NOV 0 6 1995

1064

MATRIX
Environmental Technologies

25 Kraft Avenue #2
Albany, New York 12205

(518) 438-7656
Fax (518) 438-7710

LETTER OF TRANSMITTAL

DATE: November 2, 1995
VIA: Regular Mail

TO: Mr. Richard Spiese
ADDRESS: VT DEC
103 South Main Street
Waterbury, VT 05671

ATTENTION: Mr. Spiese

WE ARE SENDING YOU:

X	HEREWITH	___	UNDER SEPARATE COVER
___	PRINTS	___	SPECIFICATIONS
___	TRACINGS	___	OTHER

Third Quarter 1995 Site Status Report: Sun/Barre, 377 Main Street, Barre, Vermont (DUNS #0364-0562)

THESE ARE:

___	APPROVED	___	FOR YOUR APPROVAL
___	NOT APPROVED	X	FOR YOUR REVIEW
___	NO EXCEPTIONS OBSERVED	___	PER YOUR REQUEST
___	REVISED & RESUBMITTED	___	FOR YOUR FILES
___	RETURN CORRECTED COPIES	___	OTHER

REMARKS/COMMENTS:

IF ENCLOSURES RECEIVED ARE NOT AS LISTED ABOVE, PLEASE CONTACT ME AT (800)-430-0103 AS SOON AS POSSIBLE.

SINCERELY,
Matrix Environmental Technologies Inc.

BY: Philip N. Holloway
Project Manager

cc: William Morse, Sun Company, Inc.
Regional Abare, City of Baree
Public Works

THIRD QUARTER REPORT

SEPTEMBER 1995

Sun Atlantic Facility # 60869
DUNS # 0364-0562
377 North Main Street
Barre, Vermont
Matrix Project # VT-92001
VT DEC #92-1064

PRIMARY CONSULTANT: Matrix Environmental Technologies Inc.

PROJECT MANAGER: Michael Bullock

SUN COMPANY CONTACT: William R. Morse

SITE HISTORY: Sun Company, Inc. (SUN) retained Groundwater Technology, Inc. (GTI) on October 13, 1990 to conduct a site assessment at Atlantic Facility #60869 at 377 North Main Street, Barre, Vermont. Chemical analysis of soil and water samples obtained during the installation of four monitoring wells on November 8 and 9, 1990 confirmed the existence of dissolved hydrocarbons in the overburden beneath this site.

On November 15, 1990 all three underground storage tanks were tested for containment integrity and all passed. On May 15, 1991, liquid phase petroleum was discovered in monitoring wells MW3 and MW4. Baildown testing and recovery was implemented through August 23, 1991. No free phase petroleum has been detected in either of these monitoring wells since August 23, 1991. On June 3, 4, and 5, 1991, the three gasoline underground storage tanks (UST's) were closed by removal, along with an underground fuel oil tank and a waste oil drum.

The Vermont Department of Environmental Conservation (VTDEC) Sites Management Section requested SUN and their consultant to present a work plan to define and address the presence of dissolved and liquid phase hydrocarbons at the site. A Remedial Action Plan (RAP) dated November 12, 1991, developed by GTI, called for the installation of two additional down-gradient monitoring wells (MW5 and MW6), and a five point soil vapor extraction system (SVES) with vapor treatment by two granular activated carbon (GAC) units. This SVES was initially activated April 14, 1992.

On June 1, 1992, Matrix Environmental Technologies Inc (Matrix) assumed monitoring and maintenance responsibilities at this site. In late September 1992, WESCO purchased the property for development of a new Mini-Mart gas station. Demolition and reconstruction activities began in early October 1992.

During the demolition of the original station building, an abandoned 500 gallon waste oil UST was discovered beneath the southwest corner of the slab. This UST was excavated and closed by removal on October 20, 1992.

On November 3, 1992 the SVES was found to be inoperable due to a faulty vacuum blower motor. The unit was repaired and reinstalled on-site on December 14, 1992, however, ongoing construction activities by WESCO led Matrix personnel to conclude that restarting the system could lead to another premature motor failure. Upon completion of the new station, this SVES, now relocated to the north corner of the property, was restarted for continuous treatment on May 19, 1993.

GENERAL GEOLOGY: The site is located at the boundary between glaciolacustrine silts and clays and the sands and gravels deposited by the modern river.

Stratigraphy includes poorly sorted sands and gravels and finely graded silty sands, some of which contain fossil plant matter. Both of these sediment types are characteristic of alluvial deposits.

Bedrock consists of highly metamorphosed Paleozoic meta-sedimentary rock and granite intrusive rock.

