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QUARTERLY REPORT #1

6/94

H&A OF NEW YORK

Geotechnical Engineers &

Environmenta

QUARTERLY PROGRESS REPORT NO. 1 APRIL TO JUNE, 1994 ENARC-O MACHINE PRODUCTS, INC. REMEDIAL INVESTIGATION/FEASIBILITY STUDY LIMA, NEW YORK NYSDEC CONSENT ORDER NO. B8-0112-91-04

by

H&A of New York Rochester, New York

for

Kaddis Manufacturing Corp. Rochester, New York

File No. 70372-048 June 1994





9 June 1994 File No. 70372-048

Geotechnical Engineers & **Environmental Consultants** 

Ronald Iannucci, Sr., President Kaddis Manufacturing Corporation P.O. Box 92985 1100 Beahan Road Rochester, New York 14692-9085

Subject:

Quarterly Progress Report No. 1

Enarc-O Machine Products, Inc. RI/FS

Dear Mr. Iannucci:

H&A has prepared the attached Quarterly Progress Report No. 1 for the Remedial Investigation/Feasibility Study (RI/FS) at the Enarc-O Machine Products site in Lima, New York. The report was prepared in accordance with requirements set forth by the New York State Department of Environmental Conservation in Order on Consent No. B8-0112-91-04 for the project.

The Progress Report provides a summary of work performed by H&A to date. H&A's work has been performed in accordance with the Work Plan for the project, dated 30 December 1993.

Briefly, field work performed to date on the site includes: 1) soil vapor and subsurface soil sampling 2) shield point installation; 3) test boring and monitoring well installation; 4) surface soil and septic tank sampling; and 5) monitoring of water levels in existing onsite monitoring wells and Honeoye Creek. Soil samples have been submitted for laboratory analysis.

Details on these tasks and preliminary results of laboratory analyses are included in the Progress Report.

If you have any questions regarding the information in this report, please do not hesitate to contact

Sincerely yours,

H&A OF NEW YORK

Robert J. Mahoney Senior Env. Geologist

Vice President

Director, Bur. Environ. Exposure Investigation, NYSDOH (2 copies)

Peter Bush, Region 8 Director, NYSDEC

Glen R. Bailey, Esq., NYSDEC Div. Env. Enforcement

William H. Helferich, III, Harter Secrest & Emery

C:

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2	Source Area Exploration Plan
3	Delineation Survey Exploration Plan
4	Off-Site Soil Sampling Location Plan



### I. INTRODUCTION

This report has been prepared to document recent project activities for the Remedial Investigation/Feasibility Study (RI/FS) being performed at the Enarc-O Machine Products, Inc. facility. The site is located in Lima, New York, as shown on Figure 1. This report is the first in a series of planned quarterly progress reports to be prepared in accordance with the NYSDEC Order on Consent No. B-0112-91-04 for the site.

The site is owned by Kaddis Manufacturing Corporation (Kaddis) of Rochester, New York. The RI/FS is being performed for Kaddis by H&A of New York (H&A) of Rochester, New York.

This report presents results of field and laboratory investigations during the period 17 March to 3 June 1994.



#### II. ACTIONS TAKEN

Field activities conducted during the reporting period consisted of the soil vapor survey (source area and delineation phases), monitoring well installations, stream staff gauge installation, off-site residential soil sampling and Enarc-O septic tank sampling.

#### Soil Vapor Survey

The source area soil vapor survey was conducted on 6 and 7 May 1994 and consisted of taking soil vapor samples at 10 locations (SV-101 through SV-110) in the vicinity of the former TCA storage tank (see Figure 2). Nine locations were sampled inside the Enarc-O building and only one sample was taken outside due to saturated soil conditions in the courtyard area. Soil samples were taken at four inside soil vapor locations and submitted to General Testing Corporation of Rochester, New York for analysis. Permanent soil vapor monitoring points were also installed at four inside locations.

The delineation soil vapor work was conducted on 10 and 11 May 1994 and consisted of taking soil vapor samples at 19 boring locations (SV-111 through SV-129) using Geoprobe equipment. See Figure 3. Each boring was taken to bedrock or the furthest depth possible. The probe holes were sampled for soil vapor at approximately 3-foot intervals.

The outdoor source area soil vapor samples were not obtained due to saturated soil conditions from perched groundwater in the shallow overburden. This condition was also observed at several of the delineation survey locations. As a result, H&A obtained several water samples during the survey. The samples were screened using headspace methods, on a Hewlett-Packard gas chromatograph at H&A's facility in Rochester, New York.

Volatile organic compound (VOC) concentrations were highest in soil vapor samples from the source area. TCE and 1,1,1-TCA were generally detected at levels higher than other VOCs. Concentrations in the delineation survey sample locations were generally "non-detect" or in the very low part per billion range. Review of the chromatograms is still in progress. Upon completion of the data review, a tabulation of the results will be forwarded to all parties receiving this report.

#### Monitoring Well Installations

Monitoring well installations consisted of installing one overburden well and one shallow bedrock well in the courtyard area near the former TCA storage tank and installing one shallow bedrock well just west of the storage building in the parking lot (Figure 2). Appendices B and C contain the test boring logs and well completion reports, respectively, for the three wells.

#### Stream and Groundwater Level Monitoring

The stream staff gauge was installed on the Honeoye Creek steambank to provide a fixed reference point from which to measure stream water levels. The staff gauge, which consists of 1-1/4-inch steel rod cemented into a one-foot bedrock socket, sticks up several feet above the ground surface. Stream water levels were measured daily during the well installations. Water levels in monitoring well MW-3 and the Enarc-O supply well were also measured during this time using data-



logger/transducer system. See Appendix D. Since the site re-survey has not been completed, the water levels provide a relative measure only, and cannot yet be used to determine actual surface water or groundwater elevations. Actual elevations will be calculated once the survey has been performed.

#### Offsite Surface Soil Sampling

Off-site residential soil sampling was conducted on 31 May 1994 and consisted of taking soil samples from shallow depths (approximately 0.5 ft.) at four off-site locations. The locations are shown in Figure 4. A sludge sample was also obtained from the Enarc-O septic tank located on-site. All samples were submitted to General Testing Corporation (GTC) for analysis.

Preliminary analytical results from the source area soil samples analyzed by GTC are contained in Appendix A. GTC had not completed the formal data report at the time of preparation of this progress report, thus data validation has not been performed.



### III. <u>DELIVERABLES</u>

No deliverables were required or submitted during this quarter.



#### IV. FUTURE ACTIVITIES

It is anticipated that all field work with the exception of quarterly sampling will be completed in the next quarter, including the following tasks:

- residential well survey
- completion of soil gas survey
- re-survey and base map preparation
- well sampling (on and off-site)
- hydrogeologic testing
- stream gauge data collection

Validation of most of the analytical data is also anticipated to be completed during the next quarter.

Upon completion of the field work and laboratory analyses, preparation of the RI report will begin. However based on the anticipated completion date of the field work and other tasks, completion of the RI report is expected to occur in the following quarter (4th quarter of calendar year 1994).

Upon completion of the laboratory analyses and data validation, the health and environmental risk assessments will be initiated, presumably during the next quarter (4th quarter calendar year 1994). However, we anticipate completion of these tasks will fall in the following quarter (4th quarter of calendar year 1994).



#### V. WORK SCHEDULE AND PERCENT COMPLETION

The following field activities have been completed: well installations, stream staff gauge installation, off-site residential soil sampling and the Enarc-O septic tank sampling. The source area soil vapor survey was not completed due to saturated soil conditions in the courtyard near the former TCA storage tank. All inside soil vapor locations were sampled and completed. H&A will complete the outside soil vapor work when dryer subsurface conditions permit.

Based on the work plan the first task of work to be completed was a residential well survey. A delay in responses to a residential well survey sent to area residents by NYSDEC has put this task off until the survey responses are received. However, H&A plans to send NYSDOH a preliminary list of well owners that have responded to date. This will allow NYSDOH to begin contacting the residents which will allow H&A to begin the well survey within 1 to 2 weeks. Future delays may include H&A's gaining access to these residential wells. Current data does not indicate whether a contractor may be required to remove well pumps, prepare the wells for sampling, clear access to the wells, etc. The possible extent of delays associated with this task cannot be estimated, until the wells are observed first-hand.



#### VI. WORK PLAN MODIFICATION

Modifications to the work plan consisted of a change in the installation of the stream staff gauge. H&A proposed that the staff gauge be installed on the bank of Honeoye Creek rather than in the stream bed, due to high water levels at the time field work commenced. This proposed change was described in a letter from H&A to NYSDEC dated 28 April 1994.

NYSDEC (Gardiner Cross) conditionally approved the installation change, but reserved the right to change the measurement technique if it was not satisfied with the results of the revised staff gauge configuration.



#### VII. <u>CITIZEN PARTICIPATION PLAN ACTIVITIES</u>

H&A attended a public meeting organized by NYSDEC to inform interested members of the public of the intended scope of the Enarc-O RI/FS project. The meeting was held at the Lima Town Hall on 17 March 1994. NYSDEC representatives presented information on the background of the project, as well as specific information on the tasks to be performed by H&A.

