS OPERATOR(S) (list most recent first; provide if different from owner)			PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)		
01 Name	02 D&B Number		10 Name	11 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.)	04 SIC Code		12 Street Address (P.O. Box, RFD #, etc.)	13 SIC Code	
05 City	06 State	07 Zip Code	14 City	15 State	16 Zip Code
08 Years of Operation	09 Name of Owner During this Period				
01 Name	02 D&B Number		10 Name	11 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.)	04 SIC Code		12 Street Address (P.O. Box, RFD #, etc.)	13 SIC Code	
05 City	06 State	07 Zip Code	14 City	15 State	16 Zip Code
08 Years of Operation	09 Name of Owner During this Period				
01 Name	02 D&B Number		10 Name	11 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.)	04 SIC Code		12. Street Address (P.O. Box, RFD #, etc.)	13 SIC Code	
05 City	06 State	07 Zip Code	14 City	15 State	16 Zip Code
08 Years of Operation	09 Name of Owner During this Period				

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

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 State: NY	02 Site Number: 932101

II. ON-SITE GENERATOR

01 Name	02 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.)	04 SIC Code	
05 City	06 State / 07 Zip Code	

III. OFF-SITE GENERATOR(S)

01 Name	02 D&B Number	01 Name	02 D&B Number
03 Street Address (P.O. Box, RFD #, etc.)	04 SIC Code	03 Street Address (P.O. Box, RFD #, etc.)	04 SIC Code
05 City	06 State / 07 Zip Code	05 City	06 State / 07 Zip Code
01 Name	02 D&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

IV. TRANSPORTER(S)

01 Name: Haseley Trucking Co.	02 D&B Number	01 Name	02 D&B Number
03 Street Address (P.O. Box, RFD #, etc.): 10315 Lockport Road	04 SIC Code	03 Street Address (P.O. Box, RFD #, etc.)	04 SIC Code
05 City: Wheatfield	06 State: NY / 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)

Hopkins 1984a.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 State	02 Site Number
NY	932101

II. PAST RESPONSE ACTIVITIES

01 [ ] A. Water Supply Closed 04 Description:	02 Date _____	03 Agency _____
01 [ ] B. Temporary Water Supply Provided 04 Description:	02 Date _____	03 Agency _____
01 [ ] C. Permanent Water Supply Provided 04 Description:	02 Date _____	03 Agency _____
01 [ ] D. Spilled Material Removed 04 Description:	02 Date _____	03 Agency _____
01 [ ] E. Contaminated Soil Removed 04 Description:	02 Date _____	03 Agency _____
01 [ ] F. Waste Repackaged 04 Description:	02 Date _____	03 Agency _____
01 [ ] G. Waste Disposed Elsewhere 04 Description:	02 Date _____	03 Agency _____
01 [ ] H. On-Site Burial 04 Description:	02 Date _____	03 Agency _____
01 [ ] I. In Situ Chemical Treatment 04 Description:	02 Date _____	03 Agency _____
01 [ ] J. In Situ Biological Treatment 04 Description:	02 Date _____	03 Agency _____
01 [ ] K. In Situ Physical Treatment 04 Description:	02 Date _____	03 Agency _____
01 [ ] L. Encapsulation 04 Description:	02 Date _____	03 Agency _____
01 [ ] M. Emergency Waste Treatment 04 Description:	02 Date _____	03 Agency _____
01 [ ] N. Cutoff Walls 04 Description:	02 Date _____	03 Agency _____
01 [ ] O. Emergency Diking/Surface Water Diversion 04 Description:	02 Date _____	03 Agency _____
01 [ ] P. Cutoff Trenches/Sump 04 Description:	02 Date _____	03 Agency _____

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 State	02 Site Number
NY	932101

II. PAST RESPONSE ACTIVITIES (Cont.)

01 [ ] Q. Subsurface Cutoff Wall 04 Description:	02 Date _____	03 Agency _____
01 [ ] R. Barrier Walls Constructed 04 Description:	02 Date _____	03 Agency _____
01 [ ] S. Capping/Covering 04 Description:	02 Date _____	03 Agency _____
01 [ ] T. Bulk Tankage Repaired 04 Description:	02 Date _____	03 Agency _____
01 [ ] U. Grout Curtain Constructed 04 Description:	02 Date _____	03 Agency _____
01 [ ] V. Bottom Sealed 04 Description:	02 Date _____	03 Agency _____
01 [ ] W. Gas Control 04 Description:	02 Date _____	03 Agency _____
01 [ ] X. Fire Control 04 Description:	02 Date _____	03 Agency _____
01 [ ] Y. Leachate Treatment 04 Description:	02 Date _____	03 Agency _____
01 [ ] Z. Area Evacuated 04 Description:	02 Date _____	03 Agency _____
01 [ ] 1. Access to Site Restricted 04 Description:	02 Date _____	03 Agency _____
01 [ ] 2. Population Relocated 04 Description:	02 Date _____	03 Agency _____
01 [ ] 3. Other Remedial Activities 04 Description:	02 Date _____	03 Agency _____

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

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 State	02 Site Number
NY	932101

II. ENFORCEMENT INFORMATION

01 Past Regulatory/Enforcement Action [ ] Yes [X] No

02 Description of Federal, State, Local Regulatory/Enforcement Action

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

NYSDEC Division of Solid and Hazardous Waste Inactive Hazardous Waste Site Registry files, Region 9.

APPENDIX B

GEOPHYSICAL REPORT

ecology and environment
engineering, p.c.
BUFFALO CORPORATE CENTER
368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060

September 2, 1993
(Revised February 10, 1994)

Ms. Valerie Woodward
Senior Engineering Geologist
Western Investigation Section
Bureau of Hazardous Site Control
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233-7010

Re: NYS Standby Contract #D002625, Work Assignment #D002625-17
Walmore Road-Johnson Property (Site #932101) Geophysical Survey Results

Dear Ms. Woodward:

Geophysical surveys were performed by Ecology and Environment Engineering, P.C., (E & E) at the Walmore Road-Johnson Property (Walmore) site located in the Town of Wheatfield, Niagara County, New York on August 18, 1993. The surveys were performed as requested in the New York State Department of Environmental Conservation (NYSDEC) scope-of-work (SOW) at two locations to identify landfill boundaries.

Grid 1 was located across the front yards and the area in between 6381 Walmore Road and 6373 Walmore Road (formerly a barn). Grid 2 was located in the back yard of the former barn and extended south to 6381 Walmore Road (see Attachment 1).

SURVEY TECHNIQUES

The geophysical surveys were performed using an EG&G Geometrics model G-856 proton precession magnetometer and a Geonics Ltd. model EM31 ground conductivity meter.

Grids were established over each survey area with 20-foot station and line spacings. Grid 1 was 120 feet along the X-axis and 240 feet along the Y-axis. Grid 2 was 60 feet along the X-axis and 220 feet along the Y-axis. Both grids were oriented north 5 degrees east with station

(0,0) located in the southwest corner of each grid. Compass directions are uncorrected for regional magnetic declination (8.5 degrees west).

One reading of the earth's total magnetic field (in units of gammas) was collected at each grid station. Magnetic readings were later corrected for diurnal drift from base station readings. Four readings were recorded at each grid station by the EM31. Two of these readings were collected with the instrument oriented parallel to the Y-axis (orientation 1) of the grid, and the remaining two were collected with the instrument oriented parallel to the X-axis (orientation 2). The readings in each orientation consisted of the quadrature phase component (conductivity) of the induced magnetic field in both the vertical and horizontal dipole modes.

The quadrature phase component measures ground conductivity in units of millimhos/meter (mmhos/m). In the vertical dipole mode, the instrument response has a depth of penetration of approximately 18 feet below ground surface and it is more sensitive to deeply buried objects. In the horizontal dipole mode, the instrument response has a depth of about 9 feet below ground surface and is more sensitive to shallow objects.

All instrument readings were electronically recorded and stored by the instruments. Magnetometer readings were down-loaded using MAGPAC Version 4.1.5-89 software (EG&G Geometrics) and EM31 readings were down-loaded using DAT31 Version 3.20 software (Geonics, Ltd.). All geophysical data were then plotted and contoured using Surfer Version 4.0 software (Golden Software, Inc.).

SURVEY RESULTS

Several contour maps of each survey grid were generated to illustrate survey results. Magnetometer contour maps are labeled "MAG", and EM31 maps are labeled "conductivity" for the quadrature phase component. Vertical and horizontal dipole modes in instrument orientations 1 and 2 are labeled V1, H1, V2, and H2 respectively. Attachment 2 contains the contour plots illustrating the survey results. Asterisks on the maps indicate data collection stations. Multiple contour intervals are presented for some orientations to better illustrate anomalies.

GRID 1

Irregular magnetic gradient fluctuations occurred through most of the western and northern half of the survey grid. This was supported and further delineated by the EM31 results. High conductivity values were recorded in both the vertical and horizontal dipole modes in both orientations 1 and 2 in the northern portion of the grid trending northeast/southwest. The strongest readings were centered at grid stations (40,140), (60,160), and (100,200). These anomalies may represent large, separately buried objects at these locations; a linear feature (pipeline or trench filled with metallic objects) trending northeast/southwest beneath the grid area; or most likely, the boundary of the landfill, between grid stations (0,80) and (120,140), which contains large amounts of metallic debris.

It appears, based upon the geophysical results of Grid 1, that the landfill begins along the southern bank of Cayuga Creek and extends partially onto the property of 6381 Walmore Road. It is unknown at this time whether the fill material extends north of Cayuga Creek. E & E recommends drilling the soil borings north of grid stations (0,80) to (120,140) to characterize the fill material, however, stations (0,100), (0,160), (0,200), (20,120), (40,100), (40,120), (40,140), (40,200), (60,140), (60,160), (60,240), (80,180), (80,200), and (100,200) should be avoided.

GRID 2

One large anomaly was detected at grid station (20,140) in both the magnetometer and most of the EM31 plots of grid 2. This anomaly represents a metal fence post in the garden behind 6373 Walmore Road. Another low gradient anomaly was detected by the magnetometer and the EM31 in the vertical dipole mode (thus indicating a deeply buried object) between grid stations (0,40) to (0,60). A shallow anomaly was also detected by the EM31 in the horizontal dipole mode at station (60,40). The source of these anomalies are unknown.

Based on the range of conductivity values detected in Grid 2, as well as the relative lack of magnetic and conductive anomalies, it appears that no fill exists behind 6373 Walmore Road. The fill area is primarily confined to the front yard along Walmore Road.

CONCLUSIONS/RECOMMENDATIONS

Analysis of the magnetometer and EM31 data for each of the survey grids has indicated the presence of subsurface metallic debris in both grid areas. However, relatively few anomalies were detected in Grid 2 and the fill area appears confined to the front yard of 6373 Walmore Road extending from Cayuga Creek southward, partially onto the property of 6381 Walmore Road. Since Grid 1 had numerous subsurface anomalies, caution should be taken when drilling in this area. The drilling program at this site may proceed as scheduled following the recommendations stated above.

If you have any questions, or require additional information, please contact me or Gene Florentino at 716/684-8060.

Sincerely,

ECOLOGY AND ENVIRONMENT, INC.

