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Geotechnical Engineers &

Environmenta Consultants QUARTERLY PROGRESS REPORT NO. 3 2 SEPTEMBER TO 2 DECEMBER, 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 December 1994



H&AOFNEW YORK



9 December 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. 3

Enarc-O Machine Products, Inc. RI/FS

Dear Mr. Iannucci:

H&A has prepared the attached Quarterly Report No. 3 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 during the last quarter. H&A's work has been performed in accordance with the Work Plan for the project, dated 30 December 1993.

Briefly, work performed during the quarter on the project includes: 1) on-site monitoring well sampling; 2) residential well evaluation and preparation for geophysical logging/sampling events; 3) assessment of the number of and material contained in the drums staged on-site; 4) laboratory analysis of on-site groundwater samples; 5) monitoring of water levels in on-site monitoring wells and Honeoye Creek; and 6) a meeting attended by representatives from Kaddis Manufacturing, NYSDEC and H&A of New York.

Details on these tasks and preliminary results of laboratory analyses are included in the Progress Report. Copies of this report have been forwarded to NYSDEC (see below) as required by the Consent Order.

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

Sincerely yours,

H&A OF NEW YORK

Mahoney

Robert J. Mahoney

Senior Env. Geologist

Vincent B. Dick Vice President

A. Joseph White, Div. Haz. Waste Remed., NYSDEC (4 copies, one unbound)

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

189 North Water Street Rochester, NY 14604-1151 Tel: 716/232-7386 Fax: 716/232-6768

Offices Cambridge, Massachusetts Denver, Colorado Glastonbury, Connecticut Scarborough, Maine Silver Spring, Maryland Bedford, New Hampshire Cleveland, Ohio

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2	Residence Well Location Plan
3	Site Plan
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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 third quarterly progress report 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 2 September through 2 December 1994.



II. ACTIONS TAKEN

Project activities conducted during the reporting period consisted of:

- assembly and tabulation of historic and recent analytical data;
- assessment of the soil and water generated during this and previous investigation phases and staged in drams on-site;
- quarterly on-site monitoring well sampling;
- off-site residential well evaluation and preparation for geophysical logging and sampling;
- water level measurement in Honeoye Creek and on-site monitoring wells;
- meeting at H&A of New York's office with NYSDEC, H&A and Kaddis Manufacturing.;
 and
- analytical data validation.

Each of these tasks is discussed below.

Analytical Data



H&A tabulated available historical and recent analytical data for both groundwater and soil on- and of-site. This data is presented in Tables 1 and 2.

Drum Assessment

H&A inventoried the amount and contents of drums of investigation-derived waste (IDW) stored onsite, in order to evaluate the cost of removal and disposal of the drummed material.

There are presently 70 drums of IDW in the staging area. There are 15 drums containing water and 55 drums of soil (drill cuttings). An evaluation of removal and disposal methods and contractors has been initiated.

On-site Monitoring Well Sampling

H&A conducted the second quarterly groundwater sampling of all on-site monitoring wells (except MW-201S, which was dry) on 2 November 1994 (see well locations on Figure 3). Samples were analyzed according to NYSDEC Method 91-1 Analytical Services Protocol. Results of the analyses are presented in Appendix A.



Off-site Residential Well Evaluation/Preparation

H&A has continued to evaluate residential wells to determine the feasibility of using these wells in the off-site residential well sampling program. H&A has conducted a review of existing data, including NYSDEC and LCHD Water Well Survey forms and driller's logs from selected wells, as well as contacted residents by phone and conducted visual inspections of the wells on their property.

NYSDEC comments on H&A's 12 August 1994 letter required H&A to locate additional downgradient residential wells immediately north of the Enarc-O facility. H&A located two additional wells at 7873 and 7880 Martin Road, using a subsurface metal detector, and proposed a final list of residential wells to be sampled in a 10 October 1994 letter to NYSDEC. Based on verbal approval by Mr. Gardiner Cross of this letter by NYSDEC, a final list of residential wells to be sampled was created (see Table 3 and Figure 2).

Pumps were then removed by Nothnagle Drilling Company Inc. as required. The pumps and water lines have been stored on the homeowner's property. All residential wells on the sampling list are ready for geophysical logging and/or sampling.

Arrangements are presently underway to 1) conduct geophysical logging on five of the domestic wells, in accordance with NYSDEC's 29 August letter, and 2) have the listed wells surveyed by a licensed surveyor for groundwater level measuring reference point elevations (See Figure 2). The geophysical logging had been scheduled for November 1994, however equipment malfunctions have necessitated the geophysical subcontractor to postpone the work to a later date, to be determined.

Stream and Groundwater Level Monitoring

A stream staff gauge was installed previously on the Honeoye Creek streambank to provide a fixed reference point from which to measure stream water levels. Water levels in the monitoring wells and Honeoye Creek were measured periodically during this quarter. Hydrographs depicting groundwater and stream level elevations over time are presented in Appendix B.

Meeting

A meeting was held at H&A of New York on 26 October 1994, attended by the following personnel:

- Vincent Dick, Robert Mahoney, Michael Beikirch, David Edwards H&A
- Gardiner Cross, Martin Doyle NYSDEC
- Ronald Iannucci, Sr. Kaddis Manufacturing

Discussions included, but were not limited to, the following:

- potential problems with regard to data generated from a pump test conducted in the fractured rock setting at the site;
- substituting the pump test with slug tests conducted on selected residential wells; and
- postponing the pump test until the feasibility study phase of the project.



H&A summarized these concerns, and presented a formal request regarding postponement of the hydrogeologic testing until the feasibility study, in a letter to NYSDEC dated 14 November 1994. NYSDEC (Gardiner Cross) responded via telephone that pump test postponement would be allowed.

Data Validation

Data validation procedures performed as part of the Enarco Machine Products Remedial Investigation included the evaluation of each round of soil and groundwater sampling and analysis conducted. The evaluation included the review of each analytical data report and Chain of Custody (COC) record for compliance with regard to: 1) sample holding time requirements; 2) surrogate compound recoveries; 3) internal standard recoveries; and 4) method-specific quality control and quality assurance sample analyses. The data validation was performed with guidance provided from the "Functional Guidelines For Evaluating Organic and Inorganic Analyses", USEPA 1988.

Quality Assurance and Quality Control (QA/QC) analyses performed as part of the remedial investigation included field trip blanks (volatiles only), field duplicate samples, matrix spike and matrix spike duplicate analyses, laboratory control and method blank sample analysis. QA/QC samples were analyzed concurrently with project samples for each target analyte of the prescribed analytical methodology to assess the precision and accuracy of the field and laboratory procedures performed during the investigation.

The following observations were made relative to the QA/QC analyses performed.

- Holding time for the preparation and analysis of each project sample meet NYSDEC ASP method-specific requirements, without exception.
- Given the concentrations of the target compounds detected in each sample aliquot, the
 calculated precision and variability is acceptable and indicative of representative
 environmental samples.
- The recovery of each MS/MSD analyte falls within laboratory-specific quality control limits without exception. The data indicates the analyses were accurate and the results are representative of site conditions.
- Surrogate compound recoveries for organic analyses are within laboratory-specific quality control limits without exception.
- Target analytes were not detected above the practical quantitation limit (PQL) in laboratory method blank samples.

In summary, the QA/QC sample analyses performed as part of the Enarco Machine Products Remedial Investigation meet or exceed the accepted precision and accuracy requirements of high quality environmental analysis data. The field and laboratory QA/QC analyses performed indicate the data presented for the analysis of soil and groundwater is representative of site conditions at the time of sample collection.



Fish and Wildlife Impact Analysis

A draft copy of the Fish and Wildlife Impact Analysis report prepared by TPC Consulting for the site is included in Appendix C. Field work for this task was performed during the previous quarter.

The report identifies resources subject to possible evaluation subsequent to completion of the remaining field work (i.e. residential well sampling, etc.). The primary conclusions of the report are as follows:

- No significant habitats or habitats supporting endangered, threatened or rare species are present within a two-mile radius of the site.
- Honeoye Creek in the vicinity of the site is designated as a Class B stream by NYSDEC, indicating it is suitable for primary contact recreation such as swimming and wading. The creek appears also to be suitable for light fishing, in some of the deeper holes.
- The report presents a complete listing of possible floral and faunal communities in the study area.



III. <u>DELIVERABLES</u>

In accordance with the consent order requirements, Quarterly Report No. 2, for the reporting period 3 June to 2 September 1994, was mailed to NYSDEC and the consent order mailing list parties on 9 September 1994. No other deliverables were warranted during this quarter.



IV. FUTURE ACTIVITIES

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

- geophysical logging of off-site residential wells;
- residential well sampling (first quarter);
- hydrogeologic testing (pump test or alternate testing);
- additional stream gauge data collection; and
- survey of residential well elevations.

H&A will summarize results of the geophysical survey, and will provide proposed sampling intervals for each well based on the results, prior to initiating the sampling.

Upon completion of the field work and laboratory analyses, preparation of the RI report will begin. Based on the anticipated completion date of the field work and other tasks, completion of the RI report is expected to occur in the second quarter of 1995.

In addition, the following activities will be initiated during the next quarter:

- Environmental Risk Assessment (resource hazard evaluation);
- Health Risk Assessment;
- Focused IRM Feasibility Evaluation; and
- Additional Quarterly Sampling.



V. WORK SCHEDULE AND PERCENT COMPLETION

A project schedule and list of work tasks is shown in Figure 4. The following 12 work tasks as described in the work plan have been completed:

- site survey and base map preparation;
- on-site monitoring well installations;
- source area soil vapor study;
- delineation phase soil vapor study;
- stream staff gauge installation;
- off-site residential soil sampling;
- Enarc-O septic tank sampling;
- first two quarterly on-site monitoring well sampling events;
- on-site well permeability testing (rising head tests);
- ecological site evaluation portion of the environmental risk assessment;
- residential well field evaluation; and
- residential well preparation, including pump-pulling.

H&A estimates that the Remedial Investigation is more than half done, with approximately 12 of 21 estimated tasks completed (see Figure 4).



VI. WORK PLAN MODIFICATION

Modification to the work plan during this quarter consisted of additional data collection from the residential water wells. Due to a lack of available well construction data, NYSDEC has required downhole geophysical logging in five of the residential wells to evaluate well construction and hydrogeologic characterization of the bedrock for sampling depth(s) determination. NYSDEC suggested the additional data collection in a response letter sent to H&A on 29 August 1994.

H&A has since arranged for Gartner Lee, Inc. of Niagara Falls to conduct the geophysical logging, which should be completed early next quarter.



VII. CITIZEN PARTICIPATION PLAN ACTIVITIES

No Citizen Participation Plan activities (i.e. public meetings) were scheduled or conducted during the past quarter. None are currently scheduled for the next quarter.

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Tables

ENARC-O MACHINE PRODUCTS LIMA, NEW YORK SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER

PG. 1 OF 3

OFF - SITE

				DETECTED COMPOUNDS - CONCENTRATION IN PARTS PER BILLION (PPB)														
ADDRESS	RESIDENT	SAMPLED	DATE		1,1,1-	cis-	trans-	1,2-	1,1-	1,1-			CHLORO-		1,1,2,2-	CARB.	VINYL	TOTA
		FROM		TCE	TÇA	1,2-DCE	1,2-DCE	DCA	DCE	DCA	MeCl2	PERC	FORM	BDCM	TCA	TET,	CHLORIDE	VOC
MARTIN RD.																		
7744	MILLER	WELL	10/31/85												_			
7750	CHAS, SWANGER	WELL	08/07/85													_		1
7750	CHAS, SWANGER	WELL	01/25/94													_		
7783	FESSLER	WELL	09/26/85								_							
7787	HARRY BUSH	WELL	08/07/85											_				
7796	SLADE	WELL	09/26/85					_			-			_				
7801	O'BRIEN	WELL	10/31/85			~					-			_				
7808	GHOSTLAW	WELL	09/26/85					_			-							Ì
7820	JOHNSON	WELL	07/24/85	31		4					-		-					:
7829	NEVERETT	WELL	10/31/85	2		~~		-						_				
7838	SAUNDERS	WELL	08/07/85	22		4			-	_								:
7852	HOPKINS	. WELL	07/01/85	80	1	4						_						
7859	BOONSTRA	WELL	07/01/85	20		4												
7865	CAVALIER	WELL	07/01/85	22	1	2												
7873	YEARS, FL.	WELL	07/01/85	72	1	19									_			
7873	YEARS, R.	SUMP	03/11/91					_					_					
7873	YEARS, R.	SUMP	06/14/91					_				-						
7873	YEARS, R.	SUMP	03/03/92			-		_				_			_		_	
7873	YEARS, R.	SUMP	01/25/94	_				_			-		1					
7880	ROGERS, L.	WELL	06/19/85	260		75				_		_					-	a
7880	ROGERS, L.	WELL.	07/01/85	197	2	43		2			_					-	_	2
7883	GARVEY	WELL	06/19/85	290	8	75							_					3
7883	GARVEY	WELL	07/01/85	318	3	89		2		_							_	4
7883	GARVEY	ŞUMP	06/14/91	118	4	30						1	_					1,
7883	GARVEY	SUMP	01/15/92	87	3	65						1	8	3		_	-	11
7883	GARVEY	SUMP	03/03/92	76	2	28		0.5		-		0.7	10	2				119
7883	GARVEY	SUMP	04/19/93	22	2.4	4.7							2.5					31
7883	GARVEY	SUMP	08/12/93	56	2	5	_	0.5			0.5	1	. 5	****			_	
7883	GARVEY	SUMP	01/25/94	26	2.5	8.7	_						4.7			_		41
7886	VELLEKOOP	WELL	06/19/85	110	8	41				_								1!
7886	VELLEKOOP	WELL	07/01/85	92	8	16												1.

See notes on pg. 3

ENARC-O MACHINE PRODUCTS LIMA, NEW YORK

SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER

PG. 2 OF 3

OFF - SITE

				DETECTED COMPOUNDS - CONCENTRATION IN PARTS PER BILLION (PPB)														
ADDRESS	RESIDENT	SAMPLED	DATE		1,1,1-	cis-	trans-	1,2-	1,1-	1,1-			CHLORO-		1,1,2,2-	CARB.	VINYL	TOTAL
		FROM		TCE	TCA	1,2-DCE	1,2-DCE_	DCA	DCE	DCA	MeCl2	PERC	FORM	BDCM	TCA	TET.	CHLORIDE	VOCs
												•						
1167	SMITH	WELL	08/19/85	77	1	21		2							-			101
1167	SMITH	WELL	07/01/85	98	1	17		_		_	_				_			116
	ENARC-O	SUPP WEL	01/18/84	0.8	120													120.6
1175	ENARC-O	SUPP WEL	05/08/84	4	8.1	_			_						_			10.1
1175	ENARC-O	SUPP WEL	09/06/84	2	5		_							_	=-4			7
1175	ENARC-O	SUPP WEL	03/22/85	1800	370			_										2170
1175	ENARC-O	SUPP WEL	06/19/85		560		-					68		_	100			728
	ENARC-0	SUPP WEL	07/01/85	8	22	4							_					34
	ED TONDRYK	WELL	06/19/85	4		-		_			-							4
	ED TONDRYK	WELL	07/01/85	3						_								3
	HORAN	WELL	07/24/85											_			<u></u>	
IDESON RD.																		0
	MARY MILLER	WELL	07/24/85											_				0
	COLAVITO	WELL	08/07/85	2	_			-			_			_				2
	CHAMBERS	WELL	09/26/85					.—										٥
	ENDICOTT	WELL	08/07/85		_			_	_	Manual						_		1 0
	HART	WELL	07/24/85	19	1	5				1					_			26
	WM. MALOY	WELL	08/07/85	8		1								_	_			9
	PETER COOPER	WELL	07/24/85	24	1	8		_		1								34
	JOHNSON	WELL	07/24/85	19		3	_		_					-	_			22
	LOUISE SACKETT	WELL	08/07/85	29	1	5		_			_				_	_		35
	REANO	WELL.	08/07/85	46	5	8		_			-				_			56
	FREEDMAN	WELL	07/24/85	49	1	8		-			_				_			58
•	SHELMAN	WELL	08/07/85	-	_		_	_							_			0
1155	TOMPKINS	WELL	08/07/85	11	2	3												16
ONTARIO ST.																		0
	WM. STINSON	WELL	09/26/85				-	-			-				_			o o
		DEEP WELL	01/25/94			-										_	_	0
		SHAL WELL	01/25/94												_			0
	MANTEGNA	WELL	08/07/85								-		m•r					0
	GEORGE	WELL	08/07/85						-							_		0
	WAGNER	WELL	07/24/85															0
BEAN HILL RD.									-									0
9644	SELTZER	WELL	07/24/85	-														0