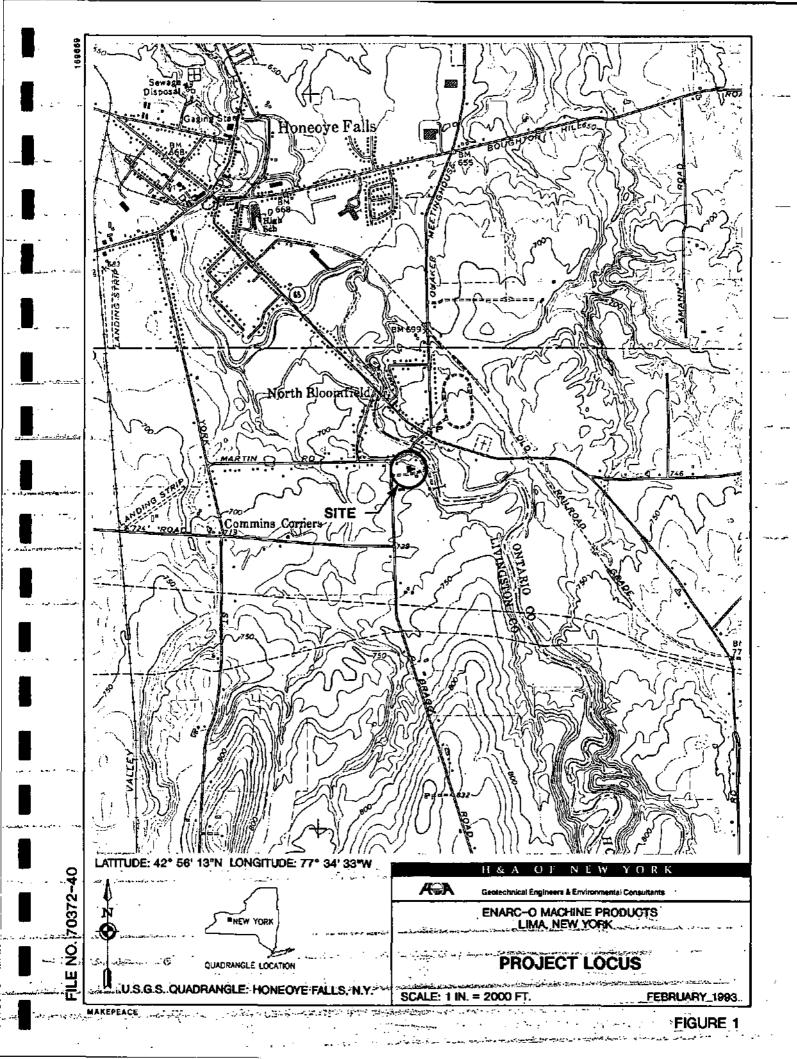
Vincent Dick and Robert Mahoney of H&A were present to assist in answering questions asked by members of the public.

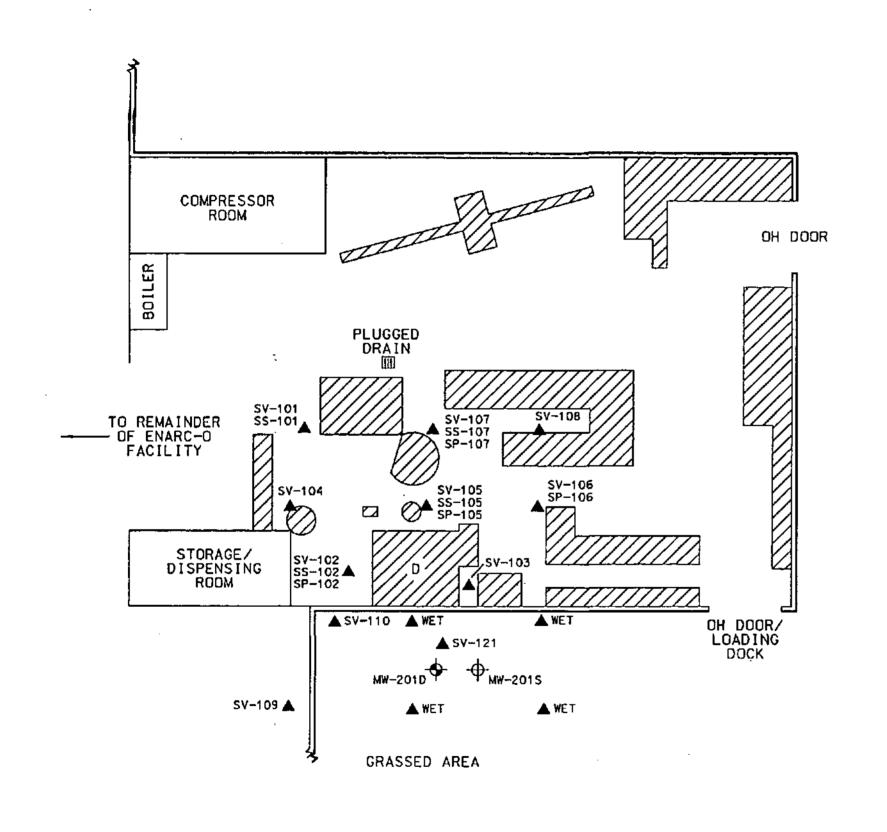
No Citizen Participation Plan activities (i.e. public meetings) are anticipated or scheduled for the next quarter.

RJM/slc rjm:70372-48:RKaddis



Figures





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SV-102 SS-102 ▲ VAPÛI SP-102 SAMPI

APPROXIMATE LOCATION OF SOIL VAPOR SAMPLE (SV), SOIL SAMPLE (SS). OR SOIL VAPOR POINT (SP)



FLOOR AREA OBSTRUCTED BY EQUIPMENT, STORAGE OR OTHER, (DIMENSIONS APPROXIMATE) "D" DESIGNATES DEGREASER LOCATED IN CONCRETE PIT

ww-201s-♦- OVERBURDEN WELL

MW-2010- BEDROCK WELL



### NOTES:

- 1. ALL LOCATIONS AND DIMENSIONS APPROXIMATE, BASED ON TAPE PLAN OF FACILITY.
- 2. SOURCE AREA SAMPLE LOCATIONS SHOWN ONLY. SEE TEXT FOR ADDITIONAL INFORMATION AND SEE FIGURE 3 FOR OTHER PROPOSED INVESTIGATION LOCATIONS.