Richard M. Watt

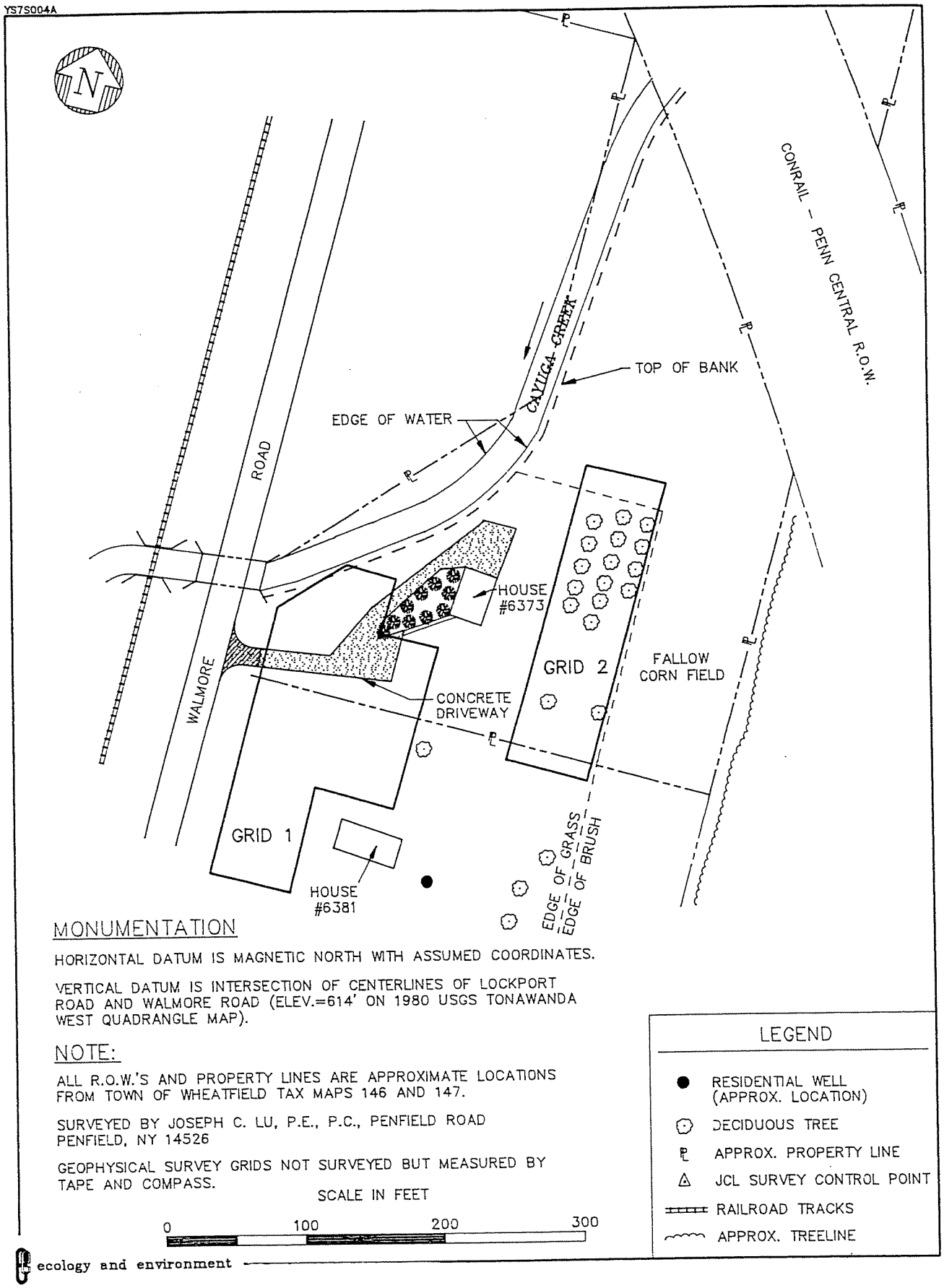
Richard M. Watt
Site Manager/Geologist

sv/YR8030
SEC 2412

cc: B. Peck, Project Manager
J. Griffis, Project Director

ATTACHMENT
1

GRID LOCATION MAP

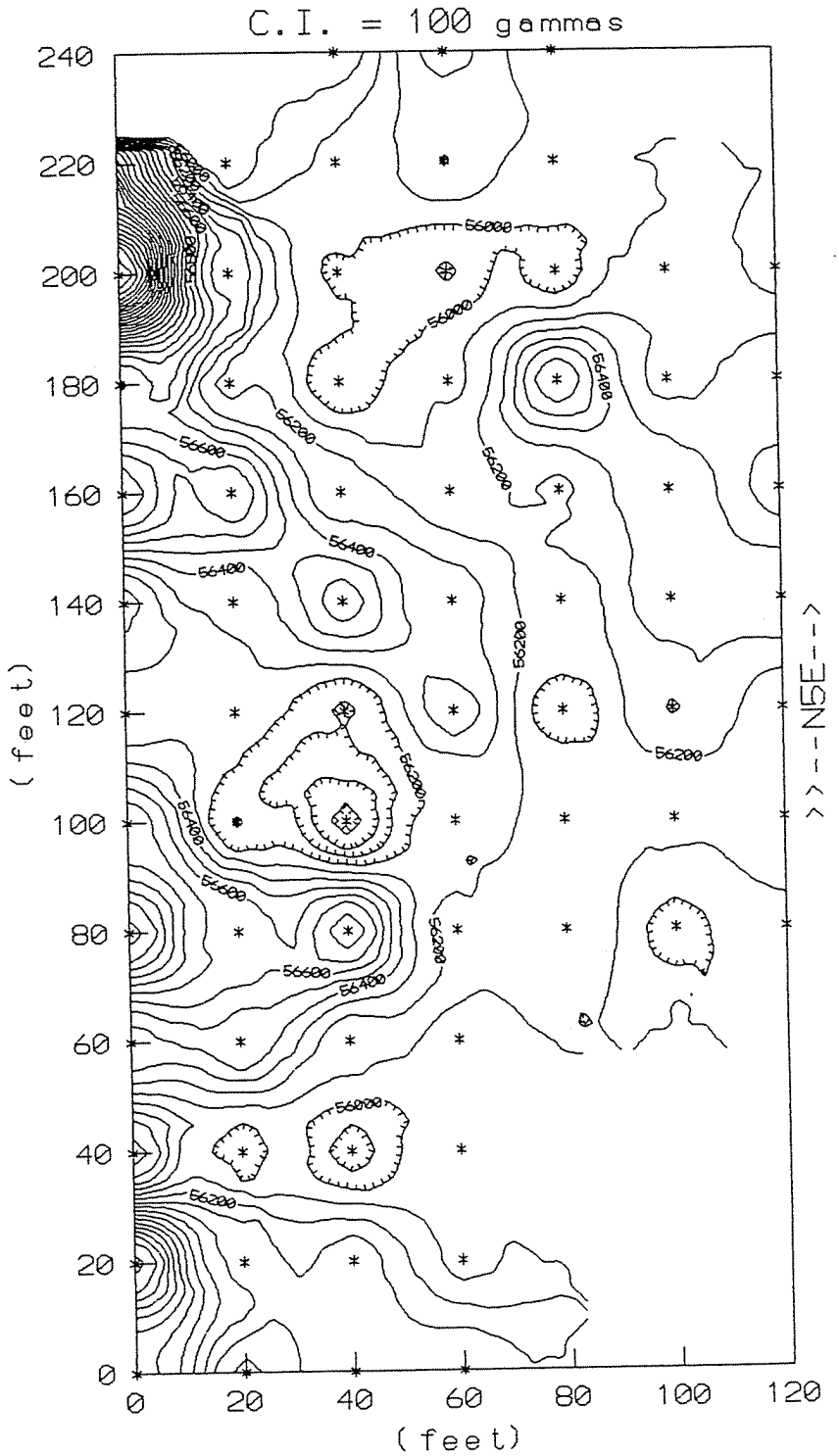


ATTACHMENT 1 GRID LOCATION MAP

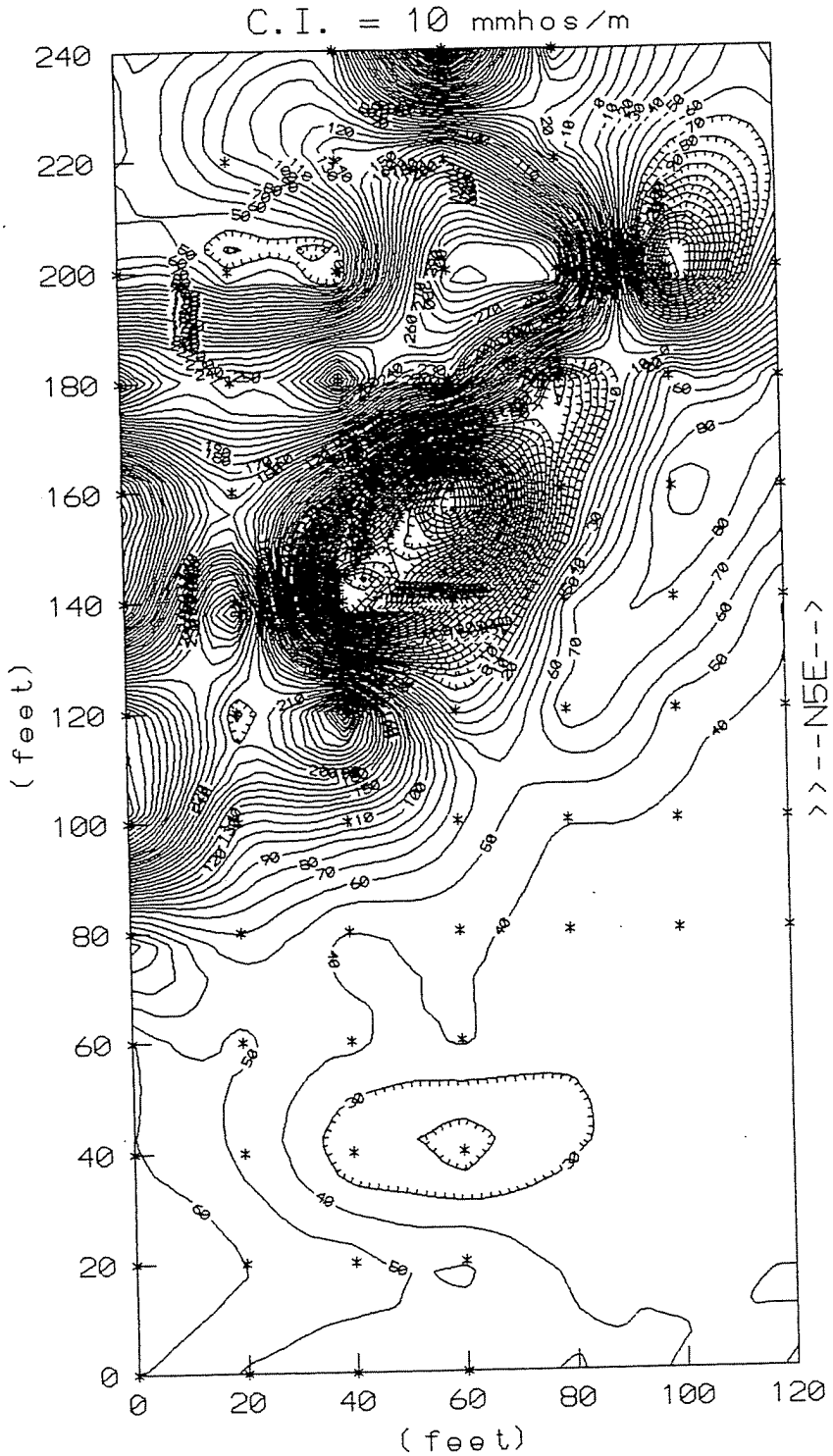
ATTACHMENT
2

GEOPHYSICAL SURVEY
CONTOUR PLOTS

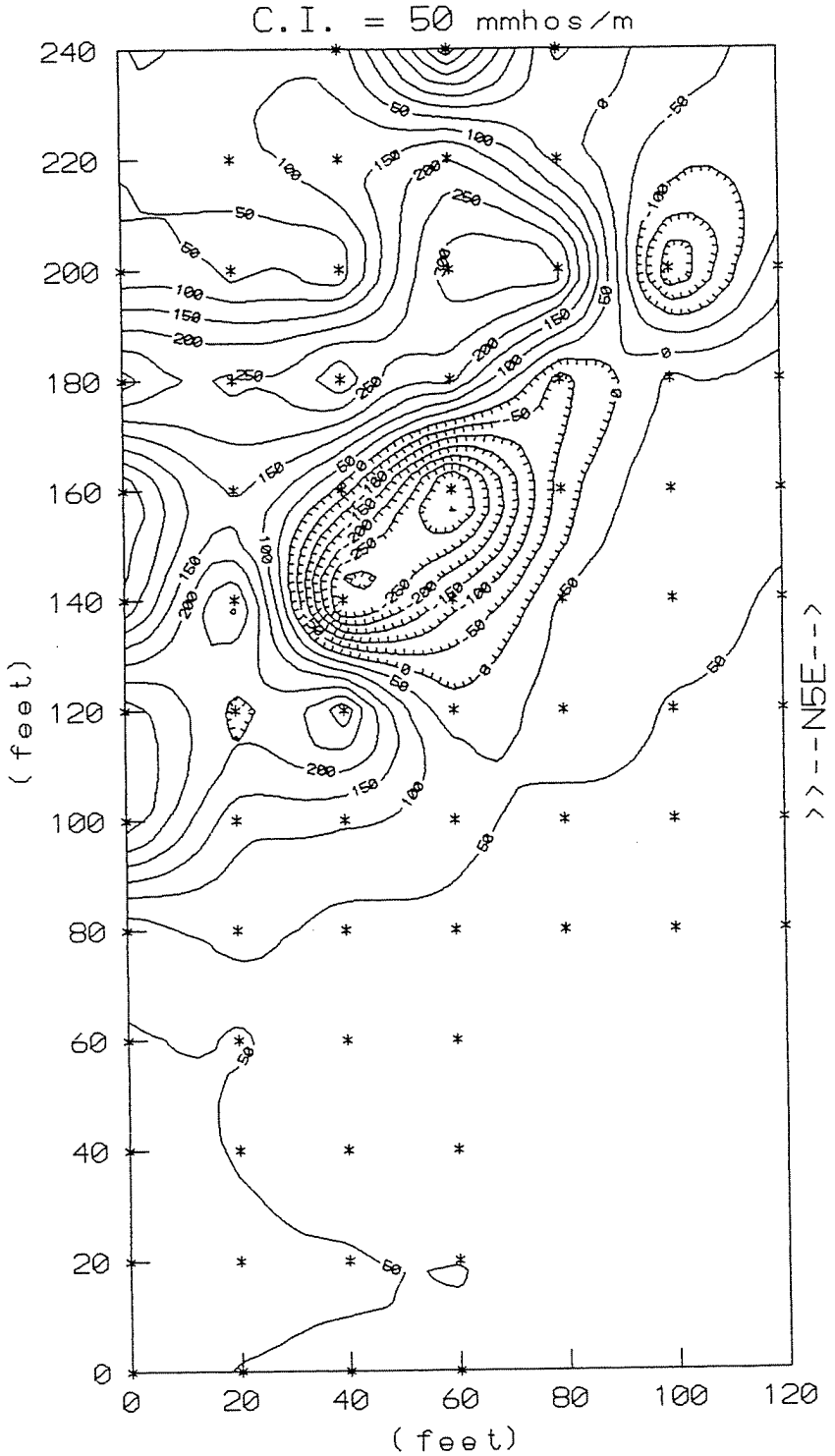
Walmore Magnetics Grid 1



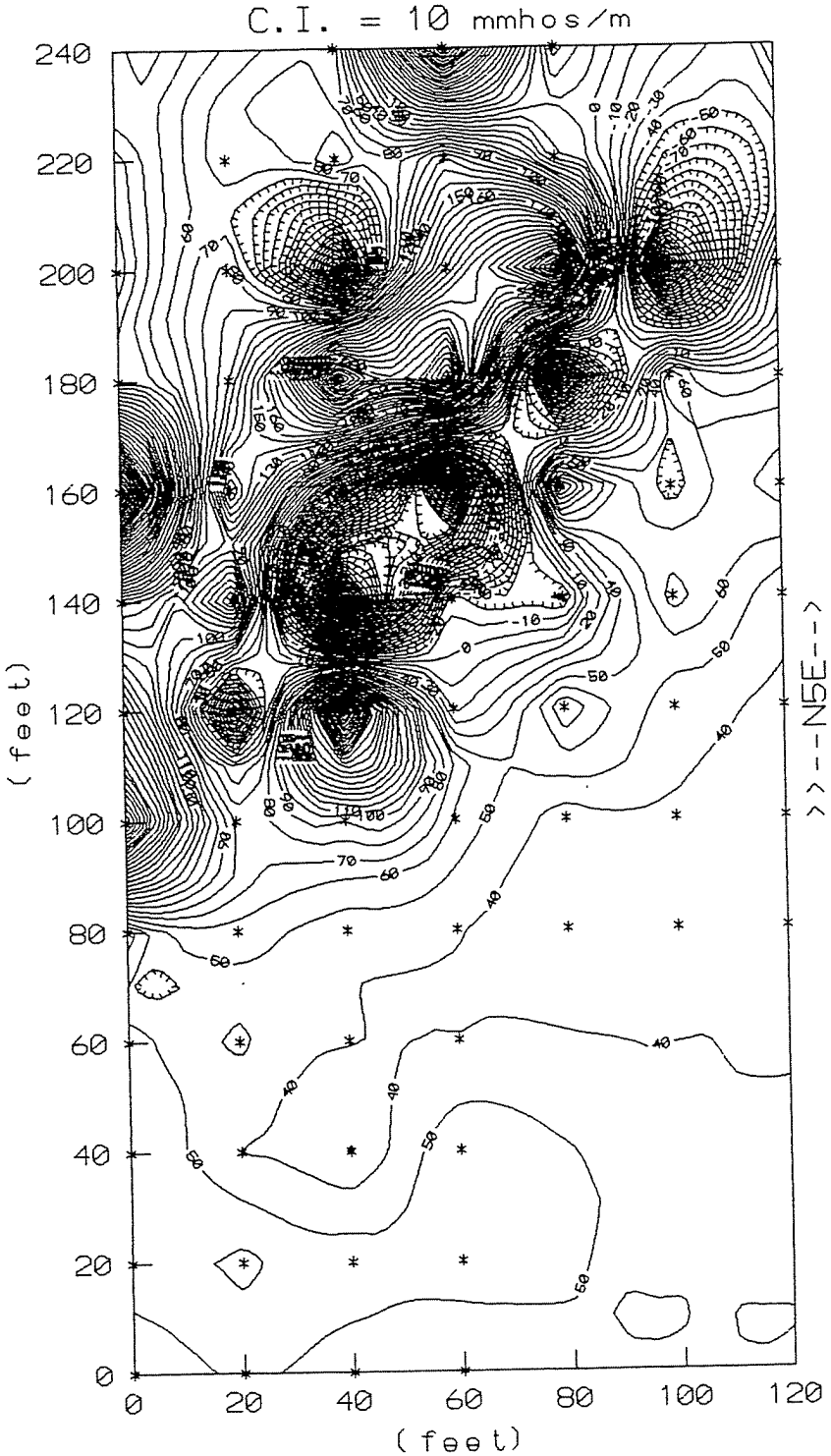
Walmore V1 Conductivity Grid 1



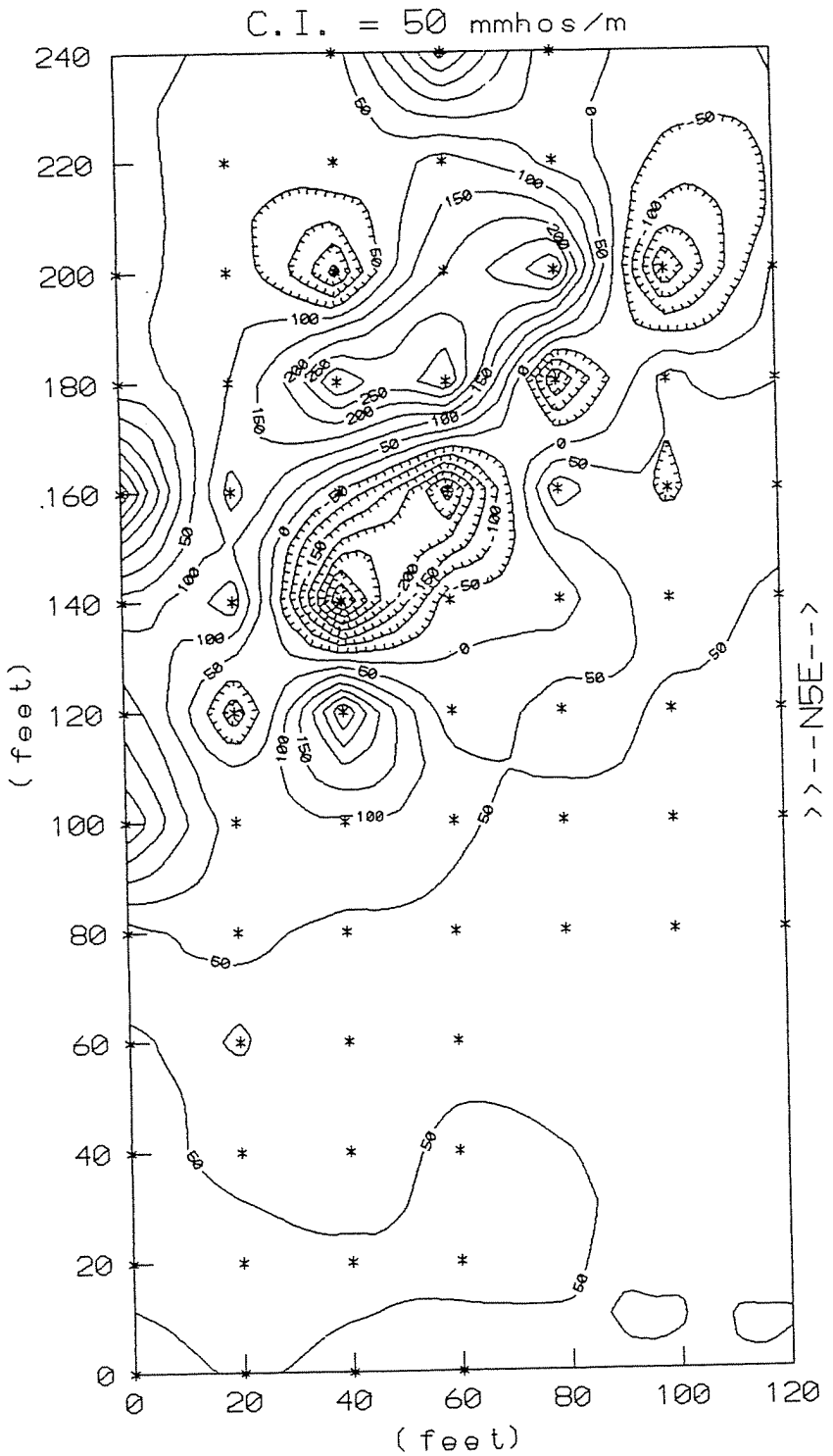
Walmore V1 Conductivity Grid 1



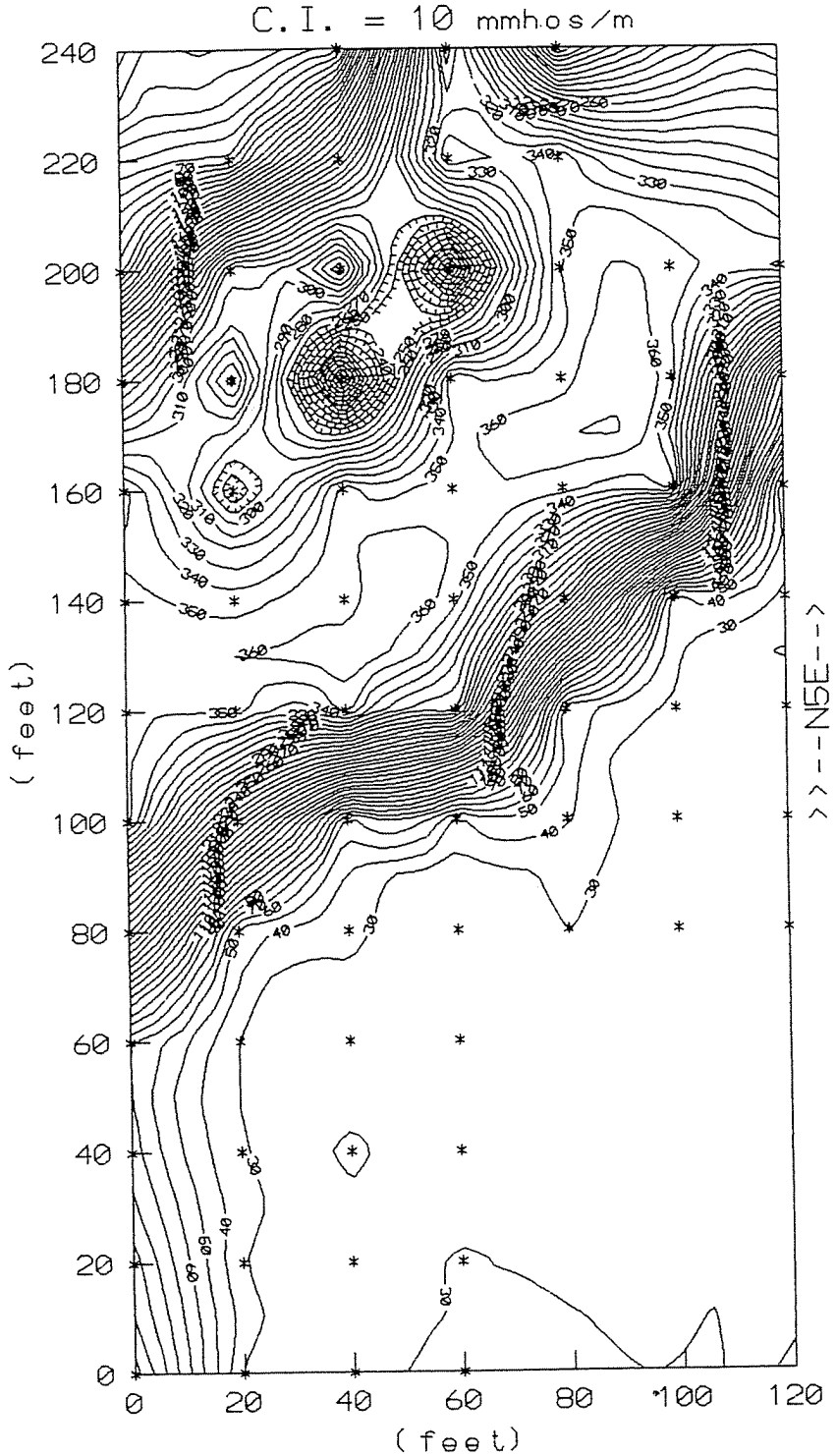
Walmore V2 Conductivity Grid 1



Walmore V2 Conductivity Grid 1



Walmore H1 Conductivity Grid 1



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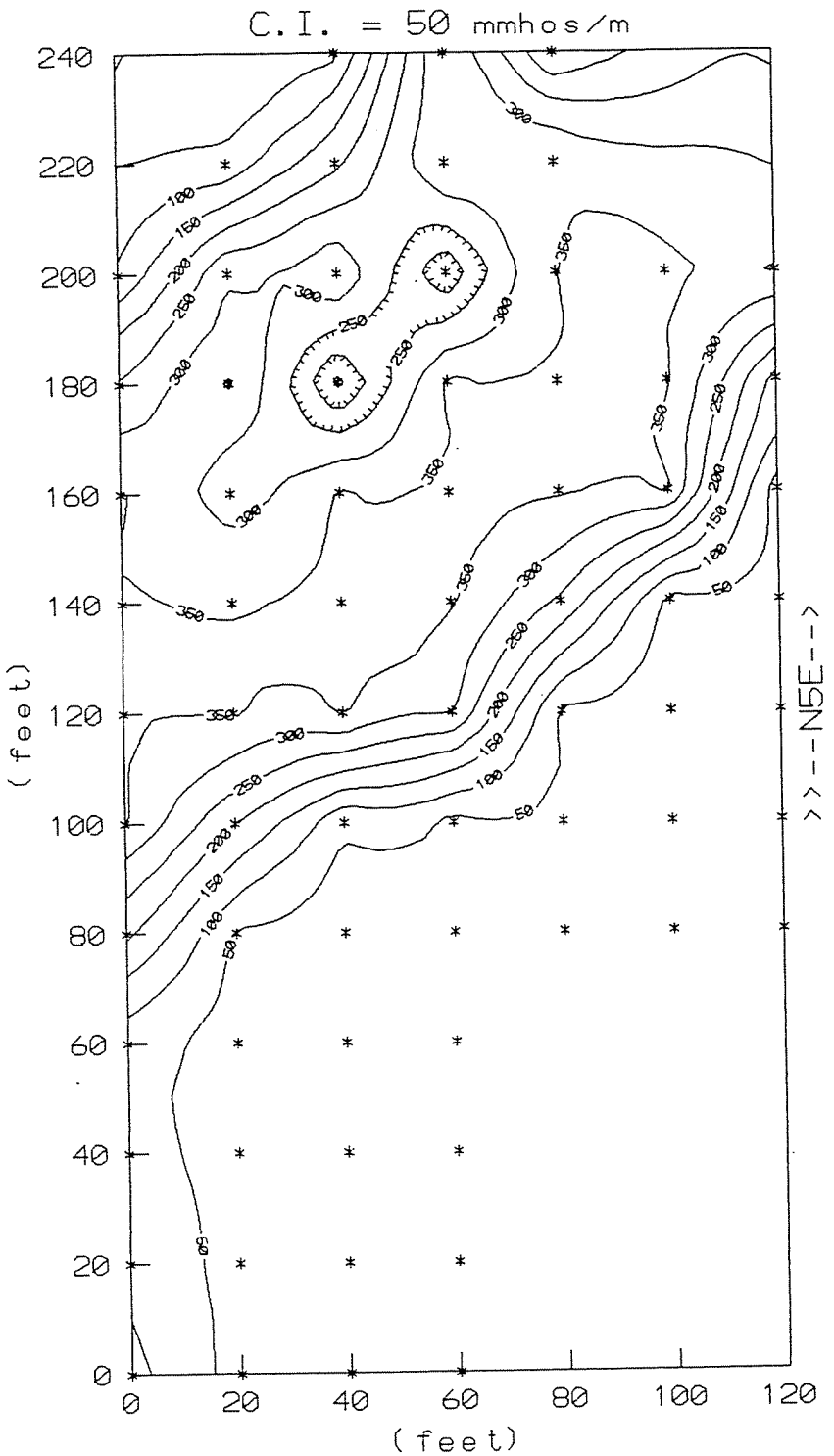