REGULATORY INTERACTION:

Agency:	VTDEC Site Management Section
Agency Contact:	Mr. Richard Spiese
Incident #'s:	91-1064
Request:	Site and system checks monthly with limited quarterly well network sampling.
Agency:	City of Barre, Dept. of Public Works
Agency Contact:	Mr. Reginald Abare
Incident #'s:	None assigned
Request:	Notification of system design and length of operation. Last notification through VT DEC on January 11, 1992.

SITE ACTIVITIES: Monthly site visits monitoring and maintenance. Monthly groundwater gauging, soil vapor extraction monitoring and catch basin monitoring by PID. Quarterly groundwater sampling and laboratory analysis.

RISK ASSESSMENT:

- Sensitive Receptors: Soils & Groundwater beneath and downgradient of station. Stevens Branch. Storm sewer leading to Stevens Branch.

- Closest Potable Well: None known within one half mile radius.

MONITORING:

- Liquid Level Gauging Frequency: Monthly

- Groundwater Sample Method and Frequency: EPA Method 602 w/MTBE, limited quarterly only

- Analytical Laboratory Used: Accutest
Dayton, NJ
NYS Lab ID #10983

GROUNDWATER CONDITIONS:

QUARTERLY GROUNDWATER ANALYTICAL SUMMARY TABLE BTEX (ppb)

DATE	MW1	MW2	MW3	MW4	MW5	MW6
10/08/91	BDL	BDL	23,000	26,000	X	X
05/05/92	BDL	NS	NS	29,000	41,000	NS
08/06/92	BDL	BDL	11,400	16,800	27,300	20,200
12/14/92		--	13,000	26,200	26,600	13,500
05/04/93	6.0	BDL	7,420	11,460	13,500	12,800
08/04/93	NS	BDL	NS	NS	19,800	15,400
11/02/93	BDL	BDL	3,850	8,030	21,800	14,700
02/08/94	BDL	BDL	3,380	5,190	19,500	3,970
05/05/94	BDL	2.0	6,140	10,760	20,900	10,280
08/25/94	BDL	BDL	3,475	4,740	10,400	6,980
11/21/94	BDL	BDL	6,035	9,379	17,110	22,020
02/14/95	BDL	BDL	3,235	3,569	12,200	7,790
05/10/95	BDL	BDL	5,461	2,526	15,500	8,020
08/09/95	0.99	2.44	1,669	3,710	8,050	2,130

QUARTERLY GROUNDWATER ANALYTICAL SUMMARY TABLE MTBE µg/l (ppb)

DATE	MW1	MW2	MW3	MW4	MW5	MW6
11/21/94	BDL	BDL	BDL	71	BDL	BDL
02/14/95	BDL	5.2	BDL	BDL	24	BDL
05/10/95	BDL	26	9.5	6.3	250	200
08/09/95	BDL	12	BDL	BDL	BDL	BDL

BDL = Below Detection Limits NS = Not Sampled X = Well not yet installed

GROUNDWATER TABLE ELEVATIONS AND MEASUREMENTS (FEET)

August 9, 1995

Well	Casing Elevation	Depth to Product	Depth to Water	Product Thickness	Adj Depth to Water	Groundwater Elevation
MW1	102.69	None	10.40		10.40	92.29
MW2	102.87	"	10.33		10.33	92.54
MW3	97.62	"	NG		NG	NG
MW4	96.87	"	4.95		4.95	91.92
MW5	97.35	"	5.23		5.23	92.12
MW6	97.39	"	4.71		4.71	92.68
CW1	98.70	"	6.61		6.61	92.09

NG = Not Gauged

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GROUNDWATER ELEVATION SUMMARY TABLE (FEET)