### H & A OF NEW YORK

Geofechnical Engineers & Environmental Consultants

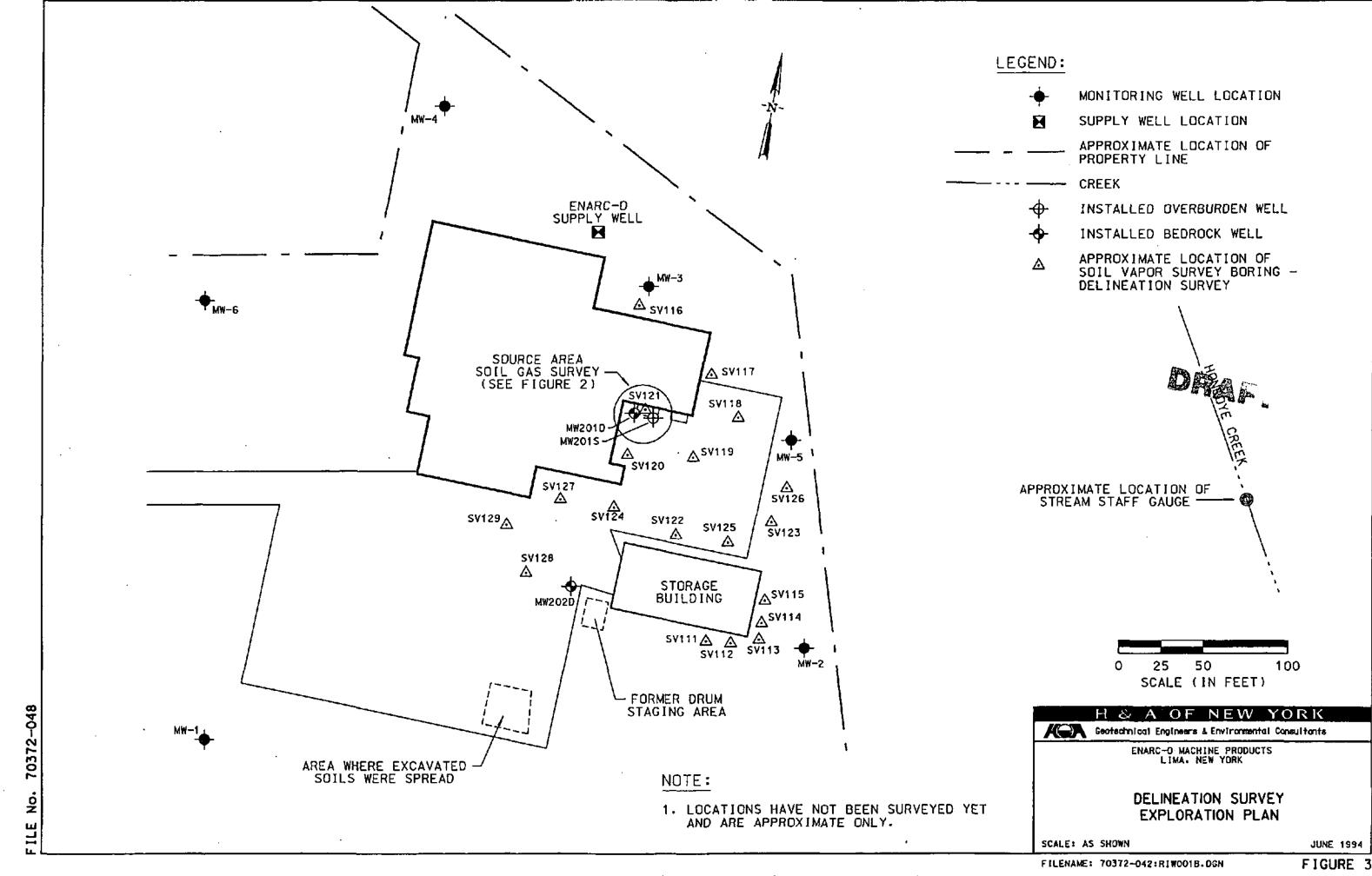
ENARC-O MACHINE PRODUCTS LIMA. NEW YORK

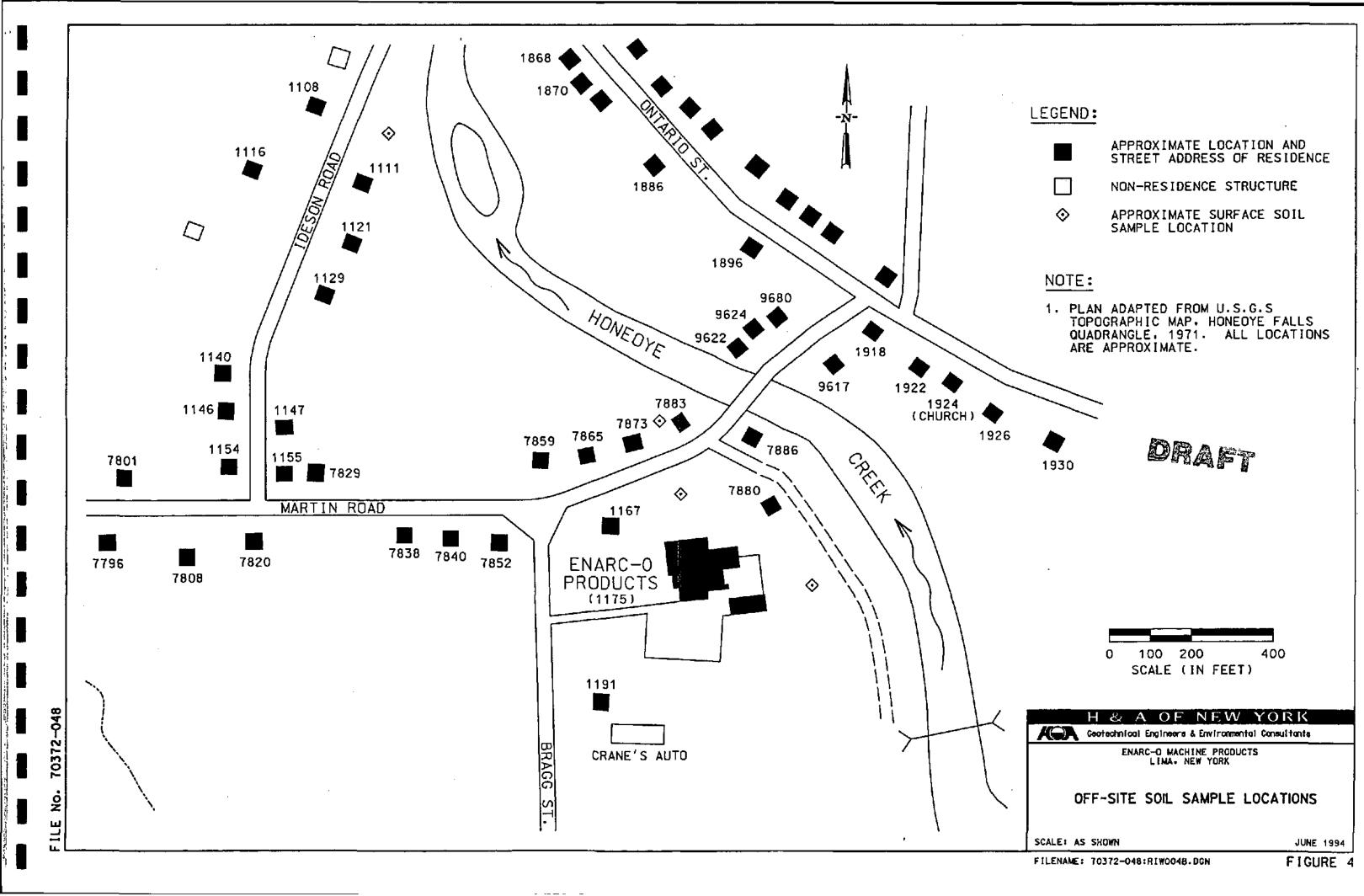
SOURCE AREA EXPLORATION PLAN

SCALE: 1" = 10'

JUNE 1994

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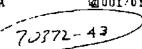




Appendix A

APPENDIX A

Analytical Data - Soil Samples





A Full Service Environmental Laboratory.

Source Area Soil

TO: BOB Mahorey  ATTENTION:  PAX NUMBER: PAGES TO FOLLOW: 14  FROM: Condy Jooney
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PAX NUMBER: PAGES TO FOLLOW: 4
FROM: Cmay Sooney
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# 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SSTB1

Lab Name: GENERAL TESTING

Contract:H & A

Lab Code:10145 Case No.: SAS No.:

SDG No.:SSTB1

Matrix: (soil/water) WATER

Lab Sample ID:1652-4

sample wt/vol: 5.00 (g/ml) ML

Lab File ID: E9319

Level: (low/med) LOW

Date Received: 5/09/94

% Moisture: not dec.

Date Analyzed: 5/16/94

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Scil Extract Volume: 0 (uL)

Soil Aliquet Volume:0

(uL)

CAS NO. COMPOUND

	<del></del>	<del></del> 1
74-87-3Chloromethane	10.	ŭ
74-83-9Bromomethane		Ū .
75-01-4Vinyl chloride	10.	Ü
75-00-3Chloroethane	10.	Ū
75-09-2Methylene chloride		
67-64-1Acetone	10.	U U
75-15-0Carbon Disulfide	10.	Ü
75-15-0Carbon Disulfide 75-35-41,1-Dichloroethene	10.	Ū
75-34-31,1-Dichlorpethane	10.	ש
156-60-5trans-1,2-Dichloroethene	10.	וד ו
67-66-3Chloroform	10.	Ū
107-06-21,2-Dichloroethane	10.	Ü
78-93-32-Butanone	10.	י די
156-59-2cis-1,2-Dichloroethene	10.	Ū
_71-55-61.1.1-Trichloroethane		U
56-23-5Carbon tetrachloride	10.	Ū
75-27-4Bromodichloromethane	10.	U
78-87-51,2-Dichloropropane	10.	Ŭ
10061-01-5cis-1.3-Dichlcropropene	10.	<u>U</u>
_79-01-6Trichlorgethene	10.	<u>u</u> '
124-48-1Dibromochloromethane	10.	U
<u>79-00-51.1.2-Trichloroethane</u>	10.	<u>U</u>
71-43-2Benzene	10.	U
50061-02-6trans-1.3-Dichloropropene	10.	<u>U</u>
75-25-2Bromoform	10.	<u>U</u>
108-10-14-Methyl-2-Pentanone	10.	บ
591-78-62-Hexanone	10.	<u>v</u>
127-18-4Tetrachloroethene	10.	<u>U</u>
79-34-51.1.2.2-Tetrachloroethane	10.	<u>U</u>
108-88-3Toluene	10.	<u>u</u>
108-90-7Chlorobenzene	10.	<u>U</u>
100-41-4Ethylbenzene	<u> 10.</u>	U
100-42-5Styrene	10.	<u>וו</u>
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108-38-3(m+c)Xylene	10.	<u>U</u>
95-47-6o-Xylene	10.	<u>u</u>

#### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.

Lab Name: GENERAL TESTING

Contract: H & A

SSTB1

Lab Code:10145 Case No.: SAS No.:

SDG No.:SSTB1

Matrix: (soil/water) WATER

Lab Sample ID:1652-4

Sample wt/vol: 5.00 (g/ml) ML

Lab File ID: E9319

Level: (low/med) LOW

Date Received: 5/09/94

% Moisture: not dec.