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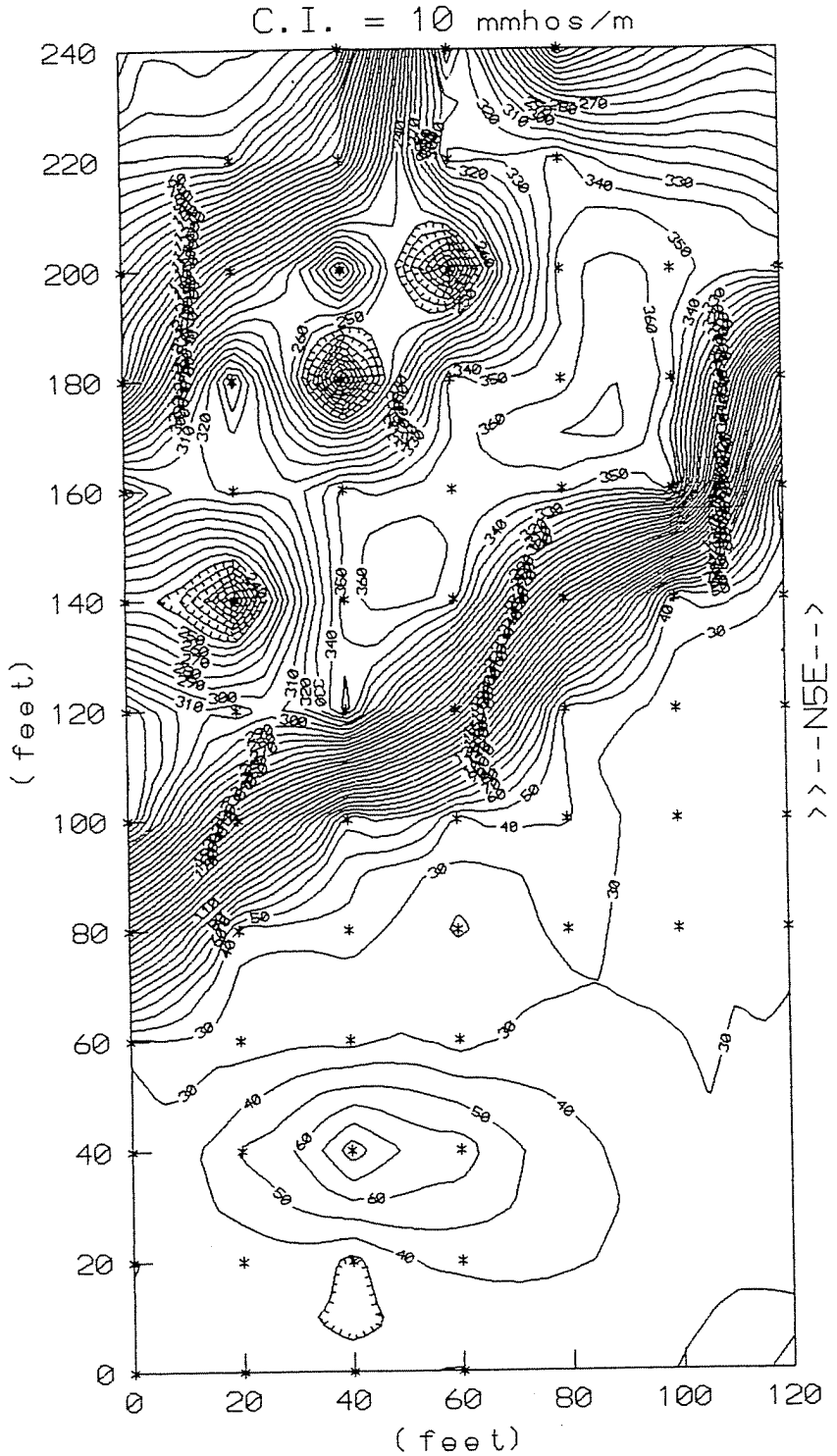
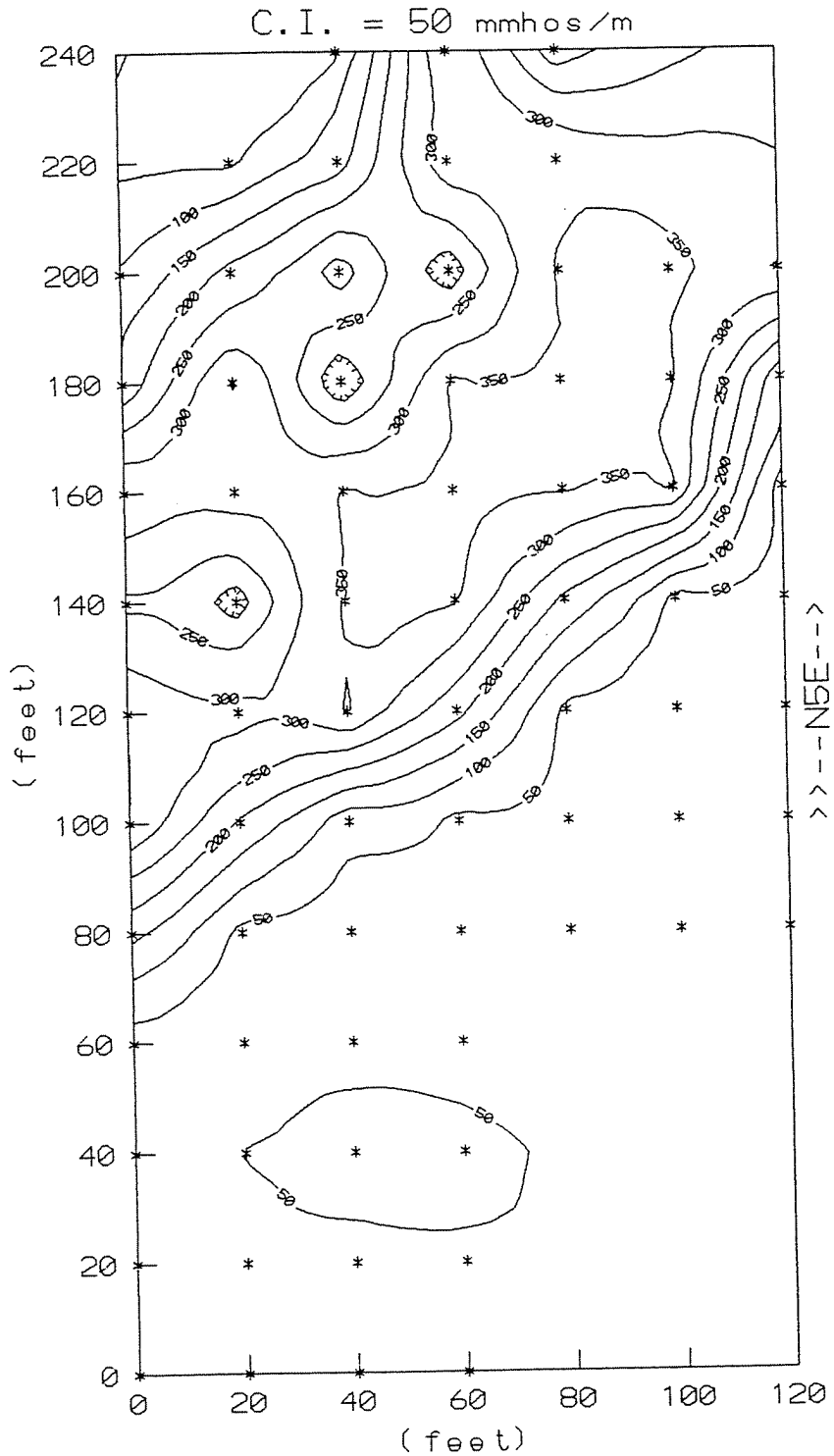
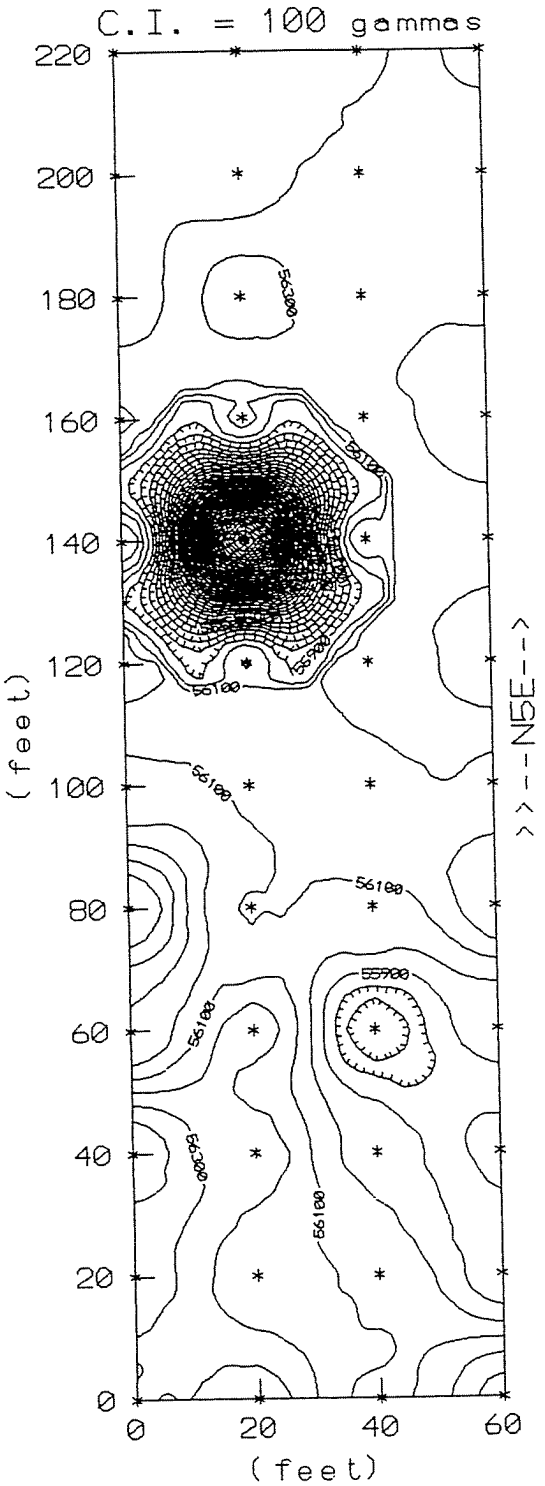


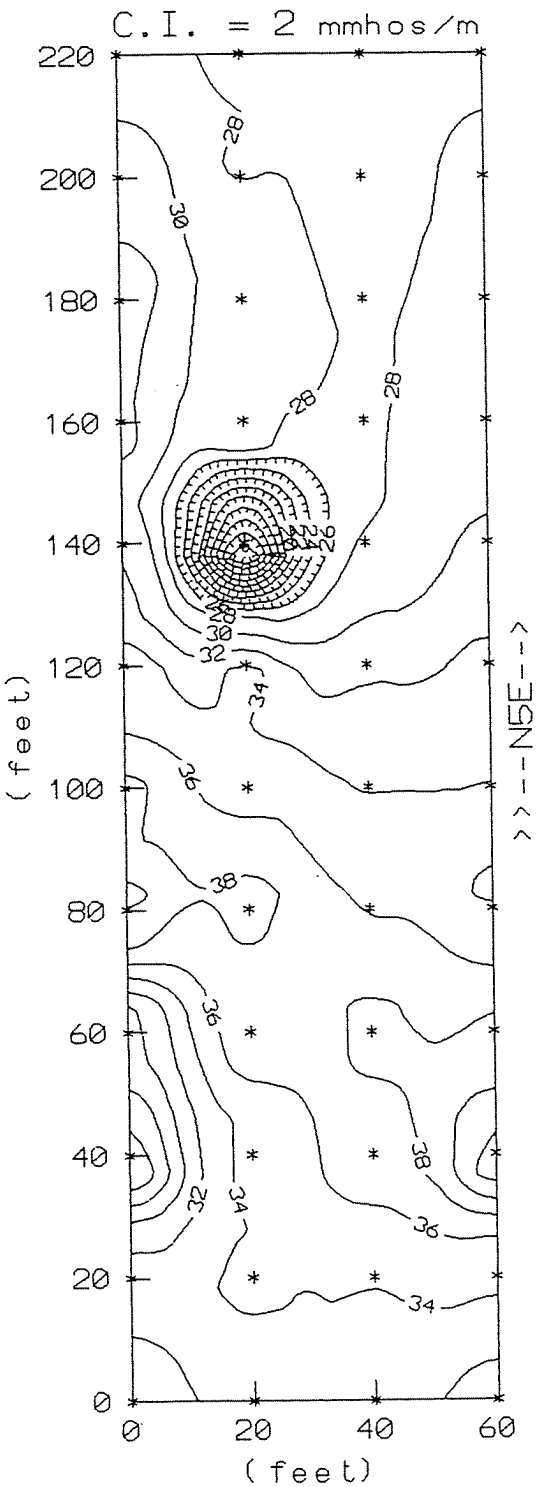
Walmore H2 Conductivity Grid 1



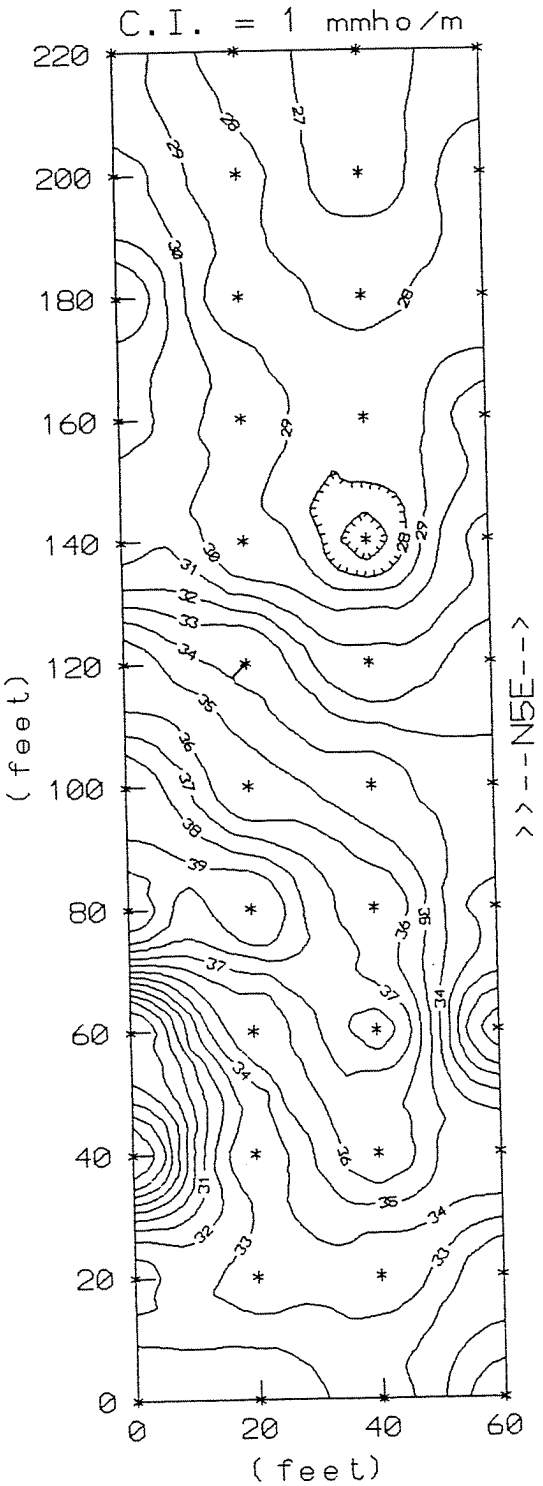
Walmore Magnetics Grid 2



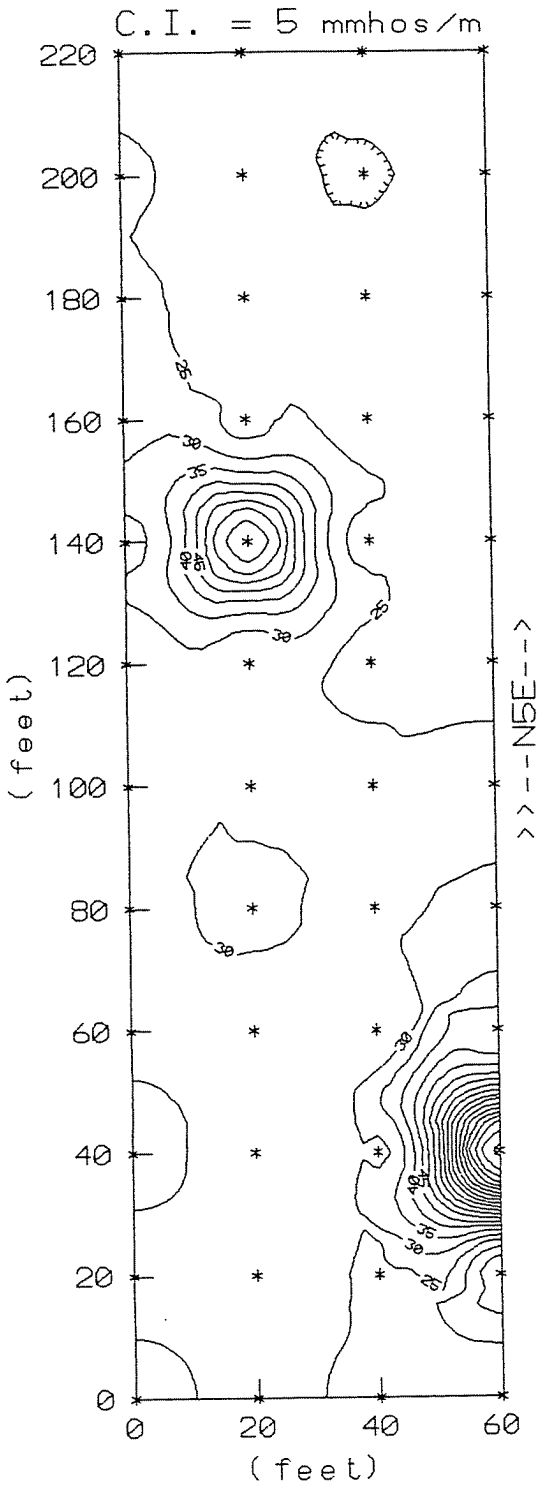
Walmore V1 Conductivity Grid 2



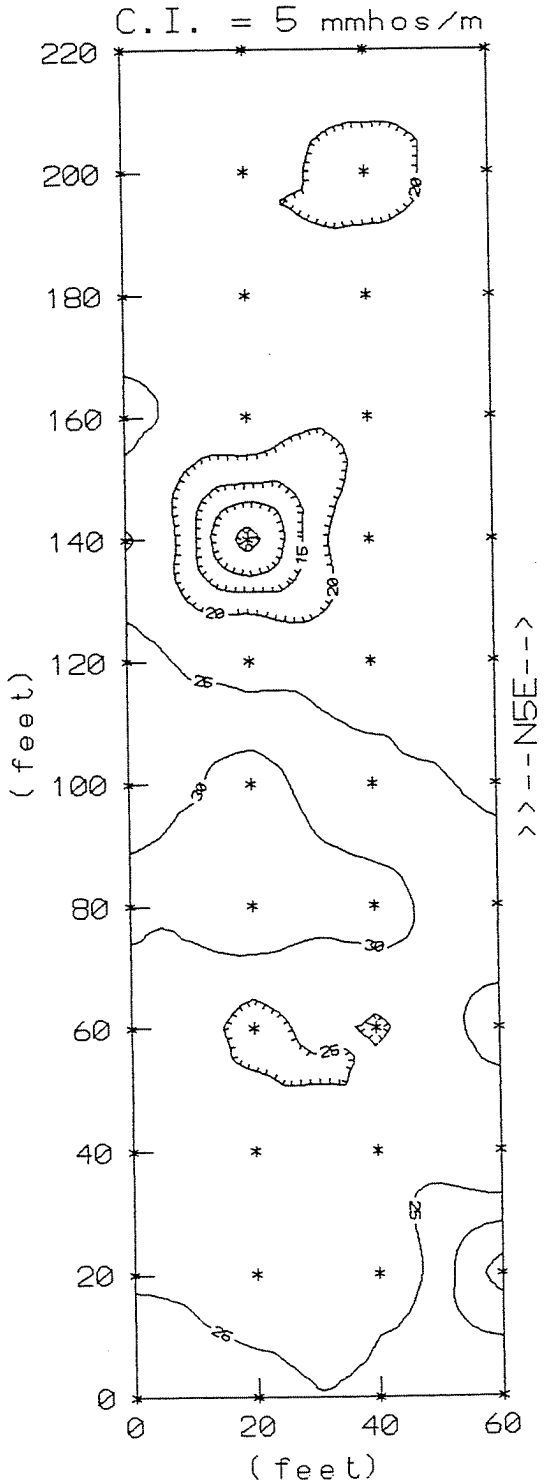
Walmore V2 Conductivity Grid 2



Walmore H1 Conductivity Grid 2



Walmore H2 Conductivity Grid 2



APPENDIX C

SUBSURFACE BORING LOGS AND WELL DIAGRAMS

DRILLING LOG OF BORING NO. B-1

Project: WALMORE ROAD – JOHNSON PROPERTY, SITE ID 932101

Location: WHEATFIELD, N.Y.

Boring Coordinates/Reference System: N 5019.0450 E 5049.9975

Drilling Company: BUFFALO DRILLING COMPANY

Total Depth of Hole (feet BGS): 9

Ground Elevation (feet above MSL): 592.75

Date Started/Finished: 9-20-93 / 9-20-93

Driller/Geologist: DON RIMBECK / RICHARD WATT

DEPTH	GRAPHIC LOG	OVERBURDEN DESCRIPTION	SPLIT SPOON NO.	BLOW COUNT	SS RECOVERY (FT)	HNu/OVA (ppm)	COMMENTS
1		0.0–0.4' SILT: dark brown, with clay and organics (loam).	SS 1	10 10 17 15	1.1	30.8/0	HNu readings are high, probably due to water vapor.
		0.4–1.1' FILL; reddish-brown, moist, somewhat varved clay with dolomite gravel.					Pushed a dolomite cobble.
2		2.0–2.6' FILL; reddish-brown, dry, gravelly clay with sand and silt. Gravel is Lockport Dolostone.	SS 2	11 14 13 7	1.1	73.7/0	HNu reading due to water vapor.
3		2.6–2.8' FILL; gray to black silty sand with gravel.					Resampled zone due to poor recovery (cobble caught in shoe).
4		2.8–3.1' FILL; reddish-brown, dry, gravelly clay with sand and silt. Gravel is Lockport Dolostone.	SS 3&4	3 2 2 1	1.3	20/1.5	
5		4.0–4.8' FILL; reddish-brown silty gravel with clay and sand. Gravel is Lockport Dolostone.					Sample B1-2 collected from 5–5.3' and 7–7.3' for RCRA analysis.
6		4.8–5.0' FILL; gray, wet, gravel with silt and sand.					
		5.0–5.3' FILL; black, wet, silty gravel with clay and sand.					
7		7.0–7.5' FILL AND CLAY; few inches of gray-black silty gravel fill underlain by native clay at ~8'.	SS 5	2 1 2 7	0.5	NA/0	Split spoon sank to approximately 7'.
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

DRILLING LOG OF BORING NO. B-2

Project: WALMORE ROAD - JOHNSON PROPERTY, SITE ID 932101

Location: WHEATFIELD, N.Y.

Boring Coordinates/Reference System: N 4982.5895 E 5043.3434

Drilling Company: BUFFALO DRILLING COMPANY

Total Depth of Hole (feet BGS): 6.0

Ground Elevation (feet above MSL): 594.25

Date Started/Finished: 9-20-93 / 9-20-93

Driller/Geologist: DON RIMBECK / RICHARD WATT

DEPTH	GRAPHIC LOG	OVERBURDEN DESCRIPTION	SPLIT SPOON NO.	BLOW COUNT	SS RECOVERY (FT)	HNu/OVA (ppm)	COMMENTS
1		0.0-0.4' SILT; medium brown, with sand, clay, gravel, and organics (loam).	SS 1	5 28 19 15	1.8	0/0	Cut away ~0.3' of sod.
2		0.4-1.8' FILL; light gray to black gravel with trace clay, sand and silt, and minor slag.					
3		1.8-2.0' FILL; reddish-brown, gravelly clay with sand.	SS 2	10 15 13 20	1.8	0/0	Sample B2-1 collected from 2-3.5' for full TCL analysis.
4		2.0-3.6' FILL; reddish-brown, clay with gravel, trace sand, dry.					
5		3.6-3.8' FILL; black slag/graphite.	SS 3	8 10 12 10	1.5	0/0	Sample B2-2 collected from 4.5-5' for RCRA analysis.
6		4.0-4.4' FILL; black slag/graphite, dry, mixed with brown clay.					
7		4.4-5.5' FILL; reddish-brown, moist, clay with gravel and trace silt.					
8							
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10							
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14							
15							
16							
17							
18							

DRILLING LOG OF BORING NO. B-3

Project: WALMORE ROAD - JOHNSON PROPERTY, SITE ID 932101

Location: WHEATFIELD, N.Y.

