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Quarterly Monitoring Report 2nd Quarter 2003

L.E. Carpenter & Company
Wharton, New Jersey

USEPA ID No. NJD002168748

July 2003

318125

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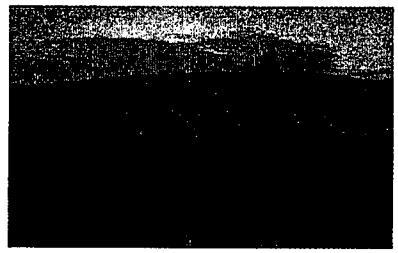

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2nd Quarter 2003

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July 2003

Nicholas J. Clevett
Project Manager

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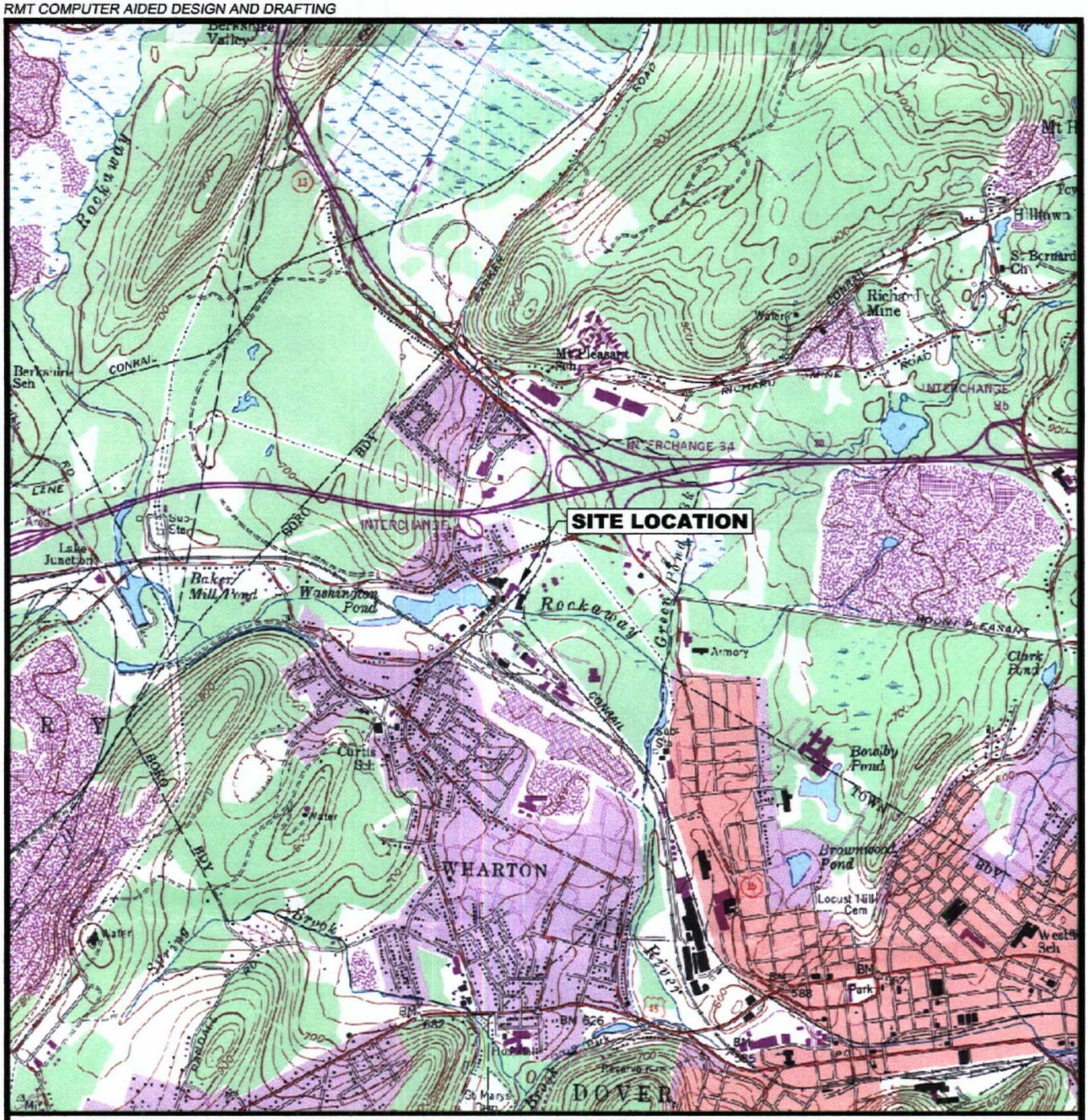
Section 1
Introduction

RMT, Inc. (RMT), on behalf of our client, has prepared this Quarterly Monitoring Report for the L.E. Carpenter and Company (LEC) ("site") located at 170 North Main Street, Wharton, New Jersey (Figure 1). Quarterly monitoring events are performed at the site to comply with paragraph 35 of the 1986 Administrative Consent Order (ACO) issued to LEC by the New Jersey Department of Environmental Protection (NJDEP). We provide a summary of activities completed during the second quarter of 2003, including routine quarterly groundwater monitoring, surface water monitoring, and monthly free product recovery activities. In addition, this report includes summaries of additional site activities performed during the second quarter of 2003, and activities scheduled for commencement during third quarter of 2003. We have certified this report in accordance with requirements outlined in N.J.A.C 7:26E-1.5 (Appendix A).

RMT conducted the following tasks during the second quarter of 2003:

- Monthly mobile free product recovery using enhanced fluid recovery (EFR) techniques in accordance with the NJDEP approval letter dated August 20, 1997 (Ref. Section 2).
- Quarterly groundwater monitoring as required under the ACO (Ref. Sections 3 and 4).
- Surface water sampling at the drainage ditch feature that separates the LEC site from the Air Products property as requested in the NJDEP letter dated May 31, 2002 (Ref. Section 5).
- Various follow-up activities associated with both the lead and free product investigations and proposed conceptual remediation plan. (Ref. Section 6).

We provide a discussion of these activities in the referenced sections.



NEW JERSEY

QUADRANGLE LOCATION

N

0 2000' 4000'

APPROXIMATE SCALE IN FEET

SOURCE

BASE MAP DEVELOPED FROM THE DOVER, NEW JERSEY 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP, DATED 1954, PHOTOREVISED 1981.

RMT INC.®

LE CARPENTER
WHARTON, NEW JERSEY

SITE LOCATION MAP
FOR 2nd QUARTER 2003

DRAWN BY:	SJL
APPROVED BY:	NC
PROJECT NUMBER:	3868.35
FILE NUMBER:	38683561.DWG
DATE:	JULY 2003

FIGURE 1

PLOT DATA
Drawing Name: J:\03868\35\38683561.dwg
Operator Name: lucidos
Scale: 1"=2000'
Dwg Size: 100559 Bytes
Plot Date: June 2003
Plot Time: 07:28:3224 AM
Attached Xref's: No xref's Attached.

Section 2
Monthly EFR Activities

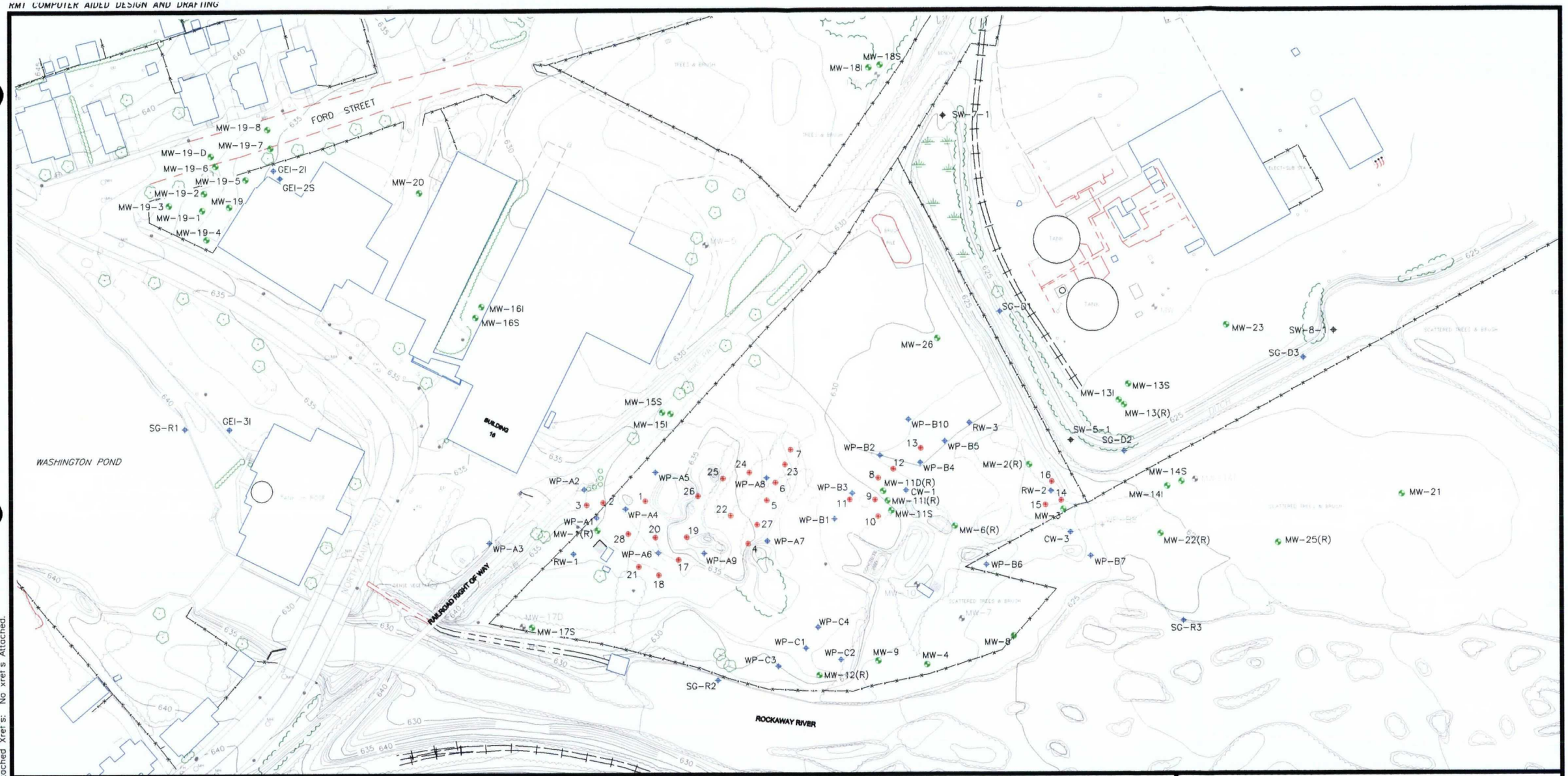
2.1 Introduction

In August 1997, the NJDEP approved the Remedial Action Plan (RAP), which described free product removal using enhanced fluid recovery (EFR) for the eastern portion of the subject site (east of the railroad right-of-way). EFR is conducted by applying a vacuum to product recovery wells to primarily remove free-phase product in addition to limited volumes of contaminated groundwater and contaminant vapors within vadose zone and capillary fringe soils. As the result of increased aeration, this procedure enhances any natural biodegradation that may be occurring in the soil and groundwater. The locations of the 28 EFR wells purged during each monthly EFR event and all groundwater monitoring wells are shown in Figure 2.

RMT arranged performance of three EFR events during the second quarter of 2003 on April 10th, May 8th, and June 10th. RMT coordinated measurement of the free product thickness in each recovery well (where applicable), followed by EFR. RMT's subcontractor, CEMCO, used the recorded free product measurements to determine the placement of the drop pipe that maximized free product recovery volumes. Table 1 lists apparent free product thickness measurements recorded during second quarter 2003. RMT observed measurable free product within 10 of the 69 wells monitored on June 2, 2003 (Table 6). Table 1 also provides a cumulative breakdown of EFR specific information such as minimum and maximum free product thickness levels (in feet), associated waste management costs, and extracted product (liquid and vapor phase) and groundwater volumes (in gallons) to date.

During second quarter 2003, EFR activities were conducted utilizing a Nortech, Inc. 55B vacuum head apparatus capable of producing a vacuum of 17-inches of mercury (in Hg) at 100 cubic feet per minute (cfm). This unit is connected to a fitted 55-gallon drum, and braced to a mobile 4-wheel drive vehicle. When compared to the previously utilized vacuum trucks, use of this system has enabled CEMCO to get closer to each individual EFR well head, minimizing potential losses in the system previously experienced due to the use of greater lengths of extraction hose, while maximizing the maneuverability of the drop pipe. Use of this system has also resulted in a more efficient EFR event, minimizing the volume of groundwater extracted. The average ratio of extracted groundwater to free product during the second quarter of 2003 was approximately 0.12 gallons/gallon. Before use of this method (November 1997 to December 1999), the ratio of extracted groundwater to free product was 4.7 gallons/gallon.

RMT COMPUTER AIDED DESIGN AND DRAFTING



LEGEND

— - - —	PROPERTY LINE	WP-B7	WELL POINTS
—+—+—	FENCE	SG-R1	RIVER POINT
MW-21	MONITORING WELL	SG-D1	DRAINAGE CHANNEL POINT
	ABANDONED WELL	GEI-2I	PIEZOMETERS
13	ENHANCED FLUID RECOVERY WELL	SW-7-1	SURFACE WATER SAMPLE
RW-2	RECOVERY WELL		TREATMENT BUILDING
CW-3	CAISSON WELLS		

N

0 100' 200'

SCALE IN FEET

L.E. CARPENTER
WHARTON, NEW JERSEY

SITE PLAN WITH WELL LOCATIONS FOR 2nd QUARTER 2003

DRAWN BY:	SJL	PROJECT NUMBER:	3868.35
CHECKED BY:	ES	FILE NUMBER:	38683562.DWG
APPROVED BY:	NC	DATE:	JUNE 2003

RMT INC.
1143 HIGHLAND DRIVE, SUITE B
ANN ARBOR, MI. 48108-2237
PHONE: 734-971-7080
FAX: 734-971-9022

FIGURE 2

PLOT DATA
Drawing Name: 3868\35\38683562.dwg
Operator Name: Nicholas
Scale: 1"=100'
Dwg Size: 963478 Bytes
Plot Date: June 2003
Plot Time: 07:29.0572 AM
Attached Xref's: No xref's Attached.

Layout Name: Site Plan (2nd Quarter 2003)

Table 1
L.E. CARPENTER - Wharton, New Jersey
Free Product Recovery - EFR Well # 1 - 28

EFR Event Date / Well No.	Development 21-Nov-97 Feet of Product	EFR #1 9-Dec-97 Feet of Product	EFR #2 7-Jan-98 Feet of Product	EFR #3 22-Jan-98 Feet of Product	EFR #4 17-Feb-98 Feet of Product	EFR #5 13-Mar-98 Feet of Product	EFR #6 27-Mar-98 Feet of Product	EFR #7 24-Apr-98 Feet of Product	EFR #8 29-May-98 Feet of Product	EFR #9 30-Jun-98 Feet of Product	EFR #10 31-Jul-98 Feet of Product	EFR #11(5) 24-Aug-98 Feet of Product	EFR #12 17-Sep-98 Feet of Product	EFR #13 22-Oct-98 Feet of Product	EFR #14 20-Nov-98 Feet of Product	EFR #15 18-Dec-98 Feet of Product	EFR #16 13-Jan-99 Feet of Product	EFR #17 18-Feb-99 Feet of Product	EFR #18 24-Mar-99 Feet of Product	EFR #19 18-Apr-99 Feet of Product	EFR #20 18-May-99 Feet of Product	EFR #21 22-Jun-99 Feet of Product
EFR-1	1.84	1.53	1.94	0.86	2.48	0.93	0.94	1.42	1.55	2.11	1.28	1.22	1.71	1.59	1.71	1.57	0.53	1.79	3.68	1.13	1.09	1.15
EFR-2	1.55	1.50	1.96	0.06	2.20	2.96	2.92	2.65	2.44	1.78	1.12	1.09	1.21	1.29	1.51	1.41	0.95	1.40	2.42	1.46	1.22	0.92
EFR-3	0.85	1.02	1.27	--	1.58	1.19	0.03	0.24	0.19	0.77	0.72	0.93	1.03	1.01	1.19	1.18	1.14	1.01	1.63	0.96	0.25	0.96
EFR-4	1.03	2.27	0.54	0.07	0.30	--	--	--	--	0.03	0.38	1.23	2.40	2.17	1.75	1.79	0.79	0.10	0.14	0.08	0.05	0.03
EFR-5	4.03	3.74	4.25	0.32	3.29	3.39	1.71	2.71	2.02	1.86	2.98	2.52	2.33	2.52	2.19	2.29	2.68	3.47	6.15	2.65	2.61	2.66
EFR-6	0.72	1.00	1.24	--	2.27	1.71	1.17	2.23	1.55	1.56	1.96	1.56	1.42	1.25	1.29	1.38	0.49	0.84	0.88	0.81	1.07	1.16
EFR-7	0.17	0.09	0.16	--	--	--	--	--	--	0.02	0.02	0.03	0.07	0.05	0.20	0.16	0.02	0.04	0.04	0.07	0.02	0.08
EFR-8	0.00	0.00	0.00	--	0.08	--	--	--	--	0.03	0.04	0.08	0.13	0.09	0.07	0.03	0.12	0.00	0.03	0.03	0.03	0.09
EFR-9	0.00	1.10	1.79	1.15	0.18	3.08	0.08	0.07	0.11	0.29	0.61	0.98	1.23	1.31	1.26	1.86	0.74	0.49	0.06	0.11	0.32	0.49
EFR-10	5.20	5.80	6.42	2.84	7.47	7.06	6.05	6.71	5.47	5.68	4.94	4.52	4.34	4.38	3.98	3.99	3.68	5.79	5.52	4.97	4.23	3.71
EFR-11	3.07	4.04	4.28	5.64	4.47	4.32	4.67	5.91	5.73	6.08	4.73	4.47	3.95	4.06	3.65	3.52	2.42	4.69	2.84	2.02	2.48	3.28
EFR-12	0.04	0.03	0.00	--	0.07	--	--	--	0.02	0.28	0.22	0.29	0.24	0.15	0.29	0.17	0.04	0.11	0.05	0.02	0.02	0.10
EFR-13	0.48	0.56	1.33	0.05	1.28	1.07	1.07	0.67	--	0.90	0.56	0.48	0.66	0.82	1.13	1.30	0.22	1.19	0.15	0.49	0.50	0.44
EFR-14	0.10	0.18	0.00	--	--	--	--	--	--	--	-	--	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00
EFR-15	0.09	0.12	0.27	--	0.06	--	--	--	--	0.03	0.02	0.03	0.03	0.12	0.12	0.32	0.11	0.07	0.01	0.01	0.00	0.00
EFR-16	0.00	0.00	0.00	--	--	--	--	--	--	--	-	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EFR-17	0.04	0.17	1.56	0.39	0.17	0.08	--	0.09	--	0.02	0.87	0.29	0.45	0.56	0.71	0.59	0.26	0.08	0.06	0.06	0.08	0.12
EFR-18	0.10	0.10	0.09	--	--	--	--	--	--	0.01	0.08	0.14	0.48	0.68	0.98	1.09	0.56	0.11	-	0.08	0.18	0.46
EFR-19	0.54	2.80	1.89	0.49	1.95	1.63	1.44	0.88	0.65	0.42	0.90	1.26	1.69	1.95	2.31	2.44	1.83	1.68	0.52	0.44	0.52	1.10
EFR-20	0.40	0.34	0.95	0.47	0.27	--	--	0.04	0.24	0.37	0.65	0.63	0.79	1.24	1.85	2.11	0.65	1.33	0.86	0.40	0.89	0.87
EFR-21	2.36	2.40	2.71	2.74	2.74	4.14	3.97	4.23	3.98	3.29	1.97	1.87	1.86	1.77	1.67	1.62	1.21	1.43	2.62	2.35	1.49	1.46
EFR-22	3.78	4.10	0.05	4.81	3.40	4.69	3.42	1.82	1.22	0.96	2.86	2.87	2.97	2.83	2.58	2.27	2.06	0.84	0.94	0.95	1.39	1.93
EFR-23	0.00	0.06	0.06	--	0.02	--	--	--	--	0.05	0.11	0.08	0.27	1.08	3.07	2.29	1.55	0.91	0.47	0.22	0.25	0.45
EFR-24	0.00	0.00	0.00	--	--	--	--	--	--	--	-	--	0.00	0.08	0.12	0.14	0.38	0.06	0.00	0.00	0.00	0.08
EFR-25	2.95	3.00	3.55	0.26	4.15	3.11	0.72	0.82	0.79	0.78	0.60	0.41	0.29	0.41	1.33	1.58	1.05	1.75	1.19	1.08	0.78	0.54
EFR-26	2.20	2.05	2.66	0.29	2.90	2.12	1.43	1.32	1.95	1.21	2.06	1.58	1.17	1.24	1.08	1.09	0.73	0.55	0.45	0.75	1.29	1.28
EFR-27	0.15	0.02	2.71	0.02	0.74	--	--	0.03	--	0.02	0.38	0.45	1.49	0.54	0.47	0.51	0.09	0.12	0.00	0.00	0.02	0.03
EFR-28	2.20	2.30	1.78	0.48	2.60	3.20	3.48	4.40	3.16	2.61	1.47	1.73	1.69	1.93	1.79	1.74	1.03	1.29	1.71	1.85	1.46	1.25
MIN (ft)	0.00	0.00	0.00	0.02	0.02	0.08	0.03	0.03	0.02	0.01	0.02	0.03	0.03	0.03	0.07	0.03	0.02	0.04	0.00	0.00	0.00	0.00
MAX (ft)	5.20	5.80	6.42	5.64	7.47	7.06	6.05	6.71	5.73	6.08	4.94	4.52	4.34	4.38	3.98	3.99	3.68	5.79	6.15	4.97	4.23	3.71
Average (ft)	1.20	1.44	1.55	1.17	1.92	2.79	2.21	2.01	1.94	1.25	1.22	1.23	1.36	1.34	1.47	1.48	0.97	1.25	1.22	0.79	0.79	0.86
Total Free Product (ft)	33.69	40.30	43.36	19.94	44.05	44.68	33.10	36.24	31.07	31.16	30.98	30.73	33.90	34.92	38.30	38.96	25.27	31.14	31.84	22.00	22.20	24.54
Total Standing Free Product Volume (gal)	21.60	25.88	27.79	12.78	28.24	28.64	21.22	23.23	19.92	19.97	19.47	19.70	22.04	22.70	24.90	24.93	16.48	20.24	20.70	14.30	14.43	15.95
Estimated Total Free Product Removed (gal) (1) *(Liquid and Vapor Phase Free Product Volume)*	315.00	250.00	210.00	80.00	120.00	130.00	100.00	110.00	95.00	105.00	76.00	55.00	60.00	15.00	25.00	51.00	23.00	74.00	40.00	59.24	47.20	38.51
Estimated Total Fluids Removed (gal) *(Liquid Phase Free Product Volume plus Groundwater Extraction Volume) as of Jan 2000*																						
Vapor Phase Free Product Extraction Volume (gal) *as of Jan 2000*																						
Liquid Phase Free Product Extraction Volume (gal) *as of Jan 2000*																						
Groundwater Extraction Volume (gal) per each EFR Event (7) *as of Jan 2000*																						
Total EFR Extraction Volume (gal) *(Total Volume: free product + groundwater + product vapor)*	2350.00	1410.00	376.00	256.00	314.00	300.00	339.00	403.00	390.00	561.00	211.00	220.00	329.00	212.00	120.00	256.00	234.00	498.00	683.00	904.76	360.00	564.26
Estimated Volume Removed Resulting from Drum Purging (GW purge water) *if applicable* (8)	-	-	-	-	-	338	150	600	70	110	71	-	110	-	-	110	-	295	-	139	-	-
Total Volume Removed from Site (gal) *(Manifested volume)* (9)	2,350	1,410	376	256	314	638	489	1,003	460	671	282	220	439	212	120	256	234	793	683	1,044	353	538
Cumulative Total Free Product Removed (gal)	315	565	775	855	975	1,105	1,205	1,315	1,410	1,515	1,591	1,646	1,706	1,721	1,746	1,797	1,820	1,894	1,934	1,993	2,040	2,079
Extraction, Transportation & Disposal Cost(2)	$ 3,976.37	$ 2,742.62	$ 1,190.50	$ 1,190.50	$ 1,219.12	$ 1,431.87	$ 1,541.31	$ 2,038.43	$ 1,240.75	$ 1,347.88	$ 1,324.62	$ 1,838.93	$ 1,383.18	$ 915.25	$ 883.25	$ 973.00	$ 1,156.62	$ 1,641.56	$ 1,703.44	$ 2,049.75	$ 930.31	$ 1,598.13
Unit Cost per gal(3)	$ 1.69	$ 1.95	$ 3.01	$ 4.42	$ 3.88	$ 2.24	$ 3.15	$ 2.03	$ 2.70	$ 2.01	$ 4.70	$ 8.36	$ 3.15	$ 4.32	$ 7.19	$ 3.80	$ 4.94	$ 2.24	$ 2.49	$ 1.96	$ 2.64	$ 2.97
State Manifest Document Number	NJA2786096	NJA2786165	NJA2787808	NJA2785935	NJA2785830	NJA2785548	NJA2786541	NJA2787847	NJA2786596	NJA2970479	NJA2986712	NJA2988448	NJA2986517	NJA2989962	NJA2986079	NJA2986996	NJA3017471	NJA3030466	NJA3016902	NJA3015530	NJA3031178	NJA3016209

Notes:
Product thickness was determined prior to the EFR event.
gal = gallon
All EFR Wells are 4 inch in diameter
EFR events 13 and 14 product removal was low due to significant quantities of product remaining emulsified as the result of a short vac truck standing time prior to gauging

Product removal estimate does not take into account a % of product remaining emulsified do to high agitatio
Indicates that this data will be known once the next EFR waste T&D event is performe

(1) Estimated free product (gal) based on Vacuum Truck gauging (interface probe) directly after each EFR Event and vapor monitoring during extraction (See Table 3)
(2) Total invoiced disposal cost for EFR event (product and groundwater) and monitoring well purge water from 1/4ly well development and monitoring activities *(if applicable)*
(3) Total Cost per gallon includes product transportation & disposal, manifest prep, & regulatory admin. fee for combined EFR and GW purge water volumes *(if applicable)*
(4) EFR # 11 free product volume was 55 gal and contained PCBs (approx. weight 450lbs total @ specific gravity of 8.18 lbs./gal). Disposal costs were significantly higher due to PCB content
(5) EFR # 23 cost and unit cost higher than normal due to additional vac truck trans and mob time. As the vac truck was broken when it reached the site, a 3 hour credit will be applied to next months EFR T&D bill.
(6) Free product stored in an on-site 550-gallon AST equipped with secondary containment. AST contents, along with groundwater resulting from well purge activities are drained and transported by CycleChem/CleanVenture every 90 days .
(7) Volume of ground water collected during each EFR event. Volume estimated using an oil/water interface probe on the 55-gal extraction drum. On-Site measurement began 1st quarter of 2000.
(8) Those volumes that are totaled over a specific period (beginning 1st quarter 2000) is that volume specific to each of the EFR event it represents.
(9) Estimated by subtracting the free product aqueous volume and extracted groundwater volume for each of the representative EFR event from the total removal volume manifested for a specific disposal event
(10) EFR events did not take place in January or February 2001 due to access issues caused by inclement weather.