Date Analyzed: 5/16/94

GC Column:RTX-502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0 (UL)

Number TICs Found: 1

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#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS101

Lab Name: GENERAL TESTING

Contract:H & A

Lab Code: 10145 Case No.: 5AS No.:

SDG No.: SSTB1

Matrix: (soil/water) SOIL

Lab Sample ID:1652-5

Sample wt/vol: 5.00 (g/ml) G

Lab File ID: G8761

Level: (low/med) LOW

Date Received: 5/09/94

% Moisture: not dec. 17

Date Analyzed: 5/14/94

GC Column:RTX-502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:0 (uL)

Soil Aliquot Volume:0

(uL)

CAS NO.

COMPOUND

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74-87-3Chloromethane	12.	<u>u</u>
74-83-9Bromomethane	12.	<u>u</u>
75-01-4Vinyl chloride	12.	<u>U</u>
75-00-3Chlorcethane	12.	<u>U</u>
75-09-2Methylene chloride	12.	<u>u</u>
67-64-1Acetone	12.	<u>u</u>
75-15-0Carbon Disulfide	12.	<u>u</u>
75-35-41,1-Dichloroethene	4.	J
75-34-31.1-Dichloroethane	12.	<u>n</u>
156-60-5trans-1,2-Dichloroethene	12.	U
67-66-3Chlorofora	12.	U
107-06-21,2-Dichloroethane	12.	ָט ט
78-93-32-Butanone	12.	<u>u</u>
156-59-2cis-1.2-Dichloroethene	4.	J ·
71-55-61,1,1-Trichloroethane	45.	
56-23-5Carbon tetrachloride	12.	Ū
75-27-4Bromodichloromethane	12_	<u>ט</u>
78-87-51.2-Dichloropropane	12.	<u>U</u>
10061-01-5cis-1.3-Dichloropropene	12.	<u>U</u>
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124-48-1Dibromochloromethane	12.	Ū
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71-43-2Benzene	12.	Ŭ
50061-02-6trans-1.3-Dichloropropene	12.	Ū
75-25-2Bromoform	12.	ַ עַ
108-10-14-Methyl-2-Pentanone	12.	บ
591-78-62-Hexanone	12.	บ
127-18-4Tetrachloroethene	2.	J
79-34-51,1,2,2-Tetrachloroethane	12.	<u> </u>
108-88-3Toluene	12.	Ū
108-90-7Chlorobenzene	12.	Ū
100-41-4Ethylbenzene	12.	Ū
100-42-5Styrene	12.	<del>u</del>
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108-38-3(m+p)Xviene	12.	<u> </u>
95-47-6o-Xylene	12.	Ū
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### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS101

Lab Name: GENERAL TESTING

Contract:H & A

Lab Code:10145 Case No.: SAS No.:

SDG No.:SSTB1

Matrix: (soil/water) SOIL

Lab Sample ID:1652-5

Sample wt/vol: 5.00 (g/ml) G

Lab File ID: G8761

Date Received: 5/09/94

% Moisture: not dec. 17

Level: (low/med) LOW

Date Analyzed: 5/14/94

GC Column: RTX-502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

Number TICs Found: 1

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#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

\$\$102

Lab Name: GENERAL TESTING

Contract:H & A

Lab Code:10145 Case No.:

SAS No.:

SDG No.:SSTB1

Lab Sample ID:1652-3

Matrix: (scil/water) Scil

Sample wt/vol: 5.00 (g/ml) G

Lab File ID: G8760

Level: (low/med) LOW

Date Received: 5/09/94

% Moisture: not dec. 14

Date Analyzed: 5/14/94

GC Column: RTX-502 ID: 0.53 (mm)

Dilution Factor:

Soil Extract Volume:0 (uL)

Soil Aliquot Volume:0

(uL)

CAS NO.

COMPOUND

74-87-3Chloromethane 12. U	1
	1
	<del></del>
74-83-9Bromomethane 12. U	
75-01-4Vinvl chloride 12. U	
75-00-3Chlorcethane 12. U	<del></del>
75-09-2Methylene chloride 12. U	<b></b> ∤
67-64-1Acetone 12. U	<u>1</u>
75-15-0Carbon Disulfide 12. U	
75-35-41,1-Dichloroethene 130.	
75-34-31,1-Dichloroethane 83.	
156-60-5trans-1.2-Dichloroethene 12. U	
67-66-3Chloroform 12. U	
107-06-21.2-Dichloroethane 27.	
78-93-32-Butanone 12. U	
156-59-2cis-1,2-Dichloroethene 8. J	
71-55-61,1,1-Trichloroethane 1100. E	——
56-23-5Carbon tetrachloride 12. U	
75-27-4Bromodichloromethane 12. U	
78-87-51,2-Dichloropropane 12. U	
10061-01-5cis-1,3-Dichloropropene 12. U	
79-01-6Trichloroethene 1300. E	
124-48-1Dibromochloromethane 12. U	
79-00-51,1,2-Trichloroethane 12. U 71-43-2Benzene 12. U	
50061-02-6trans-1.3-Dichloropropene 12. U 75-25-2Bromoform 12. U	
108-10-14-Methyl-2-Pentanone 12. U	
591-78-62-Hexanone 12. U	
127-18-4Tetrachloroethene 59.	
79-34-51,1,2,2-Tetrachloroethane 12, U	
108-88-3Toluene 12, U_	
108-90-7Chlorobenzene 12. U	
100-41-4Ethylbenzene 12. U	
100-42-5Styrene 12. U	
108-38-3(m+p)Xylene 12. U	
95-47-6	

#### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SS102

Lab Name: GENERAL TESTING

10.20

Contract:H & A

Lab Code:10145 Case No.:

SAS No.: SDG No.:SSTBI

Matrix: (soil/water) 501L

Lab Sample ID:1652-3

Sample wt/vol: 5.00 (g/ml) G

PATERATIF

Lab File ID: G8760

Level: (low/med) LOW

Date Received: 5/09/94

% Moisture: not dec. 14

Date Analyzed: 5/14/94

GC Column:RTX-502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0 (uL)

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NG.

SS102DL

Lab Name: GENERAL TESTING

Contract:H & A

Lab Code:10145 Case No.: SAS No.:

SDG No.:SSTB1

Matrix: (soil/water) SOIL

Lab Sample ID:1652-3DL

Sample wt/vol: 4.00 (g/ml) G

Lab File ID: E9320

Level: (low/med) MED

Date Received: 5/09/94

% Moisture: not dec. 14

Date Analyzed: 5/16/94

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000.00 (uL)

Soil Aliquot Volume: 100.0 (uL)

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

CONCENTRATION UNITS:

	<del>,</del>	
74.07.6		l
74-87-3Chloromethane	1500.	<u>u</u>
74-83-9Bromomethane	1500.	<u>u</u>
75-01-4Vinyl chloride	1500.	<u>u</u>
75+00-3Chloroethane	1500.	<u>U</u>
75-09-2Methylene chloride	1500.	U
67-64-1Acetone	<u> 1500.</u>	<u>U</u>
75-15-0Carbon Disulfide	1500.	<u>บ</u>
75-35-41,1-Dichloroethene	1500.	
75-34-31,1-Dichloroethane	1500.	<u>u</u> }
156-60-5trans-1,2-Dichloroethene	1500.	Ŭ
<u>67-66-3Chloroform</u>	1500.	<u>U</u>
107-06-21,2-Dichloroethane	1500.	
78-93-32-Butanone	1500.	<u>u</u>
156-59-2cis-1,2-Dichloroethene	1500.	U
71-55-61.1.1-Trichloroethane	670.	DJ
56-23-5Carbon tetrachloride	1500.	<u>U</u>
75-27-4Bromodichlcromethane	1500.	Ü
78-87-51,2-Dichloropropane	1500.	Ü
10061-01-5cis-1.3-Dichloropropene	1500.	U
79-01-6Trichloroethene	1500.	D
124-48-1Dibromochlcromethane	1500.	<u>U</u>
79-00-51,1,2-Trichloroethane	1500.	U
71-43-2Benzene	1500.	Ü
50061-02-6trans-1,3-Dichloropropene	1500.	Ü
75-25-2Bromoform	1500.	Ū
108-10-14-Methvl-2-Pentanone	1500.	U
591-78-62-Hexanone	1500.	Ū
127-18-4Tetrachloroethene	1500.	Ü
79-34-51,1,2,2-Tetrachloroethane	1500.	Ü
108-88-3Toluene	1500.	<u> </u>
108-90-7Chlorobenzene	1500	Ū
100-41-4Ethylbenzene	1500.	Ü
100-42-5Styrene	1500.	<u> </u>
108-38-3(m+p)Xvlene	1500.	Ū
95-47-6	1500.	Ū
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VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

55102DL

Lab Name: GENERAL TESTING

Contract:H & A

Lab Code:10145 Case No.:

SAS No.:

SDG No.:SSTB1

Matrix: (soil/water) SOIL

Lab Sample ID:1652-3DL

Sample wt/vol: 4.00 (g/ml) G

Lab File ID: E9320

Level: (low/med) MED

Date Received: 5/09/94

% Moisture: not dec. 14

Date Analyzed: 5/16/94

GC Column:RTX-502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 10000.00 (ul)

Soil Aliquot Volume: 100.0 (uL)

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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2A VOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

Lab Name: GENERAL TESTING

Contract:H & A

SS105

Lab Code:10145 Case No.: SAS No.:

SDG No.:SSTB1

Matrix: (soil/water) SOIL

Lab Sample ID:1652-2

Sample wt/vol: 5.00 (g/ml) G

Lab File ID: G8757

Date Received: 5/09/94

Level: (low/med) LOW

% Moisture: not dec. 13

Date Analyzed: 5/14/94

GC Column:RTX-502

ID: 0.53 (mm)

Dilution Factor: 1.0

(uL)

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

CAS NO.