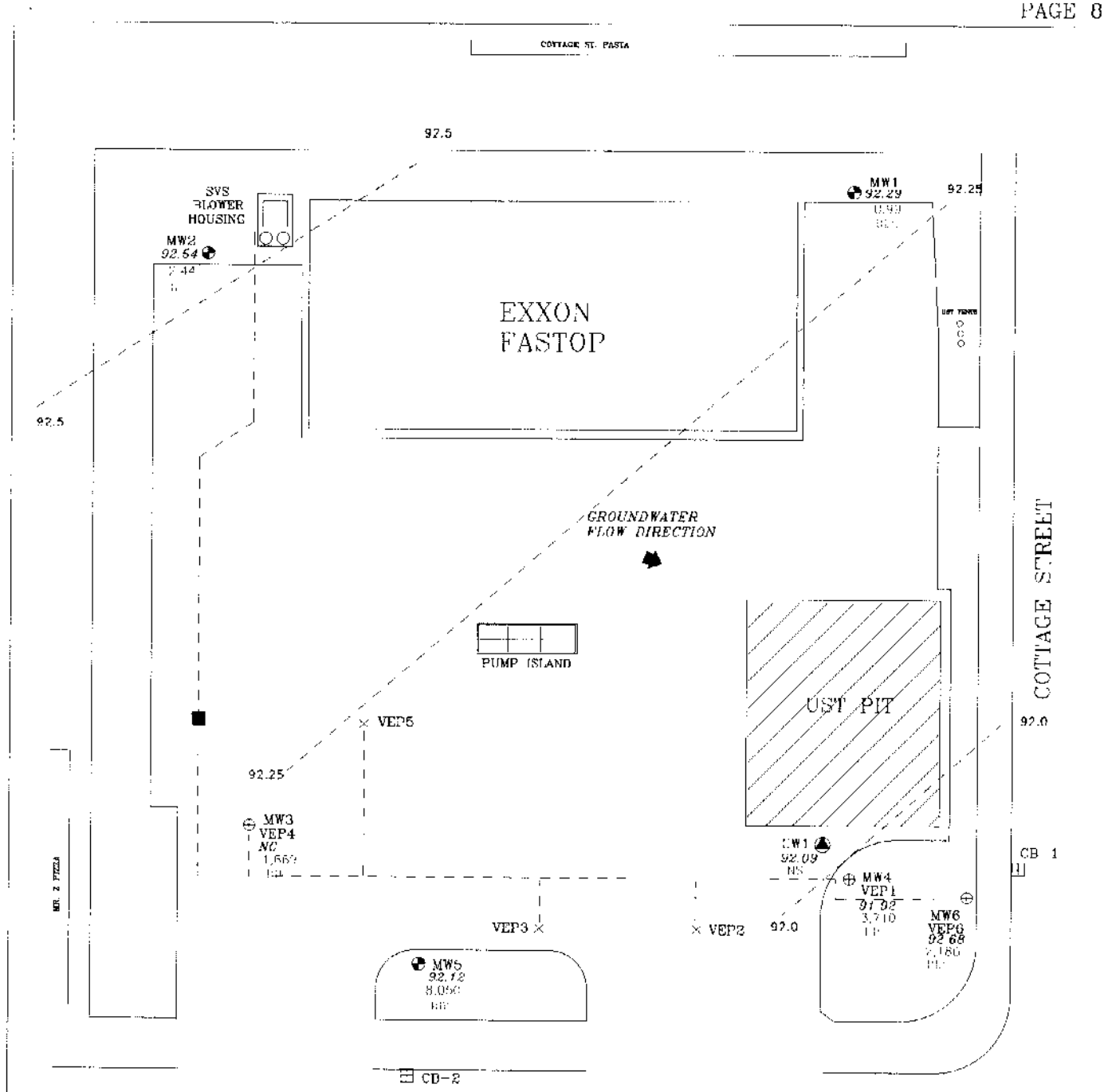
Well	MW1	MW2	MW3	MW4	MW5	MW6
Top of Screen Elevation	95.69	95.87	94.12	93.87	94.85	94.89
Reference Elevation	102.69	102.87	97.62	96.87	97.35	97.39
Date						
11/13/90	92.84	92.79	92.55	92.09	X	X
6/03/91	92.70	92.61	91.85	91.83	X	X
10/03/91	92.63	92.84	91.81	91.87	X	X
10/09/91	93.81	93.17	91.98	92.08	X	X
5/05/92	93.09	93.27	92.45	92.41	92.81	92.59
6/19/92	92.58	92.47	92.30	92.16	92.30	92.09
7/08/92	92.46	92.34	92.56	91.52	92.06	91.81
8/06/92	92.47	92.44	92.16	91.53	92.17	90.92
9/18/92	92.17	92.32	92.80	91.63	91.96	91.84
10/08/92	92.35	92.30	92.61	91.45	92.06	91.77
12/14/92	NG	NG	91.51	91.47	91.70	91.53
5/19/93	92.24	91.84	93.01	91.70	91.49	91.68
6/03/93	92.15	91.83	93.01	91.92	91.91	92.87
7/13/93	91.93	91.46	92.12	91.38	91.71	91.39
8/04/93	91.96	91.60	92.12	91.44	91.74	91.46
9/15/93	91.96	91.60	92.13	91.45	91.76	91.46
10/12/93	92.00	91.64	92.18	91.74	91.75	91.50
11/02/93	92.05	91.73	92.20	91.67	92.03	91.61
12/10/93	92.09	91.68	92.17	91.61	92.01	91.59
02/08/94	91.01	90.36	90.44	90.49	90.52	90.52
03/21/94	92.20	91.85	92.23	91.69	92.07	91.71