Table 1
L.E. CARPENTER - Wharton, New Jersey
Free Product Recovery - EFR Well # 1 - 28

EFR Event Date / Well No.	EFR #22 28-Jul-99 Feet of Product	EFR #23 (9) 27-Aug-99 Feet of Product	EFR #24 22-Sep-99 Feet of Product	EFR #25 27-Oct-99 Feet of Product	EFR #26 30-Nov-99 Feet of Product	EFR #27 16-Dec-99 Feet of Product	EFR #28 28-Jan-00 Feet of Product	EFR #29 18-Feb-00 Feet of Product	EFR #30 24-Mar-00 Feet of Product	EFR #31 19-Apr-00 Feet of Product	EFR #32 18-May-00 Feet of Product	EFR #33 16-Jun-00 Feet of Product	EFR #34 18-Jul-00 Feet of Product	EFR #35 17-Aug-00 Feet of Product	EFR #36 18-Sep-00 Feet of Product	EFR #37 25-Oct-00 Feet of Product	EFR #38 17-Nov-00 Feet of Product	EFR #39 15-Dec-00 Feet of Product	EFR #40 (10) 15-Mar-01 Feet of Product	EFR #41 23-Apr-01 Feet of Product	EFR #42 25-May-01 Feet of Product	EFR #43 13-Jun-01 Feet of Product
EFR-1	1.49	1.27	1.94	1.63	1.47	1.20	1.22	0.85	1.98	1.59	1.54	2.10	1.51	1.26	1.53	1.00	1.07	1.14	2.91	1.25	1.02	1.14
EFR-2	1.21	1.00	0.63	1.35	1.29	1.40	0.06	1.04	2.25	2.00	1.64	1.89	1.40	0.86	1.08	0.97	1.09	0.78	2.92	2.66	1.75	2.26
EFR-3	0.98	1.03	0.74	0.69	0.47	0.02	0.51	0.07	0.08	0.09	0.62	1.02	0.25	0.02	0.08	0.44	0.43	0.46	0.33	0.29	0.49	0.70
EFR-4	0.44	0.99	0.51	0.11	0.03	0.58	0.51	0.48	0.11	0.11	0.41	0.22	0.05	0.02	0.02	0.02	0.05	0.21	0.59	1.65	0.01	0.44
EFR-5	2.66	1.57	1.77	3.23	2.99	1.27	2.95	2.46	2.91	2.54	1.84	2.34	1.99	1.69	1.57	2.74	2.47	2.76	5.95	1.75	1.90	0.62
EFR-6	1.51	0.91	0.15	0.86	0.83	0.33	1.07	0.77	0.29	0.31	0.49	0.27	0.54	0.29	0.55	0.83	0.79	0.96	2.05	0.32	0.43	0.16
EFR-7	0.28	0.05	0.01	0.07	0.04	0.47	0.15	0.02	0.35	0.01	0.02	0.00	0.00	0.01	0.00	0.01	0.01	0.01	0.29	0.02	0.02	0.00
EFR-8	0.39	0.27	0.09	0.13	0.05	0.11	0.05	0.06	0.08	0.03	0.05	0.03	0.02	0.01	0.01	4.26	0.02	0.06	0.03	0.05	0.04	0.03
EFR-9	1.16	0.56	0.41	0.28	0.10	0.15	0.13	0.08	0.19	0.02	0.06	0.06	0.12	0.16	0.09	0.02	0.50	0.77	0.57	0.07	0.56	0.07
EFR-10	3.63	2.47	3.02	5.18	3.95	3.07	4.50	3.55	3.50	4.50	1.36	2.50	3.09	0.75	2.76	3.88	3.27	4.05	5.64	3.17	3.52	3.32
EFR-11	2.78	1.57	1.93	3.20	3.11	1.07	3.44	4.95	2.41	2.95	2.93	2.49	4.12	0.79	4.73	0.16	4.00	3.73	2.82	2.41	3.56	2.60
EFR-12	0.30	0.20	0.03	0.09	0.67	0.01	0.03	0.49	0.46	0.10	0.19	0.01	0.01	0.00	0.03	0.11	0.04	0.02	0.07	0.02	0.25	0.01
EFR-13	1.33	1.01	0.74	0.78	0.57	0.26	0.36	0.34	0.48	0.47	0.69	0.55	0.73	0.49	0.22	0.25	0.09	0.15	1.14	0.27	0.78	0.26
EFR-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EFR-15	0.00	0.13	0.04	0.02	0.08	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EFR-17	0.39	0.36	0.10	0.06	0.24	0.25	0.11	0.32	0.04	0.16	0.65	0.04	0.01	0.02	0.09	0.06	0.36	0.01	0.41	0.31	0.51	0.29
EFR-18	0.96	1.37	0.61	0.36	0.77	0.05	0.20	0.05	0.12	0.04	0.32	0.01	0.06	0.16	0.09	0.31	0.31	0.20	3.27	1.35	0.43	0.31
EFR-19	2.05	2.02	0.51	1.54	0.84	0.69	1.67	1.73	0.25	0.60	0.98	0.17	0.63	0.34	0.22	0.87	0.59	1.42	2.32	0.65	1.98	1.01
EFR-20	1.59	1.86	0.47	1.92	1.96	0.75	1.08	2.58	0.64	0.42	0.54	0.33	0.30	0.39	0.45	0.54	0.11	0.37	0.24	0.97	0.52	0.31
EFR-21	1.57	1.04	1.01	2.32	1.40	1.70	1.92	1.34	3.04	2.86	2.47	3.02	2.09	1.62	2.75	1.79	1.65	1.37	4.09	3.51	2.96	2.61
EFR-22	1.47	1.41	0.17	2.22	1.76	0.53	0.82	0.58	0.09	0.16	0.05	0.05	0.01	0.18	0.06	0.53	2.14	1.50	0.81	0.06	0.43	0.00
EFR-23	2.19	1.03	0.12	0.53	0.64	0.24	0.23	0.31	0.46	0.06	0.06	0.01	0.13	0.03	0.07	0.07	0.08	0.39	0.07	0.03	0.98	0.23
EFR-24	0.08	0.05	0.00	0.00	0.04	0.13	0.11	0.07	0.58	0.02	0.03	0.00	0.00	0.00	0.01	0.01	0.01	0.04	2.27	0.05	0.34	0.01
EFR-25	1.74	1.48	0.21	0.39	0.19	0.05	0.31	0.39	0.58	0.21	0.10	0.03	0.10	0.03	0.10	0.19	0.12	0.10	0.04	0.39	0.23	0.14
EFR-26	1.23	0.72	0.23	0.52	0.94	0.59	1.54	1.10	1.33	1.68	2.02	1.44	2.25	1.38	2.01	2.05	1.78	1.10	2.64	2.56	2.68	1.48
EFR-27	0.17	0.21	0.06	0.01	0.01	0.01	0.02	0.14	0.20	0.01	0.03	0.04	0.01	0.01	0.15	0.01	0.01	0.01	0.48	0.05	0.04	0.00
EFR-28	1.87	1.78	0.38	2.19	0.96	1.42	1.33	1.00	2.30	2.42	1.81	2.68	1.72	2.48	2.02	1.39	1.36	0.64	2.81	2.75	1.98	2.34
MIN (ft)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX (ft)	3.63	2.47	3.02	5.18	3.95	3.07	4.50	4.95	3.50	4.50	2.93	3.02	4.12	2.48	4.73	4.26	4.00	4.05	5.95	3.51	3.56	3.32
Average (ft)	1.18	0.94	0.57	1.06	0.88	0.58	0.87	0.89	0.88	0.84	0.75	0.76	0.76	0.45	0.74	0.80	0.80	0.79	1.60	0.95	0.97	0.73
Total Free Product (ft)	33.11	26.36	15.94	29.68	24.59	16.87	24.34	24.79	24.62	23.38	20.91	21.30	21.14	12.49	20.67	22.51	22.35	22.23	44.76	26.62	27.24	20.38
Total Standing Free Product Volume (gal)	21.52	17.13	10.36	19.29	15.98	10.64	15.82	16.11	16.00	15.20	13.59	13.85	13.74	8.12	13.44	14.63	14.53	14.45	29.09	17.30	17.71	13.25
Estimated Total Free Product Removed (gal) (1) *(Liquid and Vapor Phase Free Product Volume)*	54.48	36.00	44.00	54.73	44.79	49.84	43.52	51.66	48.14	45.46	45.50	43.66	46.38	22.05	25.07	44.12	35.36	49.32	79.06	48.44	56.75	37.50
Estimated Total Fluids Removed (gal) *(Liquid Phase Free Product Volume plus Groundwater Extraction Volume) as of Jan 2000*							40.93	46.21	52.80	41.26	40.18	39.44	40.43	20.13	21.05	38.78	31.36	43.73	74.01	40.01	51.15	31.23
Vapor Phase Free Product Extraction Volume (gal) *as of Jan 2000*							6.55	7.93	10.19	5.85	6.31	5.05	7.60	5.22	5.26	6.58	5.65	6.42	11.06	8.49	8.90	7.50
Liquid Phase Free Product Extraction Volume (gal) *as of Jan 2000*							36.97	43.73	37.95	39.61	39.19	38.61	38.78	16.83	19.81	37.54	29.71	42.90	68.00	37.95	47.95	30.00
Groundwater Extraction Volume (gal) per each EFR Event (7) *as of Jan 2000*							3.96	2.48	14.85	1.65	0.99	0.83	1.65	3.30	1.24	1.24	1.65	0.83	6.01	2.06	3.30	1.24
Total EFR Extraction Volume (gal) *(Total Volume: free product + groundwater + product vapor)*	725.54	298.00	239.00	265.00	249.07	350.00	47.48	54.14	62.99	47.11	46.49	44.49	48.03	25.35	26.31	45.36	37.01	50.15	85.07	48.50	60.05	38.73
Estimated Volume Removed Resulting from Drum Purging (GW purge water) *if applicable* (8)	374	-	-	199	82	-	357				110				134			148			296	
Total Volume Removed from Site (gal) *(Manifested volume)* (8)	1,100	292	241	464	331	350	538				250				225			306			415	
Cumulative Total Free Product Removed (gal)	2,133	2,169	2,213	2,268	2,313	2,362	2,406	2,457	2,506	2,551	2,597	2,640	2,687	2,709	2,734	2,778	2,813	2,863	2,942	2,988	3,045	3,082
Extraction, Transportation & Disposal Cost(2)	$ 2,165.75	$ 2,162.12	$ 995.81	$ 1,298.50	$ 1,029.99	$ 968.97	$ 1,045.62				$ 795.18				$ 782.31			$ 996.13			$	
Unit Cost per gal(3)	$ 1.97	$ 7.40	$ 4.13	$ 2.78	$ 3.11	$ 2.77	$ 1.94				$ 3.18				$ 3.39			$ 3.26			$	
State Manifest Document Number	NJA3016543	NJA3022956	NJA2986932	NJA313015	NJA3030027	NJA3074974	NJA3114960				NJA3115667				NJA3101136			NJA3239138			NJA3266363	

Table 1
L.E. CARPENTER - Wharton, New Jersey
Free Product Recovery - EFR Well # 1 - 28

EFR Event Date / Well No.	EFR #44 27-Jul-01 Feet of Product	EFR #45 24-Aug-01 Feet of Product	EFR #46 25-Sep-01 Feet of Product	EFR #47 25-Oct-01 Feet of Product	EFR #48 20-Nov-01 Feet of Product	EFR #49 31-Dec-01 Feet of Product	EFR #50 29-Jan-02 Feet of Product	EFR #51 20-Feb-02 Feet of Product	EFR #52 26-Mar-02 Feet of Product	EFR #53 10-Apr-02 Feet of Product	EFR #54 6-May-02 Feet of Product	EFR #55 13-Jun-02 Feet of Product	EFR #56 15-Jul-02 Feet of Product	EFR #57 9-Aug-02 Feet of Product	EFR #58 13-Sep-02 Feet of Product	EFR #59 8-Oct-02 Feet of Product	EFR #60 7-Nov-02 Feet of Product	EFR #61 17-Dec-02 Feet of Product	EFR #62 11-Mar-03 Feet of Product	EFR #63 17-Mar-03 Feet of Product	EFR #64 21-Mar-03 Feet of Product
EFR-1	0.57	0.80	1.29	1.80	1.51	1.57	2.07	1.93	0.90	0.77	1.60	1.92	0.65	0.81	1.14	0.88	1.62	1.33	0.68	0.22	0.41
EFR-2	1.22	1.17	1.22	1.14	1.15	1.19	1.37	1.33	1.40	1.20	2.39	2.15	1.93	1.02	0.09	1.27	2.86	3.07	1.96	0.94	1.02
EFR-3	0.40	0.66	0.51	0.81	0.76	0.80	0.70	0.78	1.05	1.09	1.28	1.53	0.25	0.89	0.61	0.91	0.98	0.98	0.70	0.30	0.20
EFR-4	0.02	1.86	0.11	0.57	0.68	0.54	0.26	1.13	0.97	0.89	0.98	1.07	1	0.26	0.11	0.43	2.86	0.52	0	0	0
EFR-5	2.24	2.05	2.25	2.55	2.10	2.67	2.66	2.68	3.50	3.07	3.25	2.17	2.01	2.00	2.05	1.67	1.68	0.37	2.91	1.19	0.16
EFR-6	0.46	0.49	0.97	1.13	1.56	1.23	0.71	2.21	2.30	0.77	0.43	0.27	0.54	0.45	0.62	0.98	3.14	1.63	0.27	0.29	0.27
EFR-7	0.00	0.16	0.00	0.05	0.08	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.01	0.00	0.00	0.00	0.00	0.00	0.00
EFR-8	0.01	0.18	0.00	0.18	0.16	0.22	0.01	0.04	0.07	0.10	0.05	0.07	0	0.14	0.28	0.18	0.1	0.25	0.37	0.27	0.23
EFR-9	0.14	0.27	0.39	0.56	0.65	0.92	0.29	0.45	0.32	0.32	0.28	0.11	0.35	0.30	0.19	0.32	0.33	0.25	0.24	0.02	0.32
EFR-10	3.73	2.30	2.62	2.70	2.61	2.91	2.02	3.32	3.48	2.77	2.64	3.39	3.16	2.31	2.83	1.95	2.70	2.76	2.45	0.84	0.28
EFR-11	3.91	2.37	3.86	3.22	2.44	2.90	2.99	2.58	2.12	0.99	0.87	1.01	1.54	2.08	3.91	2.06	1.88	1.87	2.62	4.69	3.83
EFR-12	0.01	0.23	0.00	0.00	0.34	0.21	0.26	0.11	0.10	0.15	0.00	0.06	0.90	0.06	0.33	0.25	0.24	0.64	0.56	0.49	0.52
EFR-13	0.39	0.47	0.38	0.46	0.88	0.44	0.84	0.44	0.87	0.68	1.71	1.11	0.55	0.26	0.61	0.30	0.55	0.68	0.08	0.11	0.26
EFR-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EFR-15	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.20	0.00	0.09	0.00	0.28	0.00	0.00	0.00	0.00
EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EFR-17	0.02	0.49	0.34	0.85	0.97	1.57	1.43	2.23	1.90	0.77	0.75	0.60	0.43	0.67	1.50	0.71	1.10	1.07	0.18	0.03	0.00
EFR-18	0.01	0.13	0.41	0.69	0.75	1.22	1.30	1.00	1.07	0.81	0.80	0.05	0.32	0.02	1.56	0.21	0.04	0.84	1.32	1.31	0.04
EFR-19	0.44	1.19	0.54	2.15	2.36	2.38	2.26	3.22	2.90	2.69	1.34	0.95	1.82	1.55	2.55	0.35	1.30	1.03	0.40	0.80	0.31
EFR-20	0.08	0.32	0.24	0.73	1.10	1.29	1.78	0.46	1.24	1.24	1.74	2.03	1.62	1.58	1.85	1.47	1.77	2.45	2.30	1.98	1.33
EFR-21	1.98	1.81	1.87	1.58	1.38	1.54	1.51	1.50	2.25	1.65	2.11	2.51	1.98	1.46	0.02	0.44	0.00	0.00	0.01	2.43	1.95
EFR-22	0.00	0.47	0.57	1.22	1.53	1.93	0.96	0.63	0.60	0.09	0.16	0.19	0.32	0.11	0.22	1.39	1.09	0.78	2.60	0.54	0.00
EFR-23	0.05	0.34	0.07	0.85	2.67	0.75	0.98	1.13	0.01	0.70	0.57	0.52	0.60	0.38	0.77	0.53	0.81	0.67	0.82	0.06	0.50
EFR-24	0.01	0.27	0.14	0.35	0.38	0.94	0.47	2.65	0.60	1.35	0.33	0.24	1.18	0.19	0.13	0.16	0.01	0.00	0.00	0.00	0.00
EFR-25	0.03	0.47	0.09	0.43	0.63	0.64	0.82	0.99	0.75	1.21	0.33	0.29	0.36	0.25	0.35	0.28	0.33	0.69	0.14	0.09	0.05
EFR-26	2.24	1.07	1.20	1.45	1.22	1.13	1.14	0.87	1.55	1.67	1.83	1.92	2.42	1.69	1.24	0.59	0.28	0.40	0.33	0.27	0.30
EFR-27	0.01	0.04	0.00	0.52	0.49	0.13	0.53	0.32	0.00	0.00	0.38	1.91	1.10	0.04	1.43	2.53	1.77	3.10	2.49	0.00	0.00
EFR-28	1.36	1.67	1.05	1.50	1.38	1.51	1.67	1.86	0.21	0.63	0.29	0.35	1.08	0.38	1.22	0.22	0.14	0.28	1.04	0.30	0.61
MIN (ft)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX (ft)	3.91	2.37	3.86	3.22	2.67	2.91	2.89	3.32	3.50	3.07	3.25	3.39	3.16	2.31	3.91	2.53	3.14	3.10	2.91	4.69	3.83
Average (ft)	0.69	0.75	0.70	0.97	1.07	1.06	1.06	1.21	1.06	0.93	0.93	0.92	0.90	0.68	0.93	0.69	1.00	0.91	0.87	0.61	0.45
Total Free Product (ft)	19.33	21.09	19.52	27.29	30.01	29.67	29.55	33.86	29.81	25.91	26.11	25.82	25.11	19.01	25.91	19.43	27.86	25.54	24.47	17.07	12.59
Total Standing Free Product Volume (gal)	12.56	13.70	12.69	17.74	19.51	19.29	19.21	22.01	19.38	16.84	16.97	16.78	16.32	12.36	16.84	12.63	18.11	16.60	15.91	11.10	8.18
Estimated Total Free Product Removed (gal) [1] *(Liquid and Vapor Phase Free Product Volume)*	40.36	37.70	27.86	26.54	31.09	29.36	32.48	33.28	29.73	31.72	29.10	29.15	25.59	26.19	39.55	28.67	25.66	27.22	38.50	30.39	17.21
Estimated Total Fluids Removed (gal) *(Liquid Phase Free Product Volume plus Groundwater Extraction Volume) as of Jan 2000*	36.30	33.00	25.58	25.16	26.40	23.93	24.75	26.40	25.16	29.05	26.40	29.05	25.58	24.75	37.13	31.02	28.05	28.05	38.78	31.35	17.33
Vapor Phase Free Product Extraction Volume (gal) *as of Jan 2000*	6.53	6.35	4.78	6.26	7.99	7.91	9.38	6.53	6.63	6.15	5.00	6.05	2.49	3.51	6.55	1.93	1.74	1.64	1.38	1.51	0.71
Liquid Phase Free Product Extraction Volume (gal) *as of Jan 2000*	33.83	31.35	23.10	22.28	23.10	21.45	23.10	24.75	23.10	25.58	23.10	23.10	23.10	22.69	33.00	26.73	23.93	25.58	37.13	29.88	16.50
Groundwater Extraction Volume (gal) per each EFR Event [7] *as of Jan 2000*	2.48	1.65	2.48	2.89	3.30	2.48	1.65	1.65	2.06	2.48	3.30	4.95	2.48	2.06	4.13	4.29	4.13	2.48	1.65	2.48	0.83
Total EFR Extraction Volume (gal) (Total Volume: *free product + groundwater + product vapor)*	42.84	39.35	30.34	31.42	34.39	31.84	34.13	34.93	31.79	34.21	31.40	34.10	28.07	28.26	43.68	32.95	29.80	29.70	40.16	32.87	18.04
Estimated Volume Removed Resulting from Drum Purging (GW purge water) *if applicable* [9]		90				0				142				0					In Satellite Storage (5)		
Total Volume Removed from Site (gal) *(Manifested volume)* [8]		200				100				250				105					In Satellite Storage (5)		
Cumulative Total Free Product Removed (gal)	3,123	3,160	3,188	3,217	3,248	3,277	3,310	3,343	3,373	3,404	3,433	3,462	3,487	3,513	3,553	3,582	3,607	3,635	3,673	3,703	3,721
Extraction, Transportation & Disposal Cost[2]	1,175.19	$ 1,069.50				$ 768.25				$ 965.12				$ 951.00							
Unit Cost per gal[3]	2.83	$ 5.35				$ 7.68				$ 3.86				$ 8.10							
State Manifest Document Number		NJA4036630				NJA4035384				NJA4035962				NJA4038029 (11)							

Table 1
L.E. CARPENTER - Wharton, New Jersey
Free Product Recovery - EFR Well # 1 - 28

EFR Event Date Well No.	EFR #65 10-Apr-03 Feet of Product	EFR #66 8-May-03 Feet of Product	EFR #67 10-Jun-03 Feet of Product	EFR AVERAGES	EFR TOTALS
EFR-1	0.45	0.19	0.48		
EFR-2	1.40	1.54	2.84		
EFR-3	0.07	0.14	0.05		
EFR-4	0	0	0		
EFR-5	0.79	0.49	0.81		
EFR-6	0.39	0.14	0.43		
EFR-7	0.00	0.00	0.00		
EFR-8	0.33	0.05	0.11		
EFR-9	0.54	0.17	0.10		
EFR-10	0.84	0.79	1.93		
EFR-11	1.19	0.99	1.01		
EFR-12	0.45	0.13	0.24		
EFR-13	0.25	0.12	0.27		
EFR-14	0.00	0.00	0.00		
EFR-15	0.00	0.00	0.00		
EFR-16	0.00	0.00	0.00		
EFR-17	0.00	0.39	0.51		
EFR-18	0.00	0.66	0.01		
EFR-19	1.51	0.52	0.09		
EFR-20	2.42	1.00	3.18		
EFR-21	1.45	2.44	2.39		
EFR-22	0.00	0.00	0.00		
EFR-23	2.24	0.05	0.26		
EFR-24	0.00	0.00	0.00		
EFR-25	0.21	0.32	0.00		
EFR-26	0.18	0.51	0.20		
EFR-27	0.00	0.00	0.00		
EFR-28	0.44	0.38	0.30		
MIN (ft)	0.00	0.00	0.00		
MAX (ft)	2.42	2.44	3.18		
Average (ft)	0.54	0.39	0.50		
Total Free Product (ft)	15.15	11.02	14.11		
Total Standing Free Product Volume (gal)	9.85	7.16	9.17		
Estimated Total Free Product Removed (gal) [1] *(Liquid and Vapor Phase Free Product Volume)*	27.34	19.05	25.45	56	3,792
Estimated Total Fluids Removed (gal) *(Liquid Phase Free Product Volume plus Groundwater Extraction Volume) as of Jan 2000*	30.53	19.39	26.40	33	1,320
Vapor Phase Free Product Extraction Volume (gal) *as of Jan 2000*	0.94	0.90	2.35	6	222
Liquid Phase Free Product Extraction Volume (gal) *as of Jan 2000*	26.40	18.15	23.10	30	1,208
Groundwater Extraction Volume (gal) per each EFR Event [7] *as of Jan 2000*	4.18	1.24	3.30	3	112
Total EFR Extraction Volume (gal) *(Total Volume: free product + groundwater + product vapor)*	31.47	20.29	28.75	220	14,960
Estimated Volume Removed Resulting from Drum Purging (GW purge water) *if applicable* [9]	In Satellite Storage (7)			176	3,865
Total Volume Removed from Site (gal) *(Manifested volume)* [8]	In Satellite Storage (7)			493	18,248
Cumulative Total Free Product Removed (gal)	3,748	3,767	3,792	N/A	3,792
Extraction, Transportation & Disposal Cost[2]				$ 1,281.76	$ 51,215.42
Unit Cost per gal[3]				$ 3.72	N/A
State Manifest Document Number				N/A	N/A

Once the extraction apparatus is full (approximately 55-gallons), the free product and limited volume of groundwater are transferred to the on-site 550-gallon aboveground storage tank (AST) equipped with secondary containment for satellite storage. The fluids generated during EFR events, including purged groundwater generated during groundwater monitoring activities, are transported off-site by Clean Venture, Inc. (US EPA ID No. NJ0000027193) and managed by Cycle Chem, Inc. (USEPA ID No. NJD002200046) at their facility located in Elizabeth, New Jersey. No waste fluids were transported off-site during second quarter 2003.