See notes on pg. 3

TABLET

ENARC-O MACHINE PRODUCTS LIMA, NEW YORK

SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER

ON - SITE

PG. 3 OF 3

	1		DETECTED COMPOUNDS - CONCENTRATION IN PARTS PER BILLION (PPB)								,,						
DATE	MONITORING	SAMPLED BY	-	1,1,1~	cis-	trans-	1,2~	1,1-	1,1-		-	CHLORO-		1,1,2,2-	CARB.	VINYL	TOT
j	WELL NO.		TCE	TCA	1,2-DCE	1,2-DCE	DCA	DCE	DCA	MeCl2	PERC	FORM	BDCM	TCA	TET.	CHLORIDE	VO
01/07/91	MW-1	OBG:	3								_				1		
01/07/91		CDM-FPC	4		_			_				1					1
02/25/81		OBG	4				~	_					_			· –	1
02/25/91		CDM-FPC	4								_			_	_	. <u></u>	
07/14/94		H&A	3J										_		_	. <u>-</u>	}
11/02/94		H&A														· .]
01/08/91	MW-2	OBG	3900												_		39
02/26/91	1	OBG	3400		_		*									. –	34
07/14/94	l	M&A	1400							_						. —	14
11/02/94		H&A	420E	6 J	29			_									4
11/02/94	(dilution)	H&A	500		31			_									
01/07/91	MW-3	CDM-FPC	7900	990	130		1	28	27		150	2					9:
01/07/91		OBG	5600	470	•		~-	_	_ _		_					· –	6
02/25/91		CDM-FPC	3800	370	70			9	11	_	75						4
02/25/91	i	OBG	5300	420													5
07/14/94		H&A	1100	130	-						17						1
11/02/94		A&H	2700E	-~	51J					13J	23J						2
11/02/94	(dilution)	H&A	3200D	260D	58			_			28DJ	_					3:
01/08/91	MW-4	OBG	60	11	14												
02/25/91		OBG	69	17	16						2				_		ļ
07/14/94		H&A	10	28											_		į
11/02/94	İ	H&A	15	15						2 J							i
01/08/91	MW-5	CDM-FPC	260	18	170	_		2	1		1						
02/26/91		CDM-FPC	310	10	90						_						١.
01/08/91		OBG	240	12	160			_				_				<u> </u>	
02/26/91		OBG	310	8	100	_							_				
07/14/94		A&H	510		58		-		_								
11/02/94		H&A	900E	55	72		5J										1 1
11/02/94	(dilution)	H&A	11000	63DJ	83DJ												1
01/07/91	MW-6	OBG	1												3		┢
02/25/91		OBG															
07/14/94	-	H&A		_		- -											1
11/02/84		H&A														-	ļ
07/14/94	MW-201D	H&A	7400		1100		40.0										8
11/02/94		H&A	4000	100J	830						61 J						4
07/14/94	MW-202	H&A	15		11										<u></u>		
11/02/94	17477-242	H&A	25	_	45	3 J											
11102184 <u>)</u> TES:	<u>-</u>	T TOTAL	J													7.0	

NOTES:

- 1. "-- indicates analyte not detected or not analyzed for.
- 2. Compound abbreviations; TCE: Trichloroethene; TCA: Trichloroethene; DCA: Dichloroethene; DCA: Dichloroethene; McCl2: Methylene chloride; PERC: Perchloroethene; BDCM: Bromodichloromethana; TCA; Trichloroethene; TCE: Trichloroethene; CARB. TET.: Carbon Tetrachloride; VOCs: Volatile Organic Compounds.
- 3. OBG = O'Brien & Gere
- CDM-FPC = CDM Federal Programs Corporation
- 4, Modifiers for detected values: J: Estimated value, below quantitation limit; D: Diluted Sample; E: Exceeds calibration range of instrument.
- 5. J-values not included in Total VOC column values.

TABLE 2 ENARC-O MACHINE PRODUCTS LIMA, NEW YORK

SUMMARY OF ANALYTICAL RESULTS - SOIL

					-	CC	MPOUN	DS DETEC	TED - C	ONCENTRAT	TIONS IN F	ARTS PER	BILLION					
EXPLORATION	DEPTH	DATE	SAMPLED		1,1,1-	1,2-	1,2-	1,1-	1,1-	•		CHLORO-	ETHYL-		1,1,2-	5-		TOTAL
LOCATION	(ft.)		BY	TCE	TCA	DCE	DCA	DCE	DCA	ACETONE	PERC	FORM	BENZENE	XYLENE	TÇA	BUTANONE	TOL.	VOCs
B-1	4-6	11/29/90	OBG		_			_						4700			210	4910
B~t	68	11/29/90	CDM-FPC			_				_		100	690	12000	_			12790
B-1	5 –8	11/29/90	ОВС	_						_	_				_			0
B-2	6–8	11/29/90	OBG															0
B-2	10-11	11/29/90	OBG	1200		200		_			30				_			1430
B-3	2-4	11/28/90	OBG	1700	860	480		76	_		490				_		29	3835
B-3	4-6	11/28/90	OBG	74	_	150			_					_				224
B-3	4-6	11/28/90	CDM-FPC	490	100	89					100	_			3	_		782
B-3	6-8	11/28/90	OBG	81		24					24					_		129
8-4	8-10	11/29/90	CDM-FPC	880	21	630			9		5			·				1545
8-4	8-8	11/29/90	OBG			-					13					_		13
B-4	8-10	11/29/90	OBG	1400	41	900			16		_						_	2357
B-5A	4-6	11/27/90	OBG															0
B-5A	12-14	11/27/90	OBG		_				_	_	_					_	_	0
B-5B	0-2	11/28/90	OBG					_				_						0
B-5B	2-4	11/28/90	OBG		_				_						_			0
8-5B	2-4	11/28/90	CDM-FPC	4		0.8				_	-				-			4.B
B-5C	6-8	11/27/90	OBG								_						:	0
B-5C	14-16	11/27/90	OBG															0
B-5D	0-2	11/27/90	OBG			-										_	_	0
B-5D	10-12	11/27/90	OBG									_					_	0
B-5E	12-14	11/28/90	OBG						 .									0
B- 6	4–6	11/26/90	OBG															0
B-6	6-8	11/26/90	OBG		— ,							_				_	_	0
INTERIOR SAMPLES																		
SS101	3.3-4.3	05/09/94	H&A	190	45		-	4	_		2	_						241
SS102	3.3-4.3	05/09/94	H&A	1500	670	8	27	130	83		59	_						2477
S\$105	3.3-4.3	05/09/94	H&A	200	71			5	_					_	_			276
SS107	3.3-4.3	05/09/94	H&A	160	29	52									-			241
OFFSITE SAMPLES			· · · -		_								_					
881	0.5	05/31/94	H&A											_				0
SS2	0.5	05/31/94	A&H				_	-										0
\$\$3	0.5	05/31/94	H&A													-		0
SS4	0.5	05/31/94	H&A															0
SEPTIC TANK		05/31/94	H&A				 -			14000						13000	14000	139000

NOTES:

- 1. "--" indicates analyte not detected or not analyzed for.
- 2. Compound abbreviations: TCE: Trichloroethene; TCA: Trichloroethane; DCE: Dichloroethene; DCA: Dichloroethane; PERC: Perchloroethene; TOL: Toluene; VOCs: Volatile Organic Compounds.
- 3. OBG O'Brien & Gere

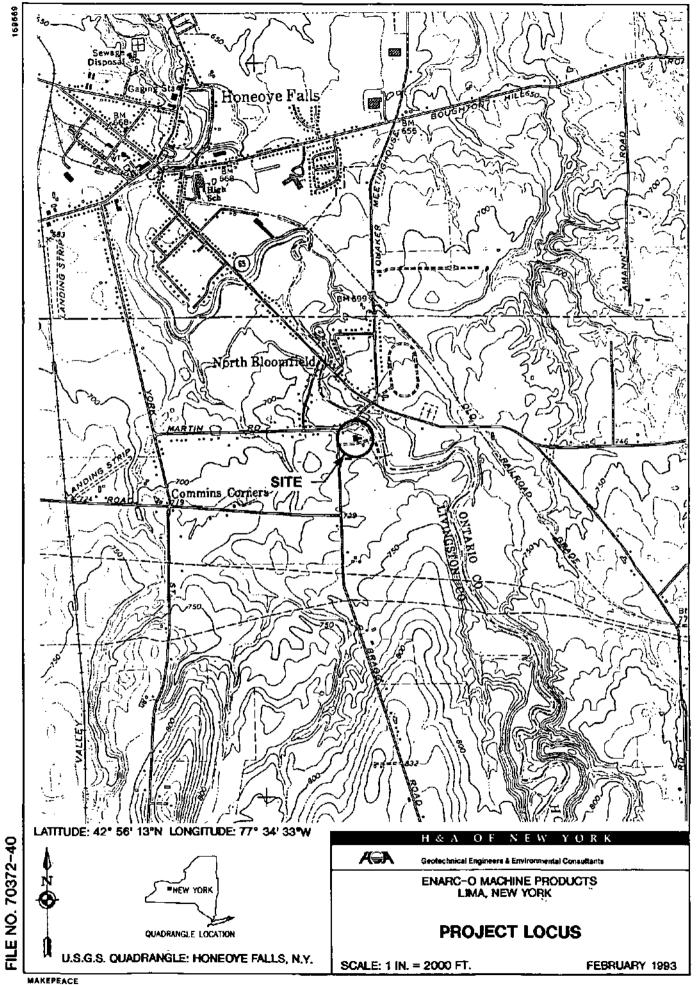
CDM-FPC= CDM Federal Programs Corporation

TABLE 3 ENARC-O MACHINE PRODUCTS, INC. LIMA, NEW YORK FINALIZED LIST OF RESIDENTIAL WELLS FOR SAMPLING

		WELL	PUMP	TOTAL	DEPTH TO	
ADDRESS	OWNER	IN USE	PRESENT	DEPTH(FT.)	WATER (FT.)	REMARKS
MARTIN RD.						
7750	CHAS. SWANGER	Υ	Y	89		WATER LEVEL MONITORING ONLY
7820	LEO JOHNSON	N	N N	125	72	WELL IS CLEAR, READY FOR SAMPLING/LOGGING
7852	ALLEN HOPKINS	N	N	140	25	WELL IS CLEAR, READY FOR SAMPLING
7873	RON YEARS	N	N		58	WELL IS CLEAR, READY FOR SAMPLING/LOGGING
7880	CATHY VILLARD	N	N		., .,	WELL IS CLEAR, READY FOR SAMPLING
BRAGG ST					(A.2000)	
1167	WILDMAN/HICKLING	N	N	130	84	WELL IS CLEAR, READY FOR SAMPLING
1175	ENARC-O PRODUCTS	N	N	130	73	WELL IS CLEAR, READY FOR SAMPLING/LOGGING
1191	EDWARD TONDRYK	N	N	77	25	WELL IS CLEAR, READY FOR SAMPLING
IDESON RD.					10.27/49992	
1081	MARY MILLER	N	N	82		WELL IS CLEAR, READY FOR SAMPLING/LOGGING
1090	MICHAEL COLAVITO	N	N	122	60	WELL IS CLEAR, READY FOR SAMPLING
1116	WILLIAM MALOY	N . A.	N	125	A COURT OF THE PROPERTY OF THE	WELL IS CLEAR, READY FOR SAMPLING
,1121	PETER COOPER	N. S.	N	125	54	WELL IS CLEAR READY FOR SAMPLING/LOGGING
1146	ROWLAND REANO	N	N	130	l	WELL IS CLEAR, READY FOR SAMPLING

REVISED 12/05/94

Figures



ENARC-O MACHINE PRODUCTS, INC. LIMA, NEW YORK REMEDIAL INVESTIGATION QUARTERLY REPORT NO.3 PROJECT SCHEDULE

(revised 12/7/94)

<u></u>	MARCII	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY
TASK	MONTII I	MONTII 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8	MONTH 9	MONTII 10	MONTH II	MONTH 12
1. WORK PLAN APPROVAL/PUBLIC MTG. COMPLETION	COI	plete	[] [111	11		111			111	111	111
2. WELL DATA SURVEY					4				complete]]]	
3. RE-SURVEY, BASE MAP PREPARATION					confpleib	1			111	111		1 1 1
4. GEOPHYSICAL LOGGING			[]		1							
5. WELL SAMPLING/ANALYSIS ON-SITE	1 1		1 1 1	111					1 1			
6. WELL SAMPLING/ANALYSIS OFF-SITE		1 1		111					1 1			
7. SOIL GAS SURVEYS			соп	plete		[] [111	111				
8. MONITORING WELL INSTALLATION]]]			complete	111	111	111]	1 1 1] []	
9. NEW WELLS SAMPLE/ANALYSIS												
IO. HYDROGEOLOGIC TESTING				complets								
II. STREAM GAUGE INSTALL./MEASUREMENT						1	1 1				111	111
12. SEPTIC TANK/OFF-SITE SURFACE SOIL SAMPLING		1 1		conplete	1 1.1				1 1		111	1 1
13. ENVIRON. & HEALTH RISK ASSESSMENTS						Flate Work						1
14. DATA REDUCTION/VALIDATION		111			111]		111	1 1 1	111
IS. RI REPORT PREP./SUBMITTAL										1 1		
16. AGENCY REVIEW/COMMENT/APPROVE								111				
17. IRM/FOCUSSED FS EVALUATION		1 1		111			111				111	111
18. AGENCY REVIEW/COMMENT/APPROVE							III		1	1		
19. FULL FS PREP			1 1 1				111			111		
20. AGENCY REVIEW/COMMENT	1 1	111	1 1									111
21. FINAL FS/APPROVE			1 1 1			111						
22. QUARTERLY SAMPLING/ANALYSIS												
23. RECORD OF DECISION	1 1 1						111		1 1 1			

NYSDEC Notice-To Proceed

FIGURE 4

LEGEND:

ORIGINAL SCHEDULE



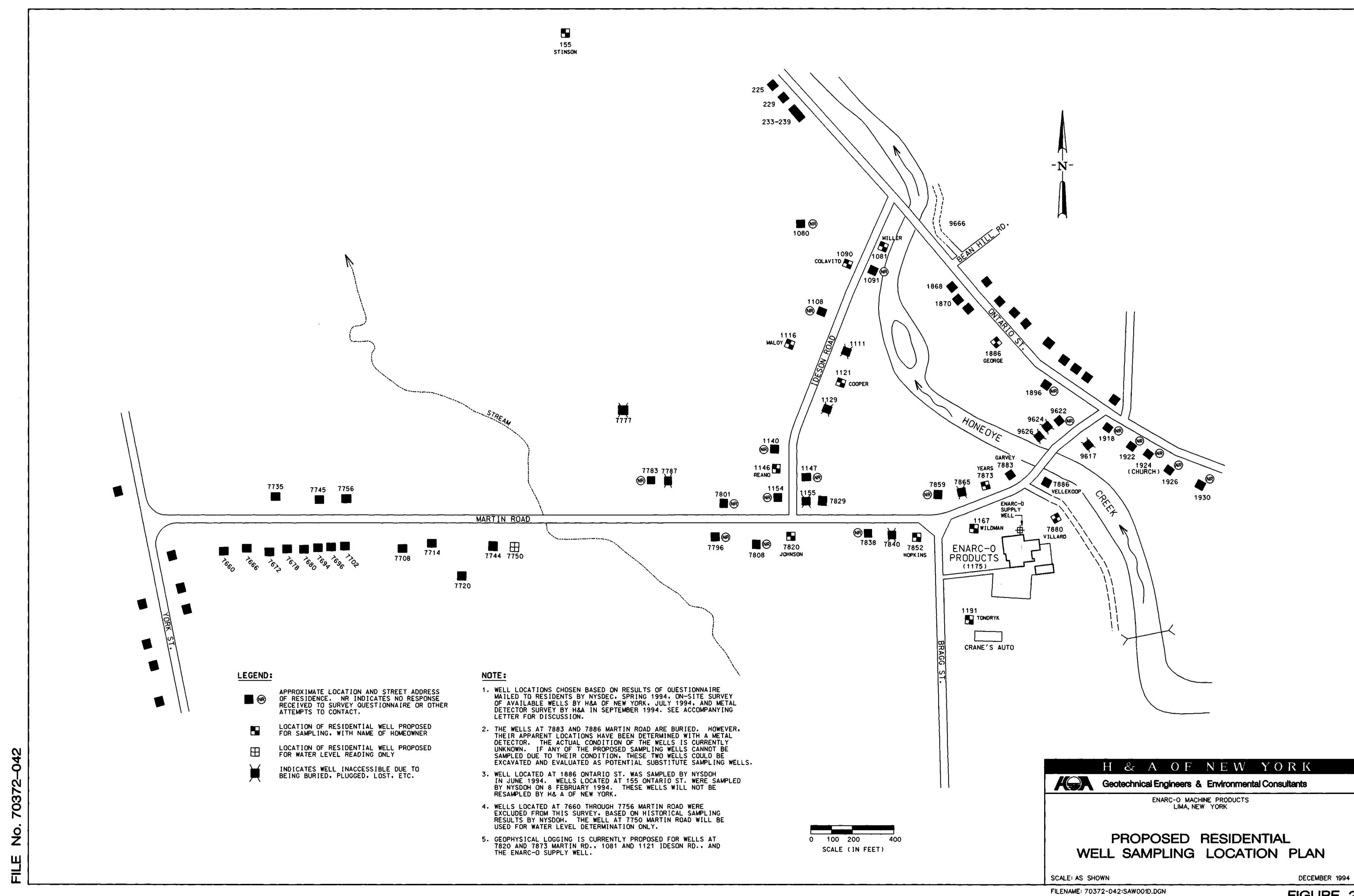
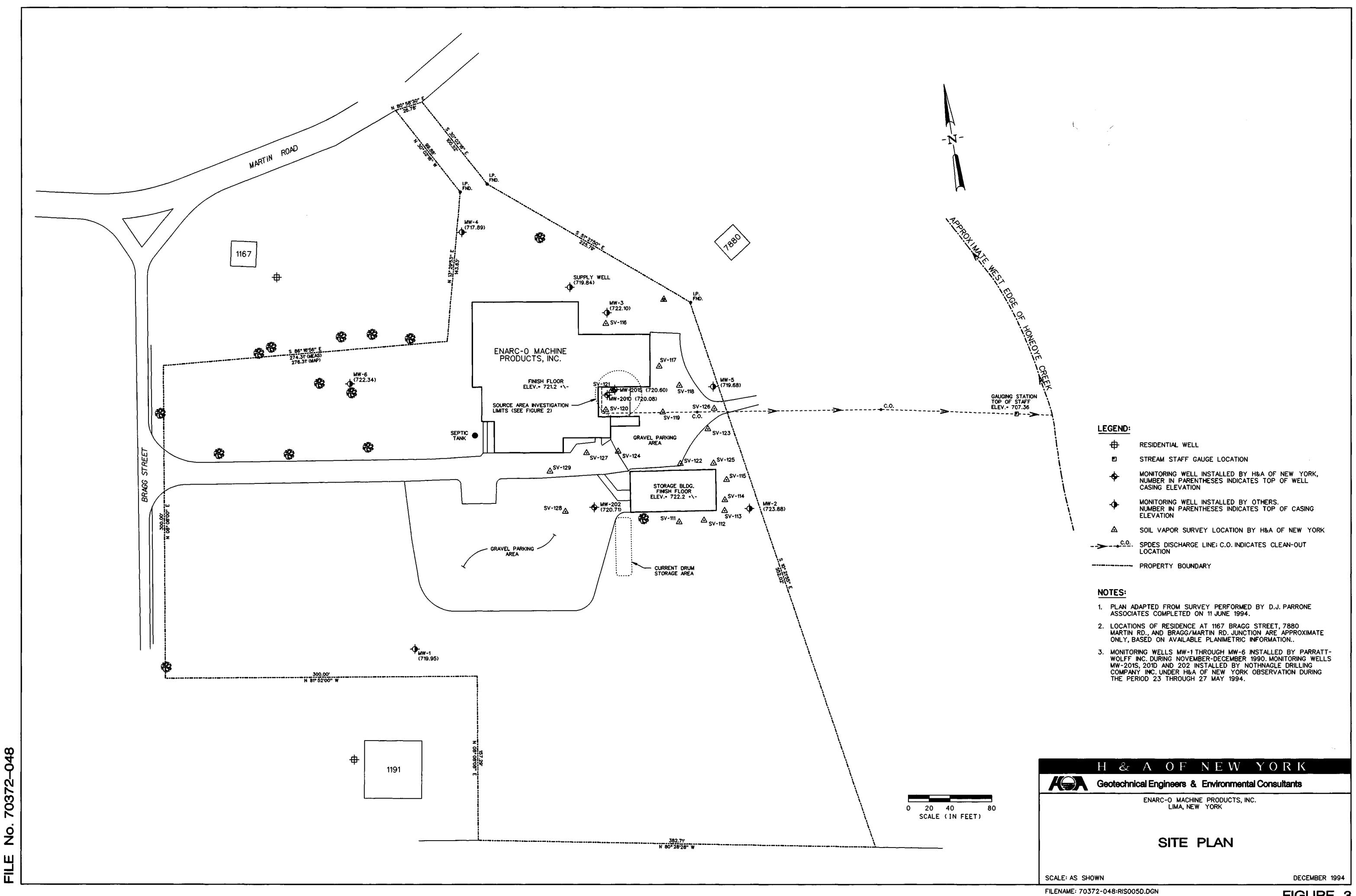


FIGURE 2



APPENDIX A

Analytical Data for Groundwater

On-site Monitoring Wells





Job #: R94/04290

SAMPLE DATA SUMMARY PACKAGE

SECTION A: NYSDEC Data Package Summary Forms

SECTION B: SDG Narrative

SECTION C: Sample Data

SECTION D: Surrogate Summary

SECTION E: MS/MSD Data

SECTION F: Blank Data

ORGANICS QUALIFIERS - 1991

- U Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result isless than the sample quantitation limit but creater than zero.
- N Indicates presumptive evidence of a compound. This flag is only used for tenatively identified compound, where the identification is based on a mass spectral library search.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the GC.MS instrument for that specific analysis.
- O This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- X As specified in Case Narrative.



Job #: R94/04290

SECTION A

NYSDEC Data Package Summary Forms

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer Sample	Laborator; Sample Code	Analytical Requirements* NYSDEC 1991 CLP PROTOCOL											
Code	code	*VO <u>A</u> GC/MS	*Bità GC/MS	*VOA GC	*PEST PCB	METALS	*OTHER						
HATB	R94/04290-1	X											
HW202D	R94/04290-2	X.	[i						
HW201D	R94/04290-3	7	-										
HW5	R94/04290-4	Ĭ,	!			-							
HADUP	R94/04290-5	, X			j		: :						
₩ 4	R94/04290-6	Ĭ.	-		 								
H#6	R94/04290-7	1	 	-									
YW2	R94/04290-8	X											
- MW1	R94/04290-9	7											
NW3	R94/04290-10	X.		-									
							į 1						
	!		i										
		İ											
							:						
	!		1				; ;						
	!	-					, ;						
					-								
	:						:						
!													
					-								

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SAMPLE PREPARATION AND ANALYSIS SUMMARY VOA ANALYSES

_					<u></u>	
	LABORATORY SAMPLE ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	MED LEVEL	DATË ANALYZED
	R94/04290-1	WATER	11/02/94	11/02/94	LOW	11/08/94
	R94/04290-2	WATER	11/02/94	11/02/94	LOW	11/09/94
	R94/04290-3	WATER	11/02/94	11/02/94	LOW	11/09/94
	R94/04290-4	WATER	11/02/94	11/02/94	LOW	11/09/94
	R94/04290-5	WATER	11/02/94	11/02/94	LOW	11/09/94
	R94/04290-6	WATER	11/02/94	11/02/94	LOW	11/09/94
	R94/04290-7	WATER	11/02/94	11/02/94	rom	11/08/94
	R94/04290-8	WATER	11/02/94	11/02/94	LOM	11/09/94
	R94/04290-9	WATER	11/02/94	11/02/94	rom	11/09/94
	R94/04290-10	WATER	11/02/94	11/02/94	LOW	11/09/94
_						
			- 			
1						
_						
	 NCF3					9/89

0000004

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY

ORGANIC ANALYSES

11	1			l 1	
SAMPLE ID	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILARY CLEAN UP	DIL/CONC FACTOR
R94/04290-1	WATER	91-1			1.0
R94/04290-2	WATER	91-1			1.0
R94/04290-3	WATER	91-1			25
R94/04290-4	WATER	91-1			2.0, 10
R94/04290-5	WATER	91-1			2.0, 10
R94/04290-6	WATER	91-1			1.0
R94/04290-7	WATER	91-1			1.0
R94/04290-8	WATER	91-1			1.0, 5.0
R94/04290-9	WATER	91-1			1.0
R94/04290-10	WATER	91-1			10, 20
					
NCF2	1		1		9/89



Job #: <u>R94/04290</u>

SECTION B

SDG NARRATIVE

CASE NARRATIVE

COMPANY: H & A of New York

Enarco Machine

JOB #: R94/04290 SDG#: HADUP

Volatile Organics

Water samples were analyzed for Target Compound List (TCL) volatile organics by Method 91-1 from the NYSDEC 1991 ASP. The following samples were analyzed with SDG# HADUP:

Client Sample ID	GTC Sample ID
HATB	R94/04290-1
MW202D	R94/04290-2
MW201D	R94/04290-3
MW5	R94/04290-4
MW5DL	R94/04290-4DL
HADUP	R94/04290-5
HADUPDL	R94/04290-5DL
MW4	R94/04290-6
MW6	R94/04290-7
MW2	R94/04290-8
MW2DL	R94/04290-8DL
MW1	R94/04290-9
MW3	R94/04290-10
MW3DL	R94/04290-10DL
VBLK1	METHOD BLANK
VBLK2	METHOD BLANK
VBLK1M\$	BLANK SPIKE
MW6MS	R94/04290-7M\$
MW6MSD	R94/04290-7MSD

All tuning criteria for BFB were within limits.

All Initial Calibration criteria were compliant.

All Continuing Calibration Check (CCC) criteria were compliant.

All surrogate compounds were within QC limits for recovery

All internal standard areas were within QC limits.

H & A page 2 of Case Narrative

All matrix spiking compounds were within limits for recovery in the MS/MSD of MW6 and VBLK1MS. All %RPD were within limits in the MS/MSD of MW6.

Samples MW-5, HANDUP, MW-2, and MW-3 were reaanalyzed at dilutions to bring target analytes within the calibration range of the method.

No other analytical or QC problems were encountered during the analysis of this SDG.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry Laboratory Director

11/29/94

Date



Job #:R94/04290

SECTION C

SAMPLE DATA

EPA SAMPLE NO.

Lab Name:GENERAL TESTING Contract:H & A

HADUP

ab Code:10145 Case No.: SAS No.:

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-5

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

Lab File ID: Q2256

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 2.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0 (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

T4-87-3			 ,
74-83-9Bromomethane	74-07-3	20	,,
75-01-4			
75-00-3			
75-09-2Methylene chloride			
107-64-1			
75-15-0			!
75-35-4		l ————————————————————————————————————	
T5-34-3			
156-60-5trans-1,2-Dichloroethene 20. U 107-66-3Chloroform 20. U 107-06-21,2-Dichloroethane 20. U 156-59-2] 	
67-66-3Chloroform 20. U 107-06-21,2-Dichloroethane 20. U 78-93-32-Butanone 20. U 156-59-21,1,1-Trichloroethane 46. 56-23-5Carbon tetrachloride 20. U 75-27-4			
107-06-21,2-Dichloroethane 20. 78-93-32-Butanone 20. 156-59-2cis-1,2-Dichloroethane 73. 71-55-61,1,1-Trichloroethane 46. 56-23-5Carbon tetrachloride 20. 75-27-4Bromodichloromethane 20. 78-87-51,2-Dichloropropane 20. 10061-01-5cis-1,3-Dichloropropene 20. 79-01-6Trichloroethane 850. 124-48-1Dibromochloromethane 20. 79-00-51,1,2-Trichloroethane 20. 71-43-2Benzene 20. 50061-02-6trans-1,3-Dichloropropene 20. 75-25-2Bromoform 20. 108-10-1			
78-93-32-Butanone 20. 156-59-2cis-1,2-Dichloroethene 73. 71-55-61,1,1-Trichloroethane 46. 56-23-5Bromodichloromethane 20. 75-27-4Bromodichloromethane 20. 78-87-51,2-Dichloropropane 20. 10061-01-5cis-1,3-Dichloropropene 20. 79-01-6Trichloroethene 850. 124-48-1Dibromochloromethane 20. 79-00-51,1,2-Trichloroethane 20. 71-43-2Benzene 20. 50061-02-6trans-1,3-Dichloropropene 20. 75-25-2Bromoform 20. 108-10-14-Methyl-2-Pentanone 20. 591-78-62-Hexanone 20. 127-18-4Tetrachloroethene 9. 79-34-51,1,2,2-Tetrachloroethane 20. 108-88-3Toluene 20. 100-41-4Ethylbenzene 20. 100-42-5Styrene 20. 108-38-3(m+p)Xylene 20.			
156-59-2cis-1,2-Dichloroethene 73. 71-55-6			
71-55-61,1,1-Trichloroethane 46. 56-23-5Carbon tetrachloride 20. 75-27-4Bromodichloromethane 20. 78-87-51,2-Dichloropropane 20. 10061-01-5cis-1,3-Dichloropropene 20. 79-01-6Trichloroethene 850. 124-48-1Dibromochloromethane 20. 79-00-51,1,2-Trichloroethane 20. 71-43-2Benzene 20. 50061-02-6trans-1,3-Dichloropropene 20. 75-25-2Bromoform 20. 108-10-14-Methyl-2-Pentanone 20. 591-78-62-Hexanone 20. 127-18-4Tetrachloroethene 9. 79-34-51,1,2,2-Tetrachloroethane 20. 108-88-3Toluene 20. 100-41-4Ethylbenzene 20. 100-42-5Styrene 20. 108-38-3(m+p)Xylene 20.	· · · · · · · · · · · · · · · · · · ·		<u>y</u>
S6-23-5Carbon tetrachloride			
75-27-4Bromodichloromethane 20. U 78-87-51,2-Dichloropropane 20. U 10061-01-5cis-1,3-Dichloropropene 20. U 79-01-6Trichloroethene 850. E 124-48-1Dibromochloromethane 20. U 79-00-51,1,2-Trichloroethane 20. U 71-43-2Benzene 20. U 50061-02-6trans-1,3-Dichloropropene 20. U 75-25-2Bromoform 20. U 108-10-14-Methyl-2-Pentanone 20. U 591-78-62-Hexanone 20. U 127-18-4Tetrachloroethene 9. J 79-34-51,1,2,2-Tetrachloroethane 20. U 108-88-3Chlorobenzene 20. U 100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U			
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79-01-6Trichloroethene 850. E 124-48-1Dibromochloromethane 20. U 79-00-51,1,2-Trichloroethane 20. U 71-43-2Benzene 20. U 50061-02-6trans-1,3-Dichloropropene 20. U 75-25-2Bromoform 20. U 108-10-14-Methyl-2-Pentanone 20. U 591-78-62-Hexanone 20. U 127-18-4Tetrachloroethene 9. J 79-34-51,1,2,2-Tetrachloroethane 20. U 108-88-3Toluene 20. U 100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U 108-38-3(m+p)Xylene 20. U		20.	
79-01-6Trichloroethene 850. E 124-48-1Dibromochloromethane 20. U 79-00-51,1,2-Trichloroethane 20. U 71-43-2Benzene 20. U 50061-02-6trans-1,3-Dichloropropene 20. U 75-25-2Bromoform 20. U 108-10-14-Methyl-2-Pentanone 20. U 591-78-62-Hexanone 20. U 127-18-4Tetrachloroethene 9. J 79-34-51,1,2,2-Tetrachloroethane 20. U 108-88-3Toluene 20. U 100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U 108-38-3(m+p)Xylene 20. U	10061-01-5cis-1,3-Dichloropropene	20.	
79-00-51,1,2-Trichloroethane 20. U 71-43-2Benzene 20. U 50061-02-6trans-1,3-Dichloropropene 20. U 75-25-2Bromoform 20. U 108-10-14-Methyl-2-Pentanone 20. U 591-78-62-Hexanone 20. U 127-18-4Tetrachloroethene 9. J 79-34-51,1,2,2-Tetrachloroethane 20. U 108-88-3Toluene 20. U 108-90-7Chlorobenzene 20. U 100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U	79-01-6Trichloroethene	850.	<u> </u>
71-43-2Benzene 20. U 50061-02-6trans-1,3-Dichloropropene 20. U 75-25-2Bromoform 20. U 108-10-14-Methyl-2-Pentanone 20. U 591-78-62-Hexanone 20. U 127-18-4Tetrachloroethene 9. J 79-34-51,1,2,2-Tetrachloroethane 20. U 108-88-3Toluene 20. U 108-90-7Chlorobenzene 20. U 100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U	124-48-1Dibromochloromethane	20.	U
71-43-2Benzene 20. U 50061-02-6trans-1,3-Dichloropropene 20. U 75-25-2Bromoform 20. U 108-10-14-Methyl-2-Pentanone 20. U 591-78-62-Hexanone 20. U 127-18-4Tetrachloroethene 9. J 79-34-51,1,2,2-Tetrachloroethane 20. U 108-88-3Toluene 20. U 108-90-7Chlorobenzene 20. U 100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U	79-00-51,1,2-Trichloroethane	20.	U
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75-25-2Bromoform 20. U 108-10-14-Methyl-2-Pentanone 20. U 591-78-62-Hexanone 20. U 127-18-4Tetrachloroethene 9. J 79-34-51,1,2,2-Tetrachloroethane 20. U 108-88-3Toluene 20. U 108-90-7Chlorobenzene 20. U 100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U	50061-02-6trans-1.3-Dichloropropene	20.	U
108-10-14-Methyl-2-Pentanone 20. U 591-78-62-Hexanone 20. U 127-18-4Tetrachloroethene 9. J 79-34-51,1,2,2-Tetrachloroethane 20. U 108-88-3Toluene 20. U 108-90-7Chlorobenzene 20. U 100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U			Ū
591-78-62-Hexanone 20. U 127-18-4Tetrachloroethene 9. J 79-34-51,1,2,2-Tetrachloroethane 20. U 108-88-3Toluene 20. U 108-90-7Chlorobenzene 20. U 100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U		20.	Ū
127-18-4Tetrachloroethene 9. J 79-34-51,1,2,2-Tetrachloroethane 20. U 108-88-3Toluene 20. U 108-90-7Chlorobenzene 20. U 100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U			<u>ਹ</u>
79-34-51,1,2,2-Tetrachloroethane 20. U 108-88-3Toluene 20. U 108-90-7Chlorobenzene 20. U 100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U			
108-88-3Toluene 20. U 108-90-7Chlorobenzene 20. U 100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U			
108-90-7Chlorobenzene 20. U 100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U 108-38-3(m+p)Xylene 20. U			
100-41-4Ethylbenzene 20. U 100-42-5Styrene 20. U 108-38-3(m+p)Xylene 20. U			
100-42-5Styrene 20. U 108-38-3(m+p)Xylene 20. U		·	
108-38-3(m+p)Xylene 20. U		· 1 ———————————————————————————————————	TI TI
	247 100		<u> </u>
95-47-6o-Xylene 20. U	108-38-3(m+p)Xylene	20.	Ū
	95-47-6o-Xylene	20.	U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: GENERAL TESTING

Contract:H & A

ab Code:10145 Case No.: SAS No.:

SDG No.: HADUP

atrix: (soil/water) WATER

Lab Sample ID:4290-5

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

Lab File ID: Q2256

evel: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 2.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0 (uL)

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

Number TICs Found: 1

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EPA SAMPLE NO.