X Well not installed yet

GROUNDWATER ELEVATION SUMMARY TABLE (FEET) (continued)

Well	MW1	MW2	MW3	MW4	MW5	MW6
Top of Screen Elevation	95.69	95.87	94.12	93.87	94.85	94.89
Reference Elevation	102.69	102.87	97.62	96.87	97.35	97.39
Date						
03/28/94	92.83	82.89	92.78	92.34	92.57	92.37
05/05/94	92.69	92.69	92.71	92.16	92.37	92.23
06/01/94	92.41	92.33	92.64	91.92	92.22	92.09
07/14/94	92.09	91.60	92.14	91.62	91.83	91.69
08/25/94	92.26	92.30	92.25	91.79	92.05	91.80
09/12/94	92.03	91.59	92.18	92.05	91.77	91.67
10/25/94	92.02	91.52	92.10	91.59	91.72	91.56
11/21/94	91.97	91.45	91.53	91.48	91.67	91.46
12/12/94	92.15	91.84	91.77	91.67	91.87	91.65
01/17/95	92.29	92.10	91.87	91.84	92.02	91.82
02/13/95	92.07	91.38	91.58	91.57	91.59	91.57
03/27/95	92.37	92.64	91.52	91.67	92.25	93.14
04/26/95	92.24	91.89	92.20	94.87	92.01	93.24
05/10/95	92.15	91.74	91.89	93.57	91.95	93.69
06/13/95	92.06	91.64	91.67	92.82	91.85	92.99
07/20/95	92.06	91.85	91.70	92.66	91.88	92.22
08/09/95	92.29	92.54	NG	91.92	92.12	92.68
09/11/95	91.73	91.93	91.59	91.57	91.83	91.41

NG = Not gauged



EXPLANATION

MONITORING WELL	MW-1
CULVERT WELL	
VAPOR EXTRACTION POINT	×
MW/VEP	⊕
CATCH BASIN	CB 1
MOISTURE TRAP	■
GROUNDWATER ELEVATION	*91.57*
NOT GAUGED	*NG*
DISSOLVED BTEX (ppb)	7,577
BELOW DETECTION LIMIT	BD
NOT SAMPLED	NS
[illegible]	[illegible]

N

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MAP TITLE: *GROUNDWATER ELEVATION MAP* W/ DISSOLVED BTEX CONCENTRATIONS		
PROJECT NAME: SUN BARRE		DATE: 8/9/95
SCALE: 1"=16'	PROJECT #: 02-92001	DRAWN BY: PNH

VACUUM ENHANCEMENT SYSTEM:

- Vacuum Enhancement Equipment Type:	NES 2 HP Vapor Extraction Unit
- System Start Date:	4/92
- Vacuum Applied:	60" H_2O
- Air Discharge Stack Height:	12'
- Type of Discharge Treatment:	Granular Activated Carbon
- Extraction Rate:	92 CFM
- Average Operation Pre/Post Filter:	40/40 inches H_2O
- Discharge Benzene Concentration:	BDL
- Discharge Benzene Loading Rate:	BDL
- Discharge BTEX Concentration:	BDL
- Discharge BTEX Loading Rate:	BDL
- Pre-Treatment Effluent PID Readings:	1.5 ppm
- Gasoline Recovered via Vacuum Extraction for 3rd Quarter 1995:	0 gallons

SVES MONITORING DATA
SUMMARY TABLE

DATE	PID READINGS PRE-CARBON	PID READINGS MID-CARBON	PID READINGS POST-CARBON	AIR VELOCITY (fpm)
04/14/92	245.0	2.80	0.0	2,800
05/05/92	279.0	160.0	21.0	NM
06/19/92	135.0	52.0	0.0	3,600
07/08/92	109.0	46.0	19.0	5,800
08/06/92	49.5	31.0	3.0	NM
9/21/92	51.0	37.0	3.0	NM
9/21/92	76.4	38.5	1.0	6,400
10/08/92	138.0	129.0	7.0	NM
10/19/92	894.0	165.0	18.5	822
10/30/92	912.0	472.0	18.0	6,100
10/30/92*	1,222.0	175.0	18.0	6,160
5/19/93	68.0	3.0	0.0	5,800
5/25/93	25.0	0.0	0.0	5,000
6/03/93	17.0	0.0	0.0	NM
6/10/93	32.0	1.0	0.0	5,100
6/23/93	23.0	0.0	0.0	5,100
7/13/93	19.0	1.0	0.4	4,900
8/04/93	35.0	3.0	0.0	NM
8/31/93	14.5	11.0	4.0	NM
9/15/93	56.0	3.0	0.0	4,750
10/17/93	63.0	2.0	0.0	1,800
10/25/93	45.0	0.0	0.0	NM
11/02/93	8.4	0.0	0.0	5,150
11/18/93	10.2	0.0	0.0	NM
12/10/93	10.0	0.4	0.0	4,975