2.2 Apparent Free Product Trends

The following sections describe apparent product trends in the western, west central, east central, and eastern portions of the free product area. Apparent product refers to a volume (in gallons) of free product occupying the casings of each EFR well. As described in the following sections, "total volume of apparent free product" represents the sum of product volumes from each EFR well within each of the four segregated regions.

The apparent product thickness is not representative of the actual free product thickness or volume that exists within the formation outside of the well casing. RMT previously evaluated actual free product thickness and volume in our report entitled Free Product Volume Analysis (May 2000). That report estimated a total volume of recoverable free product actually present in the subsurface to be between at 8,000 and 13,000 gallons. To facilitate description of the current distribution of free product, the zone of free product occurrence has been divided into four sub areas. These four areas discussed from west to east are:

2.1.1 Western Region of Free Product

In the western portion of the free product area (EFR wells 1, 2, 3, 17, 18, 20, 21, and 28), there was an increase in the total volume of apparent free product measured during the second quarter of 2003. Apparent total free product volume increased from 4.05 gallons in April 2003 to 6.02 gallons in June 2003. Free product thickness decreased at EFR wells 3 and 28 and increased at EFR wells 1, 2, 17, 18, 20, and 21. In general, the overall apparent free product volume in the western region continues to decrease since LEC initiated EFR in November 1997 (Appendix B).

2.1.2 West-Central Region of Free Product

In the western-central portion of the free product area (EFR wells 4, 5, 6, 7, 19, 22, 23, 24, 25, 26, and 27), the total volume of apparent free product decreased from 3.46 gallons in April 2003 to 1.16 gallons in June 2003. Free product thickness decreased at EFR wells 19, 23, and 25, increased at EFR wells 5, 6, and 26 and remained the same at EFR wells 4,

7, 22, 24, and 27. The overall apparent free product volume in the west-central region continues to decrease since LEC initiated EFR in November 1997 (Appendix B).

2.1.3 East-Central Region of Free Product

In the east-central portion of the free product area (EFR wells 8, 9, 10, 11, 12, and 13), there was a decrease in the total volume of apparent free product measured during the second quarter of 2003. Free product thickness decreased at EFR wells 8, 9, 11, and 12 and increased at EFR wells 10 and 13. The overall apparent free product volume in the eastern-central region continues to be decrease since LEC initiated EFR in November 1997 (Appendix B).

2.1.4 Eastern Region of Free Product

During second quarter 2003, no free product was detected in the EFR wells 14, 15, and 16. A free product thickness of 0.29 feet was measured in nearby monitoring well MW-3.

2.1.5 Site Total Apparent Free Product Area

In general, the total apparent free product trend chart indicates a general decrease in the volume of apparent free product existing on-site. A cumulative breakdown of free product thickness and apparent free product volumes specific to each region is presented in Table 2. Additionally, trend charts for each of the four free product regions, and for the site as a whole, that graphically display apparent free product volume fluctuations over time are presented in Appendix B. Figure 3 shows iso-thickness contours and the lateral extent of apparent free product on-site during second quarter 2003. This figure incorporates the apparent free product thickness measurements from the groundwater monitoring event conducted by RMT on June 2, 2003 and the pre-EFR event measurements obtained by CEMCO on June 10, 2003.

[illegible]LE 2

L.E. CARPENTER - WHARTON, NEW JERSEY

REGIONAL APPARENT FREE PRODUCT TRENDS

	EFR Event Date	21-Nov-97	9-Dec-97	7-Jan-98	16-Feb-98	16-Mar-98	27-Mar-98	24-Apr-98	29-May-98	30-Jun-98	31-Jul-98	24-Aug-98	17-Sep-98	22-Oct-98	20-Nov-98	18-Dec-98
Western Region of Free Product	EFR-1	1.64	1.53	1.94	2.48	0.93	0.94	1.42	1.55	2.11	1.28	1.22	1.71	1.59	1.71	1.57
	EFR-2	1.55	1.50	1.86	2.20	2.96	2.92	2.65	2.44	1.78	1.12	1.09	1.21	1.29	1.51	1.41
	EFR-3	0.85	1.02	1.27	1.58	1.19	0.03	0.24	0.19	0.77	0.72	0.93	1.03	1.01	1.19	1.18
	EFR-17	0.04	0.17	1.56	0.17	0.08	0.00	0.09	0.00	0.02	0.37	0.29	0.46	0.56	0.71	0.53
	EFR-18	0.10	0.10	0.09	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.14	0.48	0.68	0.98	1.08
	EFR-20	0.40	0.34	0.95	0.27	0.00	0.00	0.04	0.24	0.37	0.65	0.63	0.79	1.24	1.85	2.11
	EFR-21	2.36	2.40	2.71	2.74	4.14	3.97	4.23	3.98	3.29	1.97	1.87	1.86	1.77	1.67	1.62
	EFR-28	2.20	2.30	1.78	2.60	3.20	3.48	4.40	3.16	2.61	1.47	1.73	1.69	1.83	1.79	1.74
	Total Free Product (ft)	9.14	9.36	12.16	12.04	12.50	11.34	13.07	11.56	10.96	7.66	7.90	9.23	9.97	11.41	11.24
	Total Free Product (gal)	5.86	6.00	7.79	7.72	8.01	7.27	8.38	7.41	7.03	4.91	5.06	6.00	6.48	7.42	7.31
West-Central Region of Free Product	EFR-4	1.03	2.27	0.54	0.30	0.00	0.00	0.00	0.00	0.03	0.38	1.23	2.40	2.17	1.75	1.79
	EFR-5	4.03	3.74	4.25	3.29	3.39	1.71	2.71	2.02	1.86	2.38	2.52	2.33	2.52	2.19	2.28
	EFR-6	0.72	1.00	1.24	2.27	1.71	1.17	2.23	1.55	1.56	1.96	1.56	1.42	1.25	1.29	1.38
	EFR-7	0.17	0.09	0.16	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.03	0.07	0.05	0.20	0.16
	EFR-19	0.54	2.80	1.89	1.95	1.63	1.44	0.88	0.65	0.42	0.90	1.26	1.68	1.95	2.31	2.44
	EFR-22	3.76	4.10	0.05	3.40	4.69	3.42	1.82	1.22	0.96	2.86	2.87	2.97	2.83	2.58	2.27
	EFR-23	0.00	0.06	0.08	0.02	0.00	0.00	0.00	0.00	0.05	0.11	0.08	0.27	1.03	3.07	2.29
	EFR-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.03	0.12	0.14
	EFR-25	2.95	3.00	3.55	4.15	3.11	0.72	0.82	0.79	0.78	0.60	0.41	0.29	0.41	1.33	1.58
	EFR-26	2.20	2.05	2.66	2.30	2.12	1.43	1.32	1.95	1.21	2.06	1.58	1.17	1.24	1.08	1.09
	EFR-27	0.15	0.02	2.71	0.74	0.00	0.00	0.03	0.00	0.02	0.33	0.45	1.49	0.54	0.47	0.51
	Total Free Product (ft)	15.57	19.13	17.11	18.42	16.65	9.89	9.81	8.18	6.91	11.60	11.99	14.09	14.02	16.39	15.93
	Total Free Product (gal)	9.98	12.26	10.97	11.81	10.67	6.34	6.29	5.24	4.43	7.44	7.69	9.16	9.11	10.65	10.35
East-Central Region of Free Product	EFR-8	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.03	0.04	0.08	0.13	0.09	0.07	0.03
	EFR-9	0.00	1.10	1.79	0.16	3.08	0.08	0.07	0.11	0.29	0.61	0.98	1.23	1.31	1.26	1.86
	EFR-10	5.20	5.80	6.42	7.47	7.06	6.05	6.71	5.47	5.68	4.94	4.52	4.34	4.38	3.98	3.99
	EFR-11	3.07	4.04	4.28	4.47	4.32	4.67	5.91	5.73	6.08	4.73	4.47	3.95	4.06	3.65	3.52
	EFR-12	0.04	0.03	0.00	0.07	0.00	0.00	0.00	0.02	0.28	0.22	0.28	0.24	0.15	0.29	0.17
	EFR-13	0.48	0.56	1.33	1.28	1.07	1.07	0.67	0.00	0.90	0.56	0.48	0.66	0.82	1.13	1.30
	Total Free Product (ft)	8.79	11.53	13.82	13.53	15.53	11.87	13.36	11.33	13.26	11.10	10.81	10.55	10.81	10.38	10.87
	Total Free Product (gal)	5.63	7.39	8.86	8.67	9.95	7.61	8.56	7.26	8.50	7.12	6.93	6.86	7.03	6.75	7.07
Eastern Region of Free Product	EFR-14	0.10	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-15	0.09	0.12	0.27	0.06	0.00	0.00	0.00	0.00	0.03	0.02	0.03	0.03	0.12	0.12	0.32
	EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (ft)	0.19	0.28	0.27	0.06	0.00	0.00	0.00	0.00	0.03	0.02	0.03	0.03	0.12	0.12	0.32
	Total Free Product (gal)	0.12	0.18	0.17	0.04	0.00	0.00	0.00	0.00	0.02	0.01	0.02	0.02	0.08	0.08	0.21
TOTAL APPARENT FREE PRODUCT VOLUME (GAL)		21.60	25.83	27.79	28.24	28.64	21.22	23.23	19.92	19.97	19.47	19.70	22.03	22.70	24.89	24.93

TABLE 2
L.E. CARPENTER - WHARTON, NEW JERSEY
REGIONAL APPARENT FREE PRODUCT TRENDS

	EFR Event Date	13-Jan-99	17-Feb-99	23-Mar-99	19-Apr-99	18-May-99	22-Jun-99	28-Jul-99	27-Aug-99	22-Sep-99	27-Oct-99	30-Nov-99	16-Dec-99	28-Jan-00	18-Feb-00	24-Mar-00
Western Region of Free Product	EFR-1	0.53	1.79	3.68	1.13	1.09	1.15	1.49	1.27	1.94	1.63	1.47	1.20	1.22	0.85	1.86
	EFR-2	0.95	1.40	2.42	1.46	1.22	0.92	1.21	1.00	0.63	1.35	1.28	1.40	0.06	1.04	2.25
	EFR-3	1.14	1.01	1.63	0.36	0.25	0.86	0.88	1.03	0.74	0.69	0.47	0.02	0.51	0.07	0.08
	EFR-17	0.26	0.08	0.06	0.06	0.08	0.12	0.39	0.36	0.10	0.06	0.24	0.25	0.11	0.32	0.04
	EFR-18	0.56	0.11	0.00	0.06	0.16	0.46	0.96	1.37	0.61	0.36	0.77	0.05	0.20	0.05	0.12
	EFR-20	0.65	1.33	0.88	0.43	0.89	0.87	1.59	1.86	0.47	1.92	1.36	0.75	1.08	2.58	0.64
	EFR-21	1.21	1.43	2.62	2.35	1.49	1.46	1.57	1.04	1.01	2.32	1.40	1.70	1.92	1.34	3.04
	EFR-28	1.03	1.29	1.71	1.65	1.46	1.25	1.67	1.78	0.38	2.19	0.96	1.42	1.33	1.00	2.30
	Total Free Product (ft)	6.33	8.44	13.00	7.50	6.64	7.09	9.76	9.71	5.88	10.52	7.95	6.79	6.43	7.25	10.33
	Total Free Product (gal)	4.11	5.49	8.45	4.88	4.32	4.61	6.34	6.31	3.82	6.84	5.17	4.41	4.18	4.71	6.71
West-Central Region of Free Product	EFR-4	0.73	0.10	0.14	0.08	0.05	0.03	0.44	0.99	0.51	0.11	0.03	0.58	0.51	0.48	0.11
	EFR-5	2.68	3.47	6.15	2.65	2.61	2.66	2.66	1.57	1.77	3.23	2.99	1.27	2.95	2.46	2.91
	EFR-6	0.49	0.84	0.88	0.61	1.07	1.16	1.51	0.91	0.15	0.86	0.63	0.33	1.07	0.77	0.29
	EFR-7	0.02	0.04	0.04	0.07	0.02	0.08	0.28	0.05	0.01	0.07	0.04	0.47	0.15	0.02	0.35
	EFR-19	1.83	1.68	0.52	0.44	0.52	1.10	2.05	2.02	0.51	1.54	0.84	0.69	1.67	1.73	0.25
	EFR-22	2.06	0.84	0.34	0.95	1.39	1.93	1.47	1.41	0.17	2.22	1.76	0.53	0.82	0.58	0.09
	EFR-23	1.55	0.91	0.47	0.22	0.25	0.45	2.13	1.03	0.12	0.53	0.64	0.24	0.23	0.31	0.46
	EFR-24	0.38	0.06	0.00	0.00	0.00	0.08	0.08	0.05	0.00	0.00	0.04	0.13	0.11	0.07	0.58
	EFR-25	1.05	1.75	1.19	1.08	0.76	0.54	1.74	1.48	0.21	0.39	0.19	0.05	0.31	0.39	0.58
	EFR-26	0.73	0.55	0.45	0.75	1.29	1.28	1.23	0.72	0.29	0.52	0.94	0.59	1.54	1.10	1.33
	EFR-27	0.09	0.12	0.00	0.00	0.02	0.03	0.17	0.21	0.06	0.01	0.01	0.01	0.02	0.14	0.20
	Total Free Product (ft)	11.61	10.36	10.18	6.85	7.98	9.34	13.76	10.44	3.80	9.48	8.11	4.89	9.38	8.05	7.15
	Total Free Product (gal)	7.55	6.73	6.62	4.45	5.19	6.07	8.94	6.79	2.47	6.16	5.27	3.18	6.10	5.23	4.65
East-Central Region of Free Product	EFR-8	0.12	0.00	0.03	0.03	0.03	0.09	0.39	0.27	0.09	0.13	0.05	0.11	0.05	0.06	0.08
	EFR-9	0.74	0.49	0.06	0.11	0.32	0.49	1.16	0.56	0.41	0.28	0.10	0.15	0.13	0.08	0.19
	EFR-10	3.68	5.79	5.52	4.97	4.23	3.71	3.63	2.47	3.02	5.18	3.95	3.07	4.50	3.55	3.50
	EFR-11	2.42	4.69	2.84	2.02	2.48	3.28	2.78	1.57	1.93	3.20	3.11	1.07	3.44	4.95	2.41
	EFR-12	0.04	0.11	0.05	0.02	0.02	0.10	0.30	0.20	0.03	0.09	0.67	0.01	0.03	0.49	0.46
	EFR-13	0.22	1.19	0.15	0.49	0.50	0.44	1.33	1.01	0.74	0.78	0.57	0.26	0.36	0.34	0.48
	Total Free Product (ft)	7.22	12.27	8.65	7.64	7.58	8.11	9.59	6.08	6.22	9.66	8.45	4.67	8.51	9.47	7.12
	Total Free Product (gal)	4.69	7.98	5.62	4.97	4.93	5.27	6.23	3.95	4.04	6.28	5.49	3.04	5.53	6.16	4.63
Eastern Region of Free Product	EFR-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-15	0.11	0.07	0.01	0.01	0.00	0.00	0.00	0.13	0.04	0.02	0.08	0.02	0.02	0.02	0.02
	EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (ft)	0.11	0.07	0.01	0.01	0.00	0.00	0.00	0.13	0.04	0.02	0.08	0.02	0.02	0.02	0.02
	Total Free Product (gal)	0.07	0.04	0.01	0.01	0.00	0.00	0.00	0.08	0.03	0.01	0.05	0.01	0.01	0.01	0.01
TOTAL APPARENT FREE PRODUCT VOLUME (GAL)		16.42	20.24	20.70	14.30	14.43	15.95	21.52	17.13	10.36	19.29	15.98	10.64	15.82	16.11	16.00

TABLE 2
L.E. CARPENTER - WHARTON, NEW JERSEY
REGIONAL APPARENT FREE PRODUCT TRENDS

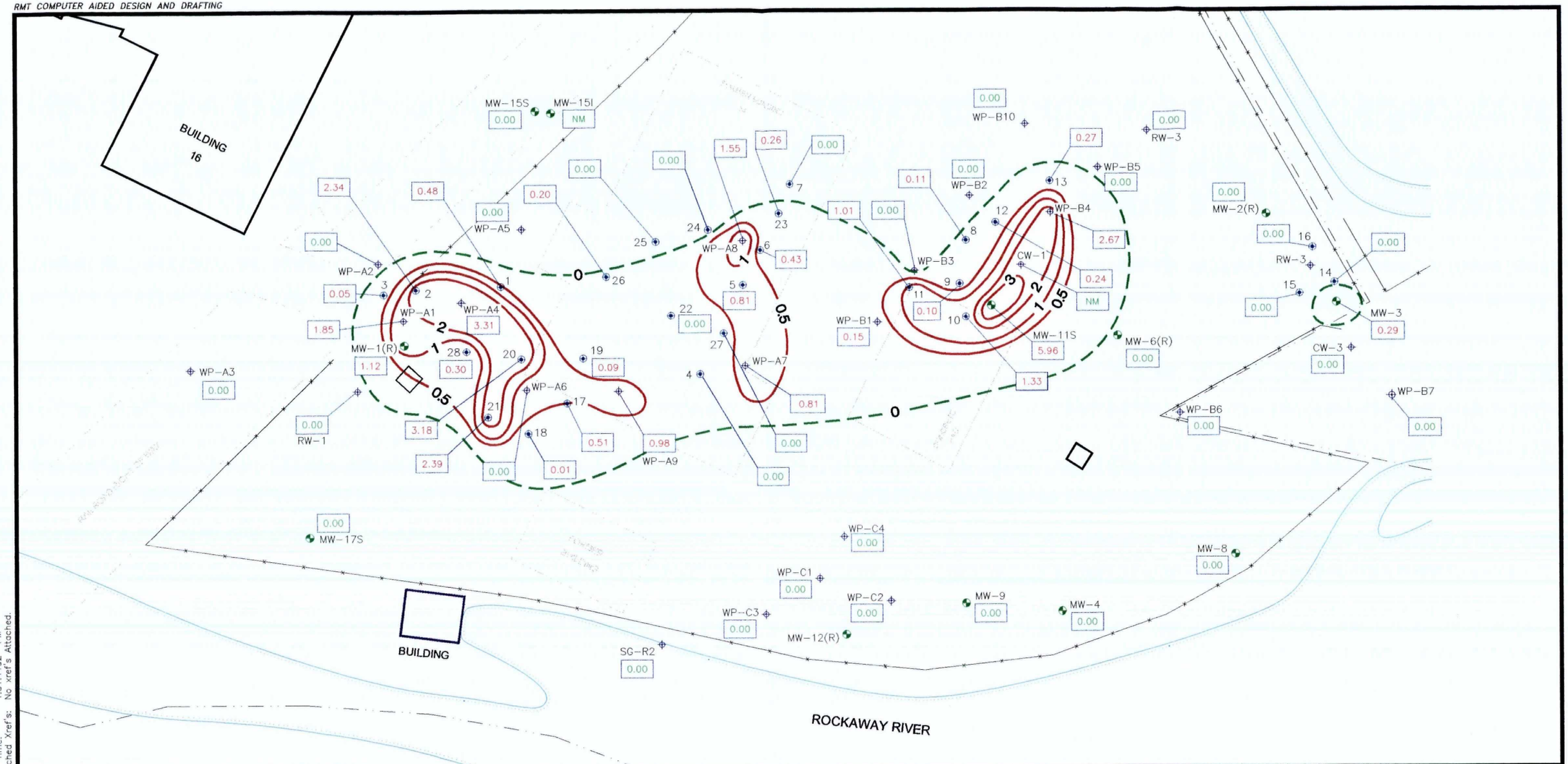
	EFR Event Date	19-Apr-00	18-May-00	16-Jun-00	18-Jul-00	17-Aug-00	18-Sep-00	25-Oct-00	17-Nov-00	15-Dec-00	15-Mar-01	23-Apr-01	25-May-01	13-Jun-01	27-Jul-01	24-Aug-01
Western Region of Free Product	EFR-1	1.59	1.54	2.10	1.51	1.26	1.53	1.00	1.07	1.14	2.91	1.25	1.02	1.14	0.57	0.80
	EFR-2	2.00	1.64	1.89	1.40	0.36	1.08	0.97	1.09	0.76	2.92	2.66	1.75	2.26	1.22	1.17
	EFR-3	0.09	0.62	1.02	0.25	0.02	0.08	0.44	0.43	0.46	0.33	0.29	0.49	0.70	0.40	0.66
	EFR-17	0.16	0.65	0.04	0.01	0.02	0.09	0.06	0.36	0.01	0.41	0.31	0.51	0.28	0.02	0.49
	EFR-18	0.04	0.32	0.01	0.06	0.16	0.08	0.31	0.31	0.20	3.27	1.35	0.43	0.31	0.01	0.13
	EFR-20	0.42	0.54	0.33	0.30	0.39	0.45	0.54	0.11	0.37	0.24	0.97	0.52	0.31	0.08	0.32
	EFR-21	2.86	2.47	3.02	2.09	1.62	2.75	1.79	1.65	1.37	4.09	3.51	2.96	2.61	1.98	1.61
	EFR-28	2.42	1.81	2.68	1.72	2.48	2.02	1.39	1.36	0.64	2.81	2.75	1.86	2.34	1.36	1.67
	Total Free Product (ft)	9.58	9.59	11.09	7.34	6.31	8.08	6.50	6.38	4.95	16.98	13.09	9.54	9.95	5.64	6.85
	Total Free Product (gal)	6.23	6.23	7.21	4.77	4.10	5.25	4.23	4.15	3.22	11.04	8.51	6.20	6.47	3.67	4.45
West-Central Region of Free Product	EFR-4	0.11	0.41	0.22	0.05	0.02	0.02	0.02	0.05	0.21	0.59	1.65	0.01	0.44	0.02	1.86
	EFR-5	2.54	1.84	2.34	1.99	1.69	1.57	2.74	2.47	2.76	5.95	1.75	1.90	0.62	2.24	2.05
	EFR-6	0.31	0.49	0.27	0.54	0.29	0.55	0.83	0.79	0.96	2.05	0.32	0.43	0.16	0.46	0.49
	EFR-7	0.01	0.02	-	-	0.01	-	0.01	0.01	0.01	0.28	0.02	0.02	0.00	0.00	0.16
	EFR-19	0.60	0.98	0.17	0.63	0.34	0.22	0.87	0.59	1.42	2.32	0.65	1.98	1.01	0.44	1.19
	EFR-22	0.16	0.05	0.05	0.01	0.18	0.06	0.53	2.14	1.50	0.81	0.06	0.43	0.00	0.00	0.47
	EFR-23	0.06	0.06	0.01	0.13	0.03	0.07	0.07	0.08	0.39	0.07	0.03	0.88	0.28	0.05	0.34
	EFR-24	0.02	0.03	-	-	-	0.01	0.01	0.01	0.04	2.27	0.05	0.34	0.01	0.01	0.27
	EFR-25	0.21	0.10	0.03	0.10	0.03	0.10	0.19	0.12	0.10	0.04	0.39	0.28	0.14	0.03	0.47
	EFR-26	1.68	2.02	1.44	2.25	1.38	2.01	2.05	1.78	1.10	2.64	2.56	2.68	1.48	2.24	1.07
	EFR-27	0.01	0.03	0.04	0.01	0.01	0.15	0.01	0.01	0.01	0.48	0.05	0.04	0.00	0.01	0.04
	Total Free Product (ft)	5.71	6.03	4.57	5.71	3.98	4.76	7.33	8.05	8.50	17.50	7.53	8.99	4.14	5.50	8.41
	Total Free Product (gal)	3.71	3.92	2.97	3.71	2.59	3.09	4.76	5.23	5.53	11.38	4.89	5.84	2.69	3.58	5.47
East-Central Region of Free Product	EFR-8	0.03	0.05	0.03	0.02	0.01	0.01	0.16	0.02	0.06	0.03	0.05	0.04	0.03	0.01	0.18
	EFR-9	0.02	0.06	0.06	0.12	0.16	0.08	0.02	0.50	0.77	0.57	0.07	0.56	0.07	0.14	0.27
	EFR-10	4.50	1.36	2.50	3.09	0.75	2.76	3.88	3.27	4.05	5.84	3.17	3.52	3.32	3.73	2.30
	EFR-11	2.95	2.93	2.49	4.12	0.79	4.73	4.26	4.00	3.73	2.82	2.41	3.56	2.60	3.91	2.37
	EFR-12	0.10	0.19	0.01	0.01	0.00	0.03	0.11	0.04	0.02	0.07	0.02	0.25	0.01	0.01	0.23
	EFR-13	0.47	0.69	0.55	0.73	0.49	0.22	0.25	0.09	0.15	1.14	0.27	0.78	0.26	0.39	0.47
	Total Free Product (ft)	8.07	5.28	5.64	8.09	2.20	7.83	8.68	7.92	8.78	10.27	5.99	8.71	6.29	8.19	5.82
	Total Free Product (gal)	5.25	3.43	3.67	5.26	1.43	5.09	5.64	5.15	5.71	6.68	3.89	5.66	4.09	5.32	3.78
Eastern Region of Free Product	EFR-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-15	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
	EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (ft)	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
	Total Free Product (gal)	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
TOTAL APPARENT FREE PRODUCT VOLUME (GAL)		15.20	13.59	13.85	13.74	8.12	13.44	14.63	14.53	14.45	29.09	17.30	17.71	13.25	12.56	13.70