HADUPDL

Lab Name:GENERAL TESTING

Contract:H & A

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

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-5DL

Sample wt/vol:

5.00 (g/ml) ML

Lab File ID: Q2271

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 10.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

74-87-3Chloromethane	100.	U
74-83-9Bromomethane	100.	Ū
75-01-4Vinvl chloride	100.	
75-00-3Chloroethane	100.	Ü
75-09-2Methylene chloride	100.	Ū
67-64-1Acetone	100.	U
75-15-0Carbon Disulfide	100.	Ū
75-35-41,1-Dichloroethene	100.	Ü
75-34-31,1-Dichloroethane	100.	Ü
156-60-5trans-1,2-Dichloroethene	100.	Ü
67-66-3Chloroform	100.	U
107-06-21.2-Dichloroethane	100,	<u>U</u>
78-93-32-Butanone	100.	U
156-59-2cis-1,2-Dichloroethene	78.	DJ
71-55-61,1,1-Trichloroethane	50,	DJ
56-23-5Carbon tetrachloride	100.	Ū
75-27-4Bromodichloromethane	100.	U
78-87-51,2-Dichloropropane	100.	ប
10061-01-5cis-1,3-Dichloropropene	100.	U
79-01-6Trichloroethene	1000.	D
124-48-1Dibromochloromethane	100.	U
79-00-51.1.2-Trichloroethane	100.	U
71-43-2Benzene	100.	Ū
50061-02-6trans-1,3-Dichloropropene	100.	Ų
75-25-2Bromoform	100.	บิ
108-10-14-Methyl-2-Pentanone	100.	U
591-78-62-Hexanone	100.	Ū
127-18-4Tetrachloroethene	100.	บ
79-34-51,1,2,2-Tetrachloroethane	100.	Ū
108-88-3Toluene	100.	บ
108-90-7Chlorobenzene	100.	Ū
100-41-4Ethylbenzene	100.	Ū
100-42-5Styrene	100.	<u>u</u>
108-38-3(m+p)Xylene	100.	<u> </u>
95-47-6	100.	U U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

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EPA SAMPLE NO.

Lab Name: GENERAL TESTING

Contract:H & A

ab Code:10145 Case No.: SAS No.:

SDG No.: HADUP

latrix: (soil/water) WATER

Lab Sample ID:4290-5DL

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

Lab File ID: Q2271

ievel: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 10.0

Soil Extract Volume:0

Number TICs Found: 0

(uL)

Soil Aliquot Volume: 0 (uL)

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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EPA SAMPLE NO.

HATB

Lab Name:GENERAL TESTING

Contract:H & A

Lab Code:10145

Case No.: SAS No.:

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-1

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

Lab File ID: Q2252

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/08/94

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

Dilution Factor: 1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

		
74-87-3Chloromethane	10.	u
74-83-9Bromomethane		ŭ
75-01-4Vinyl chloride		Ū l
75-00-3Chloroethane		Ŭ
75-09-2Methylene chloride		U
67-64-1Acetone	10.	บั
75-15-0Carbon Disulfide	10.	Ü
75-35-41.1-Dichloroethene	10.	Ü
75-34-31,1-Dichloroethane	10.	Ü
156-60-5trans-1,2-Dichloroethene	10.	Ū
67-66-3Chloroform	10.	Ū
107-06-21,2-Dichloroethane	10.	Ū
78-93-32-Butanone	10.	บี
156-59-2cis-1,2-Dichloroethene	10.	Ū
71-55-61,1,1-Trichloroethane	10.	U
56-23-5Carbon tetrachloride	10.	Ü
75-27-4Bromodichloromethane	10.	U
78-87-51,2-Dichloropropane	10.	U
10061-01-5cis-1,3-Dichloropropene	10.	Ü
79-01-6Trichloroethene	10.	U
_124-48-1Dibromochloromethane	10.	Ū
79-00-51,1,2-Trichloroethane	10.	Ū
71-43-2Benzene	10.	Ū
50061-02-6trans-1,3-Dichloropropene	10.	<u>U</u>
75-25-2Bromoform	10.	U
108-10-14-Methyl-2-Pentanone	10.	U
_591-78-62-Hexanone	10.	U
127-18-4Tetrachloroethene	10.	Ū
79-34-51,1,2,2-Tetrachloroethane	10.	Ū
_108-88-3Toluene	10.	U
108-90-7Chlorobenzene	10.	U
100-41-4Ethylbenzene	10.	U
100-42-5Styrene	10.	U
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108-38-3(m+p)Xylene	10.	U
95-47-6o-Xylene	10.	Ų

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ИΔ	TР	

Lab Name: GENERAL TESTING

Contract:H & A

ab Code:10145 Case No.: SAS No.:

SDG No.: HADUP

atrix: (soil/water) WATER

Lab Sample ID:4290-1

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

Lab File ID: Q2252

evel: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/08/94

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

Dilution Factor: 1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0 (uL)

CONCENTRATION UNITS:

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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EPA SAMPLE NO.

MWl

Lab Name: GENERAL TESTING

Contract:H & A

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

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-9

Sample wt/vol:

5.00 (g/ml) ML

Lab File ID: Q2259

Level:

(low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

		1	
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
	Chloroethane	10.	Ü
	Methylene chloride	10.	U
67-64-1		10.	U
75-15-0	Carbon Disulfide	10.	U
	1,1-Dichloroethene	10.	Ū.
75-34-3	1,1-Dichloroethane	10.	U
	trans-1,2-Dichloroethene	10.	Ŭ
	Chloroform	10.	U
	1,2-Dichloroethane	10.	Ū
	2-Butanone	10.	Ü
	cis-1,2-Dichloroethene	10.	U
	1,1,1-Trichloroethane	10.	U
	Carbon tetrachloride	10.	U
75-27-4	Bromodichloromethane	10.	U
78-87-5	1,2-Dichloropropane	10.	Ū
	cis-1,3-Dichloropropene	10.	U
	Trichloroethene	3.	J
	Dibromochloromethane	10.	Ū
	1.1.2-Trichloroethane	10.	U
71-43-2		10.	Ū
	trans-1,3-Dichloropropene	10.	Ü
	Bromoform	10.	ប
	4-Methyl-2-Pentanone	10.	U
	2-Hexanone	10.	U
	Tetrachloroethene	10.	Ū
79-34-5	1,1,2,2-Tetrachloroethane	10.	Ū
108-88-3		10.	Ū
	Chlorobenzene	10.	Ū
	Ethylbenzene	10.	Ū
	Styrene	10.	Ū
108-38-3	(m+p)Xylene	10.	Ū
	o-Xvlene	10.	

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GENERAL TESTING

Contract:H & A

EPA SAMPLE NO.

MW1	

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

SDG No.: HADUP

Matrix: (soil/water) WATER

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

Lab File ID: Q2259

Lab Sample ID:4290-9

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0 (uL)

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

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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EPA SAMPLE NO.

MW2

Lab Name:GENERAL TESTING

Contract:H & A

Lab Code:10145

Case No.: SAS No.:

SDG No.: HADUP

Matrix: (soil/water) WATER

Sample wt/vol:

Lab Sample ID:4290-8

5.00 (g/ml) ML

Lab File ID: Q2258

Level:

(low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

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

T4-87-3		1	
74-83-9	74-87-3Chloromethane	10.	<u></u>
75-01-4			
75-00-3			U I
75-09-2			
10. U 75-15-0			u
75-15-0			
75-35-4	75-15-0Carbon Disulfide		
75-34-3			
156-60-5trans-1,2-Dichloroethene 10. U 10.			U
10. U 10. U 10.			
107-06-21,2-Dichloroethane 10. 78-93-32-Butanone 10. 156-59-2cis-1,2-Dichloroethane 29. 71-55-61,1,1-Trichloroethane 6. 56-23-5Carbon tetrachloride 10. 75-27-4			U
78-93-32-Butanone 10. U 156-59-2cis-1,2-Dichloroethene 29. 71-55-61,1,1-Trichloroethane 6. J 56-23-5Carbon tetrachloride 10. U 75-27-4Bromodichloromethane 10. U 78-87-51,2-Dichloropropane 10. U 10061-01-5cis-1,3-Dichloropropene 10. U 79-01-6Trichloroethene 420. E 124-48-1Dibromochloromethane 10. U 79-00-51,1,2-Trichloroethane 10. U 79-00-51,1,2-Trichloroethane 10. U 50061-02-6trans-1,3-Dichloropropene 10. U 75-25-2Bromeform 10. U 108-10-14-Methyl-2-Pentanone 10. U 591-78-62-Hexanone 10. U 127-18-4Tetrachloroethene 10. U 79-34-51,1,2,2-Tetrachloroethane 10. U 108-88-3Chlorobenzene 10. U 100-41-4Ethylbenzene 10. U 108-38-3(m+p)Xylene 10. U <td< td=""><td></td><td></td><td>Ų</td></td<>			Ų
156-59-2		1	Ü
71-55-6		29.	
10. U 75-27-4Bromodichloromethane 10. U 78-87-51,2-Dichloropropane 10. U 10061-01-5cis-1,3-Dichloropropene 10. U			$\overline{\mathbf{J}}$
75-27-4Bromodichloromethane 10. U 78-87-51,2-Dichloropropane 10. U 10061-01-5cis-1,3-Dichloropropene 10. U 79-01-6Trichloroethene 420. E 124-48-1Dibromochloromethane 10. U 79-00-51,1,2-Trichloroethane 10. U 71-43-2Benzene 10. U 50061-02-6trans-1,3-Dichloropropene 10. U 75-25-2Bromoform 10. U 108-10-14-Methyl-2-Pentanone 10. U 591-78-62-Hexanone 10. U 127-18-4Tetrachloroethene 10. U 79-34-5Toluene 10. U 108-88-3Chlorobenzene 10. U 100-41-4		10.	U
78-87-51,2-Dichloropropane 10. U 10061-01-5cis-1,3-Dichloropropene 10. U 79-01-6Trichloroethene 420. E 124-48-1Dibromochloromethane 10. U 79-00-51,1,2-Trichloroethane 10. U 71-43-2Benzene 10. U 50061-02-6trans-1,3-Dichloropropene 10. U 75-25-2Bromoform 10. U 108-10-1			
10061-01-5cis-1,3-Dichloropropene 10. U 79-01-6Trichloroethene 420. E 124-48-1Dibromochloromethane 10. U 79-00-51,1,2-Trichloroethane 10. U 71-43-2Benzene 10. U 50061-02-6trans-1,3-Dichloropropene 10. U 75-25-2Bromoform 10. U 108-10-14-Methyl-2-Pentanone 10. U 591-78-62-Hexanone 10. U 127-18-4Tetrachloroethene 10. U 79-34-51,1,2,2-Tetrachloroethane 10. U 108-88-3Toluene 10. U 100-41-4Ethylbenzene 10. U 100-42-5Styrene 10. U	78-87-51,2-Dichloropropane		
79-01-6Trichloroethene 420. E. 124-48-1Dibromochloromethane 10. U. 79-00-51,1,2-Trichloroethane 10. U. 71-43-2Benzene 10. U. 50061-02-6trans-1,3-Dichloropropene 10. U. 75-25-2Bromoform 10. U. 108-10-14-Methyl-2-Pentanone 10. U. 591-78-62-Hexanone 10. U. 127-18-4Tetrachloroethane 10. U. 79-34-51,1,2,2-Tetrachloroethane 10. U. 108-98-3Toluene 10. U. 100-41-4		10.	
124-48-1	79-01-6Trichloroethene	420.	E
79-00-51,1,2-Trichloroethane 10. U 71-43-2Benzene 10. U 50061-02-6trans-1,3-Dichloropropene 10. U 75-25-2Bromoform 10. U 108-10-14-Methyl-2-Pentanone 10. U 591-78-62-Hexanone 10. U 127-18-4Tetrachloroethene 10. U 79-34-51,1,2,2-Tetrachloroethane 10. U 108-88-3Toluene 10. U 108-90-7Chlorobenzene 10. U 100-41-4Ethylbenzene 10. U 100-42-5Styrene 10. U	124-48-1Dibromochloromethane	10.	U
50061-02-6trans-1,3-Dichloropropene 10. U 75-25-2Bromoform 10. U 108-10-14-Methyl-2-Pentanone 10. U 591-78-62-Hexanone 10. U 127-18-4Tetrachloroethene 10. U 79-34-51,1,2,2-Tetrachloroethane 10. U 108-88-3Toluene 10. U 108-90-7Chlorobenzene 10. U 100-41-4Ethylbenzene 10. U 108-38-3(m+p)Xylene 10. U			
50061-02-6trans-1,3-Dichloropropene 10. U 75-25-2Bromoform 10. U 108-10-14-Methyl-2-Pentanone 10. U 591-78-62-Hexanone 10. U 127-18-4Tetrachloroethene 10. U 79-34-51,1,2,2-Tetrachloroethane 10. U 108-88-3Toluene 10. U 108-90-7Chlorobenzene 10. U 100-41-4Ethylbenzene 10. U 108-38-3(m+p)Xylene 10. U	71-43-2Benzene		
75-25-2Bromoform 10. U 108-10-14-Methyl-2-Pentanone 10. U 591-78-62-Hexanone 10. U 127-18-4Tetrachloroethene 10. U 79-34-51,1,2,2-Tetrachloroethane 10. U 108-38-3Toluene 10. U 108-90-7Chlorobenzene 10. U 100-41-4Ethylbenzene 10. U 108-38-3(m+p)Xylene 10. U		10.	<u>U</u>
591-78-62-Hexanone 10. U 127-18-4Tetrachloroethene 10. U 79-34-51.1,2,2-Tetrachloroethane 10. U 108-88-3Toluene 10. U 108-90-7Chlorobenzene 10. U 100-41-4Ethylbenzene 10. U 108-38-3(m+p)Xylene 10. U			
127-18-4Tetrachloroethene 10. U 79-34-51.1.2.2-Tetrachloroethane 10. U 108-88-3Toluene 10. U 108-90-7Chlorobenzene 10. U 100-41-4Ethylbenzene 10. U 100-42-5Styrene 10. U 108-38-3(m+p)Xylene 10. U	108-10-14-Methyl-2-Pentanone		
79-34-51.1,2,2-Tetrachloroethane 10. U 108-88-3Toluene 10. U 108-90-7Chlorobenzene 10. U 100-41-4Ethylbenzene 10. U 100-42-5Styrene 10. U	591-78-62-Hexanone	10.	
79-34-51.1,2,2-Tetrachloroethane 10. U 108-88-3Toluene 10. U 108-90-7Chlorobenzene 10. U 100-41-4Ethylbenzene 10. U 100-42-5Styrene 10. U	127-18-4Tetrachloroethene	10.	<u>u</u>
108-90-7Chlorobenzene 10. U 100-41-4Ethylbenzene 10. U 100-42-5Styrene 10. U 108-38-3(m+p)Xylene 10. U	79-34-51,1,2,2-Tetrachloroethane	10.	
100-41-4Ethylbenzene 10. U 100-42-5Styrene 10. U 108-38-3(m+p)Xylene 10. U		10.	
100-41-4Ethylbenzene 10. U 100-42-5Styrene 10. U 108-38-3(m+p)Xylene 10. U		- [;	
108-38-3(m+p)Xylene 10. U			
	100-42-5Styrene	10.	<u>U</u>
95-47-6o-Xylene 10. U	108-38-3(m+p)Xylene		
	95-47-6o-Xylene	10.	<u>U</u>

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW2		

EPA SAMPLE NO.

Lab Name: GENERAL TESTING

Contract:H & A

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

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-8

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

Lab File ID: Q2258

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

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

Number TICs Found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.0	Unknown	14.06		
3	-			
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7				
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11. 12. 13.				
14				
16 17				
18				
20				
23.				
25. 26.				
27 28				
29 30				
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EPA SAMPLE NO.