NM = Not Measured

SVES MONITORING DATA
SUMMARY TABLE (continued)

DATE	PID READINGS PRE-CARBON	PID READINGS MID-CARBON	PID READINGS POST-CARBON	AIR VELOCITY (fpm)
02/08/94	139.0	2.0	1.30	5,300
03/21/94	10.60	7.20	1.20	4,400
04/08/94	13.70	4.30	1.70	NM
04/28/94	1.70	NS	0.0	4,600
05/05/94	2.10	NS	0.0	NM
06/01/94	28.6	3.2	0.3	NM
06/24/94	38.1	1.0	0.6	4,800
07/14/94	46.0	1.0	0.3	4,800
08/25/94	38.0	0.0	0.0	4,950
09/12/94	52.0	4.6	0.3	4,600
10/25/94	13.8	1.1	0.0	4,075
11/21/94	65.4	1.2	0.0	4,217
12/12/94	22.6	0.0	0.0	2,850
01/17/95	40.0	55.0	12.6	3,985
02/14/95	21.6	0.0	0.0	4,930
03/27/95	21.6	1.2	0.0	4,930
04/26/95	3.0	0	0	5,526
05/10/95	5	0	0	4,470
06/23/95	7.0	0	0	4,200
07/20/95	4.2	1	1	4,250
08/09/95	<0.5	<0.5	<0.5	5,400
09/11/95	1.5	0	0.5	5,637

NM = Not Measured NS = Not Sampled

PERMIT INFORMATION:

- Type:	Air Discharge Permit
- I.D. #:	None assigned
- Authorization:	VT DEC Letter of Authorization
- Concentration Limitations:	5 ppm by PID or 10% of influent
- Date Submitted:	11/21/91
- Date Approved:	1/21/92
- Expiration Date:	Not determined
- Analytical Frequency:	Vapor phase treatment systems be monitored by PID monthly.

FUTURE SITE ACTIVITIES: Routine monthly monitoring and maintenance, monthly gauging of monitoring well network to determine groundwater elevations, monthly balancing of soil vapor extraction system, quarterly sampling of all on-site monitoring wells scheduled for November 1995.

ATTACHMENTS:
- Laboratory Analytical Results
- Catch Basin Monitoring

ATTACHMENT 1

CHEMICAL ANALYTICAL RESULTS OF MONITORING WELL SAMPLES (BTEX 602 W/MTBE)

AUGUST 9, 1995

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2235 ROUTE 130, DAYTON, NJ 08810 • (908) 329-0200

RECEIVED AUG 3 1 1995

08/25/95

TECHNICAL REPORT FOR
Matrix Environmental

SAMPLES TAKEN AT:	Sun, 377 North Main Street, Ba
CLIENT PROJECT ID:	02-92-001
ACCUTEST JOB NUMBER:	E5666
SAMPLES RECEIVED AT ACCUTEST ON:	08/12/95
NUMBER OF SAMPLES IN THIS REPORT:	7
TOTAL NUMBER OF PAGES IN REPORT:	11

VINCENT J. PUGLIESE
PRESIDENT

RESULTS RELATE ONLY TO THE ITEMS TESTED
THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF ACCUTEST

ACCUTEST®
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Matrix Environmental
25 Kraft Ave.

Albany, NY 12055

DATE: 08/25/95
JOB No: E5666
PROJECT No: 02-92-001
SAMPLE RECEIVED: 08/12/95

ATTN: Mike Bullock

SAMPLE SUMMARY

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E5666-1	08/09/95	14:15	APS	GROUND WATER - MW-1 Sun, 377 North Main Street, Barre, VT 0 364-0562
E5666-2	08/09/95	14:10	APS	GROUND WATER - MW-2 Sun, 377 North Main Street, Barre, VT 0 364-0562
E5666-3	08/09/95	14:35	APS	GROUND WATER - MW-3 Sun, 377 North Main Street, Barre, VT 0 364-0562
E5666-4	08/09/95	14:25	APS	GROUND WATER - MW-4 Sun, 377 North Main Street, Barre, VT 0 364-0562
E5666-5	08/09/95	14:30	APS	GROUND WATER - MW-5 Sun, 377 North Main Street, Barre, VT 0 364-0562
E5666-6	08/09/95	14:20	APS	GROUND WATER - MW-6 Sun, 377 North Main Street, Barre, VT 0 364-0562

VINCENT J. PUGLIESE
PRESIDENT

ACCUTEST®
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Matrix Environmental
25 Kraft Ave.