COMPOUND

	<u> </u>	<del></del> .
74-87-3Chloromethane	11.	ט
	1l.	Ü
74-83-9Bromomethane 75-01-4Vinyl chloride	11.	<u> </u>
75-00-3Chloroethane	11.	<u>Ü</u>
	11.	<u> </u>
75-09-2Acetone chloride		U U
	11.	<u>u</u>
75-15-0Carbon Disulfide	5.	<del>5</del> <del>5</del> -
75-35-41 1-pichloroethene	11.	<u> </u>
75-34-31.1-Dichloroethane	11.	Ū
156-60-5trans-1.2-Dichloroethene	11.	<u> </u>
67-66-3Chloroform	11.	<u>u</u>
107-06-21, 2-Dichloroethane	11.	<del>  </del>
78-93-3	11.	U U
	71.	<del></del>
71-55-61,1,1-Trichloroethane	11 -	U
56-23-5Carbon tetrachloride	11.	<u><u>v</u></u>
75-27-4Bromodichloromethane	11.	<u>v</u>
78-87-51,2-Dichloropropane	11.	<u>u</u>
10061-01-5cis-1.3-Dichlcropropene		E
79-01-6Trichlorgethene	300.	
124-48-1Dibromochloromethane	11-	<u>U</u>
79-00-51.1.2-Trichloroethane	11.	U U
71-43-2Benzene		<u>n</u>
_50061-02-6trans-1,3-Dichloropropene	11.	<u>u</u>
75-25-2Bromoform	11.	<del>1</del>
108-10-14-Methyl-2-Pentanone	11.	<u>u</u>
<u>591-78-62-Hexanone</u>	11.	
127-18-4Tetrachloroethene	11.	<u>v</u>
79-34-51,1,2,2-Tetrachloroethane	11.	
108-88-3Toluene	11.	U U
108-90-7Chlorobenzene	11-	
100-41-4Ethylbenzene	11-	<u>u</u>
100-42-5Styrene	11.	} <del></del> -
100.00		+
108-38-3(ш+р)Хуlеле	11.	<u>U</u>
<u>95-47-6o-Xylene</u>	11.	( <u>~</u>

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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	SS105		

EPA SAMPLE NO.

Lab Name: GENERAL TESTING

Contract:H & A

Lab Code:10145 Case No.: SAS No.:

SDG No.:SSTB1

Matrix: (soil/water) SOIL

Lab Sample ID:1652-2

Sample wt/vol: 5.00 (g/ml) G

Lab File ID: G8757

Level: (lcw/med) LOW

Date Received: 5/09/94

% Moisture: not dec. 13

Date Analyzed: 5/14/94

GC Column: RTX-502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 0 (uL)

Soil Aliquot Volume: 0 (uL)

Number TICs Found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q.
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#### lA VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: GENERAL TESTING Contract: H & A

SSIOSDL

Lab Code:10145 Case No.: SAS No.: SDG No.:SSTB1

Matrix: (soil/water) SOIL

Lab Sample ID:1652-2DL

Sample wt/vol: 2.50 (g/ml) G Lab File ID: G8763

Level: (low/med) LOW

Date Received: 5/09/94

% Moisture: not dec. 13

Date Analyzed: 5/14/94

GC Column: RTX-502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:0 (uL)

Soil Aliquot Volume: 0 (uL)

CAS NO.

COMPOUND

		<del></del> ,
74-87-3Chloromethane	23.	<u>u</u>
74-83-9Bromomethane	23_	<u> </u>
75-01-4Vinyl chloride	23.	<u>u</u>
75-00-3Chloroethane	23.	<del>ʊ</del>
75-09-2Methylene chloride	23.	<u> </u>
67-64-1Acetons	23.	U
75-15-0Carbon Disulfide	23.	Ü
75-35-41,1-Dichloroethene	23.	<u> </u>
75-34-31,1-Dichlorcethane	23.	<u>u</u>
156-60-5trans-1,2-Dichloroethene	23.	<u>u</u>
67-66-3Chloroform		77
	23	U U
	23.	<u>u</u>
78-93-32-Butanone		<del>U</del>
156-59-2cis-1,2-Dichloroethene	23.	
71-55-61,1,1-Trichloroethane	36.	<u></u> _
56-23-5Carbon tetrachloride	23.	<u>u</u> U
75-27-4Bromodichloromethane	23.	, ₩
_78-87-51,2-Dichloropropane	23.	
10061-01-5cis-1,3-Dichloropropene		<u>U</u>
79-01-6Trichloroethene	200.	<u>D</u>
124-48-1Dibromochloromethane	23.	<u>v</u>
79-00-51,1,2-Trichloroethane	23.	U
71-43-2Benzene		<u>U</u>
50061-02-6trans-1,3-Dichloropropene	23.	<u>n</u>
75-25-2Bromoform	<u>23.</u>	Ū
108-10-14-Methyl-2-Pentanone	<u> 23.</u>	<u>u</u>
_591-78-62-Hexanone	<u>23.</u>	
127-18-4Tetrachloroethene	23.	<u>U-</u>
79-34-51,1,2,2-Tetrachloroethane	23.	<u>u</u>
106-88-3Toluene	23.	<u>u</u>
108-90-7Chlorobenzene	23.	<u>U</u>
100-41-4Ethylbenzene	23	<u>u</u>
100-42-5Styrene	23.	Ü
108-38-3(m+p)Xylene	23	<u>U</u>
95-47-6o-Xylene	23.	<u>U</u>

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

SS105DL

EPA SAMPLE NO.

Lab Name: GENERAL TESTING

VU- V1/ D4 10. EU

Contract:H & A

Lab Code:10145 Case No.: SAS No.:

SDG No.:SSTB1

Matrix: (soil/water) SOIL

Lab Sample ID:1652-2DL

Sample wt/vol: 2.50 (g/ml) G

Lab File ID: G8763

Level: (low/med) LOW

Date Received: 5/09/94

% Moisture: not dec. 13

Date Analyzed: 5/14/94

GC Column: RTX-502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume:0 (uL)

Soil Aliquot Volume:0

(uL)

Number TICs Found: 1

CAS NUMBER	COMPOUND NAME	ЯT	EST. CONC.	Q
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#### lA VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS107

Lab Name: GENERAL TESTING Contract: H & A

Lab Code: 10145 Case No.: SAS No.:

SDG No.:SSTB1

Matrix: (soil/water) SOIL

Lab Sample ID:1652-1

Sample wt/vol: 5.00 (g/ml) G

Lab File ID: G8762

Level: (low/med) LOW

· Cate Received: 5/09/94

% Moisture: not dec. 15

Date Analyzed: 5/14/94

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 0 (uL)

Soil Aliquot Volume: 0 (uL)

CAS NO.