MW2DL

Lab Name: GENERAL TESTING

Contract:H & A

Lab Code:10145

Case No.:

SAS No.:

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-8DL

Sample wt/vol:

5.00 (g/ml) ML

Lab File ID: Q2269

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 5.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

		 ,
74-87-3Chloromethane		<u>J</u>
74-83-9Bromomethane		<u>J</u>
75-01-4Vinyl chloride		<u> </u>
75-00-3Chloroethane		J
75-09-2Methylene chloride		<u>U</u>
67-64-1Acetone		U
75-15-0Carbon Disulfide		<u>U</u>
75-35-41.1-Dichloroethene		<u> </u>
75-34-31.1-Dichloroethane		U
156-60-5trans-1,2-Dichloroethene	50.	U
67-66-3Chloroform		<u>U</u>
107-06-21,2-Dichloroethane		U
78-93-32-Butanone	50.	U
156-59-2cis-1,2-Dichloroethene	31.	DJ
71-55-61,1,1-Trichloroethane		<u>ប</u> _ាំ
56-23-5Carbon tetrachloride	50.	U
75-27-4Bromodichloromethane	50.	U
78-87-51,2-Dichloropropane		บ
10061-01-5cis-1,3-Dichloropropene	50.	U
79-01-6Trichloroethene	500.	D
124-48-1Dibromochloromethane	50.	Ū
79-00-51,1,2-Trichloroethane		Ū
71-43-2Benzene	50.	Ū
50061-02-6trans-1.3-Dichloropropene	50.	
75-25-2Bromoform		<u> </u>
108-10-14-Methyl-2-Pentanone		U
591-78-62-Hexanone		Ū.
127-18-4Tetrachloroethene		Ū
79-34-51,1,2,2-Tetrachloroethane		Ü
108-88-3Toluene		U
108-90-7Chlorobenzene		Ū
100-41-4Ethylbenzene	50.	Ŭ
100-42-5Styrene	50.	Ū
108-38-3(m+p)Xylene	50.	<u> </u>
95-47-6	50.	U
1	. j	

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW2DL

EPA SAMPLE NO.

Lab Name: GENERAL TESTING

Contract:H & A

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

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-8DL

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

Lab File ID: Q2269

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume:0 (uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS:

Number TICs Found: 0 (ug/L or ug/Kg) UG/L					
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
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EPA SAMPLE NO.

MW201D

Lab Name: GENERAL TESTING Contract: H & A

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

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-3

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

Lab File ID: Q2254

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 25.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0 (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

	<u> </u>	
74-87-3Chloromethane	250.	ט
74-83-9Bromomethane		ŪI
75-01-4Vinvl chloride	250.	<u> </u>
75-00-3Chloroethane	250.	Ü
75-09-2Methylene chloride	250.	Ü
67-64-1Acetone	250.	Ū
75-15-0Carbon Disulfide	250.	<u>U</u>
75-35-41.1-Dichloroethene	250	Ü
75-34-31,1-Dichloroethane	250.	Ü
156-60-5trans-1,2-Dichloroethene	250.	<u>U</u>
67-66-3Chloroform	250.	U
107-06-21,2-Dichloroethane	250.	<u>U</u>
78-93-32-Butanone	250.	Ū
156-59-2cis-1,2-Dichloroethene	830.	
71-55-61,1,1-Trichloroethane	100.	J
56-23-5Carbon tetrachloride	250.	<u>U</u>
75-27-4Bromodichloromethane	250.	บ
78-87-51.2-Dichloropropane	250.	<u>U</u>
10061-01-5cis-1.3-Dichloropropene	250.	<u>U</u>
79-01-6Trichloroethene	4000.	i
124-48-1Dibromochloromethane	250.	<u>U</u>
79-00-51,1,2-Trichloroethane	250.	U
71-43-2Benzene	250.	U
50061-02-6trans-1,3-Dichloropropene	250.	U
75-25-2Bromoform	250.	<u>u</u>
108-10-14-Methyl-2-Pentanone	250.	<u>U</u>
591-78-62-Hexanone	250.	U
127-18-4Tetrachloroethene	61.	
79-34-51,1,2,2-Tetrachloroethane	250.	U
108-88-3Toluene	250.	Ŭ
108-90-7Chlorobenzene	250.	U
_100-41-4Ethylbenzene	250.	U
100-42-5Styrene	250.	U
108-38-3(m+p)Xylene	250.	<u> </u>
95-47-6	250.	<u>U</u>
33-47-0	<u></u>	\

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW201D

EPA SAMPLE NO.

Lab Name: GENERAL TESTING

Contract:H & A

ab Code:10145

Case No.:

SAS No.:

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-3

Sample wt/vol:

5.00 (g/ml) ML

Lab File ID: Q2254

evel:

(low/med) LOW

Date Received:11/02/94

\\$ Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor:

.Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL) ·

CONCENTRATION UNITS:

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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EPA SAMPLE NO.

MW202D

Lab Name:GENERAL TESTING

Contract:H & A

Lab Code:10145 Case No.:

SAS No.:

SDG No.: HADUP

Matrix: (soil/water) WATER

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

Lab File ID: Q2253

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

Lab Sample ID:4290-2

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

Dilution Factor: 1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

		 ,
74-87-3Chloromethane	10.	<u>U</u>
74-83-9Bromomethane	10.	Ū
75-01-4Vinyl chloride	7.	J
75-00-3Chloroethane	10.	U
75-09-2Methylene chloride	10.	
67-64-1Acetone	10.	U U
75-15-0Carbon Disulfide	10.	Ŭ
75-35-41,1-Dichloroethene	10.	Ü
75-34-31,1-Dichloroethane	10.	U
156-60-5trans-1,2-Dichloroethene	3.	J
67-66-3Chloroform	10.	υ
107-06-21,2-Dichloroethane	10.	Ū
78-93-32-Butanone	10.	<u> </u>
156-59-2cis-1,2-Dichloroethene	45.	
71-55-61,1,1-Trichloroethane	10.	บ
56-23-5Carbon tetrachloride	10.	U
75-27-4Bromodichloromethane	10.	U
78-87-51,2-Dichloropropane	10.	<u>U</u>
10061-01-5cis-1,3-Dichloropropene	10.	บ
79-01-6Trichloroethene	25.	
124-48-1Dibromochloromethane	10.	Ū
79-00-51,1,2-Trichloroethane	10.	U
71-43-2Benzene	10.	U
50061-02-6trans-1,3-Dichloropropene	10.	Ŭ
75-25-2Bromoform	10.	U
108-10-14-Methyl-2-Pentanone	10.	
591-78-62-Hexanone	10.	<u>U</u>
127-18-4Tetrachloroethene	10.	<u>u</u>
79-34-51,1,2,2-Tetrachloroethane	10.	<u>U</u>
108-88-3Toluene	10.	
108-90-7Chlorobenzene	10.	U
100-41-4Ethylbenzene	10.	
100-42-5Styrene	10.	Ŭ
108-38-3(m+p)Xylene	10.	U
95-47-6o-Xylene	10.	U

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW202D

EPA SAMPLE NO.

Lab	Name	:GENERAL	TESTING
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Contract:H & A

Lab Code:10145 Case No.:

SAS No.:

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-2

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

Lab File ID: Q2253

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS:

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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26				
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29				

EPA SAMPLE NO.

KWM3

Lab Name: GENERAL TESTING

Contract:H & A

Lab Code:10145

Case No.: SAS No.:

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-10

Sample wt/vol:

Lab File ID: Q2260

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

5.00 (g/ml) ML

Dilution Factor:

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

		
74-87-3Chloromethane	100. U	
74-83-9Bromomethane	100. U	
75-01-4Vinyl chloride	100.	
75-00-3Chloroethane	100. U	
75-09-2Methylene chloride	13. J	
67-64-1Acetone	100. U	
75-15-0Carbon Disulfide	100. U	
75-35-41,1-Dichloroethene	100. U	
75-34-31,1-Dichloroethane	100. U	
156-60-5trans-1,2-Dichloroethene	100.	
67-66-3Chloroform	100. U	
107-06-21,2-Dichloroethane	100. U	
78-93-32-Butanone	100. U	
156-59-2cis-1,2-Dichloroethene	51. J	
71-55-61,1,1-Trichloroethane	250.	
56-23-5Carbon tetrachloride	100.	
75-27-4Bromodichloromethane	100. U	
78-87-51,2-Dichloropropane	100. U	
10061-01-5cis-1,3-Dichloropropene	100. U	
79-01-6Trichloroethene	2700. F	
124-48-1Dibromochloromethane	100. U	
79-00-51,1,2-Trichloroethane	100. U	
71-43-2Benzene	100. U	
50061-02-6trans-1,3-Dichloropropene	100. U	
75-25-2Bromoform	100. U	
108-10-14-Methyl-2-Pentanone	100. U	
591-78-62-Hexanone	100. U	
127-18-4Tetrachloroethene	23. J	r
79-34-51,1,2,2-Tetrachloroethane	100. U	
108-88-3Toluene	100. U	
108-90-7Chlorobenzene	100. U	
100-41-4Ethylbenzene	100. U_	
100-42-5Styrene	100. U	
108-38-3(m+p)Xylene	100. U	
95-47-6o-Xylene	100. U	

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GENERAL TESTING

Contract:H & A

EPA SAMPLE NO.

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

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-10

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

Lab File ID: Q2260

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 10.0

Soil Extract Volume:0 (uL)

Number TICs Found: 1

Soil Aliquot Volume: 0 (uL)

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	Unknown		67.	1
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9 10	·		· · · · · · · · · · · · · · · · · · ·	
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EPA	SAMPLE	NO.
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MW3	DI.	

Lab Name: GENERAL TESTING

Contract:H & A

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

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-10DL

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

Lab File ID: Q2266

Level:

(low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 20.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

		
74-87-3Chloromethane	200.	u
74-83-9Bromomethane		Ü
75-01-4Vinvl chloride	200.	<u>u </u>
75-00-3Chloroethane	200.	U
75-09-2Methylene chloride	200.	ʊ
67-64-1Acetone	200.	U
75-15-0Carbon Disulfide	200.	<u>u</u> i
75-35-41,1-Dichloroethene	200.	<u>U</u>
75-34-31,1-Dichloroethane	200.	U
156-60-5trans-1,2-Dichloroethene	200.	U
67-66-3Chloroform	200.	U
107-06-21,2-Dichloroethane	200.	U
78-93-32-Butanone	200,	U
156-59-2cis-1,2-Dichloroethene	58.	DJ
71-55-61,1,1-Trichloroethane	260.	D
56-23-5Carbon tetrachloride	200.	Ŭ
75-27-4Bromodichloromethane	200.	<u>U</u>
78-87-51,2-Dichloropropane	200.	U
10061-01-5cis-1,3-Dichloropropene	200.	<u>U</u>
79-01-6Trichloroethene	3200.	D
124-48-1Dibromochloromethane	200.	<u>U</u>
79-00-51,1,2-Trichloroethane	200.	<u>U</u>
71-43-2Benzene	200.	U
50061-02-6trans-1,3-Dichloropropene	200.	U
75-25-2Bromoform	200.	<u>U</u>
108-10-14-Methyl-2-Pentanone	200.	<u>u</u>
591-78-62-Hexanone	200.	U
127-18-4Tetrachloroethene	28.	DJ
79-34-51,1,2,2-Tetrachloroethane	200.	U
108-88-3Toluene	200.	<u>U</u>
108-90-7Chlorobenzene	200.	<u>U</u>
100-41-4Ethylbenzene	200.	U
100-42-5Styrene	200.	<u>U</u>
100 00 0		
108-38-3(m+p)Xylene	200.	<u>U</u>
95-47-6o-Xylene	200.	<u>U</u>

TENTATIVELY IDENTIFIED COMPOUNDS

MW3DL

LPA SAMPLE NO.

Lab Name: GENERAL TESTING

Contract: H & A

Lab Code:10145 Case No.:

SAS No.:

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-10DL

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

Lab File ID: Q2266

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 20.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

Number TICs Found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1				
2				
3		-		
5		<u>-</u>		
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8		-		
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EPA SAMPLE NO.

MW4	
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Lab Name:GENERAL TESTING

Contract:H & A

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

Matrix: (soil/water) WATER

Lab Sample ID:4290-6

Sample wt/vol: 5.00 (g/ π l) ML Lab File ID: Q2257

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 1.0

Soil Extract Volume: 0 (uL)

Soil Aliquot Volume: 0 (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

Q

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

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

MW4

Lab Name: GENERAL TESTING

Contract:H & A

Lab Code:10145 Case No.:

SAS No.:

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-6

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

Lab File ID: Q2257

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor:

EPA SAMPLE NO.

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

Number TICs Found: 0

CONCENTRATION UNITS:

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		== ======		=====
1				
		— — — —		
3		_		
4				
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		_		
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12				\
13				
14]_				∤
15		_		ļ
16				
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		 _	·	\
	<u> </u>			
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			·]	1
		 :		\
1 7 4 1				
1 25 1				
26				.
27				.
28				.
29				.
30			_	- }
]]		-1

EPA	SAMPLE	NO.

[ab.	Name	:GENERAL	ጥምፍጥፒክር
டப்ப	name	.GENERAL	IDSTING

Contract: H & A

MW5

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

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-4

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

Lab File ID: Q2255

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 2.0

Soil Extract Volume: 0 (uL)

Soil Aliquot Volume: 0 (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

		 .
74.07.0	20	
74-87-3Chloromethane	20.	
74-83-9Bromomethane		<u>u</u>
75-01-4Vinyl chloride		<u>u</u>
75-00-3Chloroethane		<u>U</u>
75-09-2Methylene chloride		<u>U</u>
67-64-1Acetone		<u>U</u>
75-15-0Carbon Disulfide		<u>u</u>
75-35-41.1-Dichloroethene	5.	
75-34-31.1-Dichloroethane	20.	U U
156-60-5trans-1.2-Dichloroethene		
67-66-3Chloroform	20.	<u>U</u>
107-06-21.2-Dichloroethane	20.	<u>U</u>
<u>78-93-32-Butanone</u>	20.	<u>U</u>
156-59-2cis-1.2-Dichloroethene	72.	
71-55-61.1.1-Trichloroethane	<u>55.</u>	
56-23-5Carbon tetrachloride	20.	<u>u</u>
75-27-4Bromodichloromethane	20.	<u>U</u>
78-87-51,2-Dichloropropane	20.	<u>U</u>
10061-01-5cis-1,3-Dichloropropene	20.	<u>U</u>
79-01-6Trichloroethene	900.	E
124-48-1Dibromochloromethane	20.	Ū
79-00-51,1,2-Trichloroethane	20.	บ
71-43-2Benzene	20.	<u>u</u>
50061-02-6trans-1,3-Dichloropropene		บี
75-25-2Bromoform	20.	Ü
108-10-14-Methyl-2-Pentanone	20.	υ
591-78-62-Hexanone	20.	
127-18-4Tetrachloroethene	9.	J
79-34-51,1,2,2-Tetrachloroethane	20.	
108-88-3Toluene	20.	
108-90-7Chlorobenzene	20.	
100-41-4Ethylbenzene	20.	<u>U</u>
100-42-5Styrene	20.	Ŭ
TAAA 10 DEATONG		
108-38-3(m+p)Xylene	20.	<u>U</u>
<u>95-47-6o-Xylene</u>	20.	<u>u</u>

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW5	

EPA SAMPLE NO.

Lab Name: GENERAL TESTING

Contract:H & A

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

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-4

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q2255

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 2.0

Soil Extract Volume:0 (uL)

Soil Aliquot Volume: 0 (uL)

CONCENTRATION UNITS: Number TICs Found: 1 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1	Unknown	14.15	14.	J
3 4 5				
6 7	_			
8 9				
11 12 13				
16				
17 18 19				
20. 21. 22.				
23 24				
25. 26. 27.				
28				
		ł		.]

<u>1A</u>

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: GENERAL TESTING

Contract:H & A

Lab Code:10145 Case No.:

SAS No.:

SDG No.: HADUP

_Matrix: (soil/water) WATER

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

Lab File ID: Q2270

Level: (low/med) LOW

Date Received:11/02/94

Lab Sample ID:4290-4DL

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 10.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

 	1
74-87-3Chloromethane	100.U
74-83-9Bromomethane	100. U
75-01-4Vinvl chloride	100. U
75-00-3Chloroethane	100. U
75-09-2Methylene chloride	100. U
67-64-1Acetone	100.
75-15-0Carbon Disulfide	100. U
75-35-41,1-Dichloroethene	100.
75-34-31,1-Dichloroethane	100. U
156-60-5trans-1,2-Dichloroethene	100. U
67-66-3Chloroform	100. 0
107-06-21,2-Dichloroethane	100. U
78-93-32-Butanone	100. U
156-59-2cis-1,2-Dichloroethene	83. DJ
71-55-61,1,1-Trichloroethane	63. DJ
56-23-5Carbon tetrachloride	100. U
75-27-4Bromodichloromethane	100. U
78-87-51,2-Dichloropropane	100. U
10061-01-5cis-1,3-Dichloropropene	100. U
79-01-6Trichloroethene	1100. D
124-48-1Dibromochloromethane	100. U
79-00-51,1,2-Trichloroethane	100. U
71-43-2Benzene	100. U
50061-02-6trans-1,3-Dichloropropene	100. U
75-25-2Bromoform	100. U
_108-10-14-Methyl-2-Pentanone	100. U
591-78-62-Hexanone	100. U
127-18-4Tetrachloroethene	100. U
79-34-51.1.2.2-Tetrachloroethane	100. U
108-88-3Toluene	100. U
108-90-7Chlorobenzene	100. U
100-41-4Ethylbenzene	100. U
100-42-5Styrene	100. U
	- -
108-38-3(m+p)Xylene	100. U
<u>95-47-6o-Xylene</u>	100. U

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GENERAL TESTING

Contract:H & A

MW5DL

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

Matrix: (soil/water) WATER

Lab Sample ID:4290-4DL

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

Lab File ID: Q2270

Level: (low/med) LOW

Date Received:11/02/94

🕏 Moisture: not dec.