Albany, NY 12055

DATE: 08/25/95
JOB No: E5666
PROJECT No: 02-92-001
SAMPLE RECEIVED: 08/12/95

ATTN: Mike Bullock

SAMPLE SUMMARY

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E5666-7	08/09/95	14:40	APS	WATER - FIELD BLANK Sun, 377 North Main Street, Barre, VT 0 364-0562

VINCENT J. PUGLIESE
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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E5666-1	08/09/95	14:15	APS	GROUND WATER - MW-1 Sun, 377 North Main Street, Barre, VT 0 364-0562

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
METHYL TERTIARY BUTYL ETHER	ND	0.20	UG/L	08/22/95	MRL
PURGEABLE AROMATICS					
BENZENE	ND	0.20	UG/L	08/22/95	MRL
TOLUENE	0.39	0.20	UG/L	08/22/95	MRL
CHLOROBENZENE	ND	0.20	UG/L	08/22/95	MRL
ETHLYBENZENE	ND	0.20	UG/L	08/22/95	MRL
1,3-DICHLOROBENZENE	ND	0.20	UG/L	08/22/95	MRL
1,4-DICHLOROBENZENE	ND	0.20	UG/L	08/22/95	MRL
1,2-DICHLOROBENZENE	ND	0.20	UG/L	08/22/95	MRL
XYLENES, TOTAL	0.33	0.20	UG/L	08/22/95	MRL

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E5666-2	08/09/95	14:10	APS	GROUND WATER - MW-2 Sun, 377 North Main Street, Barre, VT 0 364-0562

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
METHYL TERTIARY BUTYL ETHER	12	0.20	UG/L	08/22/95	MRL
PURGEABLE AROMATICS					
BENZENE	0.21	0.20	UG/L	08/22/95	MRL
TOLUENE	1.3	0.20	UG/L	08/22/95	MRL
CHLOROBENZENE	ND	0.20	UG/L	08/22/95	MRL
ETHLYBENZENE	0.24	0.20	UG/L	08/22/95	MRL
1,3-DICHLOROBENZENE	ND	0.20	UG/L	08/22/95	MRL
1,4-DICHLOROBENZENE	ND	0.20	UG/L	08/22/95	MRL
1,2-DICHLOROBENZENE	ND	0.20	UG/L	08/22/95	MRL
XYLENES, TOTAL	0.69	0.20	UG/L	08/22/95	MRL

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E5666-3	08/09/95	14:35	APS	GROUND WATER - MW-3 Sun, 377 North Main Street, Barre, VT 0 364-0562

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
METHYL TERTIARY BUTYL ETHER[A]	ND	10	UG/L	08/23/95	MRL
PURGEABLE AROMATICS[A]					
BENZENE	56	10	UG/L	08/23/95	MRL
TOLUENE	43	10	UG/L	08/23/95	MRL
CHLOROBENZENE	ND	10	UG/L	08/23/95	MRL
ETHLYBENZENE	720	10	UG/L	08/23/95	MRL
1,3-DICHLOROBENZENE	ND	10	UG/L	08/23/95	MRL
1,4-DICHLOROBENZENE	ND	10	UG/L	08/23/95	MRL
1,2-DICHLOROBENZENE	ND	10	UG/L	08/23/95	MRL
XYLENES, TOTAL	850	10	UG/L	08/23/95	MRL

[A] MDL ELEVATED DUE TO DILUTION FACTOR.

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E5666-4	08/09/95	14:25	APS	GROUND WATER - MW-4 Sun, 377 North Main Street, Barre, VT 0 364-0562

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
METHYL TERTIARY BUTYL ETHER[A]	ND	20	UG/L	08/23/95	MRL
PURGEABLE AROMATICS[A]					
BENZENE	480	20	UG/L	08/23/95	MRL
TOLUENE	330	20	UG/L	08/23/95	MRL
CHLOROBENZENE	ND	20	UG/L	08/23/95	MRL
ETHLYBENZENE	900	20	UG/L	08/23/95	MRL
1,3-DICHLOROBENZENE	ND	20	UG/L	08/23/95	MRL
1,4-DICHLOROBENZENE	ND	20	UG/L	08/23/95	MRL
1,2-DICHLOROBENZENE	ND	20	UG/L	08/23/95	MRL
XYLENES, TOTAL	2000	20	UG/L	08/23/95	MRL

[A] MDL ELEVATED DUE TO DILUTION FACTOR.