TABLE 2
L.E. CARPENTER - WHARTON, NEW JERSEY
REGIONAL APPARENT FREE PRODUCT TRENDS

	EFR Event Date	25-Sep-01	25-Oct-01	20-Nov-01	31-Dec-01	29-Jan-02	20-Feb-02	26-Mar-02	10-Apr-02	6-May-02	13-Jun-02	15-Jul-02	9-Aug-02	13-Sep-02	8-Oct-02	7-Nov-02
Western Region of Free Product	EFR-1	1.29	1.60	1.51	1.57	2.07	1.93	0.90	0.77	1.60	1.92	0.65	0.81	1.14	0.83	1.62
	EFR-2	1.22	1.14	1.15	1.19	1.37	1.33	1.40	1.20	2.39	2.15	1.33	1.02	0.09	1.27	2.86
	EFR-3	0.51	0.81	0.76	0.80	0.70	0.78	1.05	1.09	1.28	1.53	0.25	0.89	0.81	0.91	0.98
	EFR-17	0.34	0.85	0.97	1.57	1.43	2.23	1.90	0.77	0.75	0.60	0.43	0.67	1.50	0.71	1.10
	EFR-18	0.41	0.69	0.75	1.22	1.90	1.00	1.07	0.81	0.80	0.05	0.32	0.02	1.56	0.21	0.04
	EFR-20	0.24	0.73	1.10	1.29	1.78	0.46	1.24	1.24	1.74	2.03	1.62	1.58	1.85	1.47	1.77
	EFR-21	1.87	1.58	1.38	1.54	1.51	1.50	2.25	1.65	2.11	2.51	1.98	1.46	0.02	0.44	0.00
	EFR-28	1.05	1.50	1.38	1.51	1.67	1.86	0.21	0.63	0.29	0.35	1.08	0.38	1.22	0.22	0.14
	Total Free Product (ft)	6.93	8.90	9.00	10.69	12.43	11.09	10.02	8.16	10.96	11.14	7.66	6.83	8.19	6.06	8.51
	Total Free Product (gal)	4.50	5.79	5.85	6.95	8.08	7.21	6.51	5.30	7.12	7.24	4.98	4.44	5.32	3.94	5.53
West-Central Region of Free Product	EFR-4	0.11	0.57	0.68	0.54	0.26	1.13	0.37	0.89	0.98	1.07	1.00	0.26	0.11	0.43	2.86
	EFR-5	2.25	2.55	2.10	2.67	2.66	2.68	3.50	3.07	3.25	2.17	2.01	2.00	2.05	1.67	1.68
	EFR-6	0.37	1.13	1.56	1.23	0.71	2.21	2.30	0.77	0.43	0.27	0.54	0.45	0.62	0.38	3.14
	EFR-7	0.00	0.05	0.08	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.01	0.00	0.00
	EFR-19	0.54	2.15	2.36	2.38	2.26	3.22	2.90	2.69	1.34	0.95	1.82	1.55	2.55	0.35	1.30
	EFR-22	0.57	1.22	1.53	1.93	0.98	0.63	0.80	0.39	0.16	0.19	0.32	0.11	0.22	1.39	1.09
	EFR-23	0.07	0.85	2.67	0.75	0.98	1.13	0.01	0.70	0.57	0.52	0.60	0.38	0.77	0.53	0.81
	EFR-24	0.14	0.35	0.38	0.34	0.47	2.65	0.60	1.35	0.33	0.24	1.18	0.19	0.13	0.16	0.01
	EFR-25	0.09	0.43	0.63	0.64	0.82	0.99	0.75	1.21	0.33	0.29	0.36	0.25	0.35	0.28	0.33
	EFR-26	1.20	1.45	1.22	1.13	1.14	0.87	1.55	1.67	1.83	1.92	2.42	1.69	1.24	0.59	0.28
	EFR-27	0.00	0.52	0.49	0.13	0.53	0.32	0.00	0.00	0.38	1.31	1.10	0.04	1.43	2.53	1.77
	Total Free Product (ft)	5.34	11.27	13.70	11.98	10.81	15.83	12.78	12.74	9.60	8.93	11.35	7.03	9.48	8.31	13.27
	Total Free Product (gal)	3.47	7.33	8.91	7.79	7.03	10.29	8.31	8.28	6.24	5.80	7.38	4.57	6.16	5.40	8.63
East-Central Region of Free Product	EFR-8	0.00	0.18	0.16	0.22	0.01	0.04	0.07	0.10	0.05	0.07	0.00	0.14	0.28	0.18	0.10
	EFR-9	0.39	0.56	0.85	0.32	0.29	0.45	0.32	0.32	0.28	0.11	0.35	0.30	0.19	0.32	0.33
	EFR-10	2.62	2.70	2.61	2.91	2.02	3.32	3.48	2.77	2.64	3.39	3.16	2.31	2.83	1.95	2.70
	EFR-11	3.86	3.22	2.44	2.90	2.89	2.58	2.12	0.99	0.87	1.01	1.54	2.08	3.91	2.06	1.88
	EFR-12	0.00	0.00	0.34	0.21	0.26	0.11	0.10	0.15	0.00	0.06	0.30	0.06	0.33	0.25	0.24
	EFR-13	0.38	0.46	0.88	0.44	0.84	0.44	0.87	0.68	1.71	1.11	0.55	0.26	0.61	0.30	0.55
	Total Free Product (ft)	7.25	7.12	7.28	7.00	6.31	6.94	6.96	5.01	5.55	5.75	5.90	5.15	8.15	5.06	5.80
	Total Free Product (gal)	4.71	4.63	4.73	4.55	4.10	4.51	4.52	3.26	3.61	3.74	3.84	3.35	5.30	3.29	3.77
Eastern Region of Free Product	EFR-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-15	0.00	0.00	0.03	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.20	0.00	0.09	0.00	0.28
	EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (ft)	0.00	0.00	0.03	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.20	0.00	0.09	0.00	0.28
	Total Free Product (gal)	0.00	0.00	0.02	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.13	0.00	0.06	0.00	0.18
TOTAL APPARENT FREE PRODUCT VOLUME (GAL)		12.69	17.74	19.51	19.29	19.21	22.01	19.38	16.84	16.97	16.78	16.32	12.36	16.84	12.63	18.11

TABLE 2
L.E. CARPENTER - WHARTON, NEW JERSEY
REGIONAL APPARENT FREE PRODUCT TRENDS

	EFR Event Date	17-Dec-02	11-Mar-03	17-Mar-03	24-Mar-03	10-Apr-03	8-May-03	10-Jun-03
			3 EFR events in March of 1Q03 due to snow and ice cover in Jan and Feb 03					
Western Region of Free Product	EFR-1	1.33	0.68	0.22	0.41	0.45	0.19	0.48
	EFR-2	3.07	1.96	0.94	1.02	1.40	1.54	2.34
	EFR-3	0.88	0.70	0.30	0.20	0.07	0.14	0.05
	EFR-17	1.07	0.18	0.03	0.00	0.00	0.39	0.51
	EFR-18	0.84	1.32	1.31	0.04	0.00	0.66	0.01
	EFR-20	2.45	2.30	1.88	1.33	2.42	1.00	3.18
	EFR-21	0.00	0.01	2.43	1.95	1.45	2.44	2.39
	EFR-28	0.28	1.04	0.30	0.61	0.44	0.38	0.30
	Total Free Product (ft)	9.92	8.19	7.41	5.56	6.23	6.74	9.26
	Total Free Product (gal)	6.45	5.32	4.82	3.61	4.05	4.38	6.02
West-Central Region of Free Product	EFR-4	0.52	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-5	0.37	2.91	1.19	0.16	0.79	0.49	0.81
	EFR-6	1.63	0.27	0.29	0.27	0.39	0.14	0.43
	EFR-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-19	1.03	0.40	0.80	0.31	1.51	0.52	0.09
	EFR-22	0.76	2.60	0.54	0.00	0.00	0.00	0.00
	EFR-23	0.67	0.82	0.06	0.50	2.24	0.05	0.26
	EFR-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-25	0.69	0.14	0.09	0.05	0.21	0.32	0.00
	EFR-26	0.40	0.33	0.27	0.30	0.18	0.51	0.20
	EFR-27	3.10	2.49	0.00	0.00	0.00	0.00	0.00
	Total Free Product (ft)	9.17	9.96	3.24	1.59	5.32	2.03	1.79
	Total Free Product (gal)	5.96	6.47	2.11	1.03	3.46	1.32	1.16
East-Central Region of Free Product	EFR-8	0.25	0.37	0.27	0.23	0.33	0.05	0.11
	EFR-9	0.25	0.24	0.02	0.32	0.54	0.17	0.10
	EFR-10	2.76	2.45	0.84	0.28	0.84	0.79	1.33
	EFR-11	1.87	2.62	4.69	3.83	1.19	0.99	1.01
	EFR-12	0.64	0.56	0.49	0.52	0.45	0.13	0.24
	EFR-13	0.68	0.08	0.11	0.26	0.25	0.12	0.27
	Total Free Product (ft)	6.45	6.32	6.42	5.44	3.60	2.25	3.06
	Total Free Product (gal)	4.19	4.11	4.17	3.54	2.34	1.46	1.99
Eastern Region of Free Product	EFR-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	EFR-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (ft)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total Free Product (gal)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL APPARENT FREE PRODUCT VOLUME (GAL)		16.60	15.91	11.10	8.18	9.85	7.16	9.17



LEGEND

- SURFACE WATER FEATURE
- PROPERTY LINE
- FENCE
- 1 — APPARENT PRODUCT THICKNESS CONTOURS (FT)
- 0 — APPROXIMATE OUTER LIMIT OF FREE PRODUCT
- 0.00 — NO MEASURABLE PRODUCT
- 1.22 — PRODUCT THICKNESS MEASURED IN WELL (FT) (Measurements collected at monitoring wells and well points on June 2, 2003 by RMT, Inc.) (Measurements collected at EFR wells on June 10, 2003 by CEMCO)
- MW-13S — MONITORING WELL
- ABANDONED WELL
- RW-2 — RECOVERY WELL
- CW-3 — CAISSON WELLS
- WP-B7 — WELL POINTS WITH ELEVATION
- TREATMENT BUILDING
- 13 — ENHANCED FLUID RECOVERY WELL (EFR)

N

0 50' 100'

SCALE IN FEET

LE. CARPENTER
WHARTON, NEW JERSEY

APPARENT FREE PRODUCT THICKNESS CONTOURS FOR 2nd QUARTER 2003

DRAWN BY:	SJL	PROJECT NUMBER:	3868.35
CHECKED BY:	ES	FILE NUMBER:	38683573.DWG
APPROVED BY:	NC	DATE:	JULY 2003

RMT INC.
1143 HIGHLAND DRIVE, SUITE B
ANN ARBOR, MI. 48108-2237
PHONE: 734-971-7080
FAX: 734-971-9022

FIGURE 3

PLOT DATA
Drawing Name: J:\03868\35\38683573.dwg
Operator Name: lucidos
Scale: 1"=50'
Dwg Size: 129070 Bytes
Plot Date: July 2003
Plot Time: 1:31:41 PM
Attached Xref's: No xref's Attached.

2.3 Recovered Free Product Volume Estimations

After the completion of each EFR event, the total volume of extracted fluid was determined by gauging the 55-gallon vacuum head drum previously mentioned in Section 2.1 with an oil/water interface probe. The drum was allowed to stabilize for one hour prior to gauging to allow for separation of emulsified product resulting from aggressive recovery. Gauging was conducted on a level surface and recorded thickness was converted to volumes based on a conversion of 1.65 gallons per inch of fluid thickness in the 55-gallon drum. Recovered liquid free product volume was determined by subtracting the volume of water from the total fluid volume collected in the 55-gallon drum. Vapor phase product volume was estimated based on vacuum head airflow (in cfm) and vented contaminant concentrations (in ppm) obtained during extraction at each EFR well. The volume (combined liquid and vapor phase) of free product extracted during each month's EFR event is presented in Table 3.

The total extraction volume (measurable free product, product vapor, and groundwater) during second quarter 2003 was 80.51 gallons. Approximately 71.84 gallons of that amount were measurable free product as determined by vacuum head drum gauging and vapor phase volume calculations, and 8.67 gallons were groundwater. Since initiation in December 1997, site EFR activities have removed approximately 14,960 gallons of total fluids, of which, approximately 3,792 gallons were measurable free phase product. Based on historical modeling data (Ref. Section 2.2), approximately 4,208 to 9,208 gallons of recoverable free product remains in the ground. Tables 1, 2, and 3 contain a complete breakdown of EFR related information.

TABLE 3
L. E. CARPENTER - WHARTON, NEW JERSEY

MONTHLY EFR WELL GAUGING LOG

EFR #65 DATE **10-Apr-03**

WELL ID	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (ft)	PRODUCT TICKNESS (ft)
EFR-1	8.66	9.11	0.45
EFR-2	9.16	10.56	1.40
EFR-3	9.11	9.18	0.07
EFR-4	10.25	10.25	0.00
EFR-5	9.05	9.84	0.79
EFR-6	8.37	8.76	0.39
EFR-7	4.71	4.71	0.00
EFR-8	4.64	4.97	0.33
EFR-9	4.89	5.43	0.54
EFR-10	5.72	6.56	0.84
EFR-11	5.18	6.37	1.19
EFR-12	4.26	4.71	0.45
EFR-13	3.89	4.14	0.25
EFR-14	3.74	3.74	0.00
EFR-15	3.01	3.01	0.00
EFR-16	4.09	4.09	0.00
EFR-17	7.16	7.16	0.00
EFR-18	8.92	8.92	0.00
EFR-19	10.35	11.86	1.51
EFR-20	8.56	10.98	2.42
EFR-21	7.57	9.02	1.45
EFR-22	10.73	10.73	0.00
EFR-23	7.08	9.32	2.24
EFR-24	10.31	10.31	0.00
EFR-25	10	10.21	0.21
EFR-26	11.85	12.03	0.18
EFR-27	9.9	9.9	0.00
EFR-28	9.04	9.48	0.44

Total Volume Of Free Standing Product (gal) 9.85

CEMCO FIELD TECHNICIAN: Gary Pizzuti

TABLE 3
L. E. CARPENTER - WHARTON, NEW JERSEY

MONTHLY EFR
VAPOR AND LIQUID PHASE VOLUMETRIC CALCULATION LOG

EFR #65 **10-Apr-03**

WELL ID	EXTRACTION TIME		VAPOR PHASE CONCENTRATION		SYSTEM RECOVERY DATA			
	TOTAL TIME (min)	TOTAL TIME (hrs)	PPM	LEL (%)	VACUUM In Hg	CFM	lbs/hr	Total lbs
EFR-1	3.5	0.0583	656	10	17	100	3.03	0.1769
EFR-2	8.0	0.1333	2,230	34	17	100	10.31	1.3747
EFR-3	1.0	0.0167	1,312	20	17	100	6.06	0.1011
EFR-4	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-5	4.0	0.0667	394	6	17	100	1.82	0.1213
EFR-6	2.0	0.0333	0	0	17	100	0.00	0.0000
EFR-7	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-8	2.0	0.0333	0	0	17	100	0.00	0.0000
EFR-9	3.5	0.0583	0	0	17	100	0.00	0.0000
EFR-10	4.5	0.0750	394	6	17	100	1.82	0.1365
EFR-11	6.0	0.1000	1,181	18	17	100	5.46	0.5458
EFR-12	3.0	0.0500	0	0	17	100	0.00	0.0000
EFR-13	3.0	0.0500	0	0	17	100	0.00	0.0000
EFR-14	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-15	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-16	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-17	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-18	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-19	5.0	0.0833	262	4	17	100	1.21	0.1011
EFR-20	8.0	0.1333	3,149	48	17	100	14.56	1.9408
EFR-21	7.0	0.1167	4,067	62	17	100	18.80	2.1935
EFR-22	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-23	12.0	0.2000	0	0	17	100	0.00	0.0000
EFR-24	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-25	1.0	0.0167	0	0	17	100	0.00	0.0000
EFR-26	2.0	0.0333	2,230	34	17	100	10.31	0.3437
EFR-27	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-28	3.0	0.0500	1,312	20	17	100	6.06	0.3032
TOTAL EFR TIME UNIT		1.3083	AVG. ppm	781.24			TOTAL LBS	7.3386
							TOTAL VAPOR PHASE VOLUME (GAL)	0.9398

NOTE: PPM = (% LEL on Meter) x (LEL of Product Mixture) x (1,000,000)
(1) Weighted LEL for analyte mixture @ 0.656% (based on DEHP, Ethylbenzene & Total Xylene concentrations in Roy F. Weston product sampling conducted on Feb 27, 1995 @ MW-1R; MW-11S; MW-6R; WP-B5 & WP-B4)
Analyte LELs: DEHP @ 0.3% ; Ethylbenzene @ 1%; Xylenes @ 1.1%

Where:

PPM_v =	Parts per Million by Volume		
Flow =	Cubic feet per minute (CFM)	100	
Molar Mass (MM) =	Molecular Weight (lb/lb-mole) =	292	(2)
IGC =	Ideal Gas Constant (359 ft^3/lb-mole) =	379	
LEL =	Free Product Mixture =	0.656	(1)
SG =	Specific Gravity =	0.9363	(3)

NOTE: (2) Avg. Molar Mass @ 292 (based on DEHP, Ethylbenzene & Total Xylene concentrations in Roy F. Weston product sampling conducted on Feb 27, 1995 @ MW-1R; MW-11S; MW-6R; WP-B5 & WP-B4)
Individual Analyte Molar Mass: DEHP @ 390.54; Ethylbenzene @ 106.2; Total Xylenes @ 106.2
(3) Average specific gravity of 0.9363 (RMT, Inc. product sampling in October 1999 @ MW-1R; EFR-11 & WP-A8)

$$\text{Pounds/Hr (lbs/hr)} = (ppm_v \times (60\ min/hr) \times (CFM) \times (MM)) / ((1 \times 10^6) \times (359\ ft^3/lb\text{-}mole))$$

Free Product & Groundwater Gauging (55-Gal Drum)	
Product Thickness (in)	16.00
Groundwater Thickness (in)	2.50
Conversion @ 1.65 gal/inch	1.65
Total Product Volume (gal)	26.40
Total Groundwater Volume (gal)	4.13
Ratio Groundwater to Free Product (gal/gal)	0.16

		Y (gal)
Total Recovered Groundwater Volume (gal)		4.13
Total Recovered Free Product Volume (gal)		26.40
Total Recovered Fluids Volume (gal)		30.53
TOTAL EFR PRODUCT VOLUME		27.34 GAL

Date	10-Apr-03
Project #	3868.36
Subcontractor	CEMCO
Vac Head Utilized	NORTECH Corp. 551B

CEMCO Field Technician: Gary Pizzuti

RMT Project Manager: Nick Clevett

TABLE 3
L. E. CARPENTER - WHARTON, NEW JERSEY

MONTHLY EFR WELL GAUGING LOG

EFR #66 DATE 8-May-03

WELL ID	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (ft)	PRODUCT TICKNESS (ft)
EFR-1	9.65	9.84	0.19
EFR-2	10.13	11.67	1.54
EFR-3	10.11	10.25	0.14
EFR-4	11.58	11.58	0.00
EFR-5	10.02	10.51	0.49
EFR-6	9.31	9.45	0.14
EFR-7	6.13	6.13	0.00
EFR-8	5.53	5.58	0.05
EFR-9	5.86	6.03	0.17
EFR-10	6.63	7.42	0.79
EFR-11	6.14	7.13	0.99
EFR-12	5.1	5.23	0.13
EFR-13	4.74	4.86	0.12
EFR-14	4.5	4.5	0.00
EFR-15	3.86	3.86	0.00
EFR-16	4.78	4.78	0.00
EFR-17	8.3	8.69	0.39
EFR-18	8.95	9.61	0.66
EFR-19	11.86	12.38	0.52
EFR-20	9.55	10.55	1.00
EFR-21	8.46	10.9	2.44
EFR-22	11.93	11.93	0.00
EFR-23	8.24	8.29	0.05
EFR-24	11.31	11.31	0.00
EFR-25	10.99	11.31	0.32
EFR-26	12.78	13.29	0.51
EFR-27	11.18	11.18	0.00
EFR-28	10.06	10.44	0.38

Total Volume Of Free Standing Product (gal) 7.16

CEMCO FIELD TECHNICIAN: G. Pizzuti

TABLE 3
L. E. CARPENTER - WHARTON, NEW JERSEY

MONTHLY EFR
VAPOR AND LIQUID PHASE VOLUMETRIC CALCULATION LOG

EFR #66 **8-May-03**

WELL ID	EXTRACTION TIME		VAPOR PHASE CONCENTRATION		SYSTEM RECOVERY DATA			
	TOTAL TIME (min)	TOTAL TIME (hrs)	PPM	LEL (%)	VACUUM In Hg	CFM	lbs/hr	Total lbs
EFR-1	1.5	0.0250	1,378	21	17	100	6.37	0.1592
EFR-2	8.0	0.1333	2,296	35	17	100	10.61	1.4152
EFR-3	1.0	0.0167	459	7	17	100	2.12	0.0354
EFR-4	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-5	2.5	0.0417	682	10	17	100	3.15	0.1314
EFR-6	1.0	0.0167	479	7	17	100	2.21	0.0369
EFR-7	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-8	0.5	0.0083	1,968	30	17	100	9.10	0.0758
EFR-9	1.0	0.0167	827	13	17	100	3.82	0.0637
EFR-10	5.0	0.0833	656	10	17	100	3.03	0.2527
EFR-11	5.0	0.0833	407	6	17	100	1.88	0.1567
EFR-12	2.0	0.0333	1,050	16	17	100	4.85	0.1617
EFR-13	1.0	0.0167	131	2	17	100	0.61	0.0101
EFR-14	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-15	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-16	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-17	2.5	0.0417	151	2	17	100	0.70	0.0291
EFR-18	3.0	0.0500	348	5	17	100	1.61	0.0804
EFR-19	3.0	0.0500	394	6	17	100	1.82	0.0910
EFR-20	5.0	0.0833	2,657	41	17	100	12.28	1.0235
EFR-21	12.0	0.2000	2,860	44	17	100	13.22	2.6443
EFR-22	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-23	1.0	0.0167	361	6	17	100	1.67	0.0278
EFR-24	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-25	3.0	0.0500	643	10	17	100	2.97	0.1486
EFR-26	2.5	0.0417	1,706	26	17	100	7.88	0.3285
EFR-27	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-28	2.5	0.0417	872	13	17	100	4.03	0.1681
Total EFR Time (hrs)		1.0500	AVG ppm	876.06			TOTAL lbs	7.0399
							TOTAL VAPOR PHASE VOLUME (Gal)	0.9015

NOTE: PPM = (% LEL on Meter) x (LEL of Product Mixture) x (1,000,000)
(1) Weighted LEL for analyte mixture @ 0.656% (based on DEHP, Ethylbenzene & Total Xylene concentrations in Roy F. Weston product sampling conducted on Feb 27, 1995 @ MW-1R; MW-11S; MW-6R; WP-B5 & WP-B4)
Analyte LELs: DEHP @ 0.3% ; Ethylbenzene @ 1%; Xylenes @ 1.1%

Where:

ppm_v =	Parts per Million by Volume		
Flow =	Cubic feet per minute (CFM)	100	
Molar Mass (MM) =	Molecular Weight (lb/lb-mole) =	292	(2)
IGC =	Ideal Gas Constant (359 ft^3/lb-mole) =	379	
LEL =	Free Product Mixture =	0.656	(1)
SG =	Specific Gravity =	0.9363	(3)

NOTE: (2) Avg. Molar Mass @ 292 (based on DEHP, Ethylbenzene & Total Xylene concentrations in Roy F. Weston product sampling conducted on Feb 27, 1995 @ MW-1R; MW-11S; MW-6R; WP-B5 & WP-B4)
Individual Analyte Molar Mass: DEHP @ 390.54; Ethylbenzene @ 106.2; Total Xylenes @ 106.2
(3) Average specific gravity of 0.9363 (RMT, Inc. product sampling in October 1999 @ MW-1R; EFR-11 & WP-A8)

$$\text{Pounds/Hr (lbs/hr)} = (ppm_v \times (60\ min/hr) \times (CFM) \times (MM)) / ((1 \times 10^6) \times (359\ ft^3/lb\text{-}mole))$$

Free Product & Groundwater Gauging (55-Gal Drum)	
[illegible]	
Product Thickness (in)	11.00
Groundwater Thickness (in)	0.75
Conversion @ 1.65 gal/inch	1.65
Total Product Volume (gal)	18.15
Total Groundwater Volume (gal)	1.24
Ratio Groundwater to Free Product (gal/gal)	0.07

		Y (gal)
Total Recovered Groundwater Volume (gal)		1.24
Total Recovered Free Product Volume (gal)		18.15
Total Recovered Fluids Volume (gal)		19.39
TOTAL EFR PRODUCT VOLUME		19.05 GAL

Date	8-May-03
Project #	3868.36
Subcontractor	CEMCO
Vac Head Utilized	NORTECH Corp. 551B

CEMCO Field Technician: Gary Pizzuti

RMT Project Manager: Nick Clevett

TABLE 3
L. E. CARPENTER - WHARTON, NEW JERSEY

MONTHLY EFR WELL GAUGING LOG

EFR #67 DATE 10-Jun-03

WELL ID	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (ft)	PRODUCT TICKNESS (ft)
EFR-1	8.47	8.95	0.48
EFR-2	8.99	11.33	2.34
EFR-3	9.02	9.07	0.05
EFR-4	9.83	9.83	0.00
EFR-5	8.98	9.79	0.81
EFR-6	8.28	8.71	0.43
EFR-7	4.71	4.71	0.00
EFR-8	4.68	4.79	0.11
EFR-9	4.91	5.01	0.10
EFR-10	5.68	7.01	1.33
EFR-11	5.02	6.03	1.01
EFR-12	4.23	4.47	0.24
EFR-13	3.87	4.14	0.27
EFR-14	3.68	3.68	0.00
EFR-15	3.07	3.07	0.00
EFR-16	4.11	4.11	0.00
EFR-17	7	7.51	0.51
EFR-18	7.86	7.87	0.01
EFR-19	10.55	10.64	0.09
EFR-20	8.41	11.59	3.18
EFR-21	7.38	9.77	2.39
EFR-22	10.28	10.28	0.00
EFR-23	7.06	7.32	0.26
EFR-24	10.16	10.16	0.00
EFR-25	9.78	9.78	0.00
EFR-26	11.76	11.96	0.20
EFR-27	9.49	9.49	0.00
EFR-28	8.93	9.23	0.30