Date Analyzed:11/09/94

GC Column:RTX-502 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume:0 (uL)

Soil Aliquot Volume: 0 (uL)

CONCENTRATION UNITS:

Number TICs Found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1				
3		_		
4				
7·		_		
9				
11				
12				
15				
17				
19				
20		_		
1 22.				
24				
25				<u> </u>
27 _				-
29	·····			
30				

EPA SAMPLE NO.

MW6

Lab Name: GENERAL TESTING

Contract:H & A

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

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID:4290-7

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

Lab File ID: Q2249

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/08/94

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

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

	<u> </u>	
74-87-3Chloromethane	10.	ប
74-83-9Bromomethane		Ū
75-01-4Vinyl chloride	10.	Ū
75-00-3Chloroethane	10.	Ū
75-09-2Methylene chloride	10.	U
67-64-1Acetone	10.	Ū
75-15-0Carbon Disulfide	10.	Ü
75-35-41,1-Dichloroethene	10.	Ū
75-34-31,1-Dichloroethane	10.	<u> </u>
156-60-5trans-1,2-Dichloroethene	10.	บบ
67-66-3Chloroform	10.	Ū
107-06-21,2-Dichloroethane	10.	<u> </u>
78-93-32-Butanone	10.	Ü
156-59-2cis-1,2-Dichloroethene	10.	Ū
71-55-61,1,1-Trichloroethane	10.	Ū.
56-23-5Carbon tetrachloride	10.	Ū
75-27-4Bromodichloromethane	10.	<u>u</u>
78-87-51,2-Dichloropropane	10.	U
10061-01-5cis-1,3-Dichloropropene	10.	<u> </u>
79-01-6Trichloroethene	10.	บ
124-48-1Dibromochloromethane	10.	U
79-00-51,1,2-Trichloroethane	10.	Ŭ
71-43-2Benzene	10.	Ŭ
50061-02-6trans-1,3-Dichloropropene	10.	ប
75-25-2Bromoform	10.	<u>U</u>
108-10-14-Methyl-2-Pentanone	10.	
591-78-62-Hexanone	10.	<u>U</u>
127-18-4Tetrachloroethene	10.	
79-34-51,1,2,2-Tetrachloroethane	10.	<u>U</u>
108-88-3Toluene	10.	<u>U</u>
108-90-7Chlorobenzene	10.	
100-41-4Ethylbenzene	10.	<u>u</u>
100-42-5Styrene	10.	Ū
108-38-3(m+p)Xylene	10.	U
95-47-6	10.	<u>U</u>

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW6

Lab Name: GENERAL TESTING

Contract:H & A

Lab Code:10145 Case No.:

SAS No.:

SDG No.: HADUP

__Matrix: (soil/water) WATER

Lab Sample ID:4290-7

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

Lab File ID: Q2249

Level: (low/med) LOW

Date Received:11/02/94

% Moisture: not dec.

Date Analyzed:11/08/94

GC Column:RTX-502

ID: 0.53 (mm)

Dilution Factor:

Soil Extract Volume:0

(uL)

Soil Aliquot Volume:0

(uL)

Number TICs Found:

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

1	COMPOUND NAME	RT	EST. CONC.	Q
2				
J				·
5				
1 6 1				
1 7				
8		i		l ———
J 9		· [[
10				
12				
13		. 		
14		.		
16				
17				
18 _				
19				l
20		-		
22				
23		.]		·
24		-		·
25		-		
4/-				
28				
		-	·	-
30		- 		
1		-		-1



Job #: R94/04290

SECTION D

SURROGATE SUMMARY

Lab Name: GENERAL TESTING

Contract:H & A

ab Code:10145

Case No.:

SAS No.: SDG No.:HADUP

	EDA	CHOI	63463	SMC3	Omitica	TOT
	EPA	SMC1	SMC2		OTHER	
	SAMPLE NO.	(TOL)#	(BFB)#	(DCE)#		OUT
[======	======		=====	===
01	HADUP	98	98	98_		0
02	HADUPDL	100	100	96		
03	НАТВ	98	96	96		<u> </u>
04	MW1	94	98	98		0
05	MW2	<u>98</u>	98_	96		<u> </u>
06	MW201D	98	98	96		0
07	MW202D	100	104_	94	İ	인
80	MW2DL	100	100	82_	l	0
09	MW3	<u>98</u>	102	106		0
10	MW3DL	102	104	92	l 	0
11	MW 4	102	98	100	l	0
12	<u>MW5</u>	98	98_	98	ł	<u> </u>
13	MW5DL	100	102	92		0
14	MW6	102	98	94_	l	<u> </u>
15	MW6MS	100	100	92	l	0
16	MW6MSD	98	100	92		<u> 0</u>
17	VBLK1	98	94	96	!	0
18	VBLK1MS	98	100	88		0
19	VBLK2	104	102	88		0
20						
21						
22						
23						
24					1	
25						
26				-		[
27					1	
28		[ļ ——		1	
29			1	1		
30		l	I	1		i—
50	l	I ———	1	· I ———	. 1 ———	I ——

```
OC LIMITS
SMC1 (TOL) = Toluene-d8
                                    (88-110)
SMC2 (BFB) = Bromofluorobenzene
                                    (86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4
                                    (76-114)
```

- # Column to be used to flag recovery values
- * Values outside of contract required QC limits
- D System Monitoring Compound diluted out



Job #: R94/04290

SECTION E

MS/MSD

3A WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GENERAL TESTING

Contract:H & A

-ab Code:10145 Case No.:

SAS No.: SDG No.:HADUP

Watrix Spike - EPA Sample No.: MW6

COMPOUND	SPIKE	SAMPLE	MS	MS	QC.
	ADDED	CONCENTRATION	CONCENTRATION	%	LIMITS
	(ug/L)	(ug/L)	(ug/L)	REC #	REC.
1.1-Dichloroethene Frichloroethene Benzene Toluene Chlorobenzene	50. 50. 50. 50. 50.	0. 0. 0. 0.	54. 48. 49. 47.	108 96 98 94 94	61-145 71-120 76-127 76-125 75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LI RPD	MITS REC.
1.1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	50.	50.	100	8	14	61-145
	50.	49.	98	2	14	71-120
	50.	48.	96	2	11	76-127
	50.	47.	94	0	13	76-125
	50.	47.	94	0	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

Values outside of QC limits

0 out of 5 outside limits

pike Recovery: 0 out of 10 outside limits

COMMENTS:

000041

ЗÀ WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:GENERAL TESTING

Contract:H & A

ab Code:10145 Case No.: SAS No.: SDG No.:HADUP

Matrix Spike - EPA Sample No.: VBLK1

СОМБОЛИБ	SPIKE	SAMPLE	MS	MS	QC.
	ADDED	CONCENTRATION	CONCENTRATION	%	LIMITS
	(ug/L)	(ug/L)	(ug/L)	REC #	REC.
1.1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	50. 50. 50. 50. 50.	0. 0. 0. 0.	62. 53. 53. 52. 51.	124 106 106 104 102	61-145 71-120 76-127 76-125 75-130

RPD: 0 out of 0 outside limits Spike Recovery: 0 out of 5 outside limits

COMMENTS:

000044

[#] Column to be used to flag recovery and RPD values with an asterisk

^{*} Values outside of QC limits

EPA SAMPLE NO.

VBLK1MS

Lab Name:GENERAL TESTING

Contract:H & A

Matrix: (soil/water) WATER

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q2248

Level: (low/med) LOW

Date Received: / /

ૈ Moisture: not dec.

Date Analyzed:11/08/94

Lab Sample ID:BLANK SPIKE

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

Dilution Factor: 1.0

Soil Extract Volume:0 (uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

74-87-3Chloromethane	10.	U
74-83-9Bromomethane		Ŭ
75-01-4Vinyl chloride		Ŭ
75-00-3Chloroethane		<u>U</u>
75-09-2Methylene chloride		Ŭ ·
67-64-1Acetone		Ŭ
75-15-0Carbon Disulfide	10.	<u> </u>
75-35-41,1-Dichloroethene	62.	
75-34-31,1-Dichloroethane	10.	u
156-60-5trans-1,2-Dichloroethene	10.	Ŭ
67-66-3Chloroform	10.	<u> </u>
107-06-21,2-Dichloroethane	10.	<u>v</u>
	10.	Ü
78-93-32-Butanone	10.	Ŭ
156-59-2cis-1,2-Dichloroethene	10.	Ŭ
71-55-61,1,1-Trichloroethane	10.	Ü
56-23-5Carbon tetrachloride		U U
75-27-4Bromodichloromethane	10.	U T
78-87-51,2-Dichloropropane	10.	U
10061-01-5cis-1,3-Dichloropropene	10.	<u>u</u>
79-01-6Trichloroethene	53.	Ū
124-48-1Dibromochloromethane	10.	
79-00-51,1,2-Trichloroethane	10.	<u>U</u>
71-43-2Benzene	53.	
50061-02-6trans-1,3-Dichloropropene	10.	<u>U</u>
75-25-2Bromoform	10.	<u>u</u>
108-10-14-Methyl-2-Pentanone	10.	<u>U</u>
591-78-62-Hexanone	10.	<u>u</u>
127-18-4Tetrachloroethene		<u>u</u>
79-34-51,1,2,2-Tetrachloroethane	10.	Ü
108-88-3Toluene	52.	l ———
<u> 108-90-7Chlorobenzene</u>	51.	ļ _
100-41-4Ethylbenzene	10.	<u>U</u>
100-42-5Styrene	10.	ŭ
		l
108-38-3(m+p)Xylene	10.	<u> U </u>
95-47-6o-Xylene	10.	U



Job #: R94/04290

SECTION F

BLANK DATA

4A VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1

Lab Name: GENERAL TESTING Contract: H & A

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

SDG No.: HADUP

Lab File ID:Q2247

Lab Sample ID: METHOD BLANK

Date Analyzed:11/08/94 . Time Analyzed:2024

GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID:MS5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA	LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	=========			
01	<u>HADUP</u>	4290-5	<u>Q2256</u>	0213
02		4290-1	02252	2349
03	MW1	4290-9	02259	0402
04	MW2	4290-8	Q2258	0326
05		4290-3	02254	0101
06	MW202D	4290-2	Q2253	0025
07	MW3	4290-10	Q2260	0438
08	MW4	4290-6	02257	0250
09	MW5	4290-4	Q2255	0137
10	MW6	4290-7	Q2249	2144
11	MW6MS	4290-7MS	Q2250 <u> </u>	2228
12	MW6MSD	4290-7MSD	02251	2313
13	VBLK1MS	BLANK SPIKE	Q2248	2104
14	l			
15			i	
16				
17				
18				
19				
20				
21				
22				
23				
24				}
25		1		
26				
27				
28				
29				
30				

COMMENTS:

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1

Lab Name:GENERAL TESTING

Contract:H & A

ab Code:10145 Case No.: SAS No.:

SDG No.: HADUP

Matrix: (soil/water) WATER

Lab Sample ID: METHOD BLANK

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

Lab File ID: Q2247

Level: (low/med) LOW

Date Received: / /

% Moisture: not dec.

Date Analyzed:11/08/94

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

Dilution Factor: 1.0

Soil Extract Volume:0

(uL)

Soil Aliquot Volume: 0 (uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

74-87-3	-Chloromethane	10.	<u>U</u>
74-83-9		10.	Ū
	-Vinyl chloride	10.	Ŭ
75-00-3		-	11
	-Methylene chloride	10.	37
67-64-1	-Acetone	10.	<u>U</u> U
	-Carbon Disulfide	10.	Ŭ
	-1,1-Dichloroethene	10.	ŭ
	-1,1-Dichloroethane	10.	Ŭ
	-trans-1,2-Dichloroethene	10.	Ü
67-66-3		10.	<u>Ū</u>
	-1.2-Dichloroethane	10.	Ü
78-93-3		10.	Ü
	-cis-1,2-Dichloroethene	10.	Ū
	-1,1,1-Trichloroethane	10.	U
56-23-5	Carbon tetrachloride	10.	Ü
	-Bromodichloromethane	10.	
	-1,2-Dichloropropane	10.	<u>U</u> U
10061-01-5	-cis-1,3-Dichloropropene	10.	Ü
	Trichloroethene	10.	U
	Dibromochloromethane	10.	Ū
	-1.1.2-Trichloroethane	10.	
71-43-2	Benzene	10.	Ū
	trans-1,3-Dichloropropene	10.	
75-25-2		10.	<u>U</u>
	-4-Methyl-2-Pentanone	10.	Ü
591-78-6		10.	Ü
	Tetrachloroethene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3		10.	1
	Chlorobenzene	10.	
100-41-4		10.	I -
100-42-5		10.	บี
	,		
108-38-3	(m+p)Xvlene	10.	Ü
_95-47-6		10.	Ü

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:GENERAL TESTING Contract:H & A

VBLK1

ab Code:10145 Case No.: SAS No.: SDG No.:HADUP

Matrix: (soil/water) WATER Lab Sample ID: METHOD BLANK

Lab File ID: Q2247

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

Level: (low/med) LOW

Date Received: / /

Moisture: not dec.

Date Analyzed:11/08/94

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

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

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Lab Name: GENERAL TESTING Contract: H & A

VBLK2

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

Lab File ID:Q2264

Lab Sample ID: METHOD BLANK

Date Analyzed:11/09/94

Time Analyzed:0927

△GC Column:RTX-502 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID:MS5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

1	EPA	LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
		SARPE 10		ANADI DED
01	HADUPDL	4290-5DL	02271	1424
02	MW2DL	4290-8DL	Q2269 `	1313
03	MW3DL	4290-10DL	02266	1054
04	MW5DL	4290-4DL	Q2270	1348
05	144504	<u> 4670 40B</u>		
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COMMENTS:

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2 Contract:H & A

Lab Name:GENERAL TESTING

Lab Code:10145 Case No.:

SAS No.: SDG No.:HADUP

_Matrix: (soil/water) WATER

Lab Sample ID: METHOD BLANK

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

Lab File ID: Q2264

Level: (low/med) LOW

Date Received: / /

% Moisture: not dec.

Date Analyzed:11/09/94

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

Dilution Factor: 1.0

Soil Extract Volume: 0 (uL)

Soil Aliquot Volume:0

(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

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

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74-87-3Chloromethane	10.	ַ
74-83-9Bromomethane	10.	U
75-01-4Vinvl chloride	.	Ū
75-00-3Chloroethane	10.	U
75-09-2Methylene chloride		Ŭ
67-64-1Acetone		<u> </u>
75-15-0Carbon Disulfide		U
75-35-41,1-Dichloroethene		<u> </u>
75-34-31,1-Dichloroethane		Ü
156-60-5trans-1,2-Dichloroethene	10.	<u>u</u>
67-66-3Chloroform	10.	Ü
107-06-21,2-Dichloroethane	10.	<u>u</u>
78-93-32-Butanone	10.	Ü
156-59-2cis-1,2-Dichloroethene	10.	<u>U</u>
71-55-61,1,1-Trichloroethane	10.	Ü
56-23-5Carbon tetrachloride	10.	U
75-27-4Bromodichloromethane	10.	<u>U</u>
78-87-51,2-Dichloropropane	10.	U
10061 01 5		
10061-01-5cis-1,3-Dichloropropene	10.	
79-01-6Trichloroethene	10.	<u>U</u>
124-48-1Dibromochloromethane	10.	
79-00-51,1,2-Trichloroethane	10.	
71-43-2Benzene	10.	<u>U</u>
50061-02-6trans-1,3-Dichloropropene	10.	<u>U</u>
75-25-2Bromoform	10.	U
108-10-14-Methyl-2-Pentanone	10.	U
_591-78-62-Hexanone	10.	<u>U</u>
127-18-4Tetrachloroethene	10.	U
<u>79-34-51,1,2,2-Tetrachloroethane</u>	10.	<u>U</u>
108-88-3Toluene	_	<u>n</u>
108-90-7Chlorobenzene	10.	U
100-41-4Ethylbenzene	10.	<u>U</u>
100-42-5Styrene	_ 10.	<u>u</u>
108-38-3(m+p)Xylene	10.	Ū
95-47-6o-Xylene	10.	U
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EPA SAMPLE NO.

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Lab Name: GENERAL TESTING

Contract:H & A

_Matrix: (soil/water) WATER

Lab Sample ID: METHOD BLANK

Sample wt/vol: 5.00 (g/ml) ML Lab File ID: Q2264

Level: (low/med) LOW

Date Received: / /

Moisture: not dec.