COMPOUND

	i	
74-87-3Chloromethane	12.	<u>v\</u>
74-83-9Bromomethane	12.	Ü
75-01-4Vinyl chloride		<u> </u>
75-00-3Chloroethene		<u>U</u>
75-00-3	12.	Ü
75-09-2Methylene chloride	12.	U
67-64-1Acetone 75-15-0Carbon Disulfide	12.	
75-15-4 L. J. Dieblassethage	12.	<u>U</u>
75-35-41.1-Dichlorcethene 75-34-31,1-Dichlorcethane	12.	<u>v</u>
/b-ja-j	12.	<u>v</u>
156-60-5trans-1,2-Dichloroethene		<u>U</u>
67-66-3Chloroform	12.	
107-06-21,2-Dichlcroethane	12.	<u>ប</u>
_78-93-32-Butanone		<u>u</u>
156-59-2cis-1,2-Dichloroethene	52.	<del></del>
71-55-61.1.1-Trichlorgethane	29.	
_56-23-5Carbon tetrachloride	12,	Ū
75-27-4Bromedichloromethane		U
78-87-51.2-Dichloropropane	12.	<u>u</u>
10061-01-5cis-1.3-Dichloropropene	12.	<u>13</u>
79-01-6Trichloroethene	160_	
124-48-1Dibromochlcromethane	12.	<u>U</u>
79-00-51,1,2-Trichloroethane	12.	<u>v</u>
71-43-2Benzene	12.	U
50061-02-6trans-1,3-Dichloropropene	12.	<u>u</u>
75-25-2Bromoform	12.	U
108-10-14-Methyl-2-Fentanone	12.	<u>U</u>
591-78-62-Hexanone	12.	Ū
127-18-4Tetrachloroethene		U
79-34-51,1,2,2-Tetrachloroethane	$\frac{12}{12}$ .	Ū
108-88-3Toluene	12.	U
108-90-7Chlorobenzene	12.	บั
100-41-4Ethylbenzene	12.	Ü
100-42-5Styrene	12.	Ū
108-38-3(m+p)Xylene	12.	<u>U</u>
95-47-6o-Xvlene	12.	<u> </u>
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#### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: GENERAL TESTING

Contract:H & A

SS107

Lab Code:10145 Case No.: SAS No.:

SDG No.:SSTB1

Matrix: (soil/water) SOIL

Lab Sample ID:1652-1

Sample wt/vol: 5.00 (g/ml) G

Lab File ID: G8762

Date Received: 5/09/94

% Moisture: not dec. 15

Level: (low/med) LOW

GC Column:RTX-502

ID: 0.53 (mm)

Date Analyzed: 5/14/94

Dilution Factor: 1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0 (uL)

Number TICs Found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
2	Unknown		180.	
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Appendix B

Appendix

APPENDIX B

Test Boring Reports

H&A OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists						TEST BORING REPORT			BORING NO. B201-S	
PROJECT: CLIENT: CONTRACT	KAI	RC-O MACHIN DIS MANUFAÇ HNAGLE DRIL	TURING CORP				FYLE NO. 70372-44 SHEET NO. 1 OF 1 LOCATION:			
1	TEM		CASING	DRIVE SAMPLER	CORE BARREL	DRILLING EQUIPMENT & PROC	EDURES	ELEVATION:		
TYPE INSIDE D HAMMER W HAMMER F		(IN) (LB)	Auger 4-1/4			RIG TYPE: CME-75, Truck-Mc BIT TYPE: DRILL MUD: OTHER: Advanced 6-1/4 in. I stem augers to 12.5	(.D. hollow ft., with-	DATUM: START: FINISH: DRILLER: H&A REP:	26 May 199 27 May 199 S. Loranty M. Corriga	
DEPTH (FT)	CASING BLOWS PER FT	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (PT)	out split spoon samp	_	D REMARKS	-	
						Advanced 6-1/4 in. I.D. hol split spoon sampling.	low stem au	gers to 12.5	i ft. witho	
· -						Bottom of Apparent Top	Boring at 1		· : <del>-</del> ·	
-15 — -						Notes:				
· -						2. Installed 4.0 in. Sched borehole. See Groundwa Report.	ule 40 PVC	well in comp	leted	
- 20 	'						Ďf	7AF	T	
— 25 ——			<u> </u>	L	<u> </u>	·	i <del></del>	· <del></del>		
		WATER LEVEL		at Lean; we		SAMPLE IDENTIFICATION	Olleboran	SUMMARY	12.0	
DATE	TIME	ELAPSED TIME (HR)	BOTTOM OF CASING	BOTTOM OF HOLE	WATER	O Open End Rod T Thin Wall Tube U Undisturbed Sample		(LIN FT):	12.0	

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Co	MAA OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers. Geologists and Hydrogeologists					TEST BORING REPORT			BORING NO. B201-D .	
PROJECT: ENARC-O MACHINE PRODUCTS RI/FS CLIENT: KADDIS MANUFACTURING CORP. CONTRACTOR: NOTHNAGLE DRILLING CO.									70372-44 1 OF 2	
ITEM  TYPE INSIDE DIAMETER (IN) HAMMER WEIGHT (LB) HAMMER FALL (IN)			CASING	DRIVE SAMPLER	CORE BARREL	DRILLING EQUIPMENT & PROC		ELEVATION:		
			Auger 4-1/4	\$ 1-3/8 140 30	NX 2-7/8 	RIG TYPE: CME-75, Truck Mc BIT TYPE: 5-7/8 in. tri-co DRILL MUD: OTHER: Advanced 4-1/4 in. I stem sugers to 10.5	ne roller bit .D. hollow ft., while	DATUM: START: FINISH: DRILLER: HEA REP:	23 May 199 27 May 199 S. Loranty M. Corriga	
DEPTH (PT)	CASING BLOWS PER FT	SAMPLER BLOWS PER 6 IN	Sample Number & Recovery	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	continuous split spoon VISUAL CLASSI		D REMARKS		
		1 1	S1	0.0	0.2	Very loose brown clayey fi	ne SAND, so	me roots, li	ittle silt,	
-		1 1	6"/24" S2	2.0		Very loose brown silty fine	SAND, wet.			
_		1	1"/24=	4.0		Very loose brown silty fine	SAND, wet.			
_		2	S3	4.0		Very loose brown silty fine	SAND, trace clay, wet.			
s <b></b> -		2 2	15"/24"	6.0			•			
-		3	5 16 24"/24" 8.0		Same, except loose.	-FILL-				
		16		8.0	7.0	Hard red-brown silty CLAY, trace gravel and medium sand, dam -GLACIOLACUSTRINE-				
		9			Hard red-brown silty CLAY, trace gravel and medium sand, mois					
-10		20 39	24"/24"	10.0	10.0					
. –		100/.5	S6 6"/6"		10.5	Very dense gray-brown fine sandy GRAVEL, little coarse to medium sand, moistGLACIAL TILL-				
• –						Apparent Top of Rock at 10.5 ft.				
_						Nahaa				
-15 <del></del>						Notes:	ri-cone rol	lerbit to 12	2. <b>5</b> ft los	
				,		<ol> <li>Reamed with 5-7/8 in. tri-cone rollerbit to 12.5 ft., 10 approximately 250 gallons of water.</li> </ol>				
_						2. Grouted 4.0 in. Schedul	e 80 PVC car	sing to 12.5	ift.	
						3. See Core Boring Report,	Page 2.			
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		WATER LEVEL		ישי ונייון וויי		SAMPLE IDENTIFICATION		SUMMARY (LIN FT);	10.5	
DATE	TIME	ELAFSED TIME (HR)	DEPTH (FT) T	г	** WATER	O Open End Rod T Thin Wall Tube U Undisturbed Sample	ROCK CORED		16.3	
_			OF CASING	OF HOLE			SAMPLES:		6S	
				1			BORING NO.		B201-D	

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	& A OF NEW Y Consulting G Geologists		Enginee	rs,		CORE BORING REPORT FILE NO. 70372-44 SHEET NO. 2 OF 2				
DEPTH (FT)	DRILLING RATE (MIN./FT.)	CORE NO.  DEPTH(FT)	RECOVER	Y/RQD	WEATH- ERING	STRATA CHANGE (FT)	VISUAL CLASSIFICATION	AND REMARKS		
•		]								
_							Began Coring at			
		12.7 R1 14.2	<u>14</u> 0	<u>78</u> 0	MOD		Moderately hard, gray-brown, fin fossils, mudboils and chert thro	ughout.		
-15 —	<u> </u>						-ONONDAGA LIME	STONE-		
	<u>.                                    </u>	15.0 R2	<u>33</u> 33	100 100	SL					
· -		17.7			-	-	Rough, horizontal partings at 16 19.4 ft., 19.6 ft. 20.8 ft., 28.			
	ļ						Smooth horizontal partings at 22	.8 ft.		
20 —		R3	<u>58</u> 51	100 88	SL		Smooth vertical joint from 20.8	ft. to 20.9 ft.		
-							Pit at 20.4 ft.			
		22.5					Stylolites at 17.4 ft. and 19.4	ft.		
-		22.5 R4	12	100	SL					
		23.5	12	100	<u> </u>	1				
-25 — 		24.0 R5 24.5	<u>6</u>	100 100	SL					
 		24.5 R6		102	FR	-	*ROD based on rock core recovere	d.		
		29.0	<u>53</u> 50	94*						
-30 <del>-</del>	<u> </u>	·					Bottom of Boring a	t 29.0 ft.		
	-						Wahar			
	<u> </u>						Notes:			
	<u> </u>						1. Lost 2300 gallons of water d	uring all core runs.		
-35	<u> </u>						·			
		ļ					NAG	THE STATE OF THE S		
							On.	<b>₩</b> #		
_			•							
		]								
-40 <b>—</b>		1		]						
	<del> </del>	1								
	<del>                                     </del>	1								
- <del>-</del>	1									
	<del> </del>	-								
-45 —		1								