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E5666-5	08/09/95	14:30	APS	GROUND WATER - MW-5 Sun, 377 North Main Street, Barre, VT 0 364-0562

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
METHYL TERTIARY BUTYL ETHER[A]	ND	40	UG/L	08/23/95	MRL
PURGEABLE AROMATICS[A]					
BENZENE	650	40	UG/L	08/23/95	MRL
TOLUENE	1000	40	UG/L	08/23/95	MRL
CHLOROBENZENE	ND	40	UG/L	08/23/95	MRL
ETHLYBENZENE	1400	40	UG/L	08/23/95	MRL
1,3-DICHLOROBENZENE	ND	40	UG/L	08/23/95	MRL
1,4-DICHLOROBENZENE	ND	40	UG/L	08/23/95	MRL
1,2-DICHLOROBENZENE	ND	40	UG/L	08/23/95	MRL
XYLENES, TOTAL	5000	40	UG/L	08/23/95	MRL

[A] MDL ELEVATED DUE TO DILUTION FACTOR.

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E5666-6	08/09/95	14:20	APS	GROUND WATER - MW-6 Sun, 377 North Main Street, Barre, VT 0 364-0562

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
METHYL TERTIARY BUTYL ETHER[A]	ND	20	UG/L	08/23/95	MRL
PURGEABLE AROMATICS[A]					
BENZENE	170	20	UG/L	08/23/95	MRL
TOLUENE	120	20	UG/L	08/23/95	MRL
CHLOROBENZENE	ND	20	UG/L	08/23/95	MRL
ETHLYBENZENE	490	20	UG/L	08/23/95	MRL
1,3-DICHLOROBENZENE	ND	20	UG/L	08/23/95	MRL
1,4-DICHLOROBENZENE	ND	20	UG/L	08/23/95	MRL
1,2-DICHLOROBENZENE	ND	20	UG/L	08/23/95	MRL
XYLENES, TOTAL	1400	20	UG/L	08/23/95	MRL

[A] MDL ELEVATED DUE TO DILUTION FACTOR.

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

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ANALYSIS REPORT

SAMPLE No	COLLECTED DATE	TIME	BY	POINT OF COLLECTION
E5666-7	08/09/95	14:40	APS	WATER - FIELD BLANK Sun, 377 North Main Street, Barre, VT 0 364-0562

TEST DESCRIPTION	RESULT	MDL	UNITS	DATE	INIT
METHYL TERTIARY BUTYL ETHER	ND	0.20	UG/L	08/22/95	MRL
PURGEABLE AROMATICS					
BENZENE	0.83	0.20	UG/L	08/22/95	MRL
TOLUENE	3.9	0.20	UG/L	08/22/95	MRL
CHLOROBENZENE	ND	0.20	UG/L	08/22/95	MRL
ETHLYBENZENE	0.46	0.20	UG/L	08/22/95	MRL
1,3-DICHLOROBENZENE	ND	0.20	UG/L	08/22/95	MRL
1,4-DICHLOROBENZENE	ND	0.20	UG/L	08/22/95	MRL
1,2-DICHLOROBENZENE	ND	0.20	UG/L	08/22/95	MRL
XYLENES, TOTAL	2.2	0.20	UG/L	08/22/95	MRL

ND = NOT DETECTED
UG/L = PPB MG/L = PPM
MDL = METHOD DETECTION LIMIT

FB

ACCUTEST

495 Technology Center West Bldg. One, Marlborough, MA 01752 (508) 481-6200

CHAIN OF CUSTODY
FOR SUN COMPANY

ACCUTEST JOB #:

WO#

DUNS# 0364-0562

CLIENT INFORMATION

NAME: MATRIX Environmental Tech

ADDRESS: 25 KRAFT Ave #2

CITY, STATE, ZIP: Albany NY 12205

SEND REPORT TO: Mike Bullock

PHONE # 518-438-7656

FACILITY INFORMATION

PROJECT NAME: SUN BARRE VT

LOCATION: 377 RAIMAIN ST (NO. MAIN) BARRE VT

PROJECT NO. 02-92.001

FAX # 518-438-7710

ANALYTICAL INFORMATION

EPA 602 w/MTBE

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	EPA 602 w/MTBE	LAB USE ONLY
A-166	mw-1 ES666-1	8/9/95	2:15	AMS	GW	3	X					✓	8811
A-166	mw-2 ES666-2	8/9/95	2:10	AMS	GW	3	X					✓	
A-166	mw-3 ES666-3	8/9/95	2:35	AMS	GW	3	X					✓	
A-166	mw-4 ES666-4	8/9/95	2:25	AMS	GW	3	X					✓	
A-166	mw-5 ES666-5	8/9/95	2:30	AMS	GW	3	X					✓	
A-166	mw-6 ES666-6	8/9/95	2:20	AMS	GW	3	X					✓	
A-166	Field Blank ES666-7 (NAFB)	8/9/95	2:40	AMS	GW	3	X					✓	