Boring Coordinates/Reference System: N 4955.5508 E 5045.8502

Drilling Company: BUFFALO DRILLING COMPANY

Total Depth of Hole (feet BGS): 8.0

Ground Elevation (feet above MSL): 594.20

Date Started/Finished: 9-20-93 / 9-20-93

Driller/Geologist: DON RIMBECK / RICHARD WATT

DEPTH	GRAPHIC LOG	OVERBURDEN DESCRIPTION	SPLIT SPOON NO.	BLOW COUNT	SS RECOVERY (FT.)	HNu/OVA (ppm)	COMMENTS
1		0.0-0.4' SILT; medium brown, with clay, gravel, sand, and organics (loam).	SS 1	14 16 19 22	0.2	0/0	Pushed some dolomite gravel.
		0.4-1.0' FILL; dolomite gravel. Auger cuttings indicate slag fill begins at ~ 1.0'.					Sample B3-1 collected from 1-3' for RCRA analysis.
2		2.0-4.0' FILL; black slag and/or carbonaceous fill material (graphite), dark red at bottom, dry.	SS 2&3	3 9 9 5	1.5	0/0	Refusal on rock. Resampled at new location, 5'NE of initial location. Recovery of sample was compressed.
3							
4		4.0-5.0' FILL; black slag and/or graphite, moist.	SS 4	7 4 4 6	2.0	0/1.5	OVA: 0 ppm in slag and 1.5 ppm in clay.
5		5.0-6.3' FILL; brown to grayish-brown silty clay with trace of slag and/or graphite, moist.					Sample B3-2 collected from 5-6' for full TCL analysis.
6							
7		6.3-6.5' FILL; black slag and/or graphite.	SS 5	7 17 21 14	2.0	0/0	
		6.5-8.0' CLAY; native reddish-brown clay with occasional silt and sand layers.					
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

DRILLING LOG OF BORING NO. B-4

Project: WALMORE ROAD - JOHNSON PROPERTY, SITE ID 932101

Location: WHEATFIELD, N.Y.

Boring Coordinates/Reference System: N 5021.0437 E 5093.8957

Drilling Company: BUFFALO DRILLING COMPANY

Total Depth of Hole (feet BGS): 7.2

Ground Elevation (feet above MSL): 594.28

Date Started/Finished: 9-20-93 / 9-20-93

Driller/Geologist: DON RIMBECK / RICHARD WATT

DEPTH	GRAPHIC LOG	OVERBURDEN DESCRIPTION	SPLIT SPOON NO.	BLOW COUNT	SS RECOVERY (FT)	HNu/OVA (ppm)	COMMENTS
0-1		0.0-0.4' SILT: brown, with clay, gravel, sand, and organics (loam).	SS 1	40 22 49 30	1.8	0/0	Cut away ~0.3' of sod.
1-2		0.4-0.8' FILL: light gray, dry, dolomite gravel with sand.					
2-3		0.8-1.8' FILL: reddish-brown gravelly clay, with trace sand and silt, dry.	SS 2	28 32 18 40	1.4	4.5/0	HNu reading due to water vapor. Collected another spoon from 4-5' due to insufficient soil to sample.
3-4		2.0-3.4' FILL: mottled gray and reddish-brown. Silty gravel with sand and clay. Gravel is dolomite. Also contains trace quantities of foundry glass and/or slag.					
4-5		4.0-5.0' FILL: same as above, with a purple-gray silt.	SS 3	12 21 19 18	1.0	NA/0	Sample B4-1 collected from 4-5' for RCRA analysis.
6-7		6.0-7.2' FILL: reddish-brown, clayey gravel with sand and silt, with minor black, metallic-looking slag.	SS 4	20 19 21 24	1.2	0/0	Sample B4-2 collected from 6-7' for RCRA analysis.
7-8							
8-9							
9-10							
10-11							
11-12							
12-13							
13-14							
14-15							
15-16							
16-17							
17-18							

DRILLING LOG OF BORING NO. B-5

Project: WALMORE ROAD - JOHNSON PROPERTY, SITE ID 932101

Location: WHEATFIELD, N.Y.

Boring Coordinates/Reference System: N 4934.9888 E 5099.1376

Drilling Company: BUFFALO DRILLING COMPANY

Total Depth of Hole (feet BGS): 5.0

Ground Elevation (feet above MSL): 595.17

Date Started/Finished: 9-20-93 / 9-20-93

Driller/Geologist: DON RIMBECK / RICHARD WATT

DEPTH	GRAPHIC LOG	OVERBURDEN DESCRIPTION	SPLIT SPOON NO.	BLOW COUNT	SS RECOVERY (FT)	HNu/OVA (ppm)	COMMENTS
1		0.0-0.4' SILT; medium brown, with clay, gravel, sand, and organic matter (loam).	SS 1	11 17 18 12	1.4	0/0	Cut away ~0.3' of sod.
2		0.4-1.8' FILL; sand with gravel and minor clay, gray at top grading down to tan, dry. Some slag near the top. Red clay at base of shoe.					Sample B5-1 collected from 1-3' for RCRA analysis.
3		2.0-2.4' FILL; gray clayey gravel with concrete and slag fragments.	SS 2	12 17 32 30	1.8	0/0	Pushed a cobble.
4		2.4-3.6' FILL; reddish to yellowish brown, dry, sandy clay with silt and minor gravel.					Sample B5-2 collected from 4-5' for RCRA analysis.
5		4.0-5.0' FILL; same as above.	SS 3	11 15 29 31	1.0	0/0	
6							
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10							
11							
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13							
14							
15							
16							
17							
18							

DRILLING LOG OF BORING NO. B-6

Project: WALMORE ROAD - JOHNSON PROPERTY, SITE ID 932101

Location: WHEATFIELD, N.Y.

Boring Coordinates/Reference System: N 4922.9361 E 5057.1258

Drilling Company: BUFFALO DRILLING COMPANY

Total Depth of Hole (feet BGS): 5.0

Ground Elevation (feet above MSL): 594.47

Date Started/Finished: 9-20-93 / 9-20-93

Driller/Geologist: DON RIMBECK / RICHARD WATT

DEPTH	GRAPHIC LOG	OVERBURDEN DESCRIPTION	SPLIT SPOON NO.	BLOW COUNT	SS RECOVERY (FT)	HNu/OVA (ppm)	COMMENTS
1		0.0-0.4' SILT; medium brown, with clay, gravel, sand, and organics (loam).	SS 1	7 18 17 12	1.4	0/0	Cut away ~0.3' of sod.
		0.4-0.9' FILL; reddish-brown clayey gravel.					Sample B6-1 collected from 1-2' for RCRA analysis.
2		0.9-1.8' FILL; gray slag and/or graphite with rusty-looking clay at base of shoe.					
3		2.0-2.2' SAND WITH SLAG; rusty-looking sand with slag. Compact, hard slag at bottom of shoe prevented better recovery.	SS 2	9 5 5 9	0.2	0/0	
4		4.0-4.4' FILL; black slag and/or graphite, dry, some wood.	SS 3	6 7 11 13	1.0	0/0	Sample B6-2 collected from 4-5' for full TCL analysis.
5		4.4-5.0' CLAYEY SAND WITH SILT; yellowish-brown, moist, maybe native.					
6							
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11							
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13							
14							
15							
16							
17							
18							

LOG OF SPLIT SPOON NO. B-7

Project: WALMORE ROAD - JOHNSON PROPERTY, SITE ID 932101

Location: WHEATFIELD, N.Y.

Boring Coordinates/Reference System: N / E

Drilling Company: NA

Total Depth of Hole (feet BGS): 4.0

Ground Elevation (feet above MSL): ____

Date Started/Finished: 4-29-94 / 4-29-94

Geologists: JIM RICHERT / RICHARD WATT

DEPTH	GRAPHIC LOG	OVERBURDEN DESCRIPTION	SPLIT SPOON NO.	BLOW COUNT	SS RECOVERY (FT)	HNu/OVA (ppm)	COMMENTS
0		0.0-0.4' SANDY SILT: brown, with clay and organics.	SS 1	NA	1.8	0/0	Cut away ~0.3' of sod.
1		0.4-1.0' FILL: black, graphite/ash.					Sample B-7X collected from 0.0-2.0' for EPTOX organics analysis.
		1.0-2.0' FILL: clay.					
2		2.0-2.2' FILL: gray, slag.	SS 2	NA	1.2	0/0	
3		2.2-4.0' FILL: reddish-brown, clay with silt and sand.					
4							Fill hole to surface with cuttings patch hole in lawn with mulch and seed mix.
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

LOG OF SPLIT SPOON NO. B-8

Project: WALMORE ROAD - JOHNSON PROPERTY, SITE ID 932101

Location: WHEATFIELD, N.Y.

Boring Coordinates/Reference System: N / E

Drilling Company: NA

Total Depth of Hole (feet BGS): 4.0

Ground Elevation (feet above MSL): ____

Date Started/Finished: 4-29-94 / 4-29-94

Geologists: JIM RICHERT / RICHARD WATT

DEPTH	GRAPHIC LOG	OVERBURDEN DESCRIPTION	SPLIT SPOON NO.	BLOW COUNT	SS RECOVERY (FT)	HNu/OVA (ppm)	COMMENTS
0		0.0-0.5' SANDY SILT: brown, with clay and organics.					Cut away ~0.3' of sod.
1		0.5-2.0' FILL: black, graphite/ash with brick stuck in shoe of split-spoon.	SS 1	NA	1.2	0/0	Sample B-8X collected from 0.0-2.0' for EPTOX organics analysis.
2							
3		2.0-4.0' FILL: black, graphite/ash with minor amount of a needle-like fiberous material.	SS 2	NA	2.0	0/0	Sample B-8Z collected from 2.0-4.0' for EPTOX organics analysis.
4							Fill hole to surface with cuttings, patch lawn with mulch and seed mix.
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

LOG OF SPLIT SPOON NO. B-9

Project: WALMORE ROAD - JOHNSON PROPERTY, SITE ID 932101

Location: WHEATFIELD, N.Y.

Boring Coordinates/Reference System: N E

Drilling Company: NA

Total Depth of Hole (feet BGS): 4.0

Ground Elevation (feet above MSL):

Date Started/Finished: 4-29-94 / 4-29-94

Geologists: JIM RICHERT / RICHARD WATT

DEPTH	GRAPHIC LOG	OVERBURDEN DESCRIPTION	SPLIT SPOON NO.	BLOW COUNT	SS RECOVERY (FT)	HNu/OVA (ppm)	COMMENTS
1		0.0-0.4' SANDY SILT: with clay and organics.	SS 1	NA	1.2	0/0	Cut away ~0.3' of sod.
2		0.4-2.0' FILL: gray-black, graphite/ash with brick fragments.					Sample B-9X collected from 0.0-2.0' for EPTOX organics analysis.
3		2.0-4.0' FILL: black, graphite/ash with native clay (varved) at bottom of shoe.	SS 2	NA	1.8	0/0	Sample B-9Z collected from 2.0-4.0' for EPTOX organics analysis.
4							
5							Fill hole to surface with cuttings, patch holes in lawn with mulch and seed mix.
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

LOG OF SPLIT SPOON NO. B-10

Project: WALMORE ROAD - JOHNSON PROPERTY, SITE ID 932101

Location: WHEATFIELD, N.Y.

Boring Coordinates/Reference System: N E

Drilling Company: NA

Total Depth of Hole (feet BGS): 4.0

Ground Elevation (feet above MSL):

Date Started/Finished: 9-20-93 / 9-20-93

Geologists: JIM RICHERT / RICHARD WATT

DEPTH	GRAPHIC LOG	OVERBURDEN DESCRIPTION	SPLIT SPOON NO.	BLOW COUNT	SS RECOVERY (FT)	HNu/OVA (ppm)	COMMENTS
1		0.0-2.0' FILL: dark brown, sandy silt with clay and organics.	SS 1	NA	0.9	0/0	Cut away ~0.3' of sod. No samples collected from B-10.
2		2.0-4.0' No recovery, pushed dolomite gravel.	SS 2	NA	0.1	0/0	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

APPENDIX D

DATA SUMMARY

DATA USABILITY REVIEW

The data usability review for the Walmore Road-Johnson Property site consisted of the following:

- Checking chain-of-custody forms and analytical logs to confirm that samples were analyzed for the parameters requested on the chain-of-custody; and
- Reviewing the data to confirm that NYSDEC and laboratory quality control criteria were met.

These quality control criteria included:

- Holding times;
- Laboratory blank contamination;
- Surrogate recoveries;
- Internal standards area and retention times;
- Matrix spike/matrix spike duplicate (MS/MSD) results;
- Instrument calibration (initial and continuing); and
- For metals, the specific criteria were reviewed and problems noted. These criteria included laboratory method blanks, MS/MSDs, instrument calibration, and ICP interference check samples.

Based on the above-described review, memoranda were generated outlining any problems that affected the usability of the data. These memoranda were submitted to NYSDEC under separate cover as part of the reduced data packages. The problems commented on generally included blank contamination and holding time violation, and do not constitute a full data validation effort.

For the Walmore Road-Johnson Property site, all data were considered usable as qualified by the data review.

Data qualifiers used in the data summary forms are defined below. Table D-1 which follows provides a list of the PAHs analyzed for (as base/neutral extractables) and shows which are considered carcinogenic.

Defined Qualifiers

B Analyte is found in the associated blank as well as in the sample.

J Indicates the value is estimated.

UJ Indicates the quantitation limits are estimated.

A Indicates that a TIC is a suspected aldol-condensation product.

N Indicates presumptive evidence of a compound. Used only for TICs where the identification is based on a mass spectral library search.

Table D-1 POLYNUCLEAR AROMATIC HYDROCARBON (PAH) ANALYSIS LIST
Naphthalene
2-Methylnaphthalene
2-Chloronaphthalene
Acenaphthylene
Acenaphthene
Fluorene
Phenanthrene
Anthracene
Fluoranthene
Pyrene
Benzo(a)anthracene[a]
Chrysene[a]
Benzo(b)fluoranthene[a]
Benzo(k)fluoranthene[a]
Benzo(a)pyrene[a]
Indeno(1,2,3-cd)pyrene[a]
Dibenz(a,h)anthracene[a]
Benzo(g,h,i)perylene

a Considered carcinogenic (Department of Health and Human Services, 1993).

DATA SUMMARY FORM: V O L A T I L E S 1

WATER SAMPLES
(µg/L)

Site Name: Walmore Road - Johnson Property

Case #: 9301.314 Sampling Date(s): 6-23-93

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

	Sample No.	STORAGE_BLK		SW-1		SW-2		SW-3		VBLKW1		MSB		SW-1MS		SW-1MSD			
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0			
	% Moisture																		
	Location																		
CRQL	COMPOUND																		
10	Chloromethane																		
10	Bromomethane																		
10	Vinyl Chloride																		
10	Chloroethane									2	J	3	BJ	11	BJ	11	BJ		
10	Methylene Chloride																		
10	Acetone															12	J		
10	Carbon Disulfide											160		130		130			
10	1,1-Dichloroethene																		
10	1,1-Dichloroethane																		
10	Total 1,2-Dichloroethene																		
10	Chloroform																		
10	1,2-Dichloroethane																		
10	2-Butanone																		
10	1,1,1-Trichloroethane																		
10	Carbon Tetrachloride																		
10	Vinyl Acetate																		
10	Bromodichloromethane																		

CRQL = Contract Required Quantitation Limit

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revised 07

DATA SUMMARY FORM: V O L A T I L E S 2

Site Name: Walmore Road - Johnson Property

WATER SAMPLES
(µg/L)

Case #: 9301.314 Sampling Date(s): 6-23-93

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

	Sample No.	STORAGE BLK	SW-1	SW-2	SW-3	VBLKW1	MSB	SW-1MS	SW-1MSD	
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
	Location									
CRQL	COMPOUND									
10	1,2-Dichloropropane									
10	Cis-1,3-Dichloropropene						57	120	110	
10	Trichloroethene									
10	Dibromochloromethane									
10	1,1,2-Trichlorethane						56	120	110	
10	Benzene									
10	Trans-1,3-Dichloropropene									
10	Bromoform									
10	4-Methyl-2-pentanone									
10	2-Hexanone									
10	Tetrachloroethene									
10	1,1,2,2-Tetrachloroethane						58	110	120	
10	Toluene						54	110	110	
10	Chlorobenzene									
10	Ethylbenzene									
10	Styrene									
10	Total Xylenes									

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIO
revised 07/

DATA SUMMARY FORM: V O L A T I L E S 1

Site Name: Walmore Road - Johnson Property

Case # 9301.314 Sampling Date(s): 23 JUN '93

SOIL SAMPLES
(µg/Kg)

To calculate sample quantitation limi
(CRQL * Dilution Factor) / ((100 - % moisture)/10

CRQL	COMPOUND	SED-1		SED-2		SED-3		SS-1		SS-2		SS-3		VBLKS1		VBLKS2		
	Sample No.	SED-1		SED-2		SED-3		SS-1		SS-2		SS-3		VBLKS1		VBLKS2		
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		
	% Moisture	14		24		27		22		19		23						
	Location																	
10	Chloromethane																	
10	Bromomethane																	
10	Vinyl Chloride																	
10	Chloroethane																	
10	Methylene Chloride	9	BJ	7	BJ	23	B	35	B	26	B	25	B	21		7	J	
10	Acetone	9	BJ	10	BJ	7	BJ	57	B	10	BJ	5	BJ	5	J	4	J	
10	Carbon Disulfide																	
10	1,1-Dichloroethene																	
10	1,1-Dichloroethane																	
10	Total 1,2-Dichloroethene																	
10	Chloroform																	
10	1,2-Dichloroethane																	
10	2-Butanone																	
10	1,1,1-Trichloroethane																	
10	Carbon Tetrachloride																	
10	Vinyl Acetate																	
10	Bromodichloromethane																	

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINIT
*revised 0

DATA SUMMARY FORM: V O L A T I L E S 2

Site Name: Walmore Road-Johnson Property

Case #: 9301.314 Sampling Date(s): 23JUN'93

SOIL SAMPLES
(µg/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SED-1	SED-2	SED-3	SS-1	SS-2	SS-3	VBLKS1	VBLKS2	
	Sample No.	SED-1	SED-2	SED-3	SS-1	SS-2	SS-3	VBLKS1	VBLKS2	
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
	% Moisture	14	24	27	22	19	23			
	Location									
10	1,2-Dichloropropane									
10	Cis-1,3-Dichloropropene									
10	Trichloroethene									
10	Dibromochloromethane									
10	1,1,2-Trichloroethane									
10	Benzene									
10	Trans-1,3-Dichloropropene									
10	Bromoform									
10	4-Methyl-2-pentanone									
10	2-Hexanone									
10	Tetrachloroethene									
10	1,1,2,2,-Tetrachloroethane									
10	Toluene									
10	Chlorobenzene									
10	Ethylbenzene									
10	Styrene									
10	Total Xylenes									

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIO
revised 07/

DATA SUMMARY FORM: V O L A T I L E S 1

Site Name: Walmore Road - Johnson Property

SOIL SAMPLES
(µg/Kg)

Case #: 9301.314 Sampling Date(s): 6-23-93

To calculate sample quantitation limi
(CRQL * Dilution Factor) / ((100 - % moisture)/10

CRQL	COMPOUND	Sample No.	MSB1		SS-3MS		SS-3MSD											
		Dilution Factor	1.0		1.0		1.0											
		% Moisture																
		Location																
10	Chloromethane																	
10	Bromomethane																	
10	Vinyl Chloride																	
10	Chloroethane																	
10	Methylene Chloride		42	B	59	B	65	B										
10	Acetone		5	BJ														
10	Carbon Disulfide																	
10	1,1-Dichloroethene		38		50		45											
10	1,1-Dichloroethane																	
10	Total 1,2-Dichloroethene																	
10	Chloroform																	
10	1,2-Dichloroethane																	
10	2-Butanone																	
10	1,1,1-Trichloroethane																	
10	Carbon Tetrachloride																	
10	Vinyl Acetate																	
10	Bromodichloromethane																	

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINIT
*revised 0

DATA SUMMARY FORM: V O L A T I L E S 2

Site Name: Walmore Road-Johnson Property

Case #: 9301.314 Sampling Date(s): 6-23-93

SOIL SAMPLES
(µg/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	MSB1	SS-3MS	SS-3MSD						
	Sample No.	MSB1	SS-3MS	SS-3MSD						
	Dilution Factor	1.0	1.0	1.0						
	% Moisture									
	Location									
10	1,2-Dichloropropane									
10	Cis-1,3-Dichloropropene									
10	Trichloroethene	36	49	47						
10	Dibromochloromethane									
10	1,1,2-Trichloroethane									
10	Benzene	41	55	55						
10	Trans-1,3-Dichloropropene									
10	Bromoform									
10	4-Methyl-2-pentanone									
10	2-Hexanone									
10	Tetrachloroethene									
10	1,1,2,2,-Tetrachloroethane									
10	Toluene	40	56	58						
10	Chlorobenzene	43	58	57						
10	Ethylbenzene									
10	Styrene									
10	Total Xylenes									

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIO
revised 07/

DATA SUMMARY FORM: B N A S 1

te Name: Walmore Road-Johnson Property

se #: 9301.314 Sampling Date(s): 6-23-93

WATER SAMPLES
(µg/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	SW-1	SW-2	SW-3	SBLKW1	SBLKW2	MSB2	SW-1MS	SW-1MSD	
	Sample No.									
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
	Location									
10	Phenol						57	89	130	
10	bis(2-Chloroethyl)ether						69	130	150	
10	2-Chlorophenol									
10	1,3-Dichlorobenzene						47	80	91	
10	1,4-Dichlorobenzene									
10	1,2-Dichlorobenzene									
10	2-Methylphenol									
10	bis(2-Chloroisopropyl)ether									
10	4-Methylphenol						51	100	120	
10	N-Nitroso-di-n-propylamine									
10	Hexachloroethane									
10	Nitrobenzene									
10	Isophorone									
10	2-Nitrophenol									
10	2,4-Dimethylphenol									
10	bis(2-Chloroethoxy)methane									
10	2,4-Dichlorophenol						48	81	97	
10	1,2,4-Trichlorobenzene									
10	Naphthalene									
10	4-Chloroaniline									

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS
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DATA SUMMARY FORM: B N A S 2

Site Name: Walmore Road-Johnson Property

WATER SAMPLES
(µg/L)

Case #: 9301.314 Sampling Date(s): 6-23-93

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	Sample No.	SW-1	SW-2	SW-3	SBLKW1	SBLKW2	MSB2	SW-1MS	SW-1MSD	
		Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
		Location									
10	Hexachlorobutadiene							69	75	110	
10	4-Chloro-3-methylphenol										
10	2-Methylnaphthalene										
10	Hexachlorocyclopentadiene										
10	2,4,6-Trichlorophenol										
25	2,4,5-Trichlorophenol										
10	2-Chloronaphthalene										
25	2-Nitroaniline										
10	Dimethylphthalate										
10	Acenaphthylene										
10	2,6-Dinitrotoluene										
25	3-Nitroaniline							58	98	110	
10	Acenaphthene										
25	2,4-Dinitrophenol							61	79	140	
25	4-Nitrophenol										
10	Dibenzofuran							55	110	140	
10	2,4-Dinitrotoluene										
10	Diethylphthalate										
10	4-Chlorophenyl-phenylether										
10	Fluorene										
25	4-Nitroaniline										
25	4,6-Dinitro-2-methylphenol										