Cons	AA OF NEW YORK, ROCHESTER, NEW YORK Consulting Geotechnical Engineers, Geologists and Hydrogeologists					TEST BORING REPORT	BORING NO. B202		
PROJECT: ENARC-O MACHINE PRODUCTS RI/FS CLIENT: KADDIS MANUFACTURING CORP. CONTRACTOR: NOTHNAGLE DRILLING CO.					X 1885			FILE NO. 70372-44 SHEET NO. 1 OF 2 LOCATION:	
ITI	EM		CASING	DRIVE SAMPLER	CORE BARREL	DRILLING EQUIPMENT & PROC		ELEVATION:	
TYPE INSIDE DIA HAMMER WEI HAMMER FAI	IGHT	(IN) (LB) (IN)	Auger 4-1/4	\$ 1-3/8 140 30	NX 2-7/8	RIG TYPE: CME-75, Truck Mc BIT TYPE: 5-7/8 in. tri-cc DRILL MUD: OTHER: Advanced 4-1/4 in. I stem augers to 14.7	bit (.D. hollow ft., while	-	
E	CASING BLOWS PER FT	SAMPLER BLOWS PER 6 IN	SAMPLE NUMBER & RECOVERY	SAMPLE DEPTH (FT)	STRATA CHANGE (FT)	continuous split spoor		ID REMARKS	
- 7		13 7 5	\$1 18"/24"	0.0	0.5	Medium dense gray-brown si sand, dry.	Ilty GRAVEL,	little coarse to fine	
		5 6	\$2	2.0	2.0	Medium dense brown silty fine sand, trace clay, dampFILL-			
		20 13	24"/24"	4.0			CLAY, little medium sand, damp to		
_, ]		7 12	<b>S</b> 3	4.0		moistGLACIOLACUSTRINE-			
_ , _		16	24"/24"	6.0		Same, except damp.			
		25 8	S4	<b>6</b> .0		Same, except damp.			
_ 7		14 18 25	10"/24"	8.0					
7			\$5	8.0		Hard red-brown silty CLAY, some gravel, little coarse to fine			
		20 32	10"/24"	10.0		sand, damp.			
-10		50 7 21 33 19 5 77 36 55 12 100/0.2	S6	10.0	12.0 0	Same, except fine sand seam from 10.5 ft. to 11.0 ft., damp.			
7			24"/24"	12.0		-GLAC	CIOLACUSTRIN	E-	
			5 77	S7 12.0		Very dense gray fine sandy GRAVEL, some silt, trace coarse to medium sand, damp to dry.			
 -15 -				14.0		-GLACIAL TILL-			
- 7		100/0.2	1777	14.7		Top of R	Rock at 14.7	ft.	
						Notes:			
						1. Reamed with 5-7/8 in. t approximately 70 gallon			
— 20 —						2. Grouted 4.0 in. Schedul	e 80 PVC ca	sing to 16.5 ft.	
						3. See Core Boring Report, Page 2.			
							1	7 7 7 7	
7									
<b>—</b> 25 <b>—</b>		Manuel 4				01474 P	<u> </u>	O'DOCATA!	
	·	WATER LEVEL				SAMPLE IDENTIFICATION	SUMMARY (LIN FT): 14.7		
DATE T	IIME	ELAPSED TIME (HR)	ME (HR) BOTTOM BOTTOM		WATER	O Open End Rod T Thin Wall Tube ROCK CORED	(LIN FT): 14.7		
			OF CASING	OF HOLE		U Undisturbed Sample S Split Spoon SAMPLES:	SAMPLES:	as	
							BORING NO.	B202	

H & A OF NEW YORK, ROCHESTER, NEW YORK BORING NO. B202 Consulting Geotechnical Engineers, CORE BORING REPORT FILE NO. 70372-44 Geologists and Hydrogeologists SHEET NO. 2 OF 2 DEPTH DRILLING RECOVERY/RQD CORE NO. WEATH-STRATA RATE CHANGE ERING VISUAL CLASSIFICATION AND REMARKS (FT) (MIN./FT.) DEPTH (FT) IN. (FT) Began Coring at 16.8 ft. Moderately hard, gray-brown, fine-grained LIMESTONE with 16.8 MOD 5 fossils, mudboils and chert throughout. -ONONDAGA LIMESTONE-5 5 Lost all wash water return at approximately 20.8 ft. Came back at 21.5 ft. R1 SL 5 5 s 5 24.0 Core block at 24.0 ft. 5 24.0 Lost all wash water return at approximately 23.8 ft. ŞL R2 5 Came back at 23.9 ft. 26.8 6 Lost wash water return at 24.0 ft. 26.8 Rough horizontal partings 18.8 ft., 19.5 ft., 20.6 ft., 6 21.2 ft., 21.9 ft., 22.0 ft., 22.8 ft., 23.2 ft., 24.3 ft., 27.4 ft., 29.7 ft., 32.6 ft., 36.5 ft. 6 6 6 <u>99</u> 92 R.J \$Ļ-Stylolites at 31.0 ft., 35.1 ft. 119 6 110 FR Pits at 24.6 ft. and 27.0 ft. 6 Smooth, low angled, stepped joint at 27.7 ft. 6 DRAFT 6 6 36.8 6 Bottom of Boring at 36.8 ft. Notes: 1. Lost approximately 1200 gallons total of water during all coring runs.

Appendix C

APPENDIX C

Monitoring Well Report Forms

### H&A OF NEW YORK CONSULTING GEOTECHNICAL ENGINEERS GEOLOGISTS AND HYDROGEOLOGISTS

#### OVERBURDEN GROUNDWATER MONITORING WELL REPORT

PROJECT: ENARC-O MACHINE PRODUCTS RI/FS FILE NO.: 70372-44 LOCATION: HONEOYE FALLS, NEW YORK WELL NO.: MW201-S CLIENT: KADDIS MANUFACTURING CORP. LOCATION: NOTHNAGLE DRILLING CO. CONTRACTOR: DRILLER: RIG TYPE: CME-75, Truck-Mounted S. Loranty SHEET: 1 OF 1 INSTALLATION DATE: 26 May 1994 INSPECTOR: M. Corrigan Survey Stickup above ground Datum \_ surface of protective casing. 2.5 ft. Stickup above ground surface of riser pipe. Ground 2.0 ft. Elevation: Thickness of Surface Seal 2.5 ft. U -CEMENT GROUT-Type of Surface Seal Cement Grout M [indicated all seals showing depth. М thickness and type] A 1.5 ft. R Ιn Type of Protective Casing Anodized Zinc -GLACIO-Zο E t LACUSTRINE--BENTONITE Inside Diameter of Protective Casing 6.0 in. PELLETS-S t Depth of Bottom of Protective Casing 1.0 ft. 0 0 I Inside Diameter of Riser Pipe 4.0 in. e J c 2.5 ft. Type of Backfill Around Riser Bentonite Fellets Са 0 1 Diameter of Borehole 10.0 in. +/-Νe D I 10.0 ft. Type of coupling (threaded, welded, etc.) Threaded T I Depth of Bottom of Riser 3.9 £t. -CUARTZ a SAND-N Slotted PVC Type of Wellscreen 8 -GLACIAL Screen Slot Size 0.010 in. TILL-Diameter of Wellscreen 4.0 in. Type of Backfill Around Wellscreen Quartz Sand Depth of Bottom of Wellscreen 11.9 ft. 12.5 ft. 12.5 fc. 12.5 ft. Depth of Bottom of Borehole Remarks: Well No. MW201-S

### HAA OF NEW YORK CONSULTING GEOTECHNICAL ENGINEERS GEOLOGISTS AND HYDROGEOLOGISTS

#### BEDROCK MONITORING WELL REPORT

PROJECT:

ENARC-O MACHINE PRODUCTS RI/FS

LOCATION:

HONEOYE FALLS. NEW YORK

CLIENT:

KADDIS MANUFACTURING CORP.

CONTRACTOR:

NOTHNAGLE DRILLING CO.

DRILLER:

Remarks:

S. Loranty

RIG TYPE: CME-75, Truck-Mounted

SHEET:

FILE NO.:

WELL NO. :

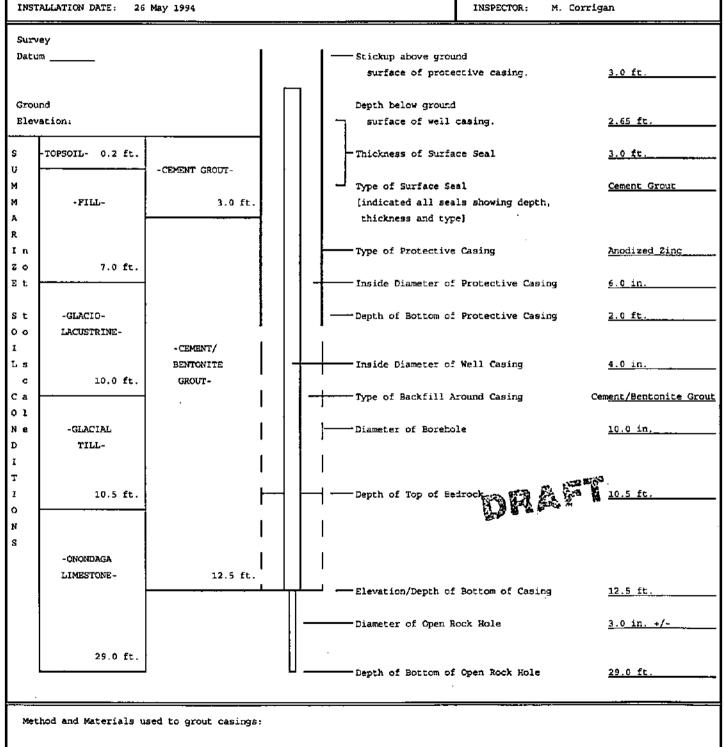
LOCATION:

1 OF 1

Well No. MW201-D

70372-44

MW201-D



### HAA OF NEW YORK CONSULTING GEOTECHNICAL ENGINEERS GEOLOGISTS AND HYDROGEOLOGISTS

#### BEDROCK MONITORING WELL REPORT

PROJECT:

ENARC-O MACHINE PRODUCTS RI/FS

LOCATION: CLIENT:

HONECYE FALLS, NEW YORK KADDIS MANUFACTURING CORP.