DATA TURNAROUND INFORMATION

- [X] 14 DAYS STANDARD
- [ ] 7 DAYS RUSH
- [ ] 48 HR. EMERGENCY
- [ ] OTHER

APPROVED BY:

14 DAY TURNAROUND HARDCOPY. EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [ ] COMMERCIAL
- [ ] STATE FORMS
- [ ] DISK DELIVERABLE
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

*NAB.

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1. [signature]	8/10/95 5:30p	1. Fed Express	2. [signature]	8-12-95 1100	2. [signature]
3.		3.	4.		4.
5.		5.	SEAL #	PRESERVE WHERE APPLICABLE [ ]	ON ICE [✓] TEMPERATURE ____ C

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LABORATORY CHRONICLE

ACCUTEST JOB #.....E5666

DATE SAMPLES RECEIVED.....08/12/95

ACCUTEST SAMPLE #	SAMPLE DATE	ANALYTE	METHOD	INITIAL PREP.	FINAL PREP.	PREP. INITIALS	INITIAL ANALYSIS	REPORTED ANALYSIS	ANALYST INITIALS
E5666-1	08/09/95	METHYL TERTIARY BUTYL ETHER	EPA 602				08/22/95	08/22/95	MRL
E5666-2	08/09/95	METHYL TERTIARY BUTYL ETHER	EPA 602				08/22/95	08/22/95	MRL
E5666-3	08/09/95	METHYL TERTIARY BUTYL ETHER	EPA 602				08/22/95	08/23/95	MRL
E5666-4	08/09/95	METHYL TERTIARY BUTYL ETHER	EPA 602				08/22/95	08/23/95	MRL
E5666-5	08/09/95	METHYL TERTIARY BUTYL ETHER	EPA 602				08/22/95	08/23/95	MRL
E5666-6	08/09/95	METHYL TERTIARY BUTYL ETHER	EPA 602				08/22/95	08/23/95	MRL
E5666-7	08/09/95	METHYL TERTIARY BUTYL ETHER	EPA 602				08/22/95	08/22/95	MRL
E5666-1	08/09/95	PURGEABLE AROMATICS	EPA 602				08/22/95	08/22/95	MRL
E5666-2	08/09/95	PURGEABLE AROMATICS	EPA 602				08/22/95	08/22/95	MRL
E5666-3	08/09/95	PURGEABLE AROMATICS	EPA 602				08/22/95	08/23/95	MRL
E5666-4	08/09/95	PURGEABLE AROMATICS	EPA 602				08/22/95	08/23/95	MRL
E5666-5	08/09/95	PURGEABLE AROMATICS	EPA 602				08/22/95	08/23/95	MRL
E5666-6	08/09/95	PURGEABLE AROMATICS	EPA 602				08/22/95	08/23/95	MRL
E5666-7	08/09/95	PURGEABLE AROMATICS	EPA 602				08/22/95	08/22/95	MRL

ATTACHMENT 2

SUMMARY TABLE:
MONTHLY CATCH BASIN MONITORING

SUMMARY TABLE
MONTHLY CATCH BASIN MONITORING
RESULTS IN ppm

DATE	CATCH BASIN 1	CATCH BASIN 2
April 8, 1994	0.3	0.0
April 28, 1994	0.0	0.0
May 5, 1994	0.6	0.0
June 1, 1994	0.0	0.3
June 24, 1994	0.3	0.0
July 14, 1994	0.6	0.0
August 25, 1994	0.0	0.0
September 12, 1994	0.0	0.0
November 21, 1994	0.4	0.0
January 17, 1995	0.0	0.0
February 14, 1995	0.0	0.0
March 27, 1995	0.0	0.0
July 20, 1995	0.0	0.0
August 9,1995	0.0	0.0
September 11, 1995	0.0	0.0

Monthly vapor monitoring of rainwater catch basin is conducted utilizing a Thermal Environmental instruments Model 580B Photoionization Detector (PID). This monitoring is conducted to screen for possible impact of volatile organic compounds (VOC's) associated with dissolved petroleum hydrocarbons. The location of these catch basins, CB-1 and CB-2, are depicted on the groundwater map included with his report.