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS
revised 07/92

DATA SUMMARY FORM: B N A S 3

Site Name: Walmore Road - Johnson Property

Case #: 9301.314 Sampling Date(s): 6-23-93

WATER SAMPLES
(µg/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	SW-1		SW-2		SW-3		SBLKW1		SBLKW2		MSBZ		SW-1MS		SW-1MSD		
	Sample No.																	
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0		
	Location																	
10	N-Nitrosodiphenylamine																	
10	4-Bromophenyl-phenylether																	
10	Hexachlorobenzene											80		120		180		
25	Pentachlorophenol																	
10	Phenanthrene																	
10	Anthracene																	
10	Carbazole																	
10	Di-n-butylphthalate																	
10	Fluoranthene											65		110		110		
10	Pyrene																	
10	Butylbenzylphthalate																	
10	3,3'-Dichlorobenzidine																	
10	Benzo(a)anthracene																	
10	Chrysene											1	J	3	J	3	J	
10	bis(2-Ethylhexyl)phthalate	1	J			3	J											
10	Di-n-octylphthalate																	
10	Benzo(b)fluoranthene																	
10	Benzo(k)fluroanthene																	
10	Benzo(a)pyrene																	
10	Indeno(1,2,3-cd)pyrene																	
10	Dibenz(a,h)anthracene																	
10	Benzo(g,h,i)perylene																	

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITION
revised 07/9

DATA SUMMARY FORM: B N A S 1

Site Name: Walmore Road - Johnson Property

SOIL SAMPLES
(µg/Kg)

Case #: 9301.314 Sampling Date: 6-23-93

To calculate sample quantitation limit
(CRQL * Dilution Factor) / ((1 - % moisture)/100

CRQL	COMPOUND	SED-1	SED-2	SED-3	SS-1	SS-2	SS-3	SBLKS1	MSB1
	Sample No.	SED-1	SED-2	SED-3	SS-1	SS-2	SS-3	SBLKS1	MSB1
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	% Moisture	14	24	27	22	19	23		
	Location								
330	Phenol								1,200
330	bis(2-Chloroethyl)ether								
330	2-Chlorophenol								1,400
330	1,3-Dichlorobenzene								
330	1,4-Dichlorobenzene								1,300
330	1,2-Dichlorobenzene								
330	2-Methylphenol								
330	bis(2-Chloroisopropyl)ether								
330	4-Methylphenol								
330	N-Nitroso-di-n-propylamine								940
330	Hexachloroethane								
330	Nitrobenzene								
330	Isophorone								
330	2-Nitrophenol								
330	2,4-Dimethylphenol								
330	bis(2-Chloroethoxy)methane								
330	2,4-Dichlorophenol								
330	1,2,4-Trichlorobenzene								1,400
330	Naphthalene								
330	4-Chloroaniline								

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIO

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DATA SUMMARY FORM: B N A S 2

SOIL SAMPLES
(µg/Kg)

Site Name: Walmere Road - Johnson Property

Case #: 9301.314 Sampling Date(s): 6-23-93

To calculate sample quantitation limit
(CRQL * Dilution Factor) / ((100 - % moisture)/100

	Sample No.	SED-1	SED-2	SED-3	SS-1	SS-2	SS-3	SBLKS1	MSB1	
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
	% Moisture	14	24	27	22	19	23			
	Location									
CRQL	COMPOUND									
330	Hexachlorobutadiene								1,400	
330	4-Chloro-3-methylphenol									
330	2-Methylnaphthalene									
330	Hexachlorocyclopentadiene									
330	2,4,6-Trichlorophenol									
800	2,4,5-Trichlorophenol									
330	2-Chloronaphthalene									
800	2-Nitroaniline									
330	Dimethylphthalate									
330	Acenaphthylene									
330	2,6-Dinitrotoluene									
800	3-Nitroaniline								1,500	
330	Acenaphthene									
800	2,4-Dinitrophenol								1,400	
800	4-Nitrophenol									
330	Dibenzofuran								1,100	
330	2,4-Dinitrotoluene					98 J				
330	Diethylphthalate			630						
330	4-Chlorophenyl-phenylether									
330	Fluorene									
800	4-Nitroaniline									
800	4,6-Dinitro-2methylphenol									

SEE NARRATIVE FOR CODE DEFINIT
revised 0

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: B N A S 3

Site Name: Walmore Road-Johnson Property

SOIL SAMPLES
(µg/Kg)

Case #: 9301.314 Sampling Date(s): 6-23-93

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	SED-1		SED-2		SED-3		SS-1		SS-2		SS-3		SBLKS1		MSB1			
	Sample No.	SED-1		SED-2		SED-3		SS-1		SS-2		SS-3		SBLKS1		MSB1			
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0		1.0			
	% Moisture	14		24		27		22		19		23							
	Location																		
330	N-Nitrosodiphenylamine																		
330	4-Bromophenyl-phenylether																		
330	Hexachlorobenzene															980			
800	Pentachlorophenol																		
330	Phenanthrene	56	J	110	J	250	J	49	J										
330	Anthracene					48	J												
330	Carbazole																		
330	Di-n-butylphthalate																		
330	Fluoranthene	150	J	160	J	420	J	96	J			74	J						
330	Pyrene	150	J	140	J	340	J	81	J	46	J	67	J			1,600			
330	Butylbenzylphthalate					54	J												
330	3,3'-Dichlorobenzidine																		
330	Benzo(a)anthracene	120	J	87	J	190	J	50	J										
330	Chrysene	150	J	78	J	210	J	64	J			54	J						
330	bis(2-Ethylhexyl)phthalate																		
330	Di-n-octylphthalate																		
330	Benzo(b)fluoranthene	230	J	100	J	250	J	77	J	52	J	130	J						
330	Benzo(k)fluoranthene	86	J			85	J	39	J			43	J						
330	Benzo(a)pyrene	160	J	70	J	180	J	49	J										
330	Indeno(1,2,3-cd)pyrene	170	J	70	J	150	J	59	J			200	J						
330	Dibenz(a,h)anthracene	55	J			54	J					57	J						
330	Benzo(g,h)perylene	160	J	69	J	130	J	55	J			240	J						

CRQL = Contract Required Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITION
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DATA SUMMARY FORM: B N A S 1

Site Name: Walmore Road-Johnson Property

SOIL SAMPLES
(µg/Kg)

Case #: 9301.314 Sampling Date: 6-23-93

To calculate sample quantitation limit
(CRQL * Dilution Factor) / ((1 - % moisture)/100

CRQL	COMPOUND	Sample No.	SS-3MS	SS-3MSD																				
		Dilution Factor	1.0	1.0																				
		% Moisture	23	23																				
		Location																						
330	Phenol		1300	1700																				
330	bis(2-Chloroethyl)ether																							
330	2-Chlorophenol		1400	1800																				
330	1,3-Dichlorobenzene																							
330	1,4-Dichlorobenzene		1400	1500																				
330	1,2-Dichlorobenzene																							
330	2-Methylphenol																							
330	bis(2-Chloroisopropyl)ether																							
330	4-Methylphenol																							
330	N-Nitroso-di-n-propylamine		970	1300																				
330	Hexachloroethane																							
330	Nitrobenzene																							
330	Isophorone																							
330	2-Nitrophenol																							
330	2,4-Dimethylphenol																							
330	bis(2-Chloroethoxy)methane																							
330	2,4-Dichlorophenol																							
330	1,2,4-Trichlorobenzene		1400	1700																				
330	Naphthalene																							
330	4-Chloroaniline																							

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: B N A S 2

Site Name: Walmore Road - Johnson Property

SOIL SAMPLES
(µg/Kg)

Case #: 9301.314 Sampling Date(s): 6-23-93

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND	Sample No.	SS-3MS	SS-3MSD								
		Dilution Factor	1.0	1.0								
		% Moisture	23	23								
		Location										
330	Hexachlorobutadiene											
330	4-Chloro-3-methylphenol		1100	1500								
330	2-Methylnaphthalene											
330	Hexachlorocyclopentadiene											
330	2,4,6-Trichlorophenol											
800	2,4,5-Trichlorophenol											
330	2-Chloronaphthalene											
800	2-Nitroaniline											
330	Dimethylphthalate											
330	Acenaphthylene		1500	1700								
330	2,6-Dinitrotoluene											
800	3-Nitroaniline											
330	Acenaphthene											
800	2,4-Dinitrophenol											
800	4-Nitrophenol		1300	1900								
330	Dibenzofuran											
330	2,4-Dinitrotoluene		960	1200								
330	Diethylphthalate											
330	4-Chlorophenyl-phenylether											
330	Fluorene											
800	4-Nitroaniline											
800	4,6-Dinitro-2methylphenol											

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: B N A S 3

SOIL SAMPLES
(µg/Kg)

Site Name: Walmore Road-Johnson Property

Case #: 9301314 Sampling Date(s): 6-23-93

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

	Sample No.	SS-3MS		SS-3MSD	
	Dilution Factor	1.0		1.0	
	% Moisture	23		23	
	Location				
CRQL	COMPOUND				
330	N-Nitrosodiphenylamine				
330	4-Bromophenyl-phenylether				
330	Hexachlorobenzene				
800	Pentachlorophenol	480	J	1100	
330	Phenanthrene				
330	Anthracene				
330	Carbazole				
330	Di-n-butylphthalate				
330	Fluoranthene	80	J	75	J
330	Pyrene	1800		1900	
330	Butylbenzylphthalate				
330	3,3'-Dichlorobenzidine				
330	Benzo(a)anthracene				
330	Chrysene	51	J	58	J
330	bis(2-Ethylhexyl)phthalate				
330	Di-n-octylphthalate				
330	Benzo(b)fluoranthene	110	J	140	J
330	Benzo(k)fluoranthene	43	J	35	J
330	Benzo(a)pyrene				
330	Indeno(1,2,3-cd)pyrene	180	J	210	J
330	Dibenz(a,h)anthracene	46	J	50	J
330	Benzo(g,h)perylene	220	J	260	J

SEE NARRATIVE FOR CODE DEFINITIO
revised 07/

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: P E S T I C I D E S A N D P C B ' S

WATER SAMPLES
(µg/L)

Site Name: Walmore Road-Johnson Property

Case #: 9301.314 Sampling Date(s): 6-23-93

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	COMPOUND	SW-1	SW-2	SW-3	PBLKW1	MSB1	SW-2MS	SW-2MSD
	Sample No.							
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Location							
0.05	alpha-BHC							
0.05	beta-BHC							
0.05	delta-BHC					0.57	0.97 P	1.1
0.05	gamma-BHC (Lindane)				0.075 P	0.48 B	0.81 B	0.93 B
0.05	Heptachlor					0.40	0.47 P	0.74
0.05	Aldrin							
0.05	Heptachlor Epoxide							
0.05	Endosulfan I					1.1	1.9	2.0
0.10	Dieldrin							
0.10	4,4'-DDE					1.0	1.9	1.9
0.10	Endrin							
0.10	Endosulfan II							
0.10	4,4'-DDD							
0.10	Endosulfan Sulfate					1.2	2.1	2.2
0.10	4,4'-DDT							
0.50	Methoxychlor							
0.10	Endrin Ketone							
0.10	Endrin Aldehyde							
0.05	alpha-Chlordane							
0.05	gamma-Chlordane							
5.0	Toxaphene							
1.0	Aroclor-1016							
2.0	Aroclor-1221							
1.0	Aroclor-1232							
1.0	Aroclor-1242							
1.0	Aroclor-1248							
1.0	Aroclor-1254							
1.0	Aroclor-1260							

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CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: P E S T I C I D E S A N D P C B ' S

Site Name: Walmore Road - Johnson Property

SOIL SAMPLES
(µg/Kg)

Case #: 9301314 Sampling Date(s): 6-23-93

To calculate sample quantitation limit
(CRQL * Dilution Factor) / ((100 - % moisture)/100

CRQL	COMPOUND	SED-1	SED-2	SED-3	SS-1	SS-2	SS-3	PBLKS1	PBLKS2	SS-3MS
	Sample No.	SED-1	SED-2	SED-3	SS-1	SS-2	SS-3	PBLKS1	PBLKS2	SS-3MS
	Dilution Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	% Moisture	14	24	27	22	19	23			23
	Location									
1.7	alpha-BHC									
1.7	beta-BHC									14
1.7	delta-BHC									18
1.7	gamma-BHC (Lindane)									12
1.7	Heptachlor									
1.7	Aldrin									
1.7	Heptachlor Epoxide									32
1.7	Endosulfan I									3.1
3.3	Dieldrin			3.9 JP		1.5 J	2.9 J			31
3.3	4,4'-DDE									
3.3	Endrin									
3.3	Endosulfan II			3.2 JP						
3.3	4,4'-DDD									40
3.3	Endosulfan Sulfate					1.7 JP				
3.3	4,4'-DDT		2.0 JP							
17	Methoxychlor									
3.3	Endrin Ketone									
3.3	Endrin Aldehyde									
1.7	alpha-Chlordane									
1.7	gamma-Chlordane									
17	Toxaphene									
33	Aroclor-1016									
67	Aroclor-1221									
33	Aroclor-1232									
33	Aroclor-1242									
33	Aroclor-1248									
33	Aroclor-1254									
33	Aroclor-1260									

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CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: P E S T I C I D E S A N D P C B ' S

Site Name Walmore Road - Johnson Property

SOIL SAMPLES
(µg/Kg)

Case #: 9301314 Sampling Date(s): 6-23-93

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	COMPOUND		
	Sample No.	SS-3MSD	
	Dilution Factor	1.0	
	% Moisture	23	
	Location		
1.7	alpha-BHC		
1.7	beta-BHC		
1.7	delta-BHC		
1.7	gamma-BHC (Lindane)	13	
1.7	Heptachlor	18	
1.7	Aldrin	12	P
1.7	Heptachlor Epoxide		
1.7	Endosulfan I		
3.3	Dieldrin	31	
3.3	4,4'-DDE	3.1	J
3.3	Endrin	31	
3.3	Endosulfan II		
3.3	4,4'-DDD		
3.3	Endosulfan Sulfate		
3.3	4,4'-DDT	42	
17	Methoxychlor		
3.3	Endrin Ketone		
3.3	Endrin Aldehyde		
1.7	alpha-Chlordane		
1.7	gamma-Chlordane		
170	Toxaphene		
33	Aroclor-1016		
67	Aroclor-1221		
33	Aroclor-1232		
33	Aroclor-1242		
33	Aroclor-1248		
33	Aroclor-1254		
33	Aroclor-1260		

CRQL = Contract Required Quantitation Limit

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DATA SUMMARY FORM: I N O R G A N I C S

ite Name: Walmore Road - Johnson Property

WATER SAMPLES
(µg/L)

ase #: 9301.314 **Sampling Date(s):** 23 JUN 1993

+Due to dilution, sample quantitation limit is affected. See dilution table for specifics.

CRDL	ANALYTE	SW-1	SW-2	SW-3
	Sample No.	SW-1	SW-2	SW-3
	Dilution Factor			
	Location			
200	Aluminum	471	279	694
60	Antimony			
10	Arsenic		1.1	1.1
200	Barium	58.5	58.6	59.2
5	Beryllium			
5	Cadmium			
5000	Calcium	110,000	113,000	121,000
10	Chromium			13.6
50	Cobalt			
25	Copper	2.7	2.5	2.5
100	Iron	193	290	891
3	Lead	1.7	1.2	1.8
5000	Magnesium	33,700	34,300	34,100
15	Manganese	37.8	40.8	58.9
0.2	Mercury			
40	Nickel			10.9
5000	Potassium	1,690	3,370	8,140
5	Selenium			1.0
10	Silver			
5000	Sodium	35,100	36,300	35,200
10	Thallium			
50	Vanadium			
20	Zinc	612	588	575
10	Cyanide			

CRDL = Contract Required Detection Limit

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revised 07/90

DATA SUMMARY FORM: I N O R G A N I C S

Site Name: Walmore Road - Johnson Property

SOIL SAMPLES
(mg/Kg)

Case #: 9301.314 Sampling Date(s): 23 JUN 1993

+Due to dilution, sample quantitation limit is affected.
See dilution table for specifics.

CRDL	ANALYTE	Sample No.	SED-1	SED-2	SED-3	SS-1	SS-2	SS-3	SS-3 MS	SS-3MSD	MSB	
		Dilution Factor										
		% Solids	85.6	75.8	72.9	77.7	80.7	77.3	77.3	77.3		
		Location										
40	Aluminum		2,100	1,850	2,500	10,000	12,100	5,350		5,830	305	
12	Antimony								76.0	9.1	244	
2	Arsenic		1.9	2.1	2.3	5.0	5.1	7.0	15.1	6.4	822	
40	Barium		18.9	26.4	57.3	72.0	100	72.6	656	77.4	5.4	
1	Beryllium					0.63	0.81	0.54	14.5	0.58	17.8	
1	Cadmium			1.3	2.0		0.85		14.3	0.78	41.7	
1000	Calcium		57,200	76,100	67,600	2,370	2,710	3,320		3,430	170,000	
2	Chromium		9.3	4.4	9.4	16.3	22.5	13.0	80.4	14.4	101	
10	Cobalt		5.9	5.3	5.5	12.1	18.8	11.5	148	14.0	139	
5	Copper		11.9	7.9	10.3	20.0	20.9	33.5	134	32.6	6,460	
20	Iron		15,400	7,850	8,810	20,000	24,600	18,400		19,200	21,700	
0.6	Lead		10.5	28.4	28.4	38.4	61.9	67.7	57.9	65.3	239	
1000	Magnesium		16,100	39,400	34,200	3,290	4,220	1,570		1,740	119,000	
3	Manganese		440	668	400	351	576	912	1,240	1,050	199	
0.2	Mercury					0.11	0.12	0.38	0.78	0.36	9.6	
8	Nickel		9.1	6.9	9.1	19.8	23.8	14.1	154	13.9	59.3	
1000	Potassium		267	292	389	772	1,150	1,160		1,240	165.6	
1	Selenium						0.45	0.62	2.4	0.28	33.0	
2	Silver								12.2	0.78	17.6	
1000	Sodium		105	127	140					88.2	92.9	
2	Thallium								13.0	0.26	45.4	
10	Vanadium		8.2	7.1	9.0	28.4	35.1	20.1	161	21.8	65.3	
4	Zinc		319	583	872	64.2	61.7	66.4	235	67.1	195	
2	Cyanide								6.0	32.3		

CRDL = Contract Required Detection Limit

SEE NARRATIVE FOR CODE DEFINITIO
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DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: WALMORE ROAD - JOHNSON PROP

Case #: 9301.314 **Sampling Date:** 6-23-93

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((1 - % moisture/100)

	Sample No.	SS-1		SS-2		SS-3		SED-1		SED-2		SED-3		SBLKS1					
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0					
	% Moisture	22		19		23		14		24		27							
	Location													BLANK					
CRQL	COMPOUND																		
	ETHANOL (64-17-5 CAS)	46	JN																
10.16	UNKNOWN HYDROCARBON			48	J														
11.57	UNKNOWN HYDROCARBON			100	J														
13.15	UNKNOWN	2600	J			2000	J	4600	J										
15.19	ALDOL CONDENSATION PRODUCT (12-34-22 CAS)	17,000	DBJN	1300	DBJN			27,000	DBJN	39,000	DBJN	12,000	DBJN	45,000	AJN				
								390	BJ	6660	BJ	250	BJ	1000	J				
16.39	UNKNOWN							120	J	220	J								
17.12	"											480	BJ	1200	J				
17.35	"	1100	BJ	1500	BJ	1400	BJ	1600	BJ	1000	BJ	910	BJ	1000	J				
17.59	"	1000	BJ	1500	BJ	1600	BJ	1700	BJ	960	BJ	430	J	380	J				
18.23	"	380	BJ	740	BJ	880	J	890	BJ	170	BJ	230	BJ	130	J				
18.42	"			180	BJ	240	BJ	190	BJ	170	BJ	250	BJ	170	J				
21.02	"							140	BJ					170	J				
21.78	"							210	BJ					200	J				
23.43	"							210	BJ	170	BJ			220	J				
27.91	"			310	BJ	520	BJ	250	BJ	240	BJ	200	BJ						
32.45	"			680	J	970	J	210	J	680	J	550	J						
33.60	UNKNOWN HYDROCARBON			330	BJ	560	J	310	BJ	240	BJ			220	J				
33.80	UNKNOWN							140	J										
34.88	"							170	BJ					130	J				
36.16	"									1100	J	570	J						
37.12	UNKNOWN HYDROCARBON	1200	J	940	J	1600	J	460	J	790	J	320	J						
37.64	UNKNOWN							210	BJ					83	J				
38.23	"	400	J			650	BJ	190	J	740	J	480	J						
39.20	"	1200	J	610	J	710	J			280	J	250	J						
40.19	"	400	J																

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: WALMORE ROAD - JOHNSON PROPERTY

Case #: 9301.314 **Sampling Date:** 6-23-93

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((1 - % moisture/100)

	Sample No.	SS-1		SS-2		SS-3		SED-1		SED-2		SED-3		SBLKS1							
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0							
	% Moisture	22		19		23		14		24		27									
	Location													BLANK							
CRQL	COMPOUND																				
3.91	UNKNOWN									7600	J										
4.65	"			1800	J	2200	BJ			960	J			3000	J						
8.16	"			840	J	300	J			200	J										
31.64	UNKNOWN HYDROCARBON					430	J			2600	J										
36.79	UNKNOWN									130	J										
37.16	UNKNOWN							370	J					130	J						
3.83	"											2500	J								
4.39	"											520	J								
19.54	"											300	J								
21.91	"											360	J								
24.02	"					240	J					250	J								
25.95	"											230	J								
31.61	"	380	J																		
33.61	UNKNOWN OXY. HYDROCARBON	790	J																		
34.90	"	1100	J	610	J	1300	J					360	J								
36.68	"	510	J	490	J	690	J														
39.01	UNKNOWN	700	J																		
39.43	"	600	J																		
40.39	"	640	J																		
40.62	"	890	J	610	J																
41.27	"	2600	J	1400	J																
41.47	"	320	J																		
42.41	"	1100	J	550	J																
43.16	UNKNOWN OXY. HYDROCARBON			290	J																

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: WALMORE ROAD-JOHNSON PROPERTY

SOIL SAMPLES (ug/Kg)

Case #: 9301.314 Sampling Date: 6.23.93

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((1 - % moisture/100)

	Sample No.	SS-1		SS-2		SS-3		SED-1		SED-2		SED-3		SBLKS1					
	Dilution Factor	1.0		1.0		1.0		1.0		1.0		1.0		1.0					
	% Moisture	22		19		23		14		24		27							
	Location													BLANK					
CRQL	COMPOUND																		
41.87	UNKNOWN			350	J														
42.66	"			760	J														
25.45	UNKNOWN HYDROCARBON					2000	J												
39.00	"					540	J							83	J				
13.30	UNKNOWN													120	J				
26.80	"													200	J				
35.05	"																		

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: WALMORE ROAD - JOHNSON PROPERTY

Case #: 9301.314 Sampling Date: 6-23-93

WATER SAMPLES (ug/L)

To calculate sample quantitation limit: (CRQL * Dilution Factor)

	Sample No.	SW-1		SW-2		SW-3		SBLKW1		SBLKW2									
	Dilution Factor	1.0		1.0		1.0		1.0		1.0									
	Location							BLANK		BLANK									
CRQL	COMPOUND																		
5.49	UNKNOWN	2	J																
5.77	"	5	J																
6.30	"	6	J																
7.90	"	4	J																
11.06	"	41	J																
12.35	"	6	J																
12.78	"	18	J																
13.70	UNKNOWN OXY. HYDROCARBON	38	J																
14.02	UNKNOWN	2	J																
14.16	"	8	J																
14.46	"	10	J																
28.00	"	4	J																
29.88	"	2	J																
33.42	"	16	J																
33.84	"	180	J																
34.58	"	220	J																
12.64	"			5	J	7	J												
13.13	"			2	J	2	J												
2.50	"					13	J												
3.11	"					13	J												
5.96	"					4	J												
12.05	"					2	J												
13.21	"					2	J												
35.75	"									4	J								

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: VOLATILES 1

Site Name: WALMORE ROAD - JOHNSON PROP.