Total Volume Of Free Standing Product (gal) 9.17

CEMCO FIELD TECHNICIAN: G. Pizzuti

TABLE 3
L. E. CARPENTER - WHARTON, NEW JERSEY

MONTHLY EFR
VAPOR AND LIQUID PHASE VOLUMETRIC CALCULATION LOG

EFR #67 **10-Jun-03**

WELL ID	EXTRACTION TIME		VAPOR PHASE CONCENTRATION		SYSTEM RECOVERY DATA			
	TOTAL TIME (min)	TOTAL TIME (hrs)	PPM	LEL (%)	VACUUM In Hg	CFM	lbs/hr	Total lbs
EFR-1	2.5	0.0417	2,480	38	17	100	11.46	0.4776
EFR-2	13.0	0.2167	1,332	20	17	100	6.16	1.3338
EFR-3	0.5	0.0083	3,674	56	17	100	16.98	0.1415
EFR-4	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-5	4.0	0.0667	6,429	98	17	100	29.72	1.9812
EFR-6	2.0	0.0333	4,461	68	17	100	20.62	0.6874
EFR-7	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-8	2.0	0.0333	5,117	78	17	100	23.65	0.7884
EFR-9	1.0	0.0167	1,096	17	17	100	5.06	0.0844
EFR-10	8.0	0.1333	971	15	17	100	4.49	0.5984
EFR-11	5.0	0.0833	1,279	20	17	100	5.91	0.4928
EFR-12	1.0	0.0167	4,526	69	17	100	20.92	0.3487
EFR-13	2.0	0.0333	5,707	87	17	100	26.38	0.8794
EFR-14	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-15	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-16	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-17	2.5	0.0417	413	6	17	100	1.91	0.0796
EFR-18	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-19	2.0	0.0333	5,773	88	17	100	26.69	0.8895
EFR-20	15.0	0.2500	4,185	64	17	100	19.35	4.8368
EFR-21	12.0	0.2000	3,995	61	17	100	18.47	3.6936
EFR-22	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-23	1.0	0.0167	4,854	74	17	100	22.44	0.3740
EFR-24	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-25	0.0	0.0000	0	0	17	100	0.00	0.0000
EFR-26	1.0	0.0167	4,395	67	17	100	20.32	0.3386
EFR-27	0.0	0.0000	2,080	32	17	100	9.61	0.0000
EFR-28	2.0	0.0333	2,080	32	17	100	9.61	0.3204
Total EFR Time (hrs)		1.2750	AVG ppm	2647.26			TOTAL lbs:	18.3463
							TOTAL VAPOR PHASE VOLUME (GAL)	2.3495

NOTE: PPM = (% LEL on Meter) x (LEL of Product Mixture) x (1,000,000)
(1) Weighted LEL for analyte mixture @ 0.656% (based on DEHP, Ethylbenzene & Total Xylene concentrations in Roy F. Weston product sampling conducted on Feb 27, 1995 @ MW-1R; MW-11S; MW-6R; WP-B5 & WP-B4)
Analyte LELs: DEHP @ 0.3% ; Ethylbenzene @ 1%; Xylenes @ 1.1%

Where:

PPM_v =	Parts per Million by Volume		
Flow =	Cubic feet per minute (CFM)	100	
Molar Mass (MM) =	Molecular Weight (lb/lb-mole) =	292	(2)
IGC =	Ideal Gas Constant (359 ft^3/lb-mole) =	379	
LEL =	Free Product Mixture =	0.656	(1)
SG =	Specific Gravity =	0.9363	(3)

NOTE: (2) Avg. Molar Mass @ 292 (based on DEHP, Ethylbenzene & Total Xylene concentrations in Roy F. Weston product sampling conducted on Feb 27, 1995 @ MW-1R; MW-11S; MW-6R; WP-B5 & WP-B4)
Individual Analyte Molar Mass: DEHP @ 390.54; Ethylbenzene @ 106.2; Total Xylenes @ 106.2
(3) Average specific gravity of 0.9363 (RMT, Inc. product sampling in October 1999 @ MW-1R; EFR-11 & WP-A8)

$$\text{Pounds/Hr (lbs/hr)} = (ppm_v \times (60\ min/hr) \times (CFM) \times (MM)) / ((1 \times 10^6) \times (359\ ft^3/lb\text{-}mole))$$

Free Product & Groundwater Gauging (55-Gal Drum)	
Product Thickness (in)	14.00
Groundwater Thickness (in)	2.00
Conversion @ 1.65 gal/inch	1.65
Total Product Volume (gal)	23.10
Total Groundwater Volume (gal)	3.30
Ratio Groundwater to Free Product (gal/gal)	0.14

		Y (gal)
Total Recovered Groundwater Volume (gal)		3.30
Total Recovered Free Product Volume (gal)		23.10
Total Recovered Fluids Volume (gal)		26.40
TOTAL EFR PRODUCT VOLUME		25.45 GAL

Date	10-Jun-03
Project #	3868.36
Subcontractor	CEMCO
Vac Head Utilized	NORTECH Corp. 551B

CEMCO Field Technician: Gary Pizzuti

RMT Project Manager: Nick Clevett

Section 3
Quarterly Groundwater Monitoring

RMT conducted groundwater monitoring activities in the second quarter of 2003 on June 2nd, 3rd and 4th. In the past, we performed groundwater monitoring in accordance with the procedures contained in the NJDEP's *Field Sampling Procedures Manual* dated May 1992. However, in second quarter 2002 we initialed groundwater monitoring using the low-flow methodology outlined in our May 2001 Workplan for Supplemental Investigation of Natural Attenuation of Dissolved Constituents in Groundwater (MNA workplan). The MNA workplan was approved by NJDEP on January 24, 2002. Although the sampling was performed using low-flow methods, the remaining parts of the MNA workplan have not yet been initiated. A QED bladder pump system with disposable bladders (as described in the approved MNA workplan Quality Assurance Project Plan (QAPP)) was used as dedicated monitoring equipment to collect groundwater samples at LEC. Locations of the quarterly monitoring wells are shown on Figure 2.

Monitoring wells MW-4, MW-11D(R), MW-14S, MW-14I, MW-15S, MW-15I, MW-17S, MW-21, MW-22(R), and MW-25(R) were sampled utilizing the low-flow methodology outlined in the QAPP, presented in Appendix A of the approved MNA workplan. Specifically, RMT used a QED bladder pump to remove groundwater at a low rate (average of 0.3 L/minute). Before sampling the wells we measured field parameters until they stabilized to obtain a representative sample of the formation water for laboratory testing. Monitoring well sampling data for the second quarter of 2003 is presented in Appendix C. Once the field parameters in each well stabilized or following adequate purging if stabilization could not be achieved, samples were collected from the Teflon-lined polyethylene tubing of the bladder pump. RMT submitted the samples to Lancaster Laboratories, Inc. (Lancaster), located in Lancaster, Pennsylvania for benzene, toluene, ethylbenzene, xylenes (BTEX) and bis (2-ethylhexyl) phthalate (DEHP) analysis per the current groundwater monitoring protocol outlined in Table 4.

A sample duplicate, a field blank, a trip blank and a rinsate blank were collected to satisfy Quality Assurance/Quality Control (QA/QC) requirements. A summary of the quarterly groundwater monitoring QA/QC requirements for the LEC site is also outlined in Table 4. The trip blank was prepared by the laboratory and remained with the sample containers until the samples were returned to the laboratory. The duplicate was collected from monitoring well MW-15I (duplicate sample No. Dupe-01) and analyzed for BTEX and DEHP. The rinsate blank

was collected by circulating triple distilled water through the cleaned bladder pump assembly to verify that the decontamination procedures were adequate. Any sampling equipment used at each well was decontaminated prior to each use utilizing an environmental detergent (Alconox) and clean water wash followed by a distilled water rinse. The field (atmosphere) blank was collected during the sampling event by opening a bottle of unpreserved de-ionized water provided by the laboratory, leaving the bottle open during the sampling of one well, and pouring that water directly into clean sample bottles with added preservative also provided by the laboratory.

TABLE 4
L.E. CARPENTER - WHARTON, NEW JERSEY
QUARTERLY MONITORING PROTOCOL

Monitoring Well	Analytical Parameters	Rational	Comments
MW-14S	BTEX(1) DEHP(1)	Analytical results will identify the migration of the dissolved groundwater plume in the Shallow Aquifer Zone downgradient of the site (Wharton Enterprise property)	Monitoring Well added to quarterly sampling protocol beginning 1st Quarter 2002 the further assess groundwater quality and flow within the Wharton Enterprise property.
MW-14I	BTEX(1) DEHP(1)	Analytical results will identify the migration of the dissolved groundwater plume in the Intermediate Aquifer Zone downgradient of the site (Wharton Enterprise property)	Original Monitoring Well
MW-15S	BTEX(1) DEHP(1)	Analytical results will identify if the dissolved groundwater plume is migrating through this portion of the shallow aquifer zone (on the rail spur right-of-way)	Original Monitoring Well
MW-15I	BTEX(1) DEHP(1)	Analytical results will identify the migration of the dissolved groundwater plume through the Intermediate Aquifer Zone in the is area (on rail spur right-of-way)	Original Monitoring Well
MW-22R	BTEX(1) DEHP(1)	Analytical results will identify the movement of the dissolved groundwater plume in the shallow aquifer zone downgradient of the site (Wharton Enterprise property).	Original Monitoring Well. Beginning in 2nd quarter 2001, well will be analyzed for DEHP quarterly vs. semiannually
MW-25R	BTEX(1) DEHP(1)	Analytical results will identify the movement of the dissolved groundwater plume in the shallow aquifer zone downgradient of the site. East of MW-22R (Wharton	DEHP sampling required quarterly as opposed to semi annually per Nov 23, 1998 NJDEP Letter.
MW-17S	BTEX(1) DEHP(1)	Analytical results from this well will also identify "background" conditions at the site in the shallow aquifer	Original Monitoring Well
MW-4	BTEX(1) DEHP(1)	Analytical results from this well will also identify "background" conditions at the site in the shallow aquifer zone (south portion of subject site, bordering on the	Original Monitoring Well.
MW-11D(R)	DEHP(1)	Analytical results from this well identify potential contamination of deep aquifer. This well lies in the center of the free product plume.	New well added to monitoring protocol as of May 21, 1999 NJDEP Letter (review of 1st quarter 1999 monitoring report). Well exhibited DEHP contamination potentially as the result of draw down during well installation. Well will be sampled for both monitoring program parameters (BTEX & DEHP) per NJDEP letter dated Aug 17, 1999. As of 4th Quarter 2000 (1 year of BTEX and DEHP sampling), approval was requested from NJDEP and USEPA to remove this well from the quarterly sampling program. NJDEP response letter dated April 5, 2001 following review of the 4th Quarter 2000 monitoring report requested that MW-11D(R) be sampled quarterly for DEHP ONLY.
MW-21	BTEX(1) DEHP(1)	Analytical results from this well will also identify "background" conditions at the site in the shallow aquifer zone. Additionally, data from this well is used to track the potential migratory trend from MW-25 (Eastern most	New well added to monitoring protocol as of Nov 23, 1998 NJDEP Letter.

NOTES
(1) Parameter analyzed every quarter
(2) Low flow sampling initiated 1st Quarter 2002 [Ref. Workplan for Supplemental Investigation of Natural Attenuation of Dissolved Constituents in Groundwater (RMT, May 2001]
(3) Beginning 1st Quarter 2002, both BTEX and DEHP will be analyzed every quarter

S: Shallow Hydrogeologic Unit
I: Intermediate Hydrogeologic
D: Deep Hydrogeologic Unit
R: Replacement well

QA/QC PROTOCOL
QA/QC procedures outlined in the Quality Assurance Project Plan (QAPP) included as Appendix A in the report entitled Workplan for Supplemental Investigation of Natural Attenuation of Dissolved Constituents in Groundwater (RMT, May 2001), and amended in the October 23, 2001 responses to agency comments regarding the "Workplan", will be followed during each sampling event.

Field Blank : BTEX & DEHP - USE TRIPLE DISTILLED WATER
Trip Blank: BTEX & DEHP - USE TRIPLE DISTILLED WATER
Rinsate Blank: BTEX & DEHP
Duplicate Sample: BTEX & DEHP

FIELD ANALYSIS
All quarterly monitoring wells will be field tested for pH, temperature, specific conductivity, & turbidity

A comparison of the results of the chemical analyses to New Jersey Class IIa Groundwater Quality Standards (NJGWQS) is outlined in Table 5. The presence of BTEX and/or DEHP was not detected at concentrations above NJGWQS in samples collected from MW-11D(R), MW-14S, MW-14I, MW-15S, MW-15I, MW-17S, MW-21, and MW-25(R). At MW-4, DEHP was detected at a concentration of 72 μg/L, and at MW-22(R), total xylenes and DEHP were detected at concentrations of 2,600 μg/L and 170 μg/L respectively. The concentrations detected at each of these two monitoring wells exceed the NJGWQS for DEHP and total xylenes of 30 μg/L and 40 μg/L respectively.

Even though contaminant concentrations (specifically total xylenes and DEHP) at MW-22(R) have consistently exceeded NJGWQS, contaminant concentrations at downgradient monitoring location MW-14S have been non-detect. In addition, contaminant concentrations at monitoring location MW-25(R) (also located downgradient from MW-22R at certain times of the year) have not exceeded NJGWQS since second quarter 1997, and contaminant concentration further downgradient at MW-21 have never exceeded NJGWQS since sampling began at this location in first quarter 1999.

It is important to note again that there is no discernable trend of DEHP concentrations in MW-11D(R) when the data are viewed in total from 1999 through 2003 (Table 5; Appendix D). In addition, as we have described in previous reports, DEHP has been problematic in terms of laboratory analytical results because it is ubiquitous in the environment, and it is also a common laboratory contaminant. Because DEHP has often been found in laboratory blanks, because of past difficulties with field decontamination of sampling equipment, and because of the very strong upward vertical hydraulic gradient (Table 6), LEC has always maintained that sporadic past DEHP detections in MW-11D(R) have been false positives. LEC has performed a variety of tasks in order to eliminate or minimize production of false positive data. The first steps we took were to institute more rigid field decontamination procedures in order to minimize potential field cross-contamination, as well as changing to in-field use of triple-distilled decontamination water. This was followed by initiation of low-flow sampling methodology (March 2002) in order to minimize collection of particulate matter with the groundwater samples.

Despite these actions, laboratory cross-contamination of DEHP still proved to be a concern in monitoring events through fourth quarter of 2002. As a result RMT evaluated several laboratories in terms of their in-house program to minimize DEHP as a common lab contaminant. As was mentioned in the fourth quarter 2002 monitoring report, beginning with first quarter 2003 Lancaster Laboratories, Inc., a New Jersey certified laboratory, performed all laboratory analyses. As shown in the second quarter 2003 analytical results provided by Lancaster, DEHP was not detected above the method detection limit (MDL) of 1.0 μg/L in

either the laboratory blanks nor in any of the Quality Assurance/Quality Control (QA/QC) samples taken during this event.

LEC will continue to sample groundwater from MW-11D(R) and test it for the presence of DEHP.

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L.E. CARPENTER - Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (6)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-4	1995	1	22-Feb-95	< 0.3	26	< 0.3	32	25,000
		2	13-Jun-95	< 0.5	16	< 0.7	13	45,000
		3	13-Sep-95	< 1	9.7	< 1.4	8.7	NA
		4	7-Dec-95	< 0.1	8.8	< 0.14	11	17,000
	1996	1	7-Mar-96	< 0.5	24	< 0.7	47	NA
		2	14-Jun-96	< 0.1	7	< 0.14	7.8	9,300
		3	17-Sep-96	< 0.1	6.8	< 0.14	4.3	NA
		4	12-Dec-96	< 0.1	2.3	< 0.14	< 0.5	11,000
	1997	1	7-Apr-97	< 0.2	3.5	< 0.14	1.8	NA
		2	14-Aug-97	< 0.2	1.2	< 0.14	4.2	120
		3	3-Oct-97	< 0.2	2.2	< 0.14	12.6	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.4	< 0.28	< 0.28	< 1	NA
		2	4-Jun-98	< 0.2	1.0	< 0.14	1.4	710
		3	28-Aug-98	< 0.2	1.9	< 0.14	1.2	NA
		4	20-Nov-98	< 0.2	9.3	< 0.14	3.3	650
	1999	1	21-Jan-99	< 0.2	1.1	< 0.14	2.5	NA
		2	15-Apr-99	< 0.31	0.66	< 0.34	< 0.4	4,000
		2 duplicate	15-Apr-99	< 0.31	0.43	< 0.34	< 0.4	4,400
		3	22-Jul-99	< 0.31	3.10	< 0.34	2.9	NA
		4	25-Oct-99	< 0.31	0.51	< 0.34	< 0.4	4,000
	2000	1	17-Jan-00	< 0.31	0.54	< 0.34	1.6	NA
		2	13-Apr-00	< 0.25	0.31	< 0.27	< 0.25	480
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	0.41	310
		4 duplicate	30-Oct-00	< 0.25	< 0.27	< 0.27	0.33	NA
	2001	1	27-Feb-01	< 0.25	1	< 0.27	3.7	NA
DEHP found in lab blank		2	2-Apr-01	< 0.28	0.31	< 0.26	0.41	300
		3	24-Jul-01	< 0.28	0.52	< 0.26	2.5	NA
		4	26-Oct-01	< 0.28	0.33	< 0.26	0.77	3300
	2002	1	7-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	150
		2	21-May-02	< 0.22	< 0.18	< 0.24	< 0.2	1300
		2 duplicate	22-May-02	< 0.22	< 0.18	< 0.24	< 0.2	950
Dilution factor 5.0 for bis(2-ethylhexyl)phthalate		3	13-Aug-02	< 0.22	0.54	< 0.24	0.86	679
		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 8.6
	2003	1	20-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	46
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	72

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MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-11(DR) (2)(3)	1999	1	21-Jan-99	< 0.2	< 0.1	< 0.14	< 0.5	54
		1 duplicate	21-Jan-99	< 0.2	< 0.1	< 0.14	< 0.5	20
		2		NS	NS	NS	NS	NS
		3(3)	22-Jul-99	NA	NA	NA	NA	59
		3 duplicate	22-Jul-99	NA	NA	NA	NA	13
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.1
	2000	1	17-Jan-00	NA	NA	NA	NA	< 4.2
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
	Field ID: MW-11DD	2 duplicate	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	3.4
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	2
DEHP found in lab blank	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	0.8
DEHP found in lab blank	Field ID: MW-11DD	1 duplicate	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	0.9
DEHP found in lab blank		2	2-Apr-01	NA	NA	NA	NA	1.5
		3	24-Jul-01	NA	NA	NA	NA	< 0.4
		4	26-Oct-01	NA	NA	NA	NA	0.6
	2002	1	7-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	2.8
		2	21-May-02	< 0.22	< 0.18	< 0.24	< 0.2	26
		3	13-Aug-02	NA	NA	NA	NA	63
		4	20-Nov-02	NA	NA	NA	NA	B 0.2
	2003	1	20-Mar-03	NA	NA	NA	NA	< 1
		2	3-Jun-03	NA	NA	NA	NA	J 2

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MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS [6]				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-14S	2002	1	6-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	1.2
DEHP found in lab blank		2	21-May-02	< 0.22	< 0.18	< 0.24	< 0.2	0.7
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.3
		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.5
	2003	1	19-Mar-03	< 0.2	J 0.21	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1

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MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (a)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-14I	1995	1	22-Feb-95	< 0.3	0.4	< 0.3	1.2	140
		2	13-Jun-95	< 0.1	< 0.14	< 0.14	< 0.5	1.6
		3	13-Sep-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	< 0.5	2.6
	1996	1	7-Mar-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		2	14-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.3
		3	17-Sep-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	2.7
	1997	1	7-Apr-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	14-Aug-97	< 0.2	< 0.14	< 0.14	< 0.5	1.6
		3	3-Oct-97	1.2	22.1	< 0.7	176	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	4-Jun-98	< 0.2	0.34	< 0.14	2	24
		3	28-Aug-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4	20-Nov-98	< 0.2	< 0.14	< 0.14	< 0.5	< 1.2
	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.1
		3	22-Jul-99	< 0.31	< 0.38	< 0.34	< 0.4	NA
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.1
	2000	1	17-Jan-00	< 0.31	< 0.38	< 0.34	< 0.4	NA
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	2.4
DEHP found in lab blank		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	3.5
Field ID: MW-14Id		2 duplicate	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	NA
		3	24-Jul-01	< 0.28	< 0.26	< 0.26	< 0.25	NA
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	2.2
	2002	1	6-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	3.4
DEHP found in lab blank		2	21-May-02	< 0.22	< 0.18	< 0.24	< 0.2	1.0
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.2
		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.3
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1

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MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-15S	1995	1	22-Feb-95	< 0.3	< 0.3	< 0.3	< 1	2.4
		2	13-Jun-95	< 0.1	< 0.14	< 0.14	< 0.5	< 1.1
		3	13-Sep-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	< 0.5	< 1.2
	1996	1	7-Mar-96	< 0.2	33	< 0.28	[illegible]	NA
		2	14-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.2
		3	17-Sep-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	12-Dec-96	< 0.1	0.21	< 0.14	1.7	< 1.2
	1997	1	7-Apr-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	14-Aug-97	< 0.2	< 0.14	< 0.14	< 0.5	1.2
		3	3-Oct-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.2	< 0.14	1.4	< 0.5	NA
		2	4-Jun-98	< 0.2	< 0.14	< 0.14	1.3	< 1.1
		3	28-Aug-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4	1-Dec-98	< 0.2	< 0.14	< 0.14	< 0.5	< 1.2
	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.2
		3	22-Jul-99	< 0.31	< 0.38	< 0.34	< 0.4	NA
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.1
	2000	1	17-Jan-00	< 0.31	< 0.38	< 0.34	< 0.4	NA
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	NA
DEHP found in lab blank		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	0.8
		3	24-Jul-01	< 0.28	< 0.26	< 0.26	< 0.25	NA
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	< 0.4
	2002	1	7-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	1.0
DEHP found in lab blank		2	20-May-02	< 0.22	< 0.18	< 0.24	< 0.2	0.7
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.2
		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.2
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	8

TABLE 5
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MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (6)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-15I	1995	1	22-Feb-95	< 0.3	< 0.3	< 0.3	< 1	250
		2	13-Jun-95	< 0.1	< 0.14	< 0.14	< 0.5	7.2
		3	13-Sep-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	< 0.5	2.8
	1996	1	7-Mar-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		2	14-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	1.2
		3	17-Sep-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	1.7
		4 duplicate	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	1.9
	1997	1	7-Apr-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	14-Aug-97	< 0.2	< 0.14	< 0.14	< 0.5	2.2
		3	3-Oct-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	4-Jun-98	< 0.2	< 0.14	< 0.14	< 0.5	1.9
		2 duplicate	4-Jun-98	< 0.2	< 0.14	< 0.14	< 0.5	3.8
		3	28-Aug-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4	20-Nov-98	< 0.2	< 0.14	< 0.14	0.53	11
		4 duplicate	20-Nov-98	< 0.2	0.2	< 0.14	0.8	9.8
	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	4.8
		3	22-Jul-99	< 0.31	< 0.38	< 0.34	< 0.4	NA
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	4.1
	2000	1	17-Jan-00	< 0.31	< 0.38	< 0.34	< 0.4	NA
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	2
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	2
	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	NA
DEHP found in lab blank		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	1.2
		3	24-Jul-01	< 0.28	< 0.26	< 0.26	< 0.25	NA
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	0.5
	2002	1	7-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	1.0
		2	21-May-02	< 0.22	< 0.18	< 0.24	< 0.2	0.5
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	< 0.2
		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.2
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1
		2 duplicate	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1

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MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS [5]				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	.5	5	2	30
MW-17S [4]	1995	1	24-Feb-95	< 0.3	0.6	0.3	1.9	11
		2	13-Jun-95	0.2	< 0.14	0.18	< 0.5	< 1.1
		3		NS	NS	NS	NS	NS
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	0.63	< 1.2
	1996	1		NS	NS	NS	NS	NS
		2	14-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.3
		3		NS	NS	NS	NS	NS
		4	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	1.5
	1997	1		NA	NA	NA	NA	NA
		2	14-Aug-97	< 0.2	< 0.14	< 0.14	< 0.5	< 1.3
		3		NS	NS	NS	NS	NS
		4		NS	NS	NS	NS	NS
	1998	1		NS	NS	NS	NS	NS
		2	4-Jun-98	< 0.2	< 0.14	< 0.14	1.2	6.1
		3		NS	NS	NS	NS	NS
		4	1-Dec-98	< 0.2	< 0.14	< 0.14	< 0.5	6
	1999	1		NS	NS	NS	NS	NS
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.1
		3		NS	NS	NS	NS	NS
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	40
	2000	1		NS	NS	NS	NS	NS
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		3		NS	NS	NS	NS	NS
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
DEHP found in lab blank	2001	2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	1.8
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	9.6
	2002	1	6-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	1.0
Sample designation DUP01		1 duplicate	6-Mar-01	< 0.28	< 0.26	< 0.26	< 0.25	1.6
DEHP found in lab blank		2	20-May-02	< 0.22	< 0.18	< 0.24	< 0.2	0.6
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.2
		4	21-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.2
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.9

TABLE 5
L.E. CARPENTER - Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (6)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-21 (1)	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	< 4.2
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.2
		3	22-Jul-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.3
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.1
	2000	1	17-Jan-00	< 0.31	< 0.38	< 0.34	< 0.4	6
		1 duplicate	17-Jan-00	NA	NA	NA	NA	< 4.2
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.24	< 2.1
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
DEHP found in lab blank	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	2.7
DEHP found in lab blank		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	0.9
		3	24-Jul-01	< 0.28	< 0.26	< 0.26	< 0.25	0.9
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	0.6
	2002	1	6-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	1.3
DEHP found in lab blank		2	22-May-02	< 0.22	< 0.18	< 0.24	< 0.2	1
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.3
Sample designation DUPE-001		3 duplicate	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.4
		4	19-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.3
	2003	1	18-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1