CONTRACTOR:

NOTHNAGLE DRILLING CO.

DRILLER:

Remarks:

INSTALLATION DATE:

S. Loranty

SHEET:

1 OF 1

70372-44

MW-202

26 May 1994

RIG TYPE: CME-75, Truck-Mounted

INSPECTOR:

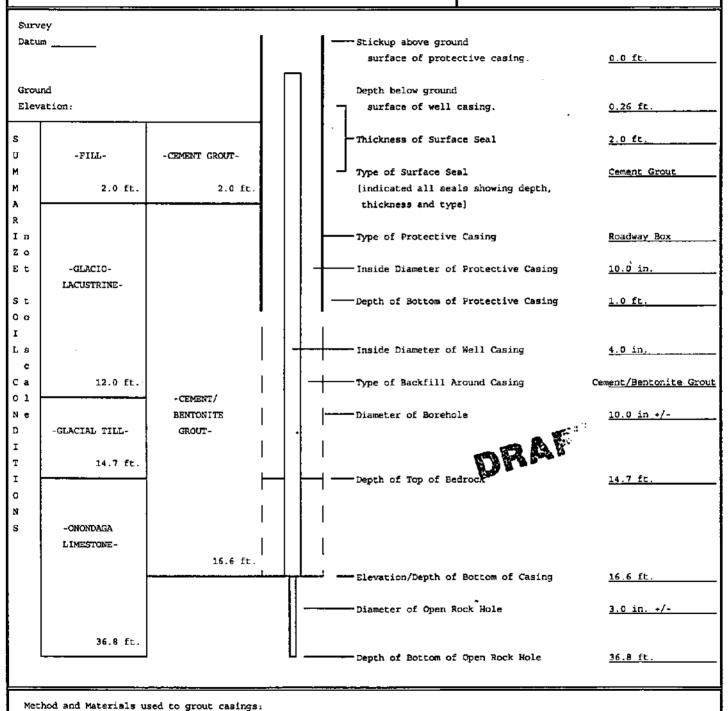
FILE NO.:

WELL NO.:

LOCATION:

M. Corrigan

Well No. MW-202

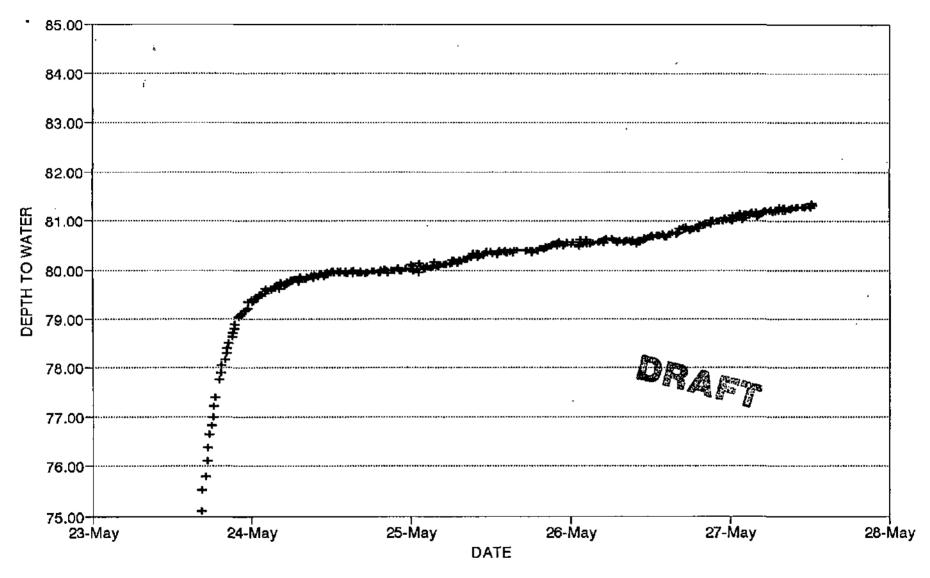


Appendix D

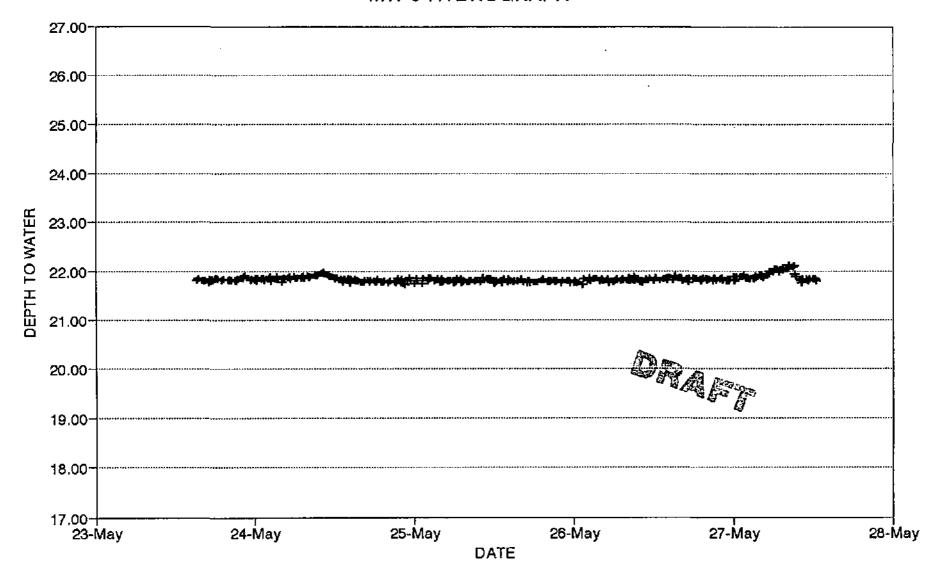
### APPENDIX D

Groundwater and Stream Level Measurement Data

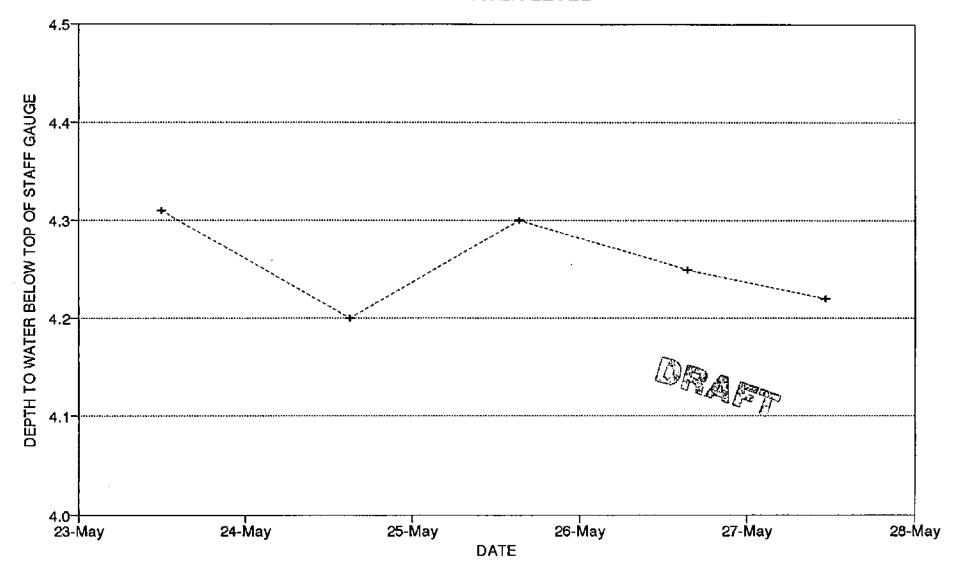
# ENARC-O MACHINE PRODUCTS SUPPLY WELL HYDROGRAPH



## ENARC-O MACHINE PRODUCTS MW-3 HYDROGRAPH



# ENARC-O MACHINE PRODUCTS STREAM WATER LEVEL



\* MGB-QPROS M:\QPROS\70372\STREAM.WQ2:STREAM