Job Number: 9302.101 Sampling Date(s): 9-20-93

SOIL SAMPLES (µg/kg)

To calculate sample quantitation limit: (CRQL * Dilution Factor) / ([100 - % moisture]/100)

CRQL	Compound	Sample Number:		B2-1		B3-2		B6-2		VBLKS1									
		Dilution Factor:		1.0		1.0		1.0		1.0									
		% Moisture:		15		17		15											
		Location:		2-3.5'		5-6'		4-5'		BLANK									
10	Chloromethane																		
10	Bromomethane																		
10	Vinyl chloride																		
10	Chloroethane																		
10	Methylene chloride	3	B					2	B	1	J								
10	Acetone	55	B	72	B			5	B	5	J								
10	Carbon disulfide																		
10	1,1-Dichloroethene																		
10	1,1-Dichloroethane																		
10	Total 1,2-dichloroethene																		
10	Chloroform																		
10	1,2-Dichloroethane																		
10	2-Butanone	5	J	13															
10	1,1,1-Trichloroethane																		
10	Carbon tetrachloride																		
10	Bromodichloromethane																		

CRQL = Contract Required Quantitation Limit.

D-30

DATA SUMMARY FORM: VOLATILES 2

Site Name: WALMORE ROAD - JOHNSON PROP.

Job Number: 9302.101 Sampling Date(s): 9-20-93

SOIL SAMPLES (µg/kg)

To calculate sample quantitation limit: (CRQL * Dilution Factor) / ([100 - % moisture]/100)

CRQL	Compound	Sample Number:		B2-1		B3-2		B6-2		VBLKS1									
		Dilution Factor:		1.0		1.0		1.0		1.0									
		% Moisture:		15		17		15											
		Location:		2-3.5'		5-6'		4-5'		BLANK									
10	1,2-Dichloropropane																		
10	Cis-1,3-dichloropropene																		
10	Trichloroethene	1.0	J			3	J												
10	Dibromochloromethane																		
10	1,1,2-Trichloroethane																		
10	Benzene																		
10	Trans-1,3-dichloropropene																		
10	Bromoform																		
10	4-Methyl-2-pentanone					9	J												
10	2-Hexanone																		
10	Tetrachloroethene																		
10	1,1,2,2-Tetrachloroethane																		
10	Toluene					1	J												
10	Chlorobenzene																		
10	Ethylbenzene																		
10	Styrene																		
10	Total xylenes																		

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: VOLATILES 1

Site Name: Walmore Rd - Johnson Property

Job Number: 9302.101 Sampling Date(s): 9-20-93

WATER SAMPLES
(µg/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	Compound	Sample Number:	STORAGE BLK		VBLKW1															
		Dilution Factor:	1.0		1.0															
		% Moisture:																		
		Location:																		
10	Chloromethane																			
10	Bromomethane																			
10	Vinyl chloride																			
10	Chloroethane																			
10	Methylene chloride		1	B	2	J														
10	Acetone																			
10	Carbon disulfide																			
10	1,1-Dichloroethene																			
10	1,1-Dichloroethane																			
10	Total 1,2-dichloroethene																			
10	Chloroform		1	J																
10	1,2-Dichloroethane																			
10	2-Butanone																			
10	1,1,1-Trichloroethane																			
10	Carbon tetrachloride																			
10	Bromodichloromethane																			

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: VOLATILES 2

Site Name: WALMORE ROAD - JOHNSON PROP.

Job Number: 9302.101 Sampling Date(s): 9.20.93

WATER SAMPLES
(µg/L)

To calculate sample quantitation limit:
(CRQL * Dilution Factor)

CRQL	Compound	Sample Number:	STORAGE BLK	VBLKN41													
		Dilution Factor:	1.0	1.0													
		% Moisture:															
		Location:															
10	1,2-Dichloropropane																
10	Cis-1,3-dichloropropene																
10	Trichloroethene																
10	Dibromochloromethane																
10	1,1,2-Trichloroethane																
10	Benzene																
10	Trans-1,3-dichloropropene																
10	Bromoform																
10	4-Methyl-2-pentanone																
10	2-Hexanone																
10	Tetrachloroethene																
10	1,1,2,2-Tetrachloroethane																
10	Toluene																
10	Chlorobenzene																
10	Ethylbenzene																
10	Styrene																
10	Total xylenes																

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 1

Site Name: WALMORE ROAD - JOHNSON PROP.

Job Number: 9302.101 Sampling Date(s): 9.20.93

SOIL SAMPLES (µg/kg)

To calculate sample quantitation limit: (CRQL * Dilution Factor) / ([1 - % moisture]/100)

CRQL	Compound	Sample Number:	B2-1	B3-2	B6-2	SBLKS1	B3-2MS	B3-2MSD		
		Dilution Factor:	1.0	1.0	50/200	1.0				
		% Moisture:	15	17	15					
		Location:	2-3.5'	5-6'	4-5'	BLANK	MATRIX SPIKE	MATRIX SPIKE DUPLICATE		
330	Phenol						2270	2108		
330	bis(2-Chloroethyl)ether						2030	1930		
330	2-Chlorophenol									
330	1,3-Dichlorobenzene						1376	1229		
330	1,4-Dichlorobenzene									
330	1,2-Dichlorobenzene									
330	2-Methylphenol									
330	2,2'-oxybis(1-chloropropane)									
330	4-Methylphenol						1471	1556		
330	N-Nitroso-di-n-propylamine									
330	Hexachloroethane									
330	Nitrobenzene									
330	Isophorone									
330	2-Nitrophenol									
330	2,4-Dimethylphenol									
330	bis(2-Chloroethoxy)methane									
330	2,4-Dichlorophenol						1669	1439		
330	1,2,4-Trichlorobenzene									
330	Naphthalene				8500 J					
330	4-Chloroaniline									

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 2

Site Name: WALMORE ROAD - JOHNSON PROP.

Job Number: 9302.101 Sampling Date(s): 9.20.93

SOIL SAMPLES (µg/kg)

To calculate sample quantitation limit: (CRQL * Dilution Factor) / ([100 - % moisture]/100)

CRQL	Compound	Sample Number:	B2-1		B3-2		B6-2		SBLKS1		B3-2 MS		B3-2 MSD							
		Dilution Factor:	1.0		1.0		50/200		1.0											
		% Moisture:	15		17		15													
		Location:	2-3.5'		5-6'		4-5'		BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE							
330	Hexachlorobutadiene																			
330	4-Chloro-3-methylphenol										2398		2192							
330	2-Methylnaphthalene						3400	J												
330	Hexachlorocyclopentadiene																			
330	2,4,6-Trichlorophenol																			
800	2,4,5-Trichlorophenol																			
330	2-Chloronaphthalene																			
800	2-Nitroaniline																			
330	Dimethylphthalate																			
330	Acenaphthylene																			
330	2,6-Dinitrotoluene																			
800	3-Nitroaniline																			
330	Acenaphthene						86,000				1851		1690							
800	2,4-Dinitrophenol																			
800	4-Nitrophenol										3072		2856							
330	Dibenzofuran						9200	J												
330	2,4-Dinitrotoluene										1867		1789							
330	Diethylphthalate																			
330	4-Chlorophenyl-phenylether																			
330	Fluorene						23,000	J												
800	4-Nitroaniline																			
800	4,6-Dinitro-2-methylphenol																			

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: B N A S 3

Site Name: WALMORE ROAD - JOHNSON PROP.

Job Number: 9302-101 Sampling Date(s): 9.20.93

SOIL SAMPLES (µg/kg)

To calculate sample quantitation limit: (CRQL * Dilution Factor) / ([100 - % moisture]/100)

CRQL	Compound	Sample Number:		B2-1		B3-2		B6-2		SBLKS1		B3-2 MS		B3-2 MSD					
		Dilution Factor:		1.0		1.0		50/200		1.0									
		% Moisture:		15		17		15											
		Location:		2-3.5'		5-6'		4-5'		BLANK		MATRIX SPIKE		MATRIX SPIKE DUPLICATE					
330	N-Nitrosodiphenylamine																		
330	4-Bromophenyl-phenylether																		
330	Hexachlorobenzene																		
800	Pentachlorophenol											2374		2328					
330	Phenanthrene					230	J	110,000	D										
330	Anthracene							75,000	J										
330	Carbazole							51,000	J										
330	Di-n-butylphthalate					92	B			41	J								
330	Fluoranthene					260	J	190,000	D										
330	Pyrene					160	J	170,000	D			1851		1578					
330	Butylbenzylphthalate																		
330	3,3'-Dichlorobenzidine																		
330	Benzo(a)anthracene					110	J	150,000	D										
330	Chrysene					120	J	140,000	D										
330	bis(2-Ethylhexyl)phthalate					68	B			25	J								
330	Di-n-octylphthalate																		
330	Benzo(b)fluoranthene	74	J	180	J	180,000	D												
330	Benzo(k)fluoranthene	32	J	46	J	150,000													
330	Benzo(a)pyrene	42	J	81	J	150,000	D												
330	Indeno(1,2,3-cd)pyrene	38	J	110	J	84,000	D												
330	Dibenz(a,h)anthracene							75,000	J										
330	Benzo(g,h,i)perylene	35	J	100	J	74,000	J												

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: PESTICIDES AND PCBS

Site Name: WALMORE ROAD - JOHNSON PROP.

Job Number: 9302.101 Sampling Date(s): 9.20.93

SOIL SAMPLES (µg/kg)

To calculate sample quantitation limit: (CRQL * Dilution Factor) / ([100 - % moisture]/100)

CRQL	Compound	Sample Number:		B2-1		B3-2		B6-2		PBLK51									
		Dilution Factor:		1.0		1.0		10		1.0									
		% Moisture:		15		17		15											
		Location:		2-3.5'		5-6'		4-5'		BLANK									
1.7	alpha-BHC																		
1.7	beta-BHC																		
1.7	delta-BHC																		
1.7	gamma-BHC (Lindane)																		
1.7	Heptachlor																		
1.7	Aldrin																		
1.7	Heptachlor epoxide																		
1.7	Endosulfan I																		
3.3	Dieldrin																		
3.3	4,4'-DDE					6.7													
3.3	Endrin							40	J										
3.3	Endosulfan II																		
3.3	4,4'-DDD					7.8		39	J										
3.3	Endosulfan sulfate																		
3.3	4,4'-DDT							55	J										
17	Methoxychlor							1,200											
3.3	Endrin ketone							180	J										
3.3	Endrin Aldehyde							67	J										
1.7	alpha-Chlordane																		
1.7	gamma-Chlordane																		
170	Toxaphene																		
33	Aroclor-1016																		
62	Aroclor-1221																		

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: PESTICIDES AND PCBS (Cont.)

Site Name: WALMORE ROAD - JOHNSON PROP.

SOIL SAMPLES (µg/kg)

To calculate sample quantitation limit: (CRQL * Dilution Factor) / ([100 - % moisture]/100)

Job Number: 9302.101 Sampling Date(s): 9.20.93

CRQL	Compound	Sample Number:		B2-1		B3-2		B6-2		PBLKS1									
		Dilution Factor:		1.0		1.0		10		1.0									
		% Moisture:		15		17		15											
		Location:		2-3.5'		5-6'		4-5'		BLANK									
33	Aroclor-1232																		
33	Aroclor-1242																		
33	Aroclor-1248																		
33	Aroclor-1254																		
33	Aroclor-1260	39																	

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: INORGANICS

Site Name: WALMORE ROAD - JOHNSON PROP.

Job Number: 9302.101 Sampling Date(s): 9.20.93

SOIL SAMPLES (mg/kg)

Due to dilution, sample quantitation limit is affected. See dilution table for specifics.

CRQL	Compound	Sample Number:	B2-1	B3-2	B6-2																	
		Dilution Factor:	1.0	1.0	1.0																	
		% Moisture:	15	17	15																	
		Location:	2-3.5'	5-6'	4-5'																	
40	Aluminum		11,800	11,300	6,230																	
12	Antimony																					
2	Arsenic		5.6	4.4	8.1																	
40	Barium		118	79.2	67.7																	
1	Beryllium		0.60	0.58	0.46																	
1	Cadmium		0.79	1.1	4.2																	
1000	Calcium		41,000	3,440	24,500																	
2	Chromium		18.2	16.2	38.8																	
10	Cobalt		11.9	14.1	33.1																	
5	Copper		19.4	39.1	149																	
20	Iron		18,600	17,700	77,300																	
0.6	Lead		30.6	22.7	92.8																	
1000	Magnesium		21,900	3,360	4,880																	
3	Manganese		504	743	468																	
0.2	Mercury				2.9																	
8	Nickel		24.6	20.0	67.2																	
1000	Potassium		1190	1100																		
1	Selenium				0.36																	
2	Silver																					
1000	Sodium		332	174	337																	
2	Thallium				0.54																	
10	Vanadium		25.0	26.4	53.2																	
4	Zinc		117	141	249																	
2	Cyanide																					

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: EP TOX METALS

Site Name: WALMORE ROAD - JOHNSON PROP.

Job Number: 9302.101 **Sampling Date(s):** 9.20.93

SOIL SAMPLES ~~(ug/kg)~~ (ug/L in extract)

Due to dilution, sample quantitation limit is affected. See dilution table for specifics.

CRQL	Compound	Sample Number:		B2-2		B3-1		B4-1		B4-2		B5-1		B5-2		B6-1	
		Dilution Factor:		1.0		1.0		1.0		1.0		1.0		1.0		1.0	
		% Moisture:															
		Location:		5-5.3' + 7-7.3'		4.5-5'		1-3'		4-5'		6-7'		1-3'		4-5'		1-2'	
	Arsenic																
	Barium		826		305		23.3		645		382		601		960		761	
	Cadmium		16.0		6.2				10.2		10.1				3.2		2.7	
	Chromium		13.9		14.4													
	Lead		169															
	Mercury																	
	Selenium			UJ	5.8	J		UJ		UJ		UJ		UJ		UJ		UJ
	Silver																	

DL = Detection Limit.

DATA SUMMARY FORM: RCRA CHARACTERISTICS

SOIL SAMPLES

Site Name: WALMORE ROAD - JOHNSON PROP.

Job Number: 9302.101 Sampling Date(s): 9.20.93

Due to dilution, sample quantitation limit is affected. See dilution table for specifics.

CRQL	Compound	Sample Number:	B1-2	B2-2	B3-1	B4-1	B4-2	B5-1	B5-2	B6-1
		Dilution Factor:								
		% Moisture:								
		Location:	5-5.3' + 7-7.3'	4.5-5'	1-3'	4-5'	6-7'	1-3'	4-5'	1-2'
	SOLIDS - Total (%)		84	81	66	92	84	83	85	85
	CYANIDE - Total (mg/kg)		2.3	0.85	1.3	0.75				1.4
	SULFIDE - Total (mg/kg)		47	100		48	55	87	23	
	pH		7.8	7.6	8.1	8.1	8.0	7.7	8.6	6.9
	IGNITABILITY		No Flash @ 140°F	No Flash @ 140° F	No Flash @ 140° F	No Flash @ 140° F	No Flash @ 140° F	No Flash @ 140° F	No Flash @ 140° F	No Flash @ 140° F

DL = Detection Limit.

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: WALMORE ROAD - JOHNSON PROP.

Case #: 9302.101 Sampling Date: 9-20-93

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL • Dilution Factor) / ((1 - % moisture/100)

	Sample No.	B2-1		B3-2		B6-2		VBLKS1		SBLKS1									
	Dilution Factor	1.0		1.0		50.0		1.0		1.0									
	% Moisture	15		17		15													
	Location							BLANK		BLANK									
	COMPOUND																		
1.88	UNKNOWN SILOXANE	20	BJ	20	BJ	12	BJ	19	J										
2[illegible].10	UNKNOWN	8	BJ			10	BJ	8	J										
25.76	UNKNOWN SILOXANE			23	BJ														
28.62	INDANE (49-61-17)					18	JN												
12-34-22	ALDOL CONDENSATION PRODUCT	350,000	ABJN	58,000	ABJN	130,000	ABJN			270,000	AJN								
5.87	UNKNOWN	1100	BJ	1100	BJ					930	J								
12.69	"	200	BJ	260	BJ					150	J								
17.23	"	140	J																
24.58	UNKNOWN ALKANOIC ACID	250	J																
26.58	"	530	J																
26.66	UNKNOWN HYDROCARBON	350	J																
29.37	UNKNOWN	210	J																
33.34	Benzo (e) pyrene (19-27-72)	140	JN																
35.12	UNKNOWN HYDROCARBON	140	J																
17.78	Pharmaceutical Sulfur (77-04-34)			100	JN														
23.13	UNKNOWN			140	J														
25.44	Molecular Sulfur (10-54-4500)			4600	JN														
29.15	UNKNOWN AMIDE			220	BJ					83	J								
29.23	UNKNOWN			240	J														
29.46	UNKNOWN AMIDE			140	J														
30.68	UNKNOWN ALKANE			100	J														
31.35	UNKNOWN			400	J														
31.66	UNKNOWN ALKANE			120	J														

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: WALMORE ROAD - JOHNSON PROPERTY

Case #: 9302.101 Sampling Date: 9-20-93

SOIL SAMPLES (ug/Kg)

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((1 - % moisture/100)

	Sample No.	B2-1		B3-2		B6-2		VBLKS1		SBLKS1									
	Dilution Factor	1.0		1.0		50.0		1.0		1.0									
	% Moisture	15		17		15													
	Location							BLANK		BLANK									
	COMPOUND																		
32.61	UNKNOWN ALKANE			340	J														
33.24	UNKNOWN			700	J														
33.51	UNKNOWN ALKANE			240	J														
34.42	"			480	J														
35.07	UNKNOWN OXY. HYDROCARBON			800	J														
35.60	"			240	J														
36.09	UNKNOWN ALKANE			360	J														
36.91	UNKNOWN			220	J														
37.67	"			120	J														
38.07	"			200	J														
23.78	UNKNOWN PAH					7800	J												
26.70	UNKNOWN					8200	J												
27.32	UNKNOWN PAH					10,000	J												
27.54	"					13,000	J												
27.66	"					5100	J												
28.84	UNKNOWN					6100	J												
29.15	BENZONAPHTHOTHIOPHENE ISOMER					5700	J												
29.21	UNKNOWN PAH					7800	J												
30.15	"					5500	J												
31.46	UNKNOWN					5700	J												
32.15	UNKNOWN PAH					29,000	J												
32.67	"					68,000	J												
34.31	UNKNOWN					23,000	J												
37.12	UNKNOWN PAH					29,000	J												
39.12	"					35,000	J												

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: TENTATIVELY IDENTIFIED COMPOUNDS

Site Name: WALMORE ROAD - JOHNSON PROPERTY

SOIL SAMPLES (ug/Kg)

Case #: 9302.101 Sampling Date: 9-20-93

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((1 - % moisture/100)

	Sample No.	B2-1		B3-2		B6-2		VBLK51		SBLK51									
	Dilution Factor	1.0		1.0		50/100		1.0		1.0									
	% Moisture	15		17		15													
	Location							BLANK		BLANK									
	COMPOUND																		
39.25	UNKNOWN PAH					43,000	J												
39.95	"					29,000	J												
48.93	UNKNOWN AMIDE									B3	J								
50.49	UNKNOWN									6616	J								
	UNKNOWN PAH					35,000	D												

CRQL = Contract Required Quantitation Limit

DATA SUMMARY FORM: EPTOX - Herbicides

Site Name: Walmore Road

Job Number: 9400.868 **Sampling Date(s):** April 29, 1994

SOIL SAMPLES (mg/L)

To calculate sample quantitation limit: (CRQL * Dilution Factor) / ([100 - % moisture]/100)

CRQL	Compound	Sample Numbers:	B-3X	B-6X	B-7X	B-8X	B-8Z	B-9X	B-9Z	MB1053
		Dilution Factors:	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		Locations:								Method Blank
	2,4-D									
	2,4,5-TP (Silvex)									

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: EPTOX- Herbicides

SOIL SAMPLES
(mg/L)

Site Name: Walmore Road

Job Number: 9400.868 **Sampling Date(s):** April 29, 1994

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ((100 - % moisture)/100)

CRQL	Compound	MB-1199	B-8Xms	B-8XmsD					
	Dilution Factor:	1.0	1.0	1.0					
	Location:	Method Blank	Matrix Spike	Matrix Spike Dup					
	2,4,-D		1.8	2.0					
	2,4,5-TP (Silvex)		0.38	0.38					

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM: EPTOX - Pesticides

Site Name: Walmore Road

Job Number: 9400.868 Sampling Date(s): April 29, 1994

SOIL SAMPLES (mg/L)

To calculate sample quantitation limit: (CRQL * Dilution Factor) / ([100 - % moisture]/100)

CRQL	Compound	Sample Numbers	B-2X	B-3X	B-6X	B-7X	B-8X	B-8Z	B-9X	B-9Z
		Dilution Factors	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		Locations								
	gamma-BHC (Lindane)									
	Heptachlor									
	Heptachlor Epoxide									
	Endrin									
	Chlordane									
	Methoxychlor									
	Toxaphene									

CRQL = Contract Required Quantitation Limit.