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L.E. CARPENTER - Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS [5]				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-22(R)	1995	1	21-Feb-95	< 0.3	57	< 0.3	260	6,500
		2	13-Jun-95	< 2.5	311	< 3.5	955	380
		3	13-Sep-95	< 2.5	171	< 3.5	893	NA
		4	7-Dec-95	< 2	123	< 2.8	494	320
	1996	1		NS	NS	NS	NS	NS
		2	8-Jul-96	< 2	258	< 2.8	941	70
		3	17-Sep-96	< 2.5	359	< 3.5	1,320	NA
		4	12-Dec-96	< 5	320	< 7	1,330	< 1.2
	1997	1		NS	NS	NS	NS	NS
		2	14-Aug-97	< 200	6,730	< 140	42,900	7,500
		3	3-Oct-97	< 400	11,400	< 280	66,000	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 200	4,070	348	20,600	NA
		2	4-Jun-98	< 40	2,250	< 28	11,300	5,800
		3	28-Aug-98	< 50	1880	< 35	10300	NA
		3 duplicate	28-Aug-98	< 50	2,510	< 35	11,000	NA
		4	20-Nov-98	< 40	1,650	< 28	7,230	1,100
	1999	1	21-Jan-99	< 0.4	18	< 0.28	84	NA
		2	15-Apr-99	< 31	1,600	< 34	7,600	670
		3	22-Jul-99	< 31	1,200	42	5,200	NA
		4	25-Oct-99	< 16	810	< 17	3,300	1200
		4 duplicate	25-Oct-99	< 31	840	< 34	3,400	1600
	2000	1	17-Jan-00	< 7.6	360	< 8.5	1,400	NA
Dilution Factor 50		2	13-Apr-00	< 12	520	< 14	3,600	92
Dilution Factor 200		3	31-Jul-00	< 50	1,000	< 54	4,800	NA
Dilution Factor 50 and 250 for DEHP and BTEX respectively		4	30-Oct-00	< 62	1,200	< 68	6,200	5,100
Dilution Factor 200	2001	1	27-Feb-01	< 50	1,900	< 54	9,000	NA
Dilution Factor 20 and 100 for DEHP and BTEX respectively. DEHP found in lab blank		2	2-Apr-01	< 26	910	< 26	4,100	2,400
Dilution factor 100 for BTEX, 50 for DEHP. DEHP detected in field blank		3	24-Jul-01	< 26	1,100	< 26	5,300	8,200
Dilution Factor 100		4	26-Oct-01	< 26	980	< 26	4,700	15,000
Dilution Factor 100		4 duplicate	26-Oct-01	< 26	1,000	< 26	4,900	NA
Dilution factors - 10 for BTEX, 2 for DEHP.	2002	1	6-Mar-02	< 2.6	140	< 2.6	420	18
Dilution factors - 50 for BTEX, 1 for DEHP		2	22-May-02	< 11	320	< 12	1,400	21
Dilution factors - 50 for BTEX, 1 for DEHP		3	13-Aug-02	< 11	180	< 12	1,400	13
Dilution factor - 25 for BTEX		4	20-Nov-02	< 5.5	310	< 6	1,000	B 6.3
Dilution factor - 5 for total xylenes and ethylbenzene	2003	1	18-Mar-03	< 1	540	< 0.2	2,000	54.0
Dilution factors - 5 for BTEX, 3 for DEHP		2	3-Jun-03	< 1	690	< 1	2,600	170.0

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L.E. CARPENTER - Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (6)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
MW-25(R)	1995	1		NS	NS	NS	NS	NS
		2	14-Jun-95	< 0.2	< 0.2	< 0.2	< 1	1.6
		3	13-Sep-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	< 0.5	88
	1996	1		NS	NS	NS	NS	NS
		2	14-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.2
		3	17-Sep-96	< 0.1	0.34	< 0.14	2.2	NA
		4	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.3
	1997	1	7-Apr-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	14-Aug-97	< 0.2	13.5	< 0.14	86	63
		3	3-Oct-97	< 0.2	4.1	< 0.14	30.7	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.2	0.33	< 0.14	1.5	NA
		1 duplicate	12-Mar-98	< 0.2	0.39	< 0.14	0.94	NA
		2	4-Jun-98	< 0.2	< 0.14	< 0.14	< 0.5	5.3
		3	28-Aug-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4	20-Nov-98	< 0.2	< 0.14	< 0.14	< 0.5	1.9
	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	< 4.3
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	14	< 4.1
		3	22-Jul-99	< 0.31	< 0.38	< 0.34	1.4	9.6
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.2
	2000	1	1-Mar-00	< 0.31	< 0.38	< 0.34	< 0.4	< 3.5
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
Field ID: MW-25RD		3 duplicate	31-Jul-00	NA	NA	NA	NA	< 2
		4	30-Oct-00	< 0.25	0.33	< 0.27	1.1	3.4
DEHP found in lab blank	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	1.9
DEHP found in lab blank		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	1.4
		3	24-Jul-01	< 0.28	< 0.26	< 0.26	< 0.25	0.5
Field ID: MW-25D		3 duplicate	24-Jul-01	NA	NA	NA	NA	1.2
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	0.7
	2002	1	6-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	0.5
DEHP found in lab blank		2	22-May-02	< 0.22	< 0.18	< 0.24	< 0.2	1.1
		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.2
		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	< 0.3
Dupe-01		4 duplicate	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.2
	2003	1	18-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1

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L.E. CARPENTER - Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS [5]				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
Trip Blank	1995	1	27-Feb-95	< 0.3	< 0.3	< 0.3	< 1	NA
		2	12-Jun-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		3	12-Sep-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
	1996	1	6-Mar-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		2	12-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		3	16-Sep-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
	1997	1	7-Apr-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	13-Aug-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		3	3-Oct-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	4-Jun-98	< 0.2	< 0.14	< 0.14	< 0.5	ND
		3	28-Aug-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4	20-Nov-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	NA
		3	22-Jul-99	NA	NA	NA	NA	< 4.2
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	NA
	2000	1	17-Jan-00	NA	NA	NA	NA	< 4.1
		1	1-Mar-00	NA	NA	NA	NA	< 3.8
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
		3	31-Jul-00	NA	NA	NA	NA	< 2
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	NA
DEHP found in lab blank	2001	1	27-Feb-01	NA	NA	NA	NA	0.6
		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	NA
Performed for Lab No. N067 (MW22R DEHP sample): STL forgot to sample DEHP at this well on first round		3	24-Jul-01	NA	NA	NA	NA	< 0.4
		3	24-Jul-01	NA	NA	NA	NA	< 0.4
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	NA
	2002	1	5-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	NA
		2	20-May-02	< 0.22	< 0.18	< 0.24	< 0.2	NA
		3	12-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	1.89
TB-01		4	19-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.2
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	4-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	NA

TABLE 5
L.E. CARPENTER - Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
Rinsate Blank	2002	1		ND	ND	0.7	ND	2.5
DEHP found in lab blank		2	22-May-02	< 0.22	< 0.18	< 0.24	< 0.2	3.4
RINAate -001		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	4.5
RINAate-01		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.3
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1

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L.E. CARPENTER - Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (5)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30
Field Blank	1995	1	27-Feb-95	< 0.3	< 0.3	< 0.3	< 1	< 1.1
		2	13-Jun-95	< 0.1	< 0.14	< 0.14	< 0.5	1.3
		3	13-Sep-95	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	7-Dec-95	< 0.1	< 0.14	< 0.14	< 0.5	< 1.2
	1996	1	7-Mar-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		2	14-Jun-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.4
		3	17-Sep-96	< 0.1	< 0.14	< 0.14	< 0.5	NA
		4	12-Dec-96	< 0.1	< 0.14	< 0.14	< 0.5	< 1.2
	1997	1	7-Apr-97	< 0.2	< 0.14	0.2	< 0.5	NA
		2	14-Aug-97	< 0.2	< 0.14	< 0.14	< 0.5	< 1.1
		3	3-Oct-97	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4		NS	NS	NS	NS	NS
	1998	1	12-Mar-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		2	4-Jun-98	< 0.2	< 0.14	< 0.14	< 0.5	< 1.1
		3	28-Aug-98	< 0.2	< 0.14	< 0.14	< 0.5	NA
		4	20-Nov-98	< 0.2	< 0.14	< 0.14	< 0.5	1.3
	1999	1	21-Jan-99	< 0.2	< 0.14	< 0.14	< 0.5	< 4.4
		2	15-Apr-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.4
		3	22-Jul-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.3
		4	25-Oct-99	< 0.31	< 0.38	< 0.34	< 0.4	< 4.6
	2000	1	17-Jan-00	< 0.31	< 0.38	< 0.34	< 0.4	< 4.2
		1	1-Mar-00	< 0.31	< 0.38	< 0.34	< 0.4	< 4.2
		1	16-Mar-00	NA	NA	NA	NA	3.2
		2	13-Apr-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		3	31-Jul-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
		4	30-Oct-00	< 0.25	< 0.27	< 0.27	< 0.25	< 2
DEHP found in lab blank	2001	1	27-Feb-01	< 0.25	< 0.27	< 0.27	< 0.25	1.3
DEHP found in lab blank		2	2-Apr-01	< 0.28	< 0.26	< 0.26	< 0.25	2
Performed for Lab No. N067 (MW22R DEHP sample). STL forgot to sample DEHP at this well on first round		3		NA	NA	NA	NA	1.2
		3	24-Jul-01	< 0.28	< 0.26	< 0.26	< 0.25	< 0.5
		4	26-Oct-01	< 0.28	< 0.26	< 0.26	< 0.25	< 0.4
	2002	1	6-Mar-02	< 0.28	< 0.26	< 0.26	< 0.25	16
		2	22-May-02	< 0.22	< 0.18	< 0.24	< 0.2	130
FB-001		3	13-Aug-02	< 0.22	< 0.18	< 0.24	< 0.2	0.5
FB-01		4	20-Nov-02	< 0.22	< 0.18	< 0.24	< 0.2	B 0.4
	2003	1	19-Mar-03	< 0.2	< 0.2	< 0.2	< 0.6	< 0.1
		2	3-Jun-03	< 0.2	< 0.2	< 0.2	< 0.6	< 1

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L.E. CARPENTER - Wharton, New Jersey
Quarterly Groundwater Monitoring Data

MONITORING WELLS	SAMPLING DATE			CHEMICAL ANALYSIS RESULTS (6)				
	YEAR	QUARTER	SAMPLING DATE	Benzene	Ethylbenzene	Toluene	Total Xylenes	DEHP
				ug/l	ug/l	ug/l	ug/l	ug/l
	NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1	700	1,000	40	30
		PRACTICAL QUANTIFICATION LIMIT (PQL)		1	5	5	2	30

GENERAL NOTES PAGE

LEGEND
ug/L: micrograms per liter
NJGWQS: New Jersey Groundwater Quality Standards
NS: Not Sampled
NA: Not Analyzed
duplicate: Duplicate sample
B: Analyte found in laboratory blank as well as sample.
DEHP: bis-2-Ethylhexylphthalate

SAMPLING NOTES
(1) MW-21 Quarterly sampling required for both DEHP and BTEX as of NJDEP letter dated Nov 23, 1998
(2) MW-11(IR) & MW-11(DR) sampled for both DEHP and BTEX per NJDEP letter dated Nov 23, 1998 (one time sample round- baseline concentration)
(3) MW-11D required to be sampled quarterly per NJDEP letter dated August 17, 1999. Third quarter 1999 sampling was performed prior to receiving the NJDEP letter. Subsequently, the well was only sampled for DEHP. Starting 4th quarter 1999, MW-11D will be sampled for both DEHP and BTEX. Based on NJDEP letter dated April 5, 2001, this well will be sampled for DEHP only (starting 2nd qtr 2001).
(4) Well initially sampled Biannually - 2nd and 4th Quarter as of the beginning of 1998. 1st quarter 2002, well sampled quarterly for both DEHP and BTEX.
(5) Low flow sampling initiated 1st quarter 2002.

15,000 Above the NJDEP NJGWQS

Section 4
Water Table Elevations

On June 2, 2003, RMT measured static groundwater levels from 75 different locations throughout the site (Table 6). RMT used these data to calculate groundwater elevations and evaluate the groundwater flow pattern in the shallow aquifer system.

Figure 4 displays the site-wide shallow groundwater potentiometric surface, and indicates that groundwater flow direction in the shallow aquifer east of the rail spur is similar to that observed historically (generally toward the east). Groundwater levels across the site have risen which is likely due to the increase in regional precipitation seen throughout the northeastern portion of the United States. Also exhibited in Figure 4 are the effects caused by the presence of the drainage ditch and the Rockaway River. The drainage ditch acts as a local groundwater "sink", and shallow groundwater flow direction from a large portion of the site is controlled by the drainage ditch. Shallow groundwater at the southern edge of the LEC site is recharged directly by the Rockaway River and flows towards the site before turning eastward toward the drainage ditch and the narrow area between the Air Products property and the Rockaway River known as the Wharton Enterprises property. Shallow groundwater on the Air Products property flows southeast, south, and southwest towards the drainage ditch.

The potentiometric surface contours were generated using the measured fluid level elevations in site shallow wells. Some shallow well fluid elevations were not used to generate these contours because the observed values appeared to be in error, specifically, some of the wells denoted as "well points". We also used head values for the Rockaway River, the drainage ditch and the Washington Forge Reservoir to control and interpret the groundwater elevation contours.

Activities in the MW19/Hot Spot 1 area for the second quarter 2003 event were limited to groundwater level elevation measurements only. As in previous quarters, groundwater flow in this area is generally northwards and bends northeast (Figure 5). Previous sampling events have indicated that the general flow of groundwater in this area is controlled by the presence of the Washington Forge Reservoir, and the 24-inch Rockaway River Regional Interceptor Sewer (RRRIS), which is encased in a gravel - lined trench running parallel to Ross Street.

TABLE 6
L.E. Carpenter and Company, Wharton, New Jersey
Quarterly Groundwater Elevations

WELL LOCATION	WELL TYPE	WELL INSTALLATION AND CONSTRUCTION INFORMATION (7)										PROFESSIONAL SURVEY INFORMATION				ELEVATIONS (FT. MSL)			QUARTERLY MEASUREMENT INFORMATION (8)						
		MANAGING CONSULTANT	INSTALLATION DATE	TOTAL WELL DEPTH (FT)	WELL DIAMETER (IN)	SCREEN MATERIAL	SLOT SIZE (IN)	TOP OF SCREEN (FT)	BOTTOM OF SCREEN (FT)	SCREENED INTERVAL (FT)	AQUIFER SYSTEM	BASELINE LOCATION (feet) (9) (Y) North	(X) East	GEODETIC LOCATION LATITUDE	LONGITUDE	GROUND	OUTER CASING	INNER WELL	MEAS. DATE	PRODUCT DEPTH	WATER DEPTH	PRODUCT ELEVATION	WATER ELEVATION	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL ELEVATIONS (2)
CW-1	Caisson Well	ROY F. WESTON	-	-	-	-	-	-	-	-	-	754247.22	471142.06	40° 54' 14.2"	74° 34' 34.7"	630.83	634.35		2-Jun-03	-	5.75	-	625.08	-	-
CW-3	Caisson Well	ROY F. WESTON		-	-	-	-	-	-	-	-	754203.93	471309.9	40° 54' 13.8"	74° 34' 32.5"	628.63	633.30		2-Jun-03	-	6.35	-	622.28	-	-
GEI-1I	Piezometer	ROY F. WESTON	April to October 1989	44.34	2.00	PVC	0.02	31.62	41.62	10.00	I	754767.14	471095.56	40° 54' 19.3"	74° 34' 35.3"	628.44	630.93	630.78	2-Jun-03	-	3.79	-	626.99	-	-
GEI-2I	Piezometer	ROY F. WESTON	April to October 1989	46.28	2.00	PVC	0.02	31.50	41.50	10.00	I	754573.99	470499.76	40° 54' 17.4"	74° 34' 43.1"	635.92	638.35	638.20	2-Jun-03	-	9.90	-	628.30	-	-
GEI-2S	Piezometer	ROY F. WESTON	April to October 1989	22.21	2.00	PVC	0.02	10.00	20.00	10.00	S	754566	470506.18	40° 54' 17.3"	74° 34' 43.0"	635.46	637.87	637.67	2-Jun-03	-	9.75	-	627.92	-	-
GEI-3I	Piezometer	ROY F. WESTON	April to October 1989	53.29	2.00	PVC	0.02	30.00	40.00	10.00	I	754311.79	470453.7	40° 54' 14.8"	74° 34' 43.7"	637.56	639.99	639.85	2-Jun-03	-	11.82	-	628.03	-	-
MW-1(R)	Monitoring Well	ROY F. WESTON	February 3, 1995	22.50	4.00	STEEL	0.01	7.00	22.50	15.50	S	754207.21	470825.97	40° 54' 13.8"	74° 34' 38.8"	635.79	635.78	635.47	2-Jun-03	8.20	9.32	627.27	626.15	1.12	627.20
MW-2(R)	Monitoring Well	ROY F. WESTON	January 30, 1995	13.00	2.00	PVC	0.01	2.00	12.00	10.00	S	754272.74	471267.56	40° 54' 14.4"	74° 34' 33.1"	629.08	632.28	632.14	2-Jun-03	-	5.60	-	626.54	-	-
MW-3	Monitoring Well	WEHRAN ENG.	May 15, 1980	27.00	2.00	STEEL	0.01	1.50	27.00	25.50	S	754227.41	471302.62	40° 54' 14.0"	74° 34' 32.6"	628.64	632.27	632.56	2-Jun-03	5.88	6.17	626.68	626.39	0.29	626.66
MW-4 (5)	Monitoring Well	WEHRAN ENG.	May 20, 1980	27.00	2.00	STEEL	0.01	1.50	27.00	25.50	S	754070.52	471162.53	40° 54' 12.4"	74° 34' 34.4"	628.86	632.31	632.50	2-Jun-03	-	5.42	-	627.08	-	-
MW-8(R)	Monitoring Well	ROY F. WESTON	January 25, 1995	10.98	2.00	PVC	0.02	0.98	10.98	10.00	S	754210.83	471191.61	40° 54' 13.8"	74° 34' 34.1"	629.82	632.64	632.42	2-Jun-03	-	4.82	-	627.60	-	-
MW-8 (5)	Monitoring Well	GROUNDWATER TECHNOLOGIES	1983	19.00	2.00	STEEL	0.02	0.00	19.00	19.00	S	754099.29	471251.06	40° 54' 12.7"	74° 34' 33.3"	627.99	630.56	628.79	2-Jun-03	-	2.17	-	626.62	-	-
MW-9 (5)	Monitoring Well	GROUNDWATER TECHNOLOGIES	1983	20.50	2.00	STEEL	0.02	0.50	20.00	19.50	S	754075.94	471111.03	40° 54' 12.5"	74° 34' 35.1"	629.21	631.69	630.18	2-Jun-03	-	3.90	-	626.28	-	-
MW-11S	Monitoring Well	ROY F. WESTON	April to October 1989	14.73	4.00	STEEL	0.02	4.37	14.41	10.00	S	754226.73	471126.83	40° 54' 14.0"	74° 34' 34.9"	631.23	633.26	632.96	2-Jun-03	6.22	12.18	626.74	620.78	5.96	626.36
MW-11I(R)	Monitoring Well	RMT, INC.	February 20, 1998	52.00	2.00	STEEL	0.01	42.00	52.00	10.00	I	754237.94	471128.05	40° 54' 14.1"	74° 34' 34.9"	630.89	633.67	633.33	2-Jun-03	-	6.35	-	626.98	-	-
MW-11D(R) (5)	Monitoring Well	RMT, INC.	February 20, 1998	157.00	2.00	STEEL	0.01	147.00	157.00	10.00	D	754244.62	471124.66	40° 54' 14.2"	74° 34' 34.9"	630.66	633.35	633.09	2-Jun-03	-	4.08	-	629.01	-	-
MW-12S(R)	Monitoring Well	ROY F. WESTON	May 7, 1996	14.45	4.00	PVC	0.02	2.45	14.45	12.00	S	754055.97	471042.34	40° 54' 12.3"	74° 34' 35.9"	632.17	634.86	634.33	2-Jun-03	-	6.42	-	627.91	-	-
MW-13S	Monitoring Well	ROY F. WESTON	April to October 1989	16.39	4.00	STEEL	0.02	5.37	15.14	10.00	S	754353.97	471370.04	40° 54' 15.3"	74° 34' 31.7"	628.34	631.40	631.23	2-Jun-03	-	3.38	-	627.85	-	-
MW-13S(R)	Monitoring Well	ROY F. WESTON	January 27, 1995	17.00	2.00	PVC	0.01	2.00	12.00	10.00	S	754333.07	471365.71	40° 54' 15.0"	74° 34' 31.8"	628.26	630.96	630.59	2-Jun-03	-	4.16	-	626.43	-	-
MW-13I	Monitoring Well	ROY F. WESTON	July 31, 1989	46.30	2.00	STEEL	0.02	35.22	45.26	10.00	I	754337.8	471360.31	40° 54' 15.1"	74° 34' 31.9"	628.36	630.88	630.66	2-Jun-03	-	3.97	-	626.69	-	-
MW-14S	Monitoring Well	ROY F. WESTON	April to October 1989	15.46	4.00	STEEL	0.02	3.42	13.46	10.00	S	754255.02	471423.66	40° 54' 14.3"	74° 34' 31.0"	625.78	628.63	628.41	2-Jun-03	-	2.66	-	625.75	-	-
MW-14I (5)	Monitoring Well	ROY F. WESTON	April to October 1989	44.30	2.00	STEEL	0.02	33.22	43.26	10.00	I	754250.22	471409.62	40° 54' 14.2"	74° 34' 31.2"	625.93	628.82	628.23	2-Jun-03	-	1.78	-	626.45	-	-
MW-15S (5)	Monitoring Well	ROY F. WESTON	April to October 1989	25.94	4.00	STEEL	0.02	9.37	19.41	10.00	S	754326.58	470891.83	40° 54' 15.0"	74° 34' 38.0"	634.83	637.03	636.77	2-Jun-03	-	9.42	-	627.35	-	-
MW-15I (5)	Monitoring Well	ROY F. WESTON	July 17, 1989	43.92	2.00	STEEL	0.02	30.55	40.26	10.00	I	754325.8	470901.47	40° 54' 15.0"	74° 34' 37.9"	634.74	636.88	636.66	2-Jun-03	-	9.45	-	627.21	-	-
MW-16S	Monitoring Well	ROY F. WESTON	April to October 1989	23.90	4.00	STEEL	0.02	7.37	17.41	10.00	S	754424.11	470704.1	40° 54' 15.9"	74° 34' 40.4"	632.57	634.69	634.47	2-Jun-03	-	4.89	-	629.58	-	-
MW-16I	Monitoring Well	ROY F. WESTON	April to October 1989	46.53	2.00	STEEL	0.02	32.22	42.26	10.00	I	754435.1	470710.17	40° 54' 16.0"	74° 34' 40.3"	632.43	635.08	634.96	2-Jun-03	-	7.27	-	627.69	-	-
MW-17S (5)	Monitoring Well	ROY F. WESTON	April to October 1989	15.04	4.00	STEEL	0.02	5.20	15.24	10.00	S	754109.68	470759.85	40° 54' 12.8"	74° 34' 39.7"	632.95	634.92	634.79	2-Jun-03	-	6.69	-	628.10	-	-
MW-18S	Monitoring Well	ROY F. WESTON	April to October 1989	15.04	2.00	STEEL	0.02	4.37	14.41	10.00	S	754677.95	471117.26	40° 54' 18.4"	74° 34' 35.0"	628.22	631.48	631.26	2-Jun-03	-	4.71	-	626.55	-	-
MW-18I	Monitoring Well	ROY F. WESTON	April to October 1989	44.69	2.00	STEEL	0.02	34.22	44.26	10.00	I	754675.11	471106.07	40° 54' 18.4"	74° 34' 35.2"	628.35	631.19	631.04	2-Jun-03	-	4.05	-	626.99	-	-
MW-19 (5)	Monitoring Well	ROY F. WESTON	May 20, 1991	17.00	4.00	STEEL	0.02	7.00	17.00	10.00	S	754537.15	470454.45	40° 54' 17.1"	74° 34' 43.7"	636.82	636.83	636.50	2-Jun-03	-	8.26	-	628.24	-	-
MW-19-1 (5)	Monitoring Well	RMT, INC.	February 17, 1998	17.00	4.00	STEEL	0.01	6.00	15.50	9.50	S	754534.52	470427.63	40° 54' 17.0"	74° 34' 44.0"	636.53	636.56	636.24	2-Jun-03	-	7.60	-	628.64	-	-
MW-19-2 (5)	Monitoring Well	RMT, INC.	February 17, 1998	16.00	4.00	STEEL	0.01	6.00	16.00	10.00	S	754551.81	470429.56	40° 54' 17.2"	74° 34' 44.0"	637.08	637.10	636.90	2-Jun-03	-	8.70	-	628.20	-	-
MW-19-3 (5)	Monitoring Well	RMT, INC.	February 18, 1998	16.00	4.00	STEEL	0.01	6.00	15.50	9.50	S	754539.4	470394.2	40° 54' 17.1"	74° 34' 44.5"	637.57	637.66	637.30	2-Jun-03	-	8.93	-	628.37	-	-
MW-19-4 (5)	Monitoring Well	RMT, INC.	February 18, 1998	16.00	4.00	STEEL	0.01	6.00	15.50	9.50	S	754505.39	470432.08	40° 54' 16.7"	74° 34' 44.0"	636.29	636.36	636.03	2-Jun-03	-	6.77	-	629.26	-	-
MW-19-5 (5)	Monitoring Well	RMT, INC.	February 18, 1998	16.00	2.00	PVC	0.01	6.00	15.50	9.50	S	754565.53	470470.75	40° 54' 17.3"	74° 34' 43.5"	636.53	636.53	636.16	2-Jun-03	-	8.22	-	627.94	-	-
MW-19-6 (4)(5)	Monitoring Well	RMT, INC.	October 28, 1999	20.00	2.00	STEEL	0.02	10.00	20.00	10.00	S	754578.87	470443.1	40° 54' 17.5"	74° 34' 43.8"	636.77	636.78	636.42	2-Jun-03	-	8.38	-	628.04	-	-
MW-19-7 (4)(5)	Monitoring Well	RMT, INC.	October 29, 1999	20.00	2.00	STEEL	0.02	10.00	20.00	10.00	S	754595.66	470501.7	40° 54' 17.6"	74° 34' 43.1"	635.91	635.96	635.60	2-Jun-03	-	7.86	-	627.74	-	-
MW-19-8 (4)(5)	Monitoring Well	RMT, INC.	October 28, 1999	20.00	2.00	STEEL	0.02	11.00	20.00	9.00	S	754617.42	470493.65	40° 54' 17.8"	74° 34' 43.2"	636.42	636.42	635.96	2-Jun-03	-	8.16	-	627.80	-	-
MW-19-9D (4)(5)	Monitoring Well	RMT, INC.	July 10, 2001	35.00	2.00	STEEL	0.02	25.00	35.00	10.00	S	754590	470442	40° 54' 17.9"	74° 34' 42.4"	636.99	637.01	636.70	2-Jun-03	-	8.19	-	628.51	-	-
MW-20	Monitoring Well	ROY F. WESTON	May 21, 1991	14.00	4.00	STEEL	0.02	4.00	14.00	10.00	S	754550.52	470647.25	40° 54' 17.2"	74° 34' 41.2"	634.82	637.03	636.77	2-Jun-03	-	7.45	-	629.32	-	-
MW-21 (5)	Monitoring Well	ROY F. WESTON	May 22, 1991	15.00	4.00	STEEL	0.02	5.00	15.00	10.00	S	754240.97	471645.78	40° 54' 14.1"	74° 34' 28.2"	625.17	629.09	628.80	2-Jun-03	-	2.70	-	626.10	-	-
MW-22(R) (5)	Monitoring Well	ROY F. WESTON	July 22, 1997	7.50	2.00	STEEL	-	-	-	-	S	754200.52	471409.13	40° 54' 13.7"	74° 34' 31.2"	625.94	628.31	628.13	2-Jun-03	-	2.38	-	625.75	-	-
MW-23	Monitoring Well	ROY F. WESTON	January 6, 1992	6.00	2.00	STEEL	0.02	1.00	6.00	5.00	S	754413.43	471469.4	40° 54' 15.8"	74° 34' 30.5"	628.70	630.95	630.64	3-Jun-03	-	2.49	-	628.15	-	-
MW-25(R) (5)	Monitoring Well	ROY F. WESTON	July 22, 1997	10.00	2.00	STEEL	-	-	-	-	S	754201.83	471518.21	40° 54' 13.7"	74° 34' 29.8"	625.25	627.37	627.22	2-Jun-03	-	2.05	-	625.17	-	-
MW-26	Monitoring Well	ROY F. WESTON	May 8, 1996	11.80	4.00	PVC	0.02	1.80	11.80	10.00	S	754401.17	471174.36	40° 54' 15.7"	74° 34' 34.3"	630.84	634.39	633.26	2-Jun-03	-	6.56	-	626.70	-	-
RW-1	Recovery Well	ROY F. WESTON	June 17, 1991	30.00	8.00	STEEL	0.02	5.00	30.00	25.00	S	754183.96	470802.1	40° 54' 13.6"	74° 34' 39.1"	635.19	637.81	637.38	2-Jun-03	-	9.89	-	627.49	-	-
RW-2	Recovery Well	ROY F. WESTON	June 22, 1991	30.00	8.00	STEEL	0.02	3.00	30.00	27.00	S	754245.98	471289.8	40° 54' 14.2"	74° 34' 32.8"	629.80	631.78	631.68	2-Jun-03	-	5.12	-	626.56	-	-
RW-3	Recovery Well	ROY F. WESTON	June 21, 1991	28.00	8.00	STEEL	0.02	3.00	28.00	25.00	S	754315.59	471206.84	40° 54' 14.9"	74° 34' 33.9"	629.89	632.15	631.99	2-Jun-03	-	5.65	-	626.34	-	-
SG-D1 (1)	Drainage Channel Staff Gauge	RMT, INC.	November-98	NA	NA	NA	NA	NA	NA	NA	NA	754428.57	471240.37	-	-	626.41	-	-	2-Jun-03	-	2.53	-	625.61	-	-
SG-D2 (1)	Drainage Channel Staff Gauge	RMT, INC.	November-98	NA	NA	NA	NA	NA	NA	NA	NA	754285.43	471361.24	-	-	626.88	-	-	2-Jun-03	-	0.50	-	624.03	-	-
SG-D3 (1)	Drainage Channel Staff Gauge	RMT, INC.	November-98	NA	NA	NA	NA	NA	NA	NA	NA	754381.47	471548.31	-	-	626.43	-	-	2-Jun-03	-	1.51	-	624.61	-	-
SG-R1 (1)	Rockaway River Staff Gauge	RMT, INC.	November-98	NA	NA	NA	NA	NA	NA	NA	NA	754313.99	470408.70	-	-	641.52	-	-	2-Jun-03	-	2.44	-	640.63	-	-
SG-R2 (1)	Rockaway River Staff Gauge	RMT, INC.	November-98	NA	NA	NA	NA	NA	NA	NA	NA	754056.10	470949.16	-	-	628.84	-	-	2-Jun-03	-	2.02		627.53	-	-
SG-R3 (1)	Rockaway River Staff Gauge	RMT, INC.	November-98	NA	NA	NA	NA	NA	NA	NA	NA	754113.47	471426.67	-	-	627.38	-	-	2-Jun-03	-	1.50		625.55	-	-