Date Analyzed:11/09/94

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

CONCENTRATION UNITS:

(ug/L or u	ig/Kg)	UG/L
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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GENERAL TESTING

Contract: H & A

Lab Code:10145

Case No.:

SAS No.:

SDG No.:HADUP

■ Lab File ID (Standard):Q2246

Date Analyzed:11/08/94

Instrument ID:MS5

Time Analyzed:1935

GC Column:RTX-502

ID: 0.53 (mm)

Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD UPPER LIMIT LOWER LIMIT	101151 202302 50576	9.99 10.49 9.49	444974 889948 222487	11.75 12.25 11.25	374273 748546 187137	18.24 18.74 17.74
	EPA SAMPLE						
01	VBLK1	97209	10.03	440283	11.78	378498	18.25
02	<u>VBLK1MS</u>	91419	10.04	397516	11.78	<u>350167</u>	18.30
03	<u>MW6</u>	94228	10.01	413464	11.76	347670	18.27
04	MW6MS	<u>95686</u>	<u>9.98</u>	415363	11.74	<u>360564</u>	<u> 18.27</u>
05	MW6MSD	94428	9.97	415924	11.73	360045	18.25
06	НАТВ	91375	<u>10.06</u>	398403	11.83	<u>348025</u>	<u> 18.34</u>
07	MW202D	90881	10.04	<u>396130</u>	<u>11.79</u>	333667	<u>18.34</u>
08	MW201D	90805	10.08	395874	11.83	348976	18.34
09	<u>MW5</u>	89293	<u> 10.06</u>	398799	11.81	<u>350080</u>	18.29
10	<u>HADUP</u>	90049	10.08	405659	11.85	348104	18.34
11	MW4_	84548	10.08	373708	11.85	319498	18.34
12	MW2	89172	10.08	379142	11.85	335804	18.35
13	<u>MW1</u>	88397	<u> 10.08</u>	387126	11.83	<u>343166</u>	18.34
14	<u>MW3</u>	78764	10.09	<u>358988</u>	11.86	318211	<u> 18.34</u>
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
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AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = -50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

IS3 (CBZ) = Chlorobenzene-d5

[#] Column used to flag values outside of QC limits with an asterisk.

^{*} Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GENERAL TESTING

Contract:H & A

ab Code:10145

Case No.:

SAS No.:

SDG No.: HADUP

Lab File ID (Standard):Q2263

Date Analyzed:11/09/94

nstrument ID:MS5

Time Analyzed:0833

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

Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD UPPER LIMIT LOWER LIMIT	89932 179864 44966	10.06 10.56 9.56	401699 803398 200850	11.83 12.33 11.33	347452 694904 173726	18.35 18.85 17.85
	EPA SAMPLE NO.	========					
01 02	VBLK2 MW3DL	<u>87685</u> 81066	9.94	<u>362993</u> 352335	11.69 11.78	325999 307916	18.23 18.29
3	MW2DL MW5DL	93267 82283	9.94	347633 355307	11.66 11.78	339842 310412	18.22 18.27
05	HADUPDL	<u>85043</u>	10.09	377162	11.85	329525	18.34
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area AREA LOWER LIMIT = - 50% of internal standard area RT UPPER LIMIT = +0.50 minutes of internal standard RT RT LOWER LIMIT = -0.50 minutes of internal standard RT

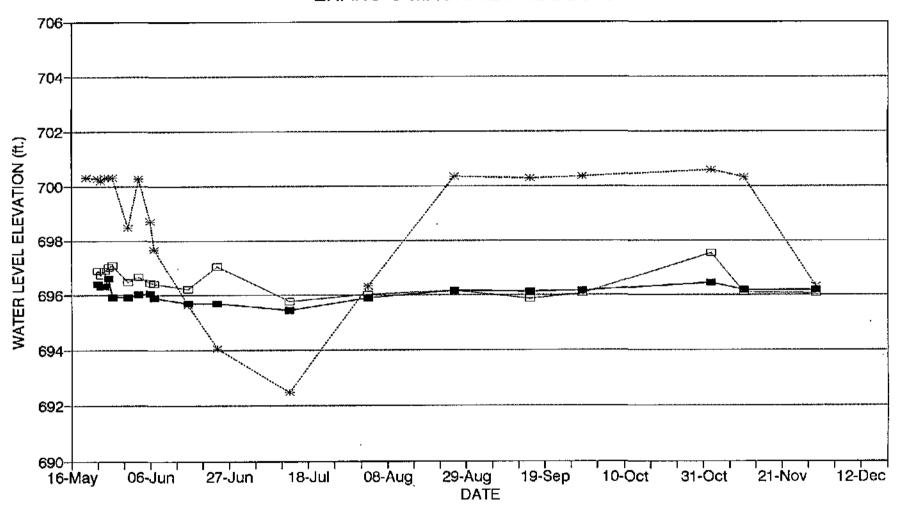
Column used to flag values outside of QC limits with an asterisk.

* Values outside of QC limits.

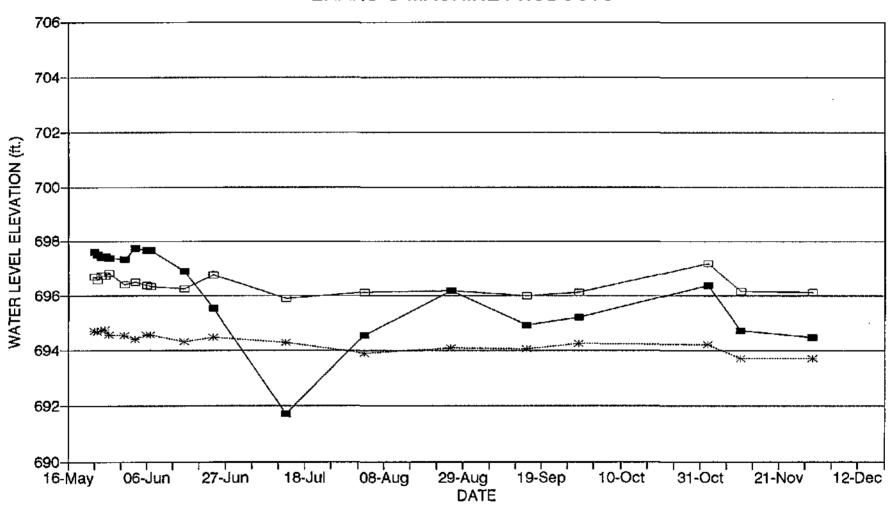
APPENDIX B

Hydrographs for Honeoye Creek and On-site Monitoring Wells

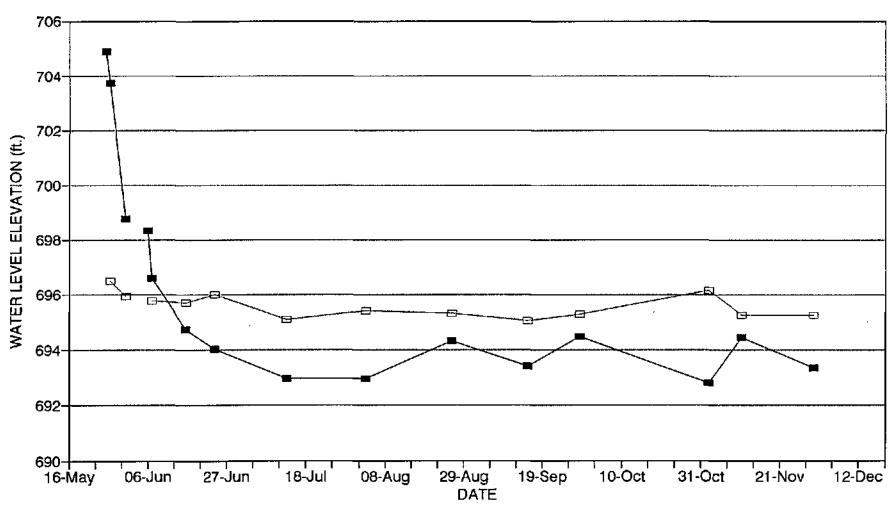




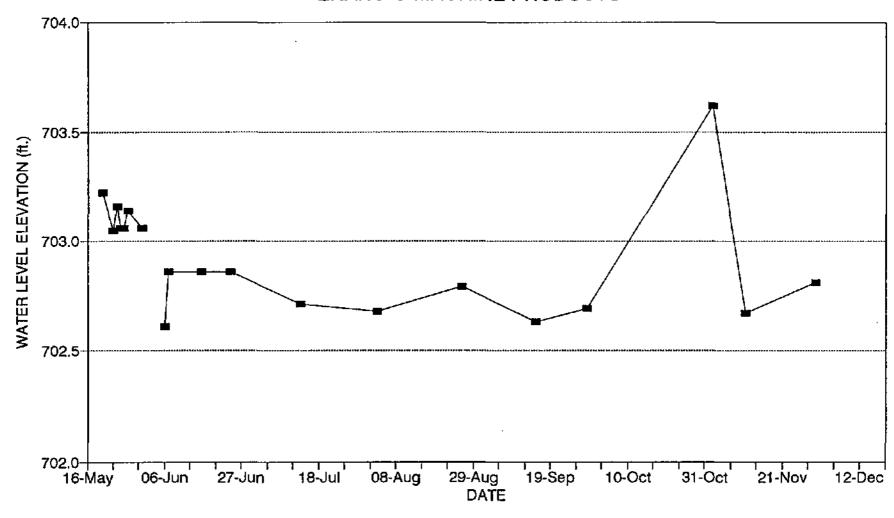
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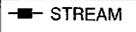


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→ MW-201D → MW-202





APPENDIX C

Draft Fish and Wildlife Impact Analysis Report



Fish and Wildlife Impact Analysis

for the

Enarc-O Machine Products Site

DRAFT

Provided by: Thomas P. Connare, TPC Environmental Consulting

INTRODUCTION

This report presents a habitat-based analysis of fish and wildlife usage of the area surrounding the Enarc-O Machine Products site in Lima, Livingston County, New York. The analysis follows the guidelines established in Step One in the document prepared by the New York State Department of Environmental Conservation (NYSDEC) Division of Fish and Game entitled Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites (FWIA), (1991). The objective of Step One of the FWIA is to identify fish and wildlife resources that may potentially be impacted by site-related contaminants. Step One requires such resource information be provided in the form of site maps and descriptions of site covertypes and utilization of site covertypes by fish and wildlife.

The analysis was conducted by TPC Environmental of Buffalo, New York. Site information was collected during both an on-site field investigation on July 24, 1994 and a review of NYSDEC files in Avon, New York. Historic aerial photography of the site was obtained at the Soil and Water Conservation District Office for Livingston County in Leicester, New York.

TOPOGRAPHIC MAP

A topographic map showing the site location and significant water resources and New York State regulated wetlands within a two mile radius of the site is presented as Figure 1. The village of Lima is located just over two miles southwest of the Enarc-O site. The Town of Honeoye Falls is located about one mile northwest of the site. Honeoye Creek flows northwesterly through the site area

-2-

New York State Natural Heritage Program maps indicate that there are no NYSDEC significant habitats or habitats supporting endangered, threatened or rare species within a two mile radius of the site. Similarly, there are no wild and scenic rivers located within two miles of the site.

NYSDEC freshwater wetland maps for Monroe, Livingston and Ontario Counties indicate that state regulated wetland HF-4 is located approximately one mile southwest of the site and state regulated wetland HF-1 is located approximately 7000 feet southwest of the site.

NYSDEC deer wintering maps for the same three counties indicate that the closest deer wintering area to the site is just over two miles north of the site, north of Cheese Factory Road and west of Quaker Meetinghouse Road.

COVERTYPE MAP

A covertype map of the study area is presented as Figure 2. The study area is the area described by a circle within a 0.5 mile radius of the site. The covertype map identifies the location of significant vegetative communities, agricultural fields and aquatic resources. Identification of significant covertypes and fish and

wildlife resources in the study area was made by Thomas P. Connare (biologist) during the on-site field investigation on July 24, 1994.

COVERTYPES AND FISH AND WILDLIFE RESOURCES

Most of the general area including the site study area has historically been a rural farming community. Much of the area is still being farmed. The site is actually located in the small township of North Bloomfield. The study area north of the Enarc-O site is largely residential, especially along Ideson Road, Bean Hill Road, Martin Road, Quaker Meetinghouse Road and State Route 65. Most of the study area south of the site is agricultural. At the time of the field investigation, the main crops being grown were beans, corn and wheat. An agricultural area east of the site and immediately north of Route 65 was in corn and wheat. The old race track grounds were being used for hay and pasture.

When land used for farming and pasture shifted to commercial and residential development, most of the abandoned fields began to undergo ecological succession. Ecological succession is a fairly predictable sequence where an area disturbed by farming or logging will revert back to the climax vegetative community characteristic of the area. This process is characterized by a series of developing plant communities in which various plant species populations are usually replaced by others over time.

-4-

Many of the vegetative communities present in the study area represent different stages in this process. Areas of poor drainage and areas along stream courses, hedgerows and boundary lines typically represent the most advanced stages of succession. These stages are dominated by woody vegetation including both trees and shrubs. Younger stages in the successional process are dominated by herbaceous annuals and perennials. Species composition of the developing stages will depend on moisture regime, drainage and seed source. Covertypes identified in the study area include both upland and wetland vegetative communities. Plant species identified in these communities during the field investigation are listed in Table 1. Wetland plant communities were only identified along the immediate banks of portions of Honeoye Creek. .

UPLAND COVERTYPES

OLD FIELD

The old field plant community is an early stage in succession where recently abandoned agricultural fields are being colonized by an aggressive pioneer herbaceous community and seedlings of woody shrubs and trees. Plant species identified as common in old field communities in the study area include the grasses tall fescue, timothy and hairgrass along with Canada goldenrod, Canada thistle, Virginia creeper, poison ivy, staghorn sumac and green ash.

SHRUBLAND

Shrublands represent old field communities typically greater than ten years old where woody vegetation including shrub and saplings have become dominant. Shrublands are typically patchy in appearance with large clumps of shrubs mixed with saplings and open—areas of persistent herbaceous species. There were no significant shrublands observed in the study area. What shrub areas there were tended to be along the margins of woodlots. A small shrubland was identified between two woodlot areas immediately north of a large wheat field east of Bragg Road. Plant species common in this shrubland include staghorn sumac, tartarian honeysuckle, green ash, scotch pine, black walnut, reed canary grass, Virginia creeper and summer grape. Typical woodlot edge plant species common in the study area include arrowwood, dogwoods, staghorn sumac, poison ivy, Virginia creeper, pokeweed, Canada thistle, raspberry and grape.

WOODLOT

Woodlots common to the study area are of several different types. The most common woodlot type observed is an upland forest community representing an advanced stage of old field succession. Tree species common in these woodlots include shagbark hickory, basswood, box elder, green ash, sugar maple, hawthorn and buckhorn. Other species common in these communities include

tartarian honeysuckle, Virginia creeper, white avens, enchanter's nightshade and grape.

Older, mature forested areas were observed along the upper banks and sloping areas associated with much of Honeoye Creek. Tree species identified in these areas include black walnut, black locust, basswood, sugar maple and beech. Other species include honeysuckle, Virginia creeper, garlic mustard, mayapple and enchanter's nightshade.

A small woodlot in the southwest portion of the study area, immediately west of a large bean field is dominated by conifers. This woodlot was apparently planted by man and includes many mature specimens of Norway spruce, scotch pine and red pine as well as green ash, white oak, staghorn sumac, poison ivy, Virginia creeper and grape.

WETLAND COVERTYPES

No significant wetland areas were identified in the study area except immediately adjacent to Honeoye Creek. The wetter, less well drained sections of some of the woodlots in the study area had greater percentages of green ash, shagbark hickory and basswood.

The riparian wetlands bordering Honeoye Creek in the study area were mostly associated with the lower level of the bank close to the level of the creek bed. Tree species identified as common along the creek include black willow, green ash, eastern

cottonwood, basswood and box elder. Vegetation growing along the creek bottom and waters edge included lizard tail, cattail, buttonbush, joe pye weed, reed canary grass, green bulrush, Phragmites, white vervain, intermediate dogbane, silky dogwood and fowl manna grass.

AQUATIC HABITATS

Honeoye Creek is the only major aquatic resource in the study area. Honeoye Creek flows northwesterly through the study area, ultimately discharging into the Genesee River which flows to Lake Ontario.

Honeoye Creek, as observed in the study area, is a relatively wide and shallow, slow moving warm water stream. The primary substrate is sedimentary rock, principally limestone and shale. Throughout much of the summer and fall months, much of the stream bed lies above water except following heavy rains. A series of small falls are common along the stream's length and are typically associated with weathered joints in the bedrock. Deeper pool areas are found where sections of bedrock have weathered away in the vicinity of the falls. Algal growth is common along the shallower, slower moving sections of the creek. Beds of lizard tail, reed canary grass and cattail occur where suitable substrate is available.

No physical or chemical measurements were taken in the creek

during the site investigation. At that time the water level was low with much of the bedrock substrate exposed above the water level.