DATA SUMMARY FORM:

SOIL SAMPLES
(mg/.)

Site Name: Walmore Road

Job Number: 9400.868 Sampling Date(s): April 29, 1994

To calculate sample quantitation limit:
(CRQL * Dilution Factor) / ([100 - % moisture]/100)

CRQL	Compound	Sample Number:	MB-1054	B-tex MS	B-tex MSD					
		Dilution Factor:	1.0	1.0	1.0					
		Location:	Method Blank	Matrix Spike	Matrix Spike Dup					
	gamma-BHC (Lindane)			0.0040	0.0049					
	Heptachlor			0.0038	0.0049					
	Heptachlor Epoxide			0.0047	0.0056					
	Endrin			0.010	0.012					
	Chlordane									
	Methoxychlor			0.047	0.054					
	Toxaphene									

CRQL = Contract Required Quantitation Limit.

APPENDIX E

PA SCORE

OMB Approval Number: 2050-0095
Approved for Use Through: 4/95

PA-Score

PA Scoresheets

Site Name: WALMORE ROAD-JOHNSON PROPERTY
CERCLIS ID No.: NYD000514463
Street Address: 6373 & 6381 WALMORE ROAD
City/State/Zip: WHEATFIELD, NY 14305

Investigator: MR. CHAD EICH
Agency/Organization: E&E ENGINEERING, P.C.
Street Address: 368 PLEASANTVIEW DR.
City/State: LANCASTER, NY

Date: 11/30/93

WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations:

1 landfill	Landfill	Ref: 1	WQ value	maximum
Area	8.00E-01 acres		1.03E+01	1.03E+01

The site consists of a 2-acre parcel of which approximately 0.8 acres has been filled. Subsurface borings drilled during the PSA invesatigation indicate fill depths between approximately 4.5 and 8 feet.
Ref: 8

** Only First WC Page Is Printed **	Waste Characteristics Score: WC = 18

Ground Water Pathway Criteria List
Suspected Release

Are sources poorly contained? (y/n/u)	Y
Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	U
Is precipitation heavy? (y/n/u)	N
Is the infiltration rate high? (y/n/u)	Y
Is the site located in an area of karst terrain? (y/n)	N
Is the subsurface highly permeable or conductive? (y/n/u)	N
Is drinking water drawn from a shallow aquifer? (y/n/u)	Y
Are suspected contaminants highly mobile in ground water? (y/n/u)	N
Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u)	Y

Other criteria? (y/n) N

SUSPECTED RELEASE? (y/n) Y

Summarize the rationale for Suspected Release:

AN UNKNOWN QUANTITY OF MATERIAL WAS LANDFILLED AT THE SITE INCLUDING, FLYASH, GRAPHITE, SOIL, ETC. THIS MATERIAL WAS FOUND TO CONTAIN MODERATE LEVELS OF PESTICIDES AND PAH'S AND LOW LEVELS OF PCB'S ANDORGANIC SOLVENTS. BOREHOLES INSTALLED AT THE SITE ENCOUNTERED FILL MATERIAL (SLAG, GRAPHITE ETC.) TO A MAXIMUM DEPTH OF APPROXIMATELY 8 FEET. GROUNDWATER DEPTH IN THE AREA IS REPORTEDLY 6 FEET. GROWNDWATER WAS ENCOUNTERED AT A DEPTH OF APPROXIMATELY 5.0 FEET IN ONE OF THE ON-SITE BORINGS.

Ref: 1,6,8

Ground Water Pathway Criteria List
Primary Targets

Is any drinking water well nearby? (y/n/u)	N
Has any nearby drinking water well been closed? (y/n/u)	U
Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)	N
Does any nearby well have a large drawdown/high production rate? (y/n/u)	U
Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? (y/n/u)	N
Does analytical or circumstantial evidence suggest contamination at a drinking water well? (y/n/u)	N
Does any drinking water well warrant sampling? (y/n/u)	N
Other criteria? (y/n)	N
PRIMARY TARGET(S) IDENTIFIED? (y/n)	N

Summarize the rationale for Primary Targets:

DRINKING WATER WELLS ARE LOCATED APPROXIMATELY 3-MILES NORTH OF THE SITE ON THE TUSCARORA INDIAN RESERVATION. SPECIFIC INFORMATION SUCH AS WELL CONSTRUCTION, DEPTH,SCREENED INTERVAL, NUMBER OF WELLS, AND POPULATION SERVED ARE NOT KNOWN. GROUNDWATER TARGET POPULATIONS WERE OBTAINED BY COUNTING HOUSES ON THE USGS TOPOGRAPHIC MAP AND MULTIPLYING BY 3.8. IT IS NOT KNOWN IF THE WELLS HAVE BEEN SAMPLED. THE TUSCARORA'S WELLS WILL BE CONSIDERED SECONDARY TARGETS. THERE IS NO DOCUMENTATION OF COMPLAINTS OR DRINKING WATER CONTAMINATION RELATED TO THE SITE.

Ref: 1,2,6

GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do you suspect a release? (y/n)	Yes	[illegible]
Is the site located in karst terrain? (y/n)	No	2
Depth to aquifer (feet):	5	8
Distance to the nearest drinking water well (feet):	16000	1

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	550	[illegible]	[illegible]
2. NO SUSPECTED RELEASE	[illegible]	0	
LR =	550	0	

Targets

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0	[illegible]	[illegible]
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N	7	0	
5. NEAREST WELL	5	0	[illegible]
6. WELLHEAD PROTECTION AREA None within 4 Miles	0	0	
7. RESOURCES	5	0	[illegible]
T =	17	0	

WASTE CHARACTERISTICS

WC =	18	0

GROUND WATER PATHWAY SCORE: 2

Ground Water Target Populations

Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
None				

*** Note : Maximum of 5 Wells Are Printed *** Total

Secondary Target Population Distance Categories	Population Served	Reference	Value
0 to 1/4 mile	0	1	0
Greater than 1/4 to 1/2 mile	0	1	0
Greater than 1/2 to 1 mile	0	1	0
Greater than 1 to 2 miles	15	2	1
Greater than 2 to 3 miles	125	2	2
Greater than 3 to 4 miles	570	2	4
		Total	7

Apportionment Documentation for a Blended System

IT IS NOT KNOWN IF WATER FROM THE TUSCARORA INDIAN'S WELLS IS BLENDED TOGETHER PRIOR TO DISTRIBUTION OR IF INDIVIDUAL RESIDENCES HAVE THEIR OWN WELLS.

Ref: 1

Surface Water Pathway Criteria List Suspected Release	
Is surface water nearby? (y/n/u)	Y
Is waste quantity particularly large? (y/n/u)	N
Is the drainage area large? (y/n/u)	Y
Is rainfall heavy? (y/n/u)	N
Is the infiltration rate low? (y/n/u)	N
Are sources poorly contained or prone to runoff or flooding? (y/n/u)	Y
Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u)	Y
Is vegetation stressed along the probable runoff path? (y/n/u)	N
Are sediments or water unnaturally discolored? (y/n/u)	N
Is wildlife unnaturally absent? (y/n/u)	N
Has deposition of waste into surface water been observed? (y/n/u)	N
Is ground water discharge to surface water likely? (y/n/u)	Y
Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u)	N
Other criteria? (y/n)	N
SUSPECTED RELEASE? (y/n)	N

Summarize the rationale for Suspected Release:

ANALYTICAL RESULTS FOR SURFACE WATER AND SEDIMENT SAMPLES COLLECTED FROM CAYUGA CREEK ADJACENT TO THE SITE DO NOT INDICATE SIGNIFICANT RE LEASES FROM OF THE SITE OF ORGANIC OR INORGANIC ANALYTES.

Ref: 6

Surface Water Pathway Criteria List
Primary Targets

Is any target nearby? (y/n/u) If yes: Y
N Drinking water intake
Y Fishery
Y Sensitive environment

Has any intake, fishery, or recreational area been closed? (y/n/u) N

Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target? (y/n/u) N

Does any target warrant sampling? (y/n/u) If yes: N
N Drinking water intake
N Fishery
N Sensitive environment

Other criteria? (y/n) N

PRIMARY INTAKE(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Intakes:

THERE ARE NO DRINKING WATER INTAKES WITHIN THE TARGET DISTANCE LIMIT OF 15 MILES DOWNSTREAM WHICH ARE SUSPECTED OF BEING CONTAMINATED FROM THE SITE.

Ref: 1,6
continued --------

continued -------

Other criteria? (y/n) N

PRIMARY FISHERY(IES) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Fisheries:

NO FISHERIES ARE SUSPECTED TO BE IMPACTED BY THE SITE.

Ref: 1,6

Other criteria? (y/n) N

PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Sensitive Environments:

THERE ARE NO SENSITIVE ENVIRONMENTS WHICH ARE SUSPECTED TO BE IMPACTED BY THE SITE.

Ref: 1,6

SURFACE WATER PATHWAY SCORESHEETS

Pathway Characteristics		Ref.
Do you suspect a release? (y/n)	No	
Distance to surface water (feet):	0	1,2
Flood frequency (years):	100	3
What is the downstream distance (miles) to:		
a. the nearest drinking water intake?	6.0	2
b. the nearest fishery?	4.0	2
c. the nearest sensitive environment?	0.0	4

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

Drinking Water Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake.			
4. PRIMARY TARGET POPULATION 0 person(s)	0		
5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): N	0	1	
6. NEAREST INTAKE	0	0	
7. RESOURCES	0	5	
T =	0	6	

Drinking Water Threat Target Populations

Intake Name	Primary (y/n)	Water Body Type/Flow	Population Served	Ref.	Value
1 NIAGRA R. INTAK	N	>10000 cfs	62000	7	0

Total Primary Target Population Value 0
Total Secondary Target Population Value 0

*** Note : Maximum of 6 Intakes Are Printed ***

Apportionment Documentation for a Blended System

Human Food Chain Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow for each fishery within the target limit.			
9. PRIMARY FISHERIES	0		
10. SECONDARY FISHERIES	0	12	
T =	0	12	

Human Food Chain Threat Targets

Fishery Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 CAYUGA CREEK	N	>100-1000 cfs	1,2	12
2 NIAGRA RIVER	N	>10000 cfs	1,2	12

Total Primary Fisheries Value 0
Total Secondary Fisheries Value 0

*** Note : Maximum of 6 Fisheries Are Printed ***

Environmental Threat Targets

TARGETS	Suspected Release	No Suspected Release	References
11. Determine the water body type and flow (if applicable) for each sensitive environment.			
12. PRIMARY SENSITIVE ENVIRONMENTS	0		
13. SECONDARY SENSITIVE ENVIRONS.	0	75	
T =	0	75	

Environmental Threat Targets

Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 WETLAND	N	<10 cfs		75

Total Primary Sensitive Environments Value 0
Total Secondary Sensitive Environments Value 0

*** Note: Maximum of 6 Sensitive Environments Are Printed ***

Surface Water Pathway Threat Scores

Threat	Likelihood of Release(LR) Score	Targets(T) Score	Pathway Waste Characteristics (WC) Score	Threat Score LR x T x WC / 82,500
Drinking Water	500	6	18	1
Human Food Chain	500	12	18	1
Environmental	500	75	18	8

SURFACE WATER PATHWAY SCORE: 10

Soil Exposure Pathway Criteria List
Resident Population

Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u)	Y
Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u)	Y
Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u)	Y
Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? (y/n/u)	N
Does any neighboring property warrant sampling? (y/n/u)	N

Other criteria? (y/n) N

RESIDENT POPULATION IDENTIFIED? (y/n) Y

Summarize the rationale for Resident Population:

TWO PRIVATE RESIDENCES EXIST ADJACENT TO THE LANDFILLED AREA. AERIAL PHOTOS FROM 1968 SHOW A DISTURBED AREA WHICH COVERS THE FRONT LAWNS OF BOTH HOMES. THE GOEPHYSICAL INVESTIGATION CONDUCTED DURING THIS PHASE OF THE PSA SHOWED FILL UNDER THE FRONT YARDS OF 6373 AND 6381 WALMORE ROAD. IF FUTURE EXCAVATION SHOULD OCCUR AT THE SITE, POTENTIALLY CONTAMINATED FILL MAY BE EXPOSED.

Ref: 1,2,5,9

SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics		Ref.
Do any people live on or within 200 ft of areas of suspected contamination? (y/n)	Yes	5
Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n)	No	5
Is the facility active? (y/n):	No	5

LIKELIHOOD OF EXPOSURE	Suspected Contamination	References
1. SUSPECTED CONTAMINATION LE =	550	

Targets

2. RESIDENT POPULATION 10 resident(s) 0 school/daycare student(s)	100	1
3. RESIDENT INDIVIDUAL	50	
4. WORKERS None	0	5
5. TERRES. SENSITIVE ENVIRONMENTS	0	
6. RESOURCES	5	
T =	155	

WASTE CHARACTERISTICS WC = 18

RESIDENT POPULATION THREAT SCORE: 19

NEARBY POPULATION THREAT SCORE: 1

Population Within 1 Mile: 1 - 10,000

SOIL EXPOSURE PATHWAY SCORE: 20

Soil Exposure Pathway Terrestrial Sensitive Environments

Terrestrial Sensitive Environment Name	Reference	Value
None		
Total Terrestrial Sensitive Environments Value		

*** Note : Maximum of 7 Sensitive Environments Are Printed ***

Air Pathway Criteria List
Suspected Release

Are odors currently reported? (y/n/u)	N
Has release of a hazardous substance to the air been directly observed? (y/n/u)	N
Are there reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air? (y/n/u)	N
Does analytical/circumstantial evidence suggest release to air? (y/n/u)	N
Other criteria? (y/n) N	
SUSPECTED RELEASE? (y/n)	N

Summarize the rationale for Suspected Release:

PA-Score 2.1 Scoresheets
WALMORE ROAD-JOHNSON PROPERTY - 08/15/94

AIR PATHWAY SCORESHEETS

Pathway Characteristics

		Ref.
Do you suspect a release? (y/n)	No	
Distance to the nearest individual (feet):	0	1

LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
1. SUSPECTED RELEASE	0		
2. NO SUSPECTED RELEASE		500	
LR =	0	500	

Targets.

TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION	0	11	
5. NEAREST INDIVIDUAL	0	20	
6. PRIMARY SENSITIVE ENVIRONS.	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	0	
8. RESOURCES	0	5	
T =	0	36	

WASTE CHARACTERISTICS

WC =	0	18

AIR PATHWAY SCORE:	4

Air Pathway Secondary Target Populations

Distance Categories	Population	References	Value
Onsite	10	5	1
Greater than 0 to 1/4 mile	0		0
Greater than 1/4 to 1/2 mile	0		0
Greater than 1/2 to 1 mile	413	1	1
Greater than 1 to 2 miles	4659	1	3
Greater than 2 to 3 miles	16512	1	4
Greater than 3 to 4 miles	25000		2
		Total Secondary Population Value	11

Air Pathway Primary Sensitive Environments

Sensitive Environment Name	Reference	Value
None		

Total Primary Sensitive Environments Value

*** Note : Maximum of 7 Sensitive Environments Are Printed***

Air Pathway Secondary Sensitive Environments

Sensitive Environment Name	Distance	Reference	Value
None			

Total Secondary Sensitive Environments Value

SITE SCORE CALCULATION	SCORE
GROUND WATER PATHWAY SCORE:	2
SURFACE WATER PATHWAY SCORE:	10
SOIL EXPOSURE PATHWAY SCORE:	20
AIR PATHWAY SCORE:	4
SITE SCORE:	11

SUMMARY

1. Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? No

   If yes, identify the well(s).

   If yes, how many people are served by the threatened well(s)? 0

2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?
   A. Drinking water intake — No
   B. Fishery — No
   C. Sensitive environment (wetland, critical habitat, others) — No

   If yes, identity the target(s).

3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? Yes

   If yes, identify the properties and estimate the associated population(s)
   TWO RESIDENCES EXIST ADJACENT TO THE SITE, NO SCHOOLS OR DAYCARE FACILITIES. ASSOCIATED POPULATION IS 10 PEOPLE

4. Are there public health concerns at this site that are not addressed by PA scoring considerations? No

   If yes, explain:

REFERENCE LIST

1. ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK, PRELIMINARY SITE ASSESSMENT TASK 1, WALMORE ROAD-JOHNSON PROPERTY SITE, SITE NUMBER 932101

2. UNITED STATES GEOLOGICAL SURVEY, 1980, 7.5 MINUTE SERIES TOPOGRAPHIC MAP, TONAWANDA WEST QUADRANGLE.

3. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO.360513 0001 B, JULY 16, 1981

4. GAIL SPANN, OCTOBER 18, 1993, NEW YORK STATE DEPARTMENT OF ENVIRONMENT AL CONSERVATION, DIVISION OF FISH AND WILDLIFE,

5. ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.,JUNE 1993, SITE INSPECTION WALMORE ROAD-JOHNSON PROPERTY SITE

6. SAMPLE RESULTS FOR SURFACE SOIL, SUBSURFACE SOIL, SURFACE WATER AND SEDIMENT SAMPLES COLLECTED FROM THE WALMORE ROAD-JOHNSON PROPERTY SITE , JUNE 23, 1993 AND SEPTEMBER, 1993.

7. COLEMAN, JOHN, NIAGRA COUNTY WATER AUTHORITY, PERSONAL COMMUNICATION WITH CHAD EICH, ECOLOGY AND ENVIRONMENT, INC.

8. ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.,1993, SUBSURFACE BORING LOGS FOR WALMORE ROAD PSA SITE.

9. ECOLOGY AND ENVIRONMENT ENGINEERING, P.C., 1993, GOEPHYSICAL INVESTIGATION OF THE WALMORE ROAD-JOHNSON PROPERTY SITE.

OMB Approval Number: 2050-0095
Approved for Use Through: 4/95

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NY	CERCLIS Number: NYD000514463
	CERCLIS Discovery Date:	

1. General Site Information

Name:		Street Address:			
WALMORE ROAD-JOHNSON PROPERTY		6373 & 6381 WALMORE ROAD			
City:	State:	Zip Code:	County:	Co. Code:	Cong. Dist:
WHEATFIELD	NY	14305	NIAGARA	063	
Latitude: Longitude:		Approx. Area of Site:		Status of Site:	
43° 6' 58.0" 78° 55' 25.0"		2 acres		Inactive	

2. Owner/Operator Information

Owner:			Operator:		
MR. KURT LARSON			MR. T. DEAN JOHNSON		
Street Address:			Street Address:		
6374 WARD DR.			4169 PURDY RD.		
City:			City:		
SANBOURN			LOCKPORT		
State:	Zip Code:	Telephone:	State:	Zip Code:	Telephone:
NY	14132	716/731-3589	NY	14094	716/439-0011
Type of Ownership:			How Initially Identified:		
Private			Citizen Complaint		

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NY	CERCLIS Number: NYD000514463
	CERCLIS Discovery Date:	

3. Site Evaluator Information

Name of Evaluator: MR. CHAD EICH	Agency/Organization: E&E ENGINEERING, P.C.	Date Prepared: 11/30/93
Street Address: 368 PLEASANTVIEW DR.	City: LANCASTER	State: NY
Name of EPA or State Agency Contact: ABUL BARKAT OR JAMES TUCK	Telephone:	
Street Address: 270 MICHIGAN AVE	City: BUFFALO	State: NY

4. Site Disposition (for EPA use only)

Emergency Response/Removal Assessment Recommendation: No Date:	CERCLIS Recommendation: Other Date:	Signature: Name: Position:

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NY	CERCLIS Number: NYD000514463
	CERCLIS Discovery Date:	

5. General Site Characteristics

Predominant Land Uses Within 1 Mile of Site:	Site Setting:	Years of Operation:
Commercial Residential Agricultural	Rural	Beginning Year: 0 Ending Year: 0 X Unknown

Type of Site Operations:	Waste Generated:
Other Landfill	Offsite
	Waste Deposition Authorized By: Former Owner
	Waste Accessible to the Public: Yes
	Distance to Nearest Dwelling, School, or Workplace: 0 Feet

6. Waste Characteristics Information

Source Type	Quantity	Tier
Landfill	8.00e-01 acres	A

Tier Legend
C = Constituent W = Wastestream
V = Volume A = Area

General Types of Waste:
Metals
Organics
Solvents
Construction/Demolition Waste
Acids/Bases
Other:
PCB WASTE, HARDENED RESINS, FLY ASH, GRAPHITE.

Physical State of Waste as Deposited
Solid
Liquid

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NY	CERCLIS Number: NYD000514463
	CERCLIS Discovery Date:	

7. Ground Water Pathway

Is Ground Water Used for Drinking Water Within 4 Miles: No	Is There a Suspected Release to Ground Water: Yes	List Secondary Target Population Served by Ground Water Withdrawn From:
Type of Ground Water Wells Within 4 Miles: Private	Have Primary Target Drinking Water Wells Been Identified: No	0 - 1/4 Mile 0 >1/4 - 1/2 Mile 0 >1/2 - 1 Mile 0 >1 - 2 Miles 15 >2 - 3 Miles 125 >3 - 4 Miles 570 Total 710
Depth to Shallowest Aquifer: 5 Feet	Nearest Designated Wellhead Protection Area: None within 4 Miles	
Karst Terrain/Aquifer Present: No		

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NY	CERCLIS Number: NYD000514463
	CERCLIS Discovery Date:	

8. Surface Water Pathway — Part 1 of 4

Type of Surface Water Draining Site and 15 Miles Downstream:	Shortest Overland Distance From Any Source to Surface Water:
Stream River Lake	0 Feet 0.0 Miles
Is there a Suspected Release to Surface Water: No	Site is Located in: >10 yr - 100 yr floodplai

8. Surface Water Pathway — Part 2 of 4

Drinking Water Intakes Along the Surface Water Migration Path: Yes

Have Primary Target Drinking Water Intakes Been Identified: No

Secondary Target Drinking Water Intakes:

Name	Water Body/Flow(cfs)	Population Served
NIAGRA R. INTAKE	large river/ >10000	62000
	Total Within 15 Miles:	62000

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NY	CERCLIS Number: NYD000514463
	CERCLIS Discovery Date:	

8. Surface Water Pathway — Part 3 of 4

Fisheries Located Along the Surface Water Migration Path: Yes

Have Primary Target Fisheries Been Identified: No

Secondary Target Fisheries:

Fishery Name	Water Body Type/Flow(cfs)
CAYUGA CREEK	moderate-large stream/ >100-1000
NIAGRA RIVER	large river/ >10000

8. Surface Water Pathway — Part 4 of 4

Wetlands Located Along the Surface Water Migration Path? (y/n) Yes

Have Primary Target Wetlands Been Identified? (y/n) No

Secondary Target Wetlands:

Water Body/Flow(cfs)	Frontage(mi)
minimal stream/ <10	>2 to 3

Other Sensitive Environments Along the Surface Water Migration Path: No

Have Primary Target Sensitive Environments Been Identified: No

Secondary Target Sensitive Environments:
None

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM	IDENTIFICATION	
	State: NY	CERCLIS Number: NYD000514463
	CERCLIS Discovery Date:	

9. Soil Exposure Pathway

Are People Occupying Residences or Attending School or Daycare on or Within 200 Feet of Areas of Known or Suspected Contamination: Yes Total Resident Population: 10	Number of Workers Onsite: None

Have Terrestrial Sensitive Environments Been Identified on or Within 200 Feet of Areas of Known or Suspected Contamination: No

10. Air Pathway

Total Population on or Within:	
Onsite	10
0 - 1/4 Mile	0
>1/4 - 1/2 Mile	0
>1/2 - 1 Mile	413
>1 - 2 Miles	4659
>2 - 3 Miles	16512
>3 - 4 Miles	25000
Total	46594

Is There a Suspected Release to Air: No

Wetlands Located Within 1/2 Miles of the Site: No

Other Sensitive Environments Located Within 4 Miles of the Site: No

Sensitive Environments Within 1/2 Mile of the Site:
None

APPENDIX F

COPIES OF PERTINENT RECORDS

Bell Aerospace Textron
Division of Textron Inc.