TABLE 6
L.E. Carpenter and Company, Wharton, New Jersey
Quarterly Groundwater Elevations

WELL LOCATION	WELL TYPE	WELL INSTALLATION AND CONSTRUCTION INFORMATION (7)										PROFESSIONAL SURVEY INFORMATION				ELEVATIONS (FT. MSL)			QUARTERLY MEASUREMENT INFORMATION (6)						
		MANAGING CONSULTANT	INSTALLATION DATE	TOTAL WELL DEPTH (FT)	WELL DIAMETER (IN)	SCREEN MATERIAL	SLOT SIZE (IN)	TOP OF SCREEN (FT)	BOTTOM OF SCREEN (FT)	SCREENED INTERVAL (FT)	AQUIFER SYSTEM	BASELINE LOCATION (feet) (9) (Y) North	(X) East	GEODETIC LOCATION LATITUDE	LONGITUDE	GROUND	OUTER CASING	INNER WELL	MEAS. DATE	PRODUCT DEPTH	WATER DEPTH	PRODUCT ELEVATION	WATER ELEVATION	PRODUCT THICKNESS (ft)	CORRECTED WATER LEVEL ELEVATIONS (2)
WP-A1	Area A Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754220.52	470825.71	40° 54' 13.9"	74° 34' 38.8"	636.29	636.32	635.81	2-Jun-03	8.21	10.06	627.60	625.75	1.85	627.48
WP-A2	Area A Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754249.34	470813.05	40° 54' 14.2"	74° 34' 39.0"	637.31	639.62	639.19	2-Jun-03	-	11.75	-	627.44	-	-
WP-A3	Area A Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754195.42	470717.12	40° 54' 13.7"	74° 34' 40.3"	635.97	635.87	635.56	2-Jun-03		7.74	-	627.82	-	-
WP-A4	Area A Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754229.46	470855.24	40° 54' 14.0"	74° 34' 38.5"	635.63	635.66	635.10	2-Jun-03	7.87	11.18	627.23	623.92	3.31	627.02
WP-A5	Area A Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754266.54	470886.02	40° 54' 14.4"	74° 34' 38.1"	635.70		637.85	2-Jun-03		9.25		628.60	-	-
WP-A6	Area A Well Point	ROY F. WESTON	1993	13.00	2.00	PVC	-	3.00	13.00	10.00	S	754184.69	470888.45	40° 54' 13.6"	74° 34' 38.0"	634.95		637.28	2-Jun-03		9.96		627.32		627.32
WP-A7	Area A Well Point	ROY F. WESTON	1993	11.00	2.00	PVC	-	1.00	11.00	10.00	S	754196.44	470999.43	40° 54' 13.7"	74° 34' 36.6"	632.94		634.88	2-Jun-03	7.30	8.11	627.58	626.77	0.81	627.53
WP-A8	Area A Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754260.25	470998.97	40° 54' 14.3"	74° 34' 36.6"	634.70		637.56	2-Jun-03	10.50	12.05	627.06	625.51	1.55	626.96
WP-A9	Area A Well Point	ROY F. WESTON	1993	16.00	2.00	PVC	-	6.00	16.00	10.00	S	754184.12	470935.26	40° 54' 13.6"	74° 34' 37.4"	637.22		639.32	2-Jun-03	11.06	12.04	628.26	627.28	0.98	628.20
WP-B1	Area B Well Point	ROY F. WESTON	1993	11.00	2.00	PVC	-	1.00	11.00	10.00	S	754218.63	471068.54	40° 54' 13.9"	74° 34' 35.7"	631.85		633.85	2-Jun-03	5.40	5.55	628.25	628.10	0.15	628.24
WP-B2	Area B Well Point	ROY F. WESTON	1993	11.00	2.00	PVC	-	1.00	11.00	10.00	S	754282.8	471115.71	40° 54' 14.5"	74° 34' 35.1"	630.48	632.58	632.25	2-Jun-03		5.14		627.11	-	-
WP-B3	Area B Well Point	ROY F. WESTON	1993	11.00	2.00	PVC	-	1.00	11.00	10.00	S	754243.43	471088.51	40° 54' 14.2"	74° 34' 35.4"	631.71		633.93	2-Jun-03		5.58		627.75	-	-
WP-B4	Area B Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754275.31	471156.49	40° 54' 14.5"	74° 34' 34.5"	629.93		632.56	2-Jun-03	5.69	8.36	626.87	624.20	2.67	626.70
WP-B5	Area B Well Point	ROY F. WESTON	1993	11.00	2.00	PVC	-	1.00	11.00	10.00	S	754296.93	471181.49	40° 54' 14.7"	74° 34' 34.2"	630.03		632.11	2-Jun-03	-	4.38	-	627.73	-	-
WP-B6	Area B Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754171.56	471223.53	40° 54' 13.4"	74° 34' 33.7"	629.72		631.86	2-Jun-03	-	4.88	-	626.98	-	-
WP-B7	Area B Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754179.91	471330.82	40° 54' 13.5"	74° 34' 32.3"	627.82		629.49	2-Jun-03	-	3.50	-	625.99	-	-
WP-B10	Area B Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754319.10	471144.76	40° 54' 14.9"	74° 34' 34.7"	630.42	633.12	632.74	2-Jun-03	-	5.88	-	626.86	-	-
WP-C1	Area C Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754067.66	471038.32	40° 54' 12.6"	74° 34' 36.1"	632.81		633.51	2-Jun-03	-	5.63	-	627.88	-	-
WP-C2	Area C Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754075.97	471074.74	40° 54' 12.5"	74° 34' 35.6"	633.02		634.46	2-Jun-03	-	6.67	-	627.79	-	-
WP-C3	Area C Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754066.60	471009.58	40° 54' 12.4"	74° 34' 36.4"	631.00		632.64	2-Jun-03	-	4.68	-	627.96	-	-
WP-C4	Area C Well Point	ROY F. WESTON	1993	-	-	-	-	-	-	-	-	754108.93	471050.74	40° 54' 12.8"	74° 34' 35.9"	632.44		633.27	2-Jun-03	-	4.80	-	628.47	-	-

FOOTNOTES

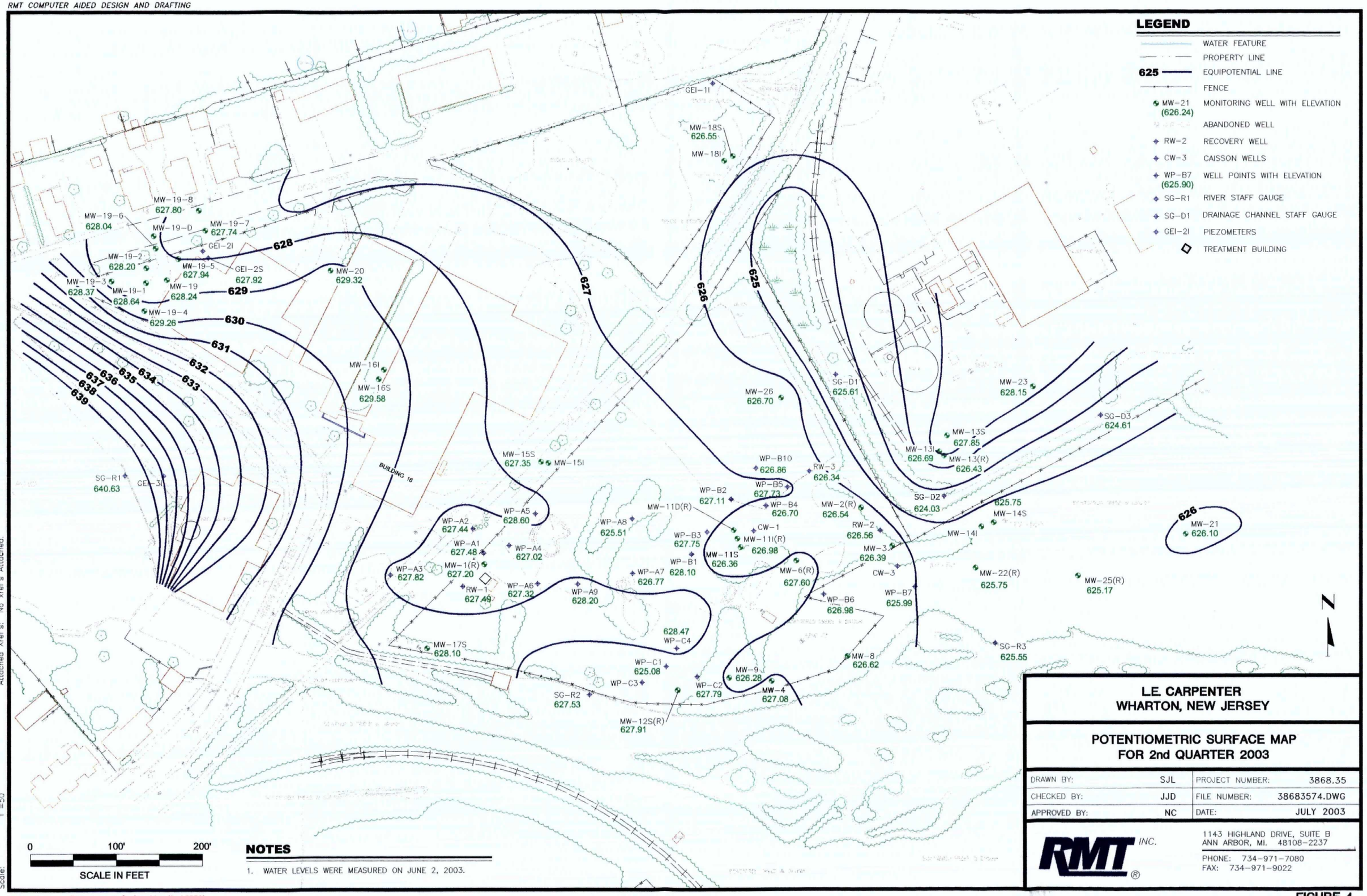
(1) Elevation measured at the top of a 3.33 ft. Staff gauge. Water depth based on a visual observation of the water level on the Staff gauge.
(2) Corrected water level elevations utilize an average specific gravity of 0.9383 (RMT, Inc. product sampling in October 1999 @ MW-1(R); EFR-11 & WP-A8)
(3) Wells included in the quarterly sampling program. Depth to water recorded before purging
(4) Wells installed during new RI efforts per NJDEP and EPA request to further delineate MW19/Hot Spot 1 Area
(5) No boring log or well construction diagram available. Well specific information determined from Weston Geologic Cross Section
(6) "-" in the Quarterly Measurement Information section of this database indicates that the presence of free product was NOT detected at any measurable thickness and therefore did not generate a product elevation, product thickness nor require water level elevation to be corrected
(7) "-" in the Well Installation and Construction Information section indicates that well construction logs were not available for review
(8) Horizontal Datum: New Jersey State Plane Coordinate System NAD 83. Vertical Datum: NGVD 29
(9) All "19 series" wells were resurveyed August 8, 2001 at owners request. Wells MW19 through MW19-5 were converted to flush mount wells to allow for through traffic. Professional survey performed by James M. Stewart, Inc., Philadelphia, PA

GENERAL NOTES

All WP series wells finished elevation is 2 feet above nominal grade. Total depth of well only accounts for subsurface structure
Wells MW-1A, MW5, MW-7, MW-10, MW-11I, MW-11D, MW-14D, MW-17D, MW-18D, MW-22, MW-24, MW-25, WP-B8, Wp-D1, PZ-6A, PZ-2A(R), PZ-2AS, RW-1 have been abandoned
Wells MW-11I(R), MW11-D(R), MW-1(R), MW-2(R), MW-6(R), MW-22(R), and MW-25(R) are replacement wells

LEGEND

S: Shallow Aquifer System
I: Intermediate Aquifer System
D: Deep Aquifer System
R: Replacement Well
NAS: Not Assessable
REM: Removed
"-": Value of 0.00. Free Product not encountered at well



NOTES

1. WATER LEVELS WERE MEASURED ON JUNE 2, 2003.

LE CARPENTER
WHARTON, NEW JERSEY

POTENTIOMETRIC SURFACE MAP
FOR 2nd QUARTER 2003

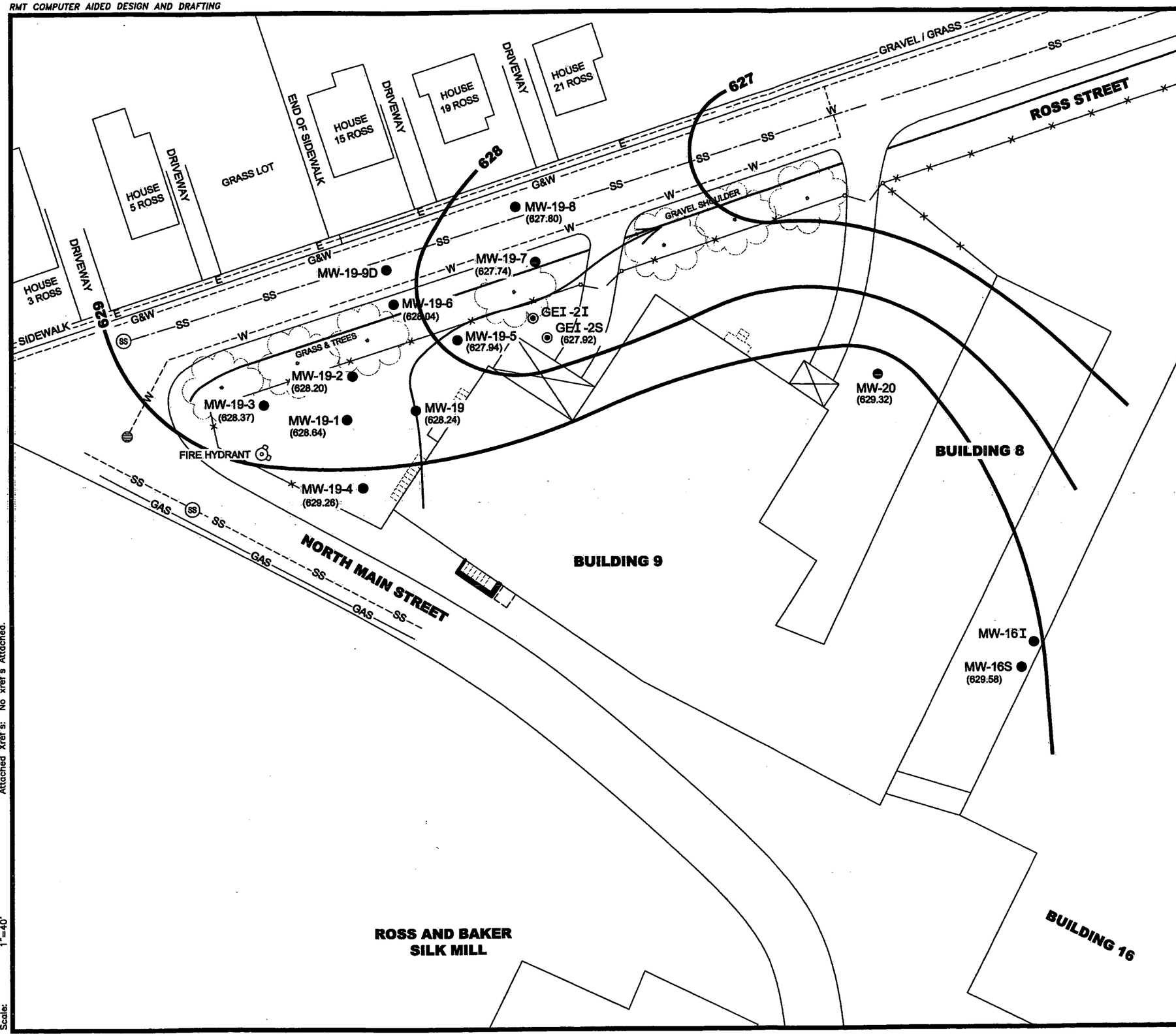
DRAWN BY:	SJL	PROJECT NUMBER:	3868.35
CHECKED BY:	JJD	FILE NUMBER:	38683574.DWG
APPROVED BY:	NC	DATE:	JULY 2003

RMT INC.
1143 HIGHLAND DRIVE, SUITE B
ANN ARBOR, MI. 48108-2237
PHONE: 734-971-7080
FAX: 734-971-9022

FIGURE 4

PLOT DATA
Drawing Name: J:\3868\35\38683574.dwg
Operator Name: lucidos
Scale: 1"=50'
Dwg Size: 5352263 Bytes
Plot Date: Thursday, July 24, 2003
Plot Time: 09:02:0547 AM
Attached Xref's: No xref's Attached.

Layout Name: Potentiometric Surface Map (2nd 2003)



LEGEND

- FENCE LINE
- SS — APPROXIMATE LOCATION OF ROCKAWAY RIVER REGIONAL INTERCEPTOR SEWER
- 627 — GROUNDWATER ELEVATION CONTOUR
- MW-19-7 (627.68) — MONITORING WELL LOCATION AND NUMBER WITH GROUNDWATER ELEVATION
- GEI-2S (627.72) — GEOPROBE INSTALLED PIEZOMETER LOCATION AND NUMBER WITH GROUNDWATER ELEVATION
- SS — SANITARY SEWER
- G&W — GAS AND WATER
- E — ELECTRIC
- W — WATER
- APPROXIMATE GROUNDWATER FLOW DIRECTION

NOTES

1. GROUNDWATER ELEVATIONS BASED ON LEVELS MEASURED ON JUNE 2, 2003.

N

0 40' 80'

SCALE IN FEET

LE. CARPENTER
WHARTON, NEW JERSEY

MW-19 / HOT SPOT 1
GROUNDWATER ELEVATION CONTOURS
FOR 2nd QUARTER 2003

DRAWN BY:	SJL	PROJECT NUMBER:	3868.35
CHECKED BY:	JO	FILE NUMBER:	38683575.DWG
APPROVED BY:	JJD	DATE:	JULY 2003

RMT INC.
1143 HIGHLAND DRIVE, SUITE B
ANN ARBOR, MI. 48108-2237
PHONE: 734-971-7080
FAX: 734-971-9022

FIGURE 5

PLOT DATA
Drawing Name: J:\03868\35\38683575.dwg
Operator Name: lucidos
Scale: 1"=40'
Dwg Size: 198853 Bytes
Plot Date: July 2003
Plot Time: 1:36.3306 PM
Attached Xref's: No xref's Attached.

Section 5
Drainage Channel Surface Water Sampling

As part of the second quarter 2003 event, RMT sampled the eastern drainage channel that separates the adjacent Air Products facility from the LEC site and the adjacent Wharton Enterprises property. This sampling was conducted at the request of NJDEP as outlined in their letter dated May 31, 2002. As requested in the NJDEP letter dated November 4, 2002, grab sampling was performed in the three locations along this channel (SW-5, SW-7 and SW-8). Sampling started with the downstream location SW-8 and proceeded to upstream location SW-7. As previously seen, the drainage ditch controls shallow groundwater pressure heads and flow direction as described above.

The presence of DEHP or BTEX compounds was not detected at either SW-5 or SW-7. The surface water sample collected at SW-8 contained very low levels of ethylbenzene (0.20 ug/L) and total xylenes (1.2 µg/L). Both analytes are "J-qualified" meaning they were estimated values falling between the MDL and the Limit of Quantitation (LOQ). These concentrations are below the surface water quality criteria for toxic substances outlined in N.J.A.C 7:9B-1.14 and NJGWQS. Historical and current surface water sampling results are summarized in Table 7.

These data show that BTEX and DEHP constituents dissolved in groundwater are naturally attenuating, and that migration of the these primary constituents of concern is not taking place at levels above applicable standards in surface water within the drainage channel nor in groundwater beyond MW-25(R) located on the Wharton Enterprises property. In other words, the area of on-site free product results in a downgradient "halo" of dissolved phase contaminants in groundwater that make up a stable (non-expanding) plume. Future site monitoring activities will include surface water sample collection at the same three locations.