WILDLIFE USAGE

TERRESTRIAL BIOTA

The variety of covertypes in the study area support a diverse yet common wildlife community. The most common species in this community are those whose populations have flourished since human settlement. The proximity to active agricultural fields in the study area permits access to a readily available food source during much of the year for several wildlife species. The many woodlot habitats in the area provide ideal daily and seasonal cover for these species.

A list of mammal, reptile and amphibian species potentially present in the study area are presented in Tables 1-5. This species list was generated based on a field assessment of available wildlife habitat and on resource information indicating the mapped range for each species. During the field survey, several deer were observed in the agricultural fields. Numerous woodchuck burrows were also observed. Local residents indicated that red fox, eastern cottontail and raccoon are also common in the area including the site.

Bird species potentially breeding in the study area are listed in table 3. This list was generated based on a field

survey of suitable breeding habitat and on a recent breeding status report for New York State (1988). Birds display widespread migration and localized movement patterns and it would be difficult to assess passing versus territorial usage of the study area by different species. Birds observed during the field survey included migrant as well as permanent residents. Probable permanent resident species in the study area include American crow, starling, bluejay, black-capped chickadee, goldfinch, northern cardinal, house finch, house sparrow, song sparrow, brown creeper, white-breasted nuthatch, mourning dove, downy woodpecker, redtail hawk, American kestrel and dark sided junco. Other birds observed during the survey included northern flicker, redeyed vireo, eastern wood pewee, catbird, purple martin, barn swallow, kingfisher, pectoral sandpiper, great blue heron, killdeer, house wren, turkey vulture, northern oriole, robin, common grackle, cedar waxwing and indigo bunting.

The successional old field, shrubland and second growth woodlot covertypes in the study area, in combination with the agricultural fields and riparian corridor of Honeoye Creek, are patchy environments that provide ideal habitat for white tail deer, eastern cottontail, striped skunk, raccoon, woodchuck and numerous small rodents, especially gray and red squirrel, chipmunk and

meadow vole. Numerous bird species utilize these habitats on a year-round basis due to the bountiful supply of insects, berries and seeds common in the shrub and herbaceous vegetation. Predator species such as weasel, fox, shrew, redtail hawk, screech owl and American kestrel prey on the many small mammals and birds in these areas.

The more mature woodlots and wooded areas along portions of Honeoye Creek provide food, shelter and nesting sites for a variety of wildlife species including eastern gray squirrel, white tail deer, raccoon and small rodents such as deer mice, vole and chipmunk. Resident bird species utilizing these areas include bluejay, chickadee, brown creeper, white-breasted nuthatch, downy woodpecker, northern flicker, junco and American crow. Seasonal migrants commonly breeding here include northern oriole, eastern wood pewee, redeyed and warbling vireos, hooded warbler and wood thrush. The fragmentation of woodland habitat in most rural farming areas has resulted in the elimination or sharp reduction of many mammal and bird species that require forest interior habitat characteristic of large, unbroken tracts of woodland.

In addition to providing habitat for resident populations of mammals and birds, riparian habitat also serves as dispersal corridors for many species. Dispersal corridors provide long strips of protective habitat bordering relatively unsuitable habitat making it possible for species to colonize other fragmented

habitats. Honeoye Creek provides such a corridor.

AQUATIC BIOTA

Honeoye Creek is categorized as a warm water stream and as such is able to support a limited warm water fishery. Although no fish sampling has been conducted by NYSDEC fishery biologists in recent years, collections from the 1950's and the 1970's yielded the following species: northern hogsucker, rock bass, smallmouth bass, bluegill, pumpkinseed, black nose dace, common shiner, stoneroller, white sucker, creek chub, brown bullhead, several darters, logperch, golden shiner, crappie, carp, fat head minnow, redhorse and largemouth bass. A fishery biologist with the NYSDEC indicated that walleye and chain pickerel are resident in the Genesee River and may occasionally enter Honeoye Creek; he added that the creek does not provide a suitable environment for salmonids.

It is unlikely that Honeoye Creek supports a diverse fish community in the study area due to low water flow and the generally shallow nature of the creek in summer. Local residents indicated that some smallmouth bass are found in some of the deeper pool areas and that there is a good crayfish population in the creek.

In addition to a fishery, Honeoye Creek provides feeding and shelter habitat for a variety of mammal, reptile, amphibian and bird species. Raccoon, mink, muskrat and shrews would be expected

to feed here. Birds observed feeding in the creek during the survey included kingfisher, great blue heron, mallard, killdeer and pectoral sandpiper. A local resident observed that killdeer had nested on the dry creek bottom. Other species utilizing the creek habitat would include redwing blackbird, common grackle, swamp sparrow, marsh wren, common yellowthroat, song sparrow, green back heron, black crown night heron, eastern kingbird and several swallow species.

VALUE OF RESOURCES TO HUMANS

Human use of fish and wildlife resources within the study area include hunting, fishing and primary contact recreation in portions of Honeoye Creek. Local ordinances prohibit hunting within a specified distance of structures such as buildings, roads and railroad tracks. Deer are plentiful in the general region including the study area but it is not known if hunting actually occurs in the study area, given the proximity to residences and roads. Hunting of woodchuck, squirrel and certain bird species is possible within the study area.

Although sections of Honeoye Creek probably support a relatively diverse warm water fish community, fishing pressure is probably light within the study area. According to local residents, there is some fishing for smallmouth bass and perhaps sunfish and bullhead in a few of the deeper "holes" in the creek. Youths were

observed collecting crayfish in the creek during the field survey.

Aside from these occasions of casual fishing, there probably is

very little sport fishing in the creek in the study area.

Much of Honeoye Creek, especially in the areas of higher density human inhabitance, has been designated as Class B by New York State. Class B waters are classified as suitable for primary contact recreation such as swimming and wading. There was ample evidence during the stream survey that local residents utilize the creek for recreational activity such as wading, hiking and collecting.

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TABLE 1

COMMON AND SCIENTIFIC NAMES OF PLANT SPECIES IDENTIFIED AT THE ENARCO-O MACHINE PRODUCTS SITE

TREES		
COMMON NAME	SCIENTIFIC NAME	
Green Ash	Fraxinus pennsylvanica	
Black Locust	Robinia pseudoacacia	
Black Willow	Salix nigra	
Black Walnut	Juglans nigra	
Eastern Cottonwood	Populus deltoides	
Shagbark Hickory	Carya ovata	
Sugar Maple	Acer saccharum	
American Beech	Fagus grandifolia	
American Basswood	Tilia americana	
Box Elder	Acer negundo	
Buckthorn	Rhamnus cathartica	
Hawthorn	Crataegus sp.	
Apple	Malus sp.	
Black Cherry	Prunus serotina	
American Elm	Ulmus americana	
Red Maple	Acer rubrum	
Scotch Pine	Pinus sylvestris	
Red Pine	Pinus resinosa	
Norway Spruce	Picea abies	
Swamp White Oak	Quercus bicolor	
SHRU	BS AND VINES	
Silky Dogwood	Cornus amomum	
Staghorn Sumac	Rhus typhina	
Tartarian Honeysuckle	Lonicera tatarica	
Northern Arrowwood	Viburnum dentatum	

TABLE 1-CONTINUED

COMMON AND SCIENTIFIC NAMES OF PLANT SPECIES

IDENTIFIE ENARCO-O MACHI	D AT THE NE PRODUCTS SITE
Buttonbush	Cephalanthus occidentalis
Multifloral Rose	Rosa multiflora
Raspberry	Rubus alleganiensis
Poison Tvý	Toxicodendron radicans
Virginia Creeper	Parthenocissus quinquefolia
Summer Grape	Vitis aestivalis
Currant	Ribes sp.
HERBA	CEOUS
Lizardtail	Saururey cernuus
Joe-pye Weed	Eupatorium maculatum
Reed Canary Grass	Phalaris arundinacea
Pokeweed	Phytolacca americana
Tall Fescue	Fescue elatior
Timothy	Phleum pratense
Hairgrass	Deschampsia flexuosa
Canada Goldenrod	Solidago canadensis
Canada Thistle	Cirsium arvense
Garlic Mustard	Alliaris officinalis
Moneywort	Lyoimachin numularia
White Avens	Geum laciniatum
Touch-me-not	Impatiens capensis
Mayapple	Podophyllum peltatum
Wild Bergamot	Monarda fistulosa
Daisy Fleabane	Erigeron annuus
Wild Ginger	Asarum canadense
Lance-leaved Goldenrod	Euthamia graminifolia
Cattail	Typha latifolia
Enchanter's Nightshade	Circe quadrisulcata
Agrimony	Agrimonia sp.

TABLE 1-CONTINUED

COMMON AND SCIENTIFIC NAMES OF PLANT SPECIES IDENTIFIED AT THE

ENARCO-O MACHINE PRODUCTS SITE		
Green Bulrush	Scirpus atrovirens	
Fowl Manna Grass	Glyceria striata	
Intermediate Dogbane	Apocynum medium	
Common Reed	Phragmites communis	
White Vervain	Verbena urticifolia	

TABLE 2 MAMMAL SPECIES POTENTIALLY PRESENT AT THE ENARC-O MACHINE PRODUCTS SITE

COMMON NAME	SCIENTIFIC NAME
Northern water shrew	Sorex palustris
Masked shrew	Sorex cinereus
Short-tailed shrew	Blarina brevicauda
Least shrew	Crypototis parva
Hairy-tailed mole	Parascalops breweri
Star-nosed mole	Condylura cristata
Little brown bat	Myotis lucifugus
Big brown bat	Eptesicus fuscus
Eastern cottontail rabbit	Sylvilagus floridanus
Opossum	Didelphis virginiana
Eastern chipmunk	Tamias striatus
Woodchuck	Marmota monax
Gray squirrel	Sciurus carolinensis
Red squirrel	Tamiasciurus hudsonicus
Deer mouse	Peromyscus maniculatus
White-footed mouse	Peromyscus leucopus
Meadow vole	Microtus pennsylvanicus
Muskrat	Ondotra zibethica
Norway rat	Rattus norvegicus
House mouse	Mus musculus
Meadow jumping mouse	Zapus hudsonicus
Woodland jumping mouse	Napaeozapus insignis
Coyote	Canis latrans
Red fox	Vulpes fulva
Eastern raccoon	Procyon lotor
Ermine	Mustela erminea

TABLE 2 - CONTINUED MAMMAL SPECIES POTENTIALLY PRESENT AT THE ENARC-O MACHINE PRODUCTS SITE

COMMON NAME	SCIENTIFIC NAME
Long-tailed weasel	Mustela frenata
Mink	Mustela vison
Striped skunk	Mephitis mephitis
White-tailed deer	Odocoileus virginianus

TABLE 3 BIRD SPECIES POTENTIALLY PRESENT AT THE ENARC-O MACHINE PRODUCTS SITE

Wood thrush
Northern shrike
Mockingbird
Brown thrasher
Cedar waxwing
Starling .
Warbling vireo
Blue-winged warbler
golden-winged warbler
Yellow warbler
Chestnut-sided warbler
Belted kingfisher
Common yellowthroat
American redstart
Rose-breasted grosbeak
Northern cardinal
Indigo bunting
Rufous-sided towhee
Savannah sparrow
Song sparrow
Field sparrow
Chipping sparrow
Dark-sided junco
Bobolink
Eastern meadowlark
Red-winged blackbird

TABLE 3 - CONTINUED BIRD SPECIES POENTIALLY PRESENT AT THE ENARC-O MACHINE PRODUCTS SITE

<u></u>	
Cooper's hawk	Sharp-shinned hawk
Common grackle	Brown-headed cowbird
Tufted titmouse	Orchard oriole
Black-capped chickadee	Northern oriole
White-breasted nuthatch	House sparrow
Brown creeper	American goldfinch
House wren	House finch
Eastern bluebird	American robin

TABLE 4 AMPHIBIAN SPECIES POTENTIALLY PRESENT AT THE ENARC-O MACHINE PRODUCTS SITE

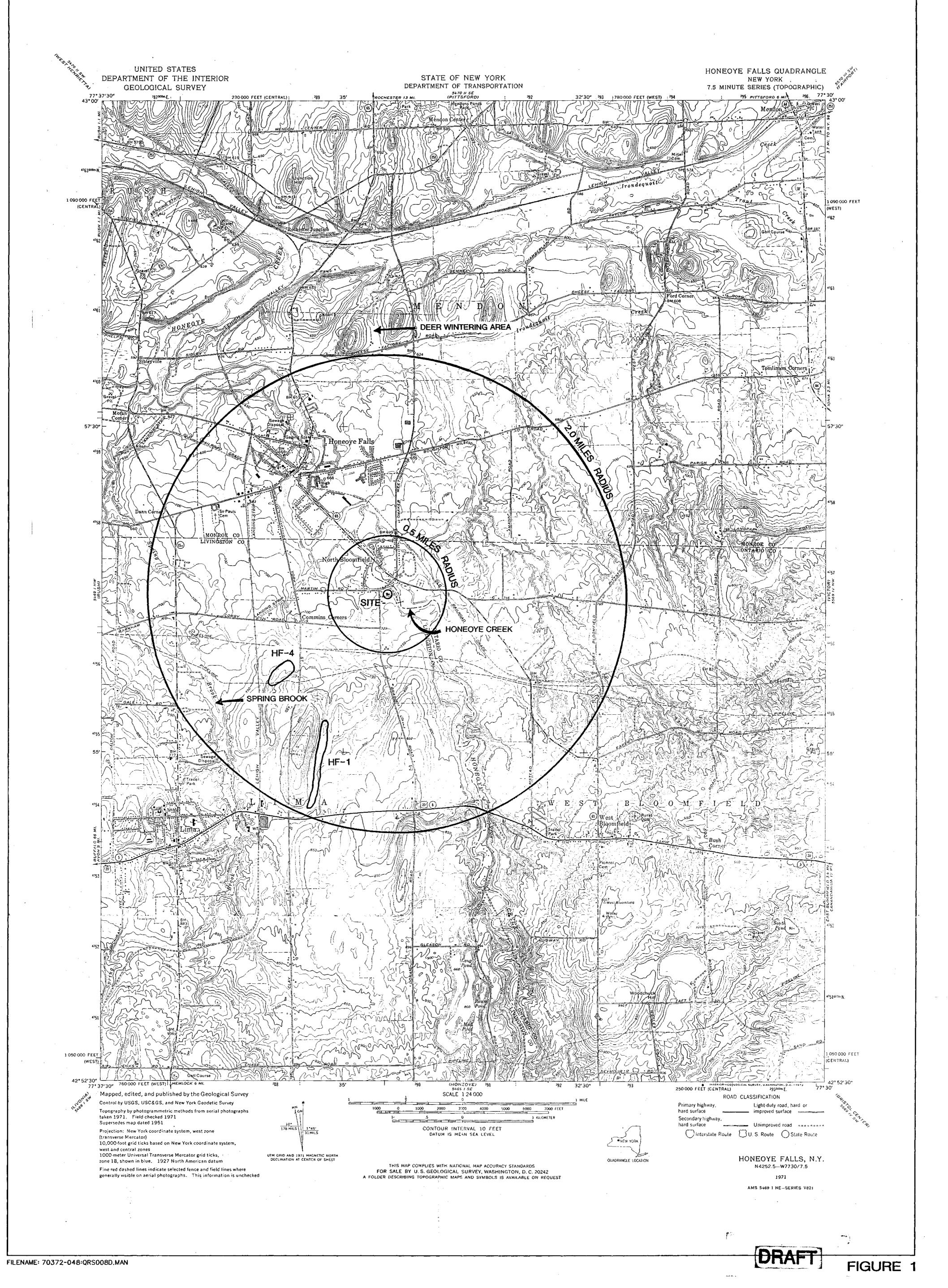
COMMON NAME	SCIENTIFIC NAME
Newt	Notophthalmus viridescens
American toad	Bufo americanus
Northern spring peeper	Hyla crucifer
Western chorus frog	Pseudacris triseriata
Gray treefrog	Hyla versicolor
Bullfrog	Rana catesbeiana
Green frog	Rana clamitans
Pickerel frog	Rana palustris
Leopard frog	Rana pipiens
Wood frog	Rana sylvatica

TABLE 5 REPTILE SPECIES POTENTIALLY PRESENT AT THE ENARC-O MACHINE PRODUCTS SITE

COMMON NAME	SCIENTIFIC NAME
Northern ring-neck snake	Diadophis punctatus
Eastern smooth green snake	Opheodrys vernalis
Milk snake	Lampropeltis triangulum
Water snake	Natrix sipedon
Northern brown snake	Storeria dekayi
Northern red-bellied snake	Storeria occipitomaculata
Northern ribbon snake	Thamnophis sauritus
Garter snake	Thamnophis sirtalis
Northern black racer	Coluber constrictor
Snapping turtle	Chelydra serpentina
Midland painted turtle	Chrysemys picta

KADDIS MANUFACTURING ENARC-O MACHINE PRODUCTS LIMA, NEW YORK

ENVIRONMENTAL RISK ASSESSMENT STUDY AREA MAP



KEY TO "COVER-TYPE" MAP

- 1. Agricultural (Ag) Field
- 2. Old Field
- 3. Shrubland
- 4 Woodlot
- 5. Riparian Wetland (follows Honeoye Creek immediately adjacent to stream bank; a narrow strip of woodland)

Note: The remainder of the land area is residential and commercial.

DRAFT