Post Office Box One
Buffalo, New York 14240-0001
716/297-1000

29 July 1988

Jon Sundquist
Ecology and Environment, Inc.
Buffalo Corporate Center
368 Pleasantview Drive
Lancaster, NY 14086

Dear Mr. Sundquist:

I am writing in response to your May 20, 1988 letter to Brian Smith.

While we would like to provide assistance we are unable to do so at this time. We have no record of involvement at this site. Our manifest system started in 1981, after the period in question.

Sincerely,

Carl G. Buzawa
Vice President - Division Counsel

cla

INTERVIEW ACKNOWLEDGMENT FORM

SITE NAME: Walmore Road-Johnson Property Site

PERSON CONTACTED: Mark Haseley

AFFILIATION: Haseley Trucking Company

ADDRESS: 10315 Lockport Road, Wheatfield, New York

TYPE OF CONTACT: Telephone interview

I.D. NUMBER: 932101

DATE: May 15, 1991

PHONE NUMBER: (716) 297-1550

CONTACT PERSON(S): S. Glinski

INTERVIEW SUMMARY:

5/15/91 - Mark Haseley Trucking Company manager could not recall the contents of his company's fill transported to the Johnson property. He will conduct file search to find documentation, if any. He remembers many haulers bringing clean fill to the site.

5/17/91 - Mr. Haseley's file search has turned up no record of what was hauled to the Johnson property for the time period in question.

ACKNOWLEDGMENT

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to Ecology and Environment, Inc. interviewer(s) (as revised below, if necessary).
Revisions: (please write in any corrections needed to the above transcript)

Signature _____ Date _____

ecology and environment, inc.
BUFFALO CORPORATE CENTER
368 PLEASANTVIEW DRIVE, LANCASTER, NEW YORK 14086, TEL. 716/684-8060
International Specialists in the Environment

May 9, 1988

Woody Herman
Town of Wheatfield Water District
3113 Niagara Falls Boulevard
North Tonawanda, NY 14120

Dear Mr. Herman:

Thank you for providing the information concerning the water distribution system along Walmore Road in the Town of Wheatfield. Ecology and Environment is currently investigating the fill at 6373 Walmore Road for the New York State Department of Environmental Conservation (DEC). For the purpose of our contract with the DEC, we must have written confirmation of the information you provided to me over the telephone on May 6, 1988. I have listed the points we discussed on Attachment 1. If these statements on the attachment are correct to the best of your knowledge, please acknowledge this and return it to us. If you can recall anything else about the fill at this site, such as its extent, color, odor and whether the entire length or just portions of the copper distribution line was corroded, we would like to learn of this information.

Sincerely yours,

Jon Sundquist

JS:bf-06
Attachment

Attachment I

- The material of construction of the water main along Walmore Road in the Town of Wheatfield is Asbestos Concrete.
- Distribution lines to residences along the road are usually constructed of copper.
- The copper distribution line to 6373 Walmore Road corroded and had to be replaced with PVC.
- The cause of the corrosion apparently was the fill in which it was buried, as no other customers along Walmore Road have had such problems.
- The fill had the appearance of cinders.

This information is correct to best of my knowledge.

Signature

Date

Code Activity ..... Sheet 1 of 1

Code Location .....

Service Request No. .....

Date Received Complaint 11/13/84

NIAGARA COUNTY
DEPARTMENT OF HEALTH

Service Request Well Water Supply / Landfill Concerns

Originator of Complaint Dean Johnson Address 6373 Wolcott Rd. — Tn. Wheatfield

Owner ..... Address 731-3888

Occupant ..... Address .....

Date	Hours	REPORT OF INVESTIGATION
11/13/84		Writer received call from Mr. Dean Johnson who resides at above address across from the Airbase entrance. Mr. Johnson is aware of the current investigation being conducted on the base regarding a former landfill site. Mr. Johnson has a ~~[illegible]~~ on his property next to ~~[illegible]~~ of Ely ash. He has a well on site that used to supply drinking water, but is now only used for watering and outside purposes. Mr. Johnson is concerned about the airbase landfill, his property and well water supply. Told him we would set appointment and examine property and that problem.
		Phone 731-3888 Thur Am to set appointment.
1/15/84	2pm	I met with Mr Johnson He informed me that:
		1) Portions of his property are filled with industrial waste materials including graphite, hardened resins, plastic battery cases, ect.
		2) The filled areas are up to 5 feet deep.
		3) He believes that the area was filled by Haseley Trucking.
		4) There is a well on the property used for irrigation, washing cars, ect but not for drinking

Date Abated F-8 ..... By .....

NIAGARA COUNTY HEALTH DEPARTMENT

MEMORANDUM

DATE: December 6, 1984

TO: Peter Buechi

FROM: Mike Hopkins M. Hopkins

SUBJECT: JOHNSON PROPERTY - 6373 WALMORE ROAD, WHEATFIELD, NY

In response to a complaint received from Mr. Dean Johnson of 6373 Walmore Rd., this department has begun an investigation of an apparent inactive disposal site at that address. According to Mr. Johnson, the site was filled with graphite hardened resin, crushed plastic battery cases and similar materials by the Hasely Trucking Company many years ago. The fill is reportedly five feet deep in some areas. An area of one to three acres may be involved. A site sketch is attached.

It seems likely that this site may be the site listed in the Disposal Site Registry as the"Walmore Road Site" which was previously believed to be located 1000 to 1200 feet north of 6373 Walmore Road. It appears likely that two distinct sites are present. The description of the waste materials present at both locations is similar (i.e., mainly graphite).

There is a well on the Johnson property which is used to water fruit trees, etc., but not for drinking water. It would be possible to sample water from this well.

Since it appears that there is evidence that waste materials are present beneath or adjacent to an occupied dwelling, this department recommends that samples be collected and analyzed. This department could collect the samples but does not currently have the resources to have the samples analyzed. We are therefore requesting that your department consider having one or more samples from this site analyzed. At a minimum, we feel that analysis of a well water sample for THO and heavy metals would be appropriate.

If DEC can arrange for analysis of samples from this site, please contact me so that arrangements for sampling can be made.

MEH:cs
Attachment

cc: Mr. M. N. Vaughan
Mr. A. Tyebbi/DEC-9

Code Activity .....

Code Location .....

Service Request No. .....

Date Received Complaint .....

NIAGARA COUNTY
DEPARTMENT OF HEALTH

Service Request Collect Well Samples

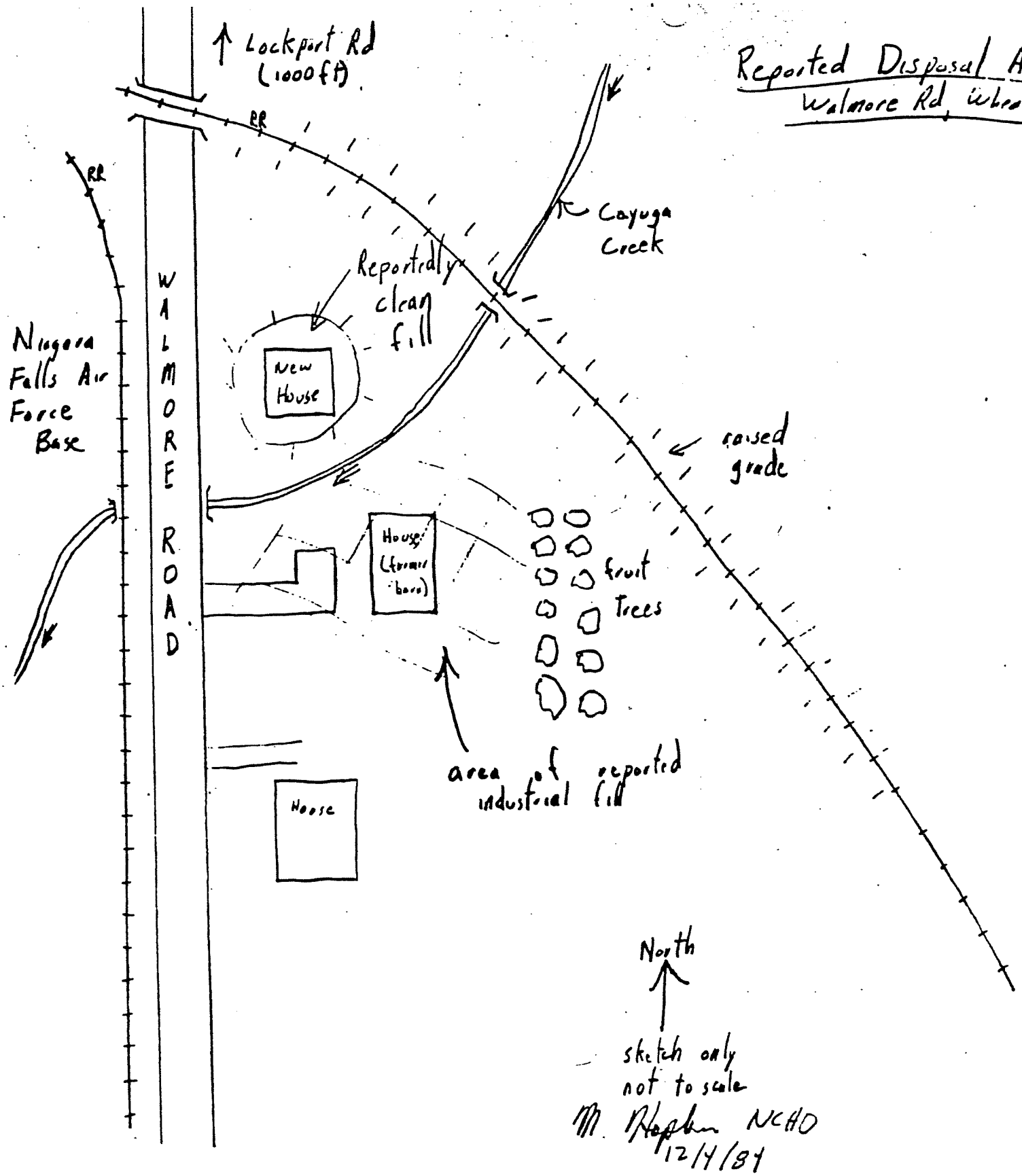
Originator of Complaint Dean Johnson Address 6373 Wolmore Rd Wheatfield

Owner " " Address " " "

Occupant " " Address "

Date	Hours	REPORT OF INVESTIGATION
7/14/04	@ 10:30 AM	I collected samples from the above ~~yard~~ property. One 1-liter Glass jar and 1-2 liter plastic jug were filled No odor or color were noted in the well
		The well is a dug well 13' deep water depth is estimated to have been about 6'
		Several pieces of slag ect were observed in the yard at this time.
		Will Kaplan

Date Abated..... By.....



NIAGARA COUNTY

HEALTH DEPARTMENT
HUMAN RESOURCES BUILDING
MAIN POST OFFICE BOX 428
10th AND EAST FALLS STREET
NIAGARA FALLS, NEW YORK 14302

February 15, 1985

Mr. Dean Johnson
6373 Walmore Road
Niagara Falls, NY 14304

Dear Mr. Johnson:

Attached is a copy of the laboratory report submitted to this department from the Department of Environmental Conservation with the results of the analysis of water from your well. Please note that the Total Halogenated Organics (THO) concentration as well as the concentrations of Lead, Chromium and Cadmium were below detection limits.

Based on these results and considering that the well is not used for drinking water supply, this department sees no reason for concern regarding possible toxic contaminants in the well water. The water should be suitable for its present uses, which I understand to be as irrigation and washwater.

Please feel free to contact me with any questions.

Sincerely,

Michael E. Hopkins
Ass't. P.H. Engineer

MEH:cs
Attachment

cc: Mr. P. Buechi/DEC-9
Mr. J. J. Devald

Mr. Peter Bucchi
Dr. Frances Yang F.Y.
Analytical Result of a Groundwater Sample from Town of Wheatfield

February 11, 1985

A water sample (DEC-91) was submitted for THO and metals analysis on January 7, 1985, The sample was taken from Johnson residence, 6373 Walmore Road, by Niagara County Health Department.

Result:

Sample Designation	THO	Lead	Chromium	Cadmium
DEC-91	n.d.	n.d.	n.d.	n.d.

FY:jlw

cc: Mr. Mike Hopkins - NCHD

ecology and environment, inc.

195 SUGG ROAD, P.O. BOX D, BUFFALO, NEW YORK 14225, TEL. 716-632-4491, TELEX 91-9183

International Specialists in the Environment

July 6, 1987

Mrs. Debbie Johnson
2 Cranston Street
Worcester, MA 01602

Dear Mrs. Johnson:

Thank you for calling last Friday, June 26, 1987 to provide information to Ecology and Environment, Inc. (E & E) concerning the Johnson property on Walmore Road in the Town of Wheatfield. To restate our role, E & E is working under a contract from the New York State Department of Environmental Conservation (DEC) to investigate suspected waste disposal sites in western New York. The Johnson property (specifically 6373 Walmore Road) is on the registry of such sites at the request of the owner, Mr. Dean Johnson, who suspected that industrial wastes may have been used as fill during the development of the property. For future reference, the DEC site code for this property is 932094. Any questions about the site or this investigation should be referred directly to the DEC.

With this letter, we would like to confirm the information you provided us over the telephone. This information is listed in Attachment 1. To provide sufficient documentation of this information, the DEC requires that we ask you to sign this document, acknowledging that the information (with any changes you may note) is correct to the best of your knowlege.

Thank you for your assistance in this investigation.

Sincerely,

Jon Sundquist

Jon Sundquist

Attachment 1

Dean Johnson owns the property at 6373 Walmore Road (converted barn) and 6367 Walmore Rd. (Ranch-style house)

JAMES & DEBRA ~~Debbie~~ Johnson owns the property at 6381 Walmore Rd. (2 story farm house)

Debbie Johnson is Dean Johnson's sister-in-law

Debbie Johnson's father-in-law owns the property ~~between~~ ON THE SOUTH SIDE OF 6381 ~~the railroad embankment and~~ Walmore Road

- This land is leased to a farmer named Pfoul
- This farmer has farmed the land since at least 1979

The barn at 6373 Walmore Road was converted to a residence in ~~1980~~ APPROX. 1979 & 1980.

- Water line and septic tank installed at that time
- Water line runs from the road to the barn, parallel to the driveway on its north side

The water line had completely corroded and was leaking by 1984

- Water line was replaced with POSSIBLE PVC piping
- Replacement work performed by Mr. Pete seeger, a licensed plumber *
- OUTSIDE- Plumbing at both 6367 and 6381 Walmore Road is in accordance with Town water regulations

* ORIGINAL INSIDE PLUMBING DONE BY P. SEEGER, NOT SURE ON REPLACEMENT WORK OR OUTSIDE PLUMBING.

A military agency has tested the water in the well on the property AT 6381 WALMORE RD.

- Analytical results were sent to Debbie Johnson
- Military agency indicated they were testing because of a leaking fuel tank and possible buried transformers on the air force base across Walmore Road from the property

Debra J. Johnson
Signature

7/22/87
Date

MILITARY ANALYTICAL RESULTS ENCLOSED.

ADVANCED ENVIRONMENTAL SYSTEMS, INC.

MONITORING and SUPPORT LABORATORY

Location:
4626 Royal Avenue
Niagara Falls, New York

P.O. Box 165
Niagara Falls, N.Y. 14304
(716) 285-8883

February 28, 1985

COPY

236-2043

Mr. Dermont Smyth
Engineering Office
914 TAC ALFT GP (AFRES)
Niagara Falls Intl Aprt
Niagara Falls, New York 14304-5320

Dear Mr. Smyth:

The oil and grease calculation I quoted to you over the telephone was in error. When I recalculated, I found the oil and grease to be virtually none. The flask used had actually lost weight, not gained, and I miscalculated it as a positive number.

My sincere apologies for this error.

Very truly yours,

ADVANCED ENVIRONMENTAL SYSTEMS, INC.

Marlene C. Moyer

MCM/mb

This explains why we did not receive the report til now. Please go thru me if you have questions of the lab. Dermott Smyth 236-2043.

ANALYSIS OF ONE

WELL OR SAMPLE

COPY

Report Prepared For

NIAGARA FALLS TACTICAL AIRLIFT GROUP

by

ADVANCED ENVIRONMENTAL SYSTEMS, INC.

W. Joseph McDougall

W. Joseph McDougall, Ph.D.
Technical Evaluation

February 1, 1985

AES - Report APH

P.O. No.

F30617-85-M-0234

COPY

SCOPE OF WORK

Under the direction of Mr. Smyth, this work was performed to fulfill an analytical requirement for the Niagara Falls Tactical Airlift Group Facility.

RECEIPT OF SAMPLE

At 1:15 p.m., on January 7, 1985, Mr. Charles Calvert of Advanced Environmental Systems, Inc. sampled the groundwater well at the TAG Facility. Mr. Calvert then directly transported the sample to the Advanced Environmental Systems laboratory.

ADVANCED ENVIRONMENTAL SYSTEMS, INC.
LABORATORY REPORT

COPY

TYPE OF ANALYSIS: RESULTS - WET CHEMISTRY
UNITS OF MEASURE: MILLIGRAMS/LITER, OR PPM
CLIENT: NIA AIR BASE A.E.S. JOB CODE 01APH

ANALYSIS	METHOD	REF	DETERMINABLE LIMITS	1/7/85 WELL WATER
TDS	160.1	3	1	324
OIL & GREASE	503A	6	1	BDL
TOC	415.1	3	0.1	7.22
POX*	9020	5	5 PPB	BDL
TOX*	9020	5	5 PPB	29.2
PHENOLS	420.1	3	0.01	BDL

TDS - Total Dissolved Solids
TOC - Total Organic Carbon
POX - Purgible Organic Halides
TOX - Total Organic Halides.

*Results reported in micrograms/liter, or ppb

MARLENE C. MOYER
WET CHEMISTRY DIVISION

ADVANCED ENVIRONMENTAL SYSTEMS, INC.
LABORATORY REPORT

COPY

TYPE OF ANALYSIS: RESULTS - METALS
UNITS OF MEASURE: MILLIGRAMS/LITER, OR PPM
CLIENT: NIA AIR BASE A.E.S. JOB CODE 01APH

ANALYSIS	METHOD	REF	SAMPLE IDENTIFICATION	
			DETERMINABLE LIMITS	11 1/7/85 WELL WATER
LEAD	239.1	3	0.10	BDL

MICHAEL J. SIMPSON
METALS DIVISION

COPY

PATRICIA M. POWELL
Public Health Director
716-439-6129

NIAGARA COUNTY
HEALTH DEPARTMENT
5467 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK 14094

January 15, 1985

Mr. James Johnson
6381 Walmore Road
Niagara Falls, New York 14304

Re: Unsafe Private Water Supply
6381 Walmore Road
Town of Wheatfield

Dear Mr. Johnson:

On January 8, 1985, Mr. Stimson of this department made a sanitary survey of the well utilized as a source of private water supply for your residence at the above location. During this inspection, a sample of water was collected and submitted to the Niagara County Laboratory for bacterial examination. It is reported that organisms of the coliform group were present at the time of sampling, indicating that the supply was contaminated and unfit for human consumption at the time of sampling.

Inas much as the report of the survey indicates that this well is properly constructed and properly located with respect to known sources of pollution, it is quite possible that the contamination in this supply is of incidental origin. We would, therefore, suggest that this well be thoroughly disinfected in accordance with the enclosed instructions and this office notified so that a new sample may be taken. Until such time as a sanitary survey, confirmed by a bacterial analysis, indicates that this supply is of a safe sanitary quality, all water from it should be boiled before being used for human consumption, or culinary purposes.

Very truly yours,

Michael Popovici
Supervisory Public
Health Sanitarian

MP/cg
Enclosures

New York State Department of Environmental Conservation

MEMORANDUM

TO: Mr. Demick - Western Investigation Section
FROM: Mr. Tygert - Region 9 John J. Tygert
SUBJECT: Walmore Road Site (932094)
DATE: September 17, 1986

On September 17, 1986, Mr. Clare of Region 9 and Mr. Lupe of your Section discussed the problem with site identification of the Walmore Road site. It was agreed that the two sites should be separated in the Registry. We recommend the following division be made:

1. 932094 - Existing file for Walmore Road. Change name to Lockport Road Site.

2. _____ - Add new site identified by the Niagara County Health Department in 1982. Name this site Johnson Site - Walmore Road. - 6373 Walmore Rd

It is also recommended that the Johnson Site - Walmore Road be added to the next schedule of Phase I Investigations.

This recommendation was previously made to your Office in a memorandum (undated, unfortunately) written on March 6, 1986. Mr. Lupe advises that this request is not available in your file.

Your consideration of this recommendation will be appreciated.

We will prepare appropriate fact sheet as presented at Sept ESWE meeting

cc: Mr. Buechi
Mr. Clare
Mr. Olazagasti
Mr. Lupe
Mr. Hopkins ✓