TABLE 7
L.E. CARPENTER - Wharton, New Jersey
Surface Water Monitoring Data

	ROCKAWAY RIVER			INFILTRATION GALLERY	DRAINAGE DITCH												
	SW-1	SW-2	SW-3	SW-4	SW-5						SW-6	SW-7					
SAMPLING DATE	03/14/89 (1)	03/14/89 (1)	03/14/89 (1)	03/14/89 (1)(6)	08/02/89 (1)	5/29/98 (5)	06/06/02	11/21/02	03/20/03	06/02/03	03/14/89 (1)	08/27/90	5/29/98 (5)	06/06/02	11/21/02	03/20/03	06/02/03
VOLATILE ORGANIC COMPOUNDS (ug/l) (4)																	
Methylene Chloride	J 1	ND	ND	ND	JP 3.8	ND	NA	NA	NA	NA	J 3.8	(2) ND	ND	NA	NA	NA	NA
1,1,1-Trichloroethane	ND	ND	ND	ND	J 3.7	0.4	NA	NA	NA	NA	ND	ND	0.5	NA	NA	NA	NA
Ethylbenzene	ND	ND	ND	ND	J 3.5	ND	NA	< 0.18	< 0.2	< 0.2	ND	ND	ND	ND	< 0.18	< 0.2	< 0.2
Chlorobenzene	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	J 1.2	ND	ND	NA	NA	NA	NA
Acetone	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA
Total Xylenes	ND	ND	ND	ND	44	ND	ND	< 0.2	< 0.6	< 0.6	ND	ND	ND	ND	< 0.2	< 0.6	< 0.6
Toluene	ND	ND	ND	ND	ND	ND	1	< 0.24	< 0.2	< 0.2	ND	ND	ND	ND	< 0.24	< 0.2	< 0.2
1,1,2-Trichloro-2,2,1-Triflouroethane	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA
Benzene							ND	< 0.22	< 0.2	< 0.2				ND	< 0.22	< 0.2	< 0.2
BASE NEUTRAL COMPOUNDS (ug/l) (4)																	
Di-n-butyl phthalate (3)	JP 3.2	JP 3.7	JP 3.6	JP 3.5	ND	ND	NA	NA	NA	NA	JP 4	NA	ND	NA	NA	NA	NA
bis(2-Ethylhexyl) phthalate	ND	ND	ND	J 7.2	ND	ND	ND	B 0.3	< 1	< 1	ND	J(2) 7	ND	ND	B 0.4	< 1	< 1
METALS (ug/l) (4)																	
Antimony	ND	ND	ND	J 22.8	ND	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
Arsenic	ND	ND	J 2.4	ND	10	NA	NA	NA	NA	NA	15.9	NA	NA	NA	NA	NA	NA
Cadmium	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	J 22.2	NA	NA	NA	NA	NA	NA
Chromium	ND	ND	J 8	ND	ND	NA	NA	NA	NA	NA	231	NA	NA	NA	NA	NA	NA
Copper	J 16.7	J 5.3	J 22.1	J 6.7	ND	NA	NA	NA	NA	NA	405	NA	NA	NA	NA	NA	NA
Lead	20.7	ND	87.2	J 2.7	6	NA	NA	NA	NA	NA	1340	NA	NA	NA	NA	NA	NA
Mercury	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	2.8	NA	NA	NA	NA	NA	NA
Nickel	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	J 60.8	NA	NA	NA	NA	NA	NA
Selenium	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	7.1	NA	NA	NA	NA	NA	NA
Zinc	96.4	J 4.2	152	23	60	NA	NA	NA	NA	NA	2,370	NA	NA	NA	NA	NA	NA
POLYCHLORINATED BIPHENYLS (PCBs) (ug/l) (6)																	
Arochlor-1016	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arochlor-1221	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arochlor-1232	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arochlor-1242	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arochlor-1248	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arochlor-1254	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arochlor-1260	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LEGEND
ug/L = micrograms per liter
SW = Surface water sample (Roy F. Weston nomenclature)
ND: No Detection
NA: Not Analysed
Concentration data in BOLD above detection level
B: Compound detected in lab blank.

NOTES
(1) NJDEP Tier 1 sample holding time was exceeded
(2) Compound detected in method blank. Sample concentration < 3x conc. in method blank
Per Tier 1 guidelines the result is negated
(3) All concentrations later negated by NJDEP
(4) Only those parameters listed showed concentrations above ND.
All other parameters were either ND or NA.
(5) Sampling performed by RMT per NJDEP request letter dated Jan 28, 1998
VOCs and Base Neutrals ONLY (EPA 624 and 625 respectively)
(6) The PCB sample (SW-4) was collected May 9, 1989

LABORATORY QUALIFIERS
J: Detected below reporting limit or is an estimated concentration
P: Compound detected in laboratory method blank
B: Analyte found in laboratory blank as well as sample

Sediment Sampling Information

1989 GeoEngineering/Roy F. Weston sampling November 1989: VO+15 (EPA 624), BN+15 (EPA 625); PP Metals (EPA 200 series), PCBs (SW-4 only) (EPA 608)
PP Metals (EPA 200 series), PCBs (SW/SS-4 only) (for SW sample EPA 608, for SS EPA 8080)
SW-1: Background sample location in Washington Forge Pond
SW-2: Assess impact on Rockaway River. Located immediately adjacent to Bldg. 12
SW-3: Assess impact on Rockaway River. Located downNAtream of former impoundment area
SW-4: Located in former infiltration gallery between former impoundment area and tank farm
SW-5: Located in the drainage ditch between LEC and Air Products
SW-6: Located in a drainage feature in Northeast corner, up by former Starch drying beds. Potential floor drain and non-contact cooling water impacts

1990 Roy F. Weston Supplemental RI (November 1990)
SW-7: Former outfall from northeast corner starch drying beds. (VOC+10, BN+10, PCB)
SW-8: Bend in drainage ditch. Assess downgradient quality of drainAge ditch (VOC+10)
SW-9: Junction of ditch and Rockaway River. Assess impact of ditch on river quality. (VOC+10, BN+10, PCB)
SW-10: Rockaway River south of MW-4. Assess impact of site on contaminants of Rockaway River. (VOC+10, TAL Metals)

2002 Sampling performed by RMT pre the NJDEP letter dated May 31, 2002 [NJDEP/EPA review of Quarterly Monitoring Report - 1st Quarter 2002
During 3Q02 sampling event only SW-8 location sampled due drought conditions.

TABLE 7
L.E. CARPENTER - Wharton, New Jersey
Surface Water Monitoring Data

								ROCKAWAY RIVER	
	SW-8							SW-9	SW-10
SAMPLING DATE	08/27/90	5/29/98 [5]	06/06/02	8/14/2002	11/21/2002	3/20/2003	6/2/2003	08/28/90	08/28/90
VOLATILE ORGANIC COMPOUNDS (ug/l) [4]									
Methylene Chloride	[2] ND	ND	NA	NA	NA	NA	NA	[2] ND	[2] ND
1,1,1-Trichloroethane	ND	ND	NA	NA	NA	NA	NA	ND	ND
Ethylbenzene	ND	ND	ND	< 0.18	< 0.18	J **0.91**	J **0.2**	ND	ND
Chlorobenzene	ND	ND	NA	NA	NA	NA	NA	ND	ND
Acetone	ND	ND	NA	NA	NA	NA	NA	ND	ND
Total Xylenes	ND	ND	ND	**0.43**	**0.32**	J **2.7**	J **1.2**	ND	ND
Toluene	ND	ND	**1**	**0.54**	< 0.24	< 0.2	< 0.2	ND	ND
1,1,2-Trichloro-2,2,1-Trifloureothane	ND	ND	NA	NA	NA	NA	NA	ND	ND
Benzene			ND	< 0.22	< 0.22	< 0.2	< 0.2		
BASE NEUTRAL COMPOUNDS (ug/l) [4]									
Di-n-butyl phthalate [3]	NA	ND	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl) phthalate	NA	ND	**0.6**	**1.3**	B **0.4**	< 1	< 1	J[2] **6**	NA
METALS (ug/l) [4]									
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	ND
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	J **3.9**
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	ND
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	ND
Copper	NA	NA	NA	NA	NA	NA	NA	NA	ND
Lead	NA	NA	NA	NA	NA	NA	NA	NA	J **4.6**
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	ND
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	ND
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	ND
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	J **5.4**
POLYCHLORINATED BIPHENYLS (PCBs) (ug/l) [6]									
Arochlor-1016	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arochlor-1221	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arochlor-1232	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arochlor-1242	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arochlor-1248	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arochlor-1254	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arochlor-1260	NA	NA	NA	NA	NA	NA	NA	NA	NA

LEGEND
ug/L = micrograms per liter
SW = Surface water sample (Roy F. Weston nomenclature)
ND: No Detection
NA: Not Analysed
Concentration data in BOLD above detection level
B: Compound detected in lab blank.

NOTES
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Per Tier 1 guidelines the result is negated
(3) All concentrations later negated by NJDEP
(4) Only those parameters listed showed concentrations above ND.
All other parameters were either ND or NA.
(5) Sampling performed by RMT per NJDEP request letter dated Jan 28, 1998
VOCs and Base Neutrals ONLY (EPA 624 and 625 respectively)
(6) The PCB sample (SW-4) was collected May 9, 1989

LABORATORY QUALIFIERS
J: Detected below reporting limit or is an estimated concentration
P: Compound detected in laboratory method blank
B: Analyte found in laboratory blank as well as sample

Section 6
Site Investigation and Remedial Actions

The following section briefly outlines additional activities and scope(s) of work performed at various on-site areas of environmental concern during second quarter 2003 and provides a brief discussion of activities anticipated for completion during third quarter 2003.

6.1 Free Product

In December 2001, RMT conducted a subsurface investigation to further investigate viable free product remedial technologies as outlined in the NJDEP approved workplan and amendment entitled Workplan to Evaluate Free Product Remedial Strategies (RMT, November 2001), and Amendment to Workplan to Evaluate Free Product Remedial Strategies (RMT, November 2001). Results of this investigation were submitted to USEPA and NJDEP in the document entitled Findings & Recommendations Regarding a Conceptual Free-Product Remediation Strategy in March 2002. NJDEP and USEPA comments were provided in the NJDEP letter dated July 26, 2002. Written responses to the comments outlined in the July 26, 2002 letter were provided to NJDEP and USEPA in the RMT response letter dated October 22, 2002. No written regulatory response has been provided to date, but all of the issues described in the comments and response letters were addressed at the meeting held in Edison New Jersey on September 19, 2002. Both the NJDEP and USEPA verbally approved the conceptual approach to free product remediation during that meeting. As such, RMT on behalf of LEC is committed to the preparation of a RAWP outlining both the engineering and design of the conceptual approach, and the various requirements (*i.e.*, plans, permits and approvals) needed to implement the remedy on-site. As was requested in the NJDEP letter dated January 22, 2003, RMT submitted on March 4, 2003 a detailed schedule of all activities anticipated through remedial mobilization tentatively set at August 31, 2004.

6.2 Lead in Soils

In November 2001, RMT conducted a subsurface investigation as outlined in the Revised Workplan for Delineating and Characterizing Elevated Lead Concentrations in Soil (RMT, May 2001) to delineate the extent of on-site lead contamination in soils. Results of this investigation were submitted to USEPA and NJDEP in the document entitled Nature and Extent of Lead in Soils and Groundwater in March 2002. NJDEP and USEPA comments were provided in the NJDEP letter dated July 26, 2002. Written responses to the comments outlined in the July 26, 2002 letter were discussed at the September 19, 2002 meeting and also provided to NJDEP and

USEPA in the RMT response letter dated October 22, 2002. As was required in the NJDEP letter dated January 22, 2003, RMT on behalf of LEC, submitted the report entitled Focused Feasibility Study Lead-Impacted Soil Remediation (RMT, February 2003) so an Explanation of Significant Difference (ESD) can be prepared by NJDEP and USEPA documenting and approving this significant change in the current ROD remedial approach for lead soils of excavation and off-site disposal to excavation and on-site beneficial reuse. Draft NJDEP and USEPA comments were received on July 2, 2003. Comment review and response is anticipated during third quarter 2003.

Appendix A
Report Certification

REPORT CERTIFICATION
PURSUANT TO N.J.A.C. 7:26E-1.5

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement, which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Mr. Cristopher R. Anderson

PRINTED NAME

Director, Environmental Services

TITLE

L.E. Carpenter & Company

COMPANY

Cristopher Anderson

SIGNATURE

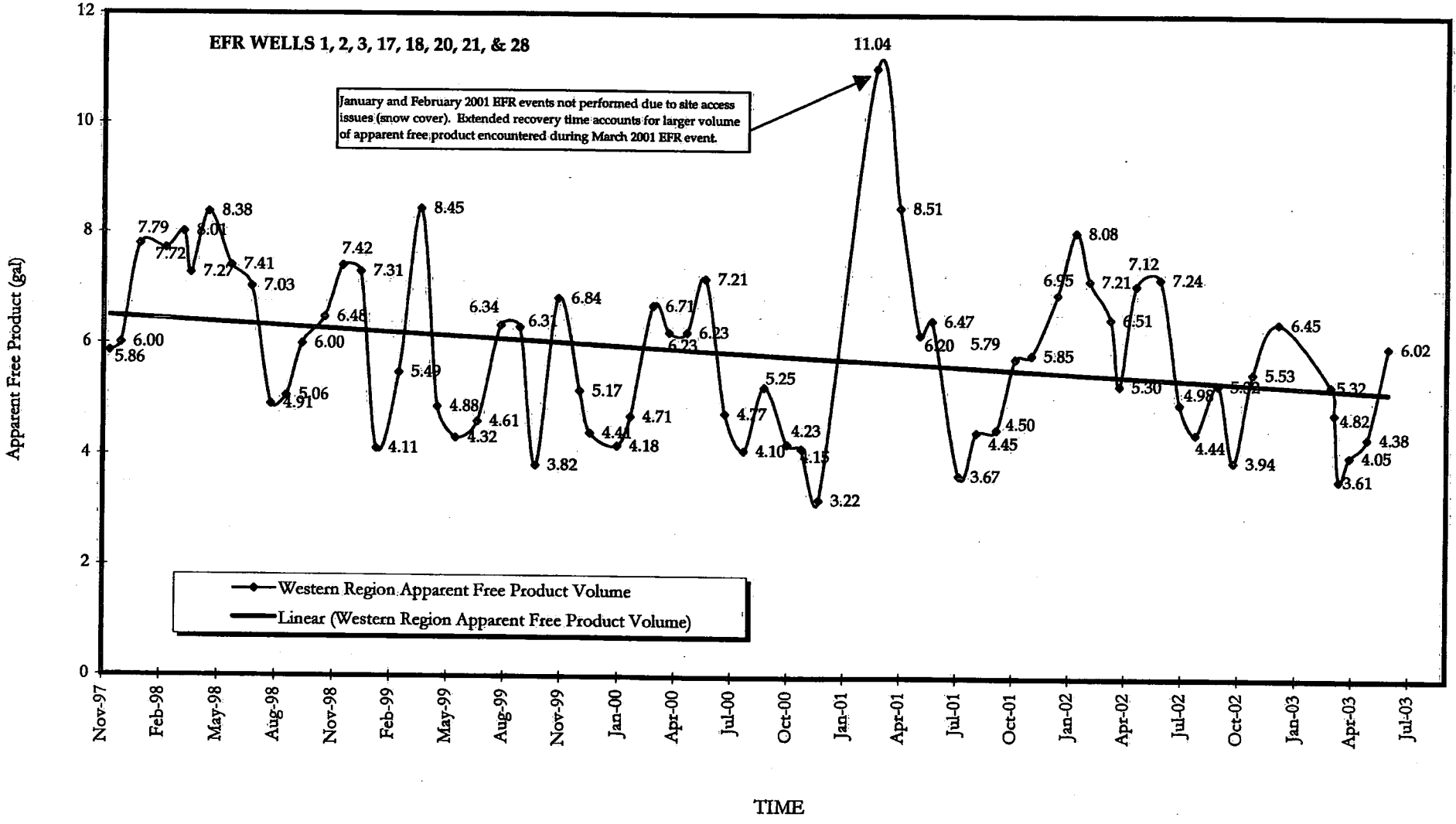
7/30/03

DATE

Appendix B
Apparent Free Product Volume Trend Charts

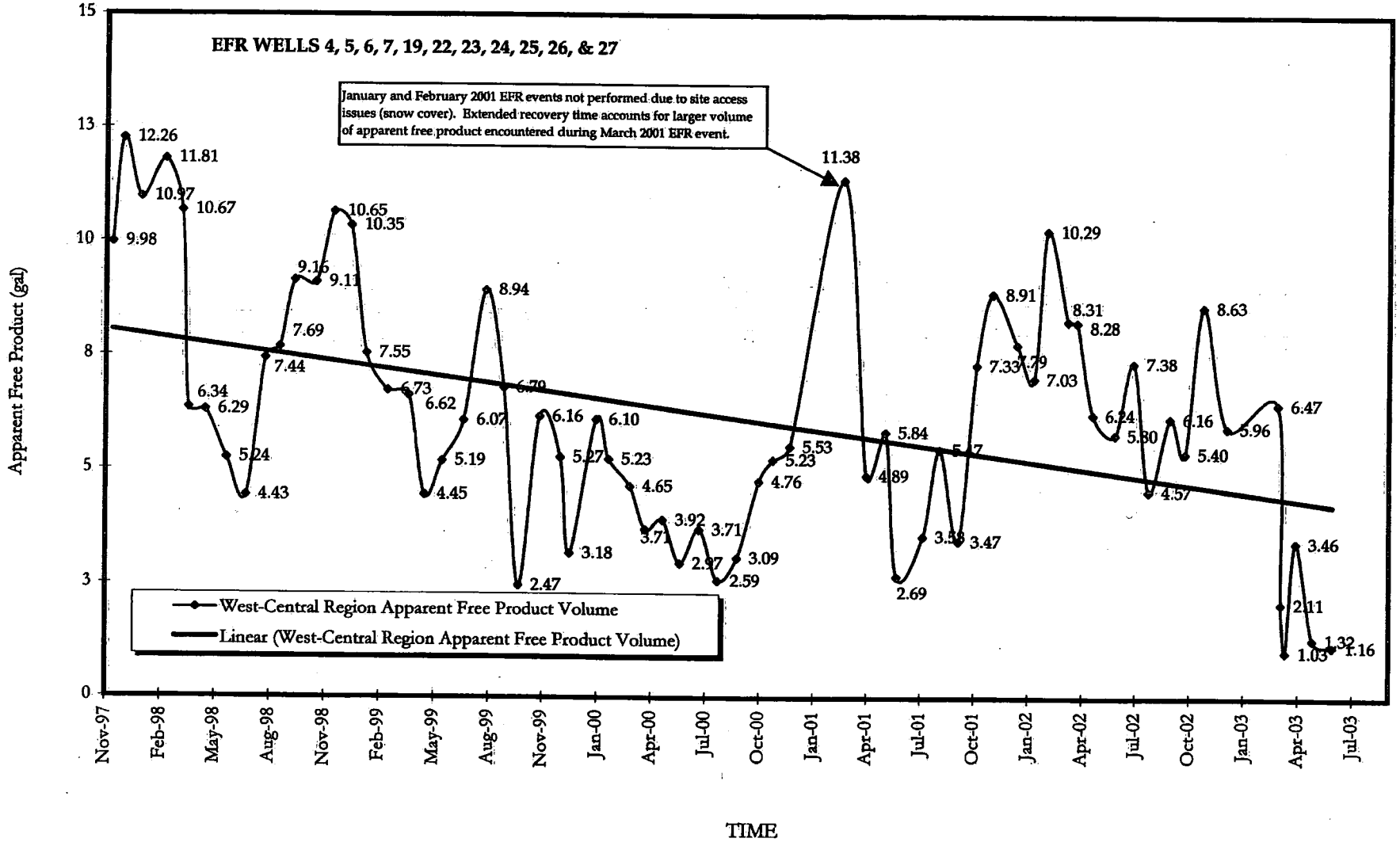
L.E. Carpenter and Company
Western Region of Free Product

Apparent Free Product Volume vs. Time
Through 2nd Quarter 2003



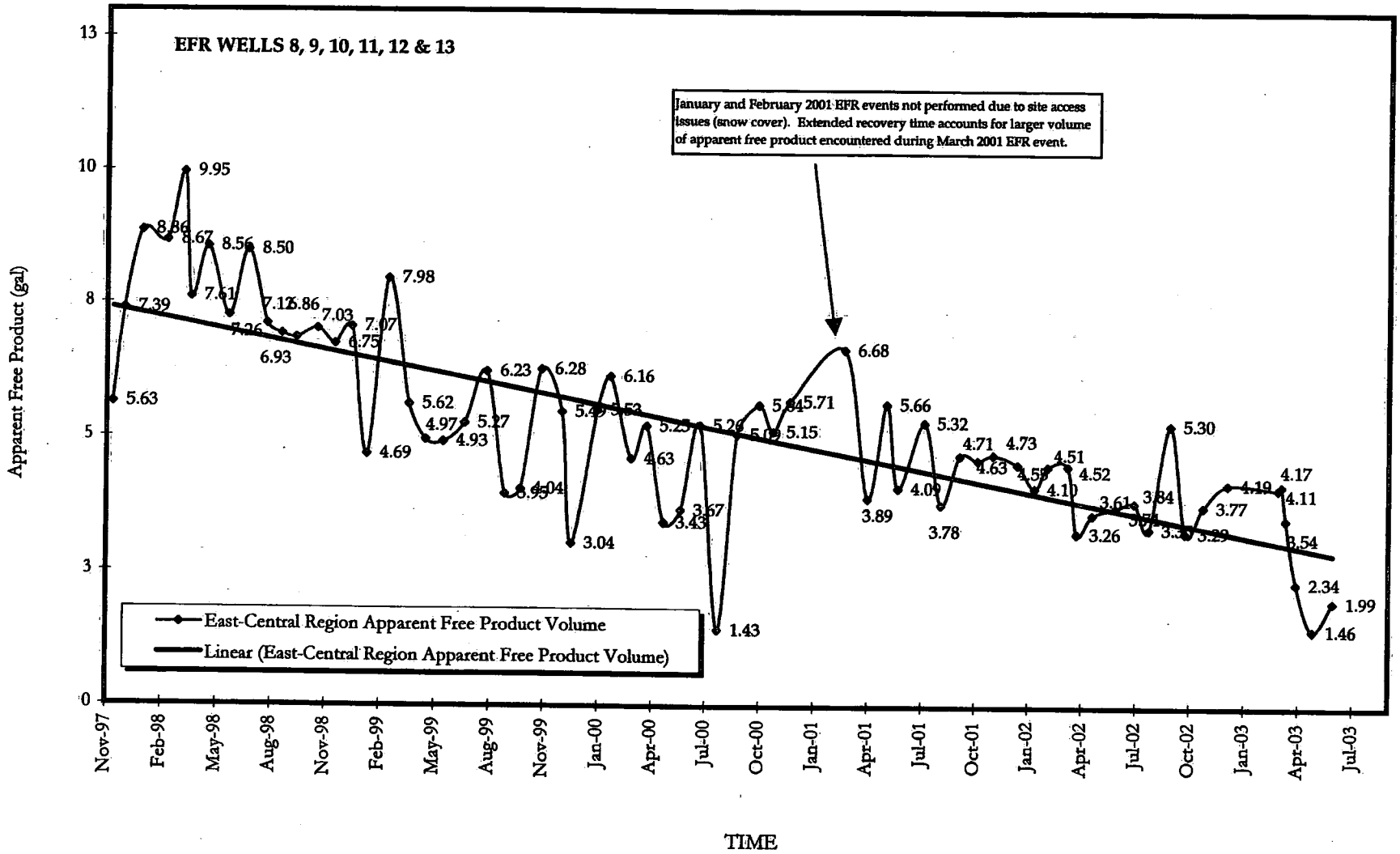
L.E. Carpenter and Company
Western Region of Free Product

Apparent Free Product Volume vs. Time
Through 2nd Quarter 2003



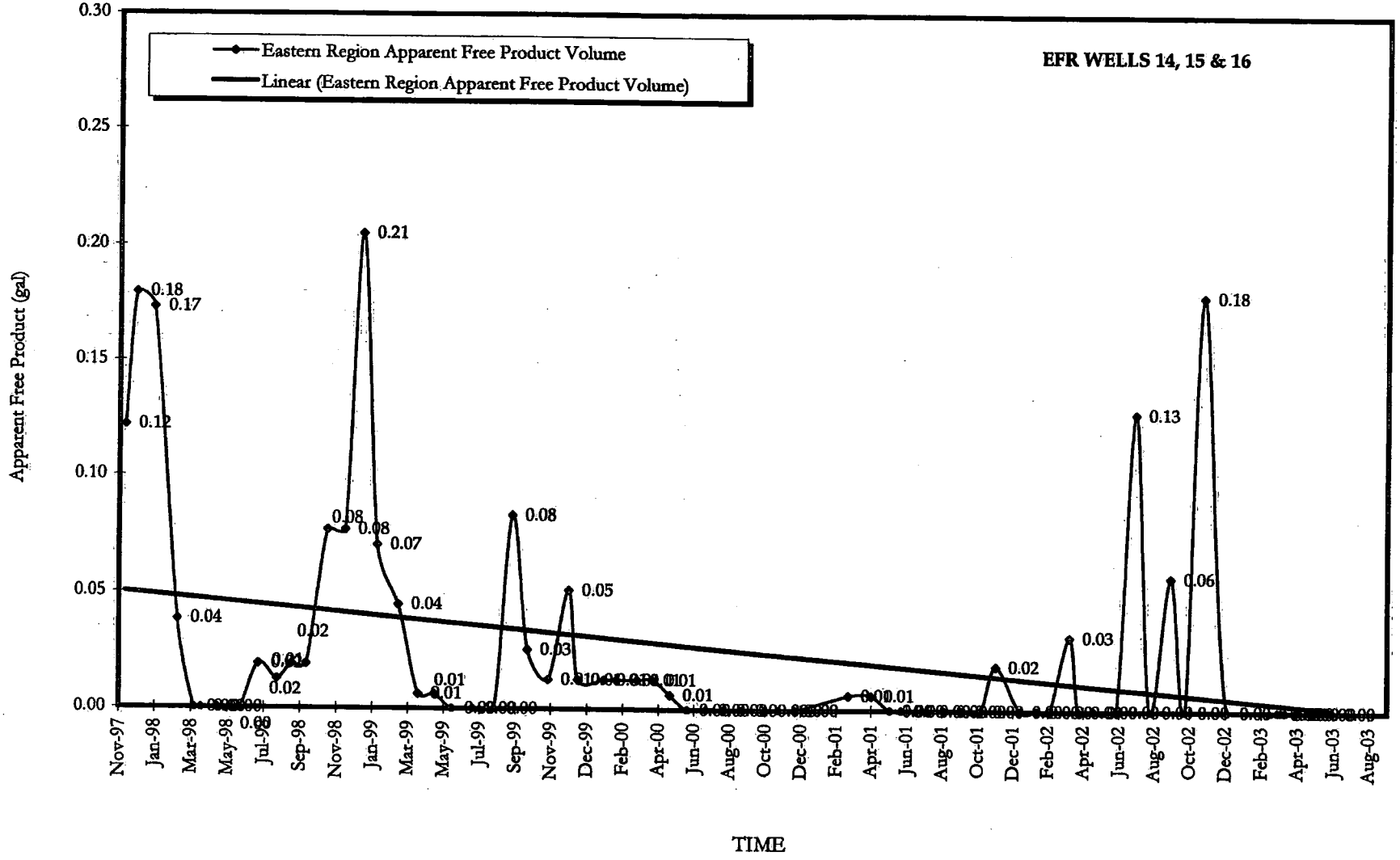
L.E. Carpenter and Company
Western Region of Free Product

Apparent Free Product Volume vs. Time
Through 2nd Quarter 2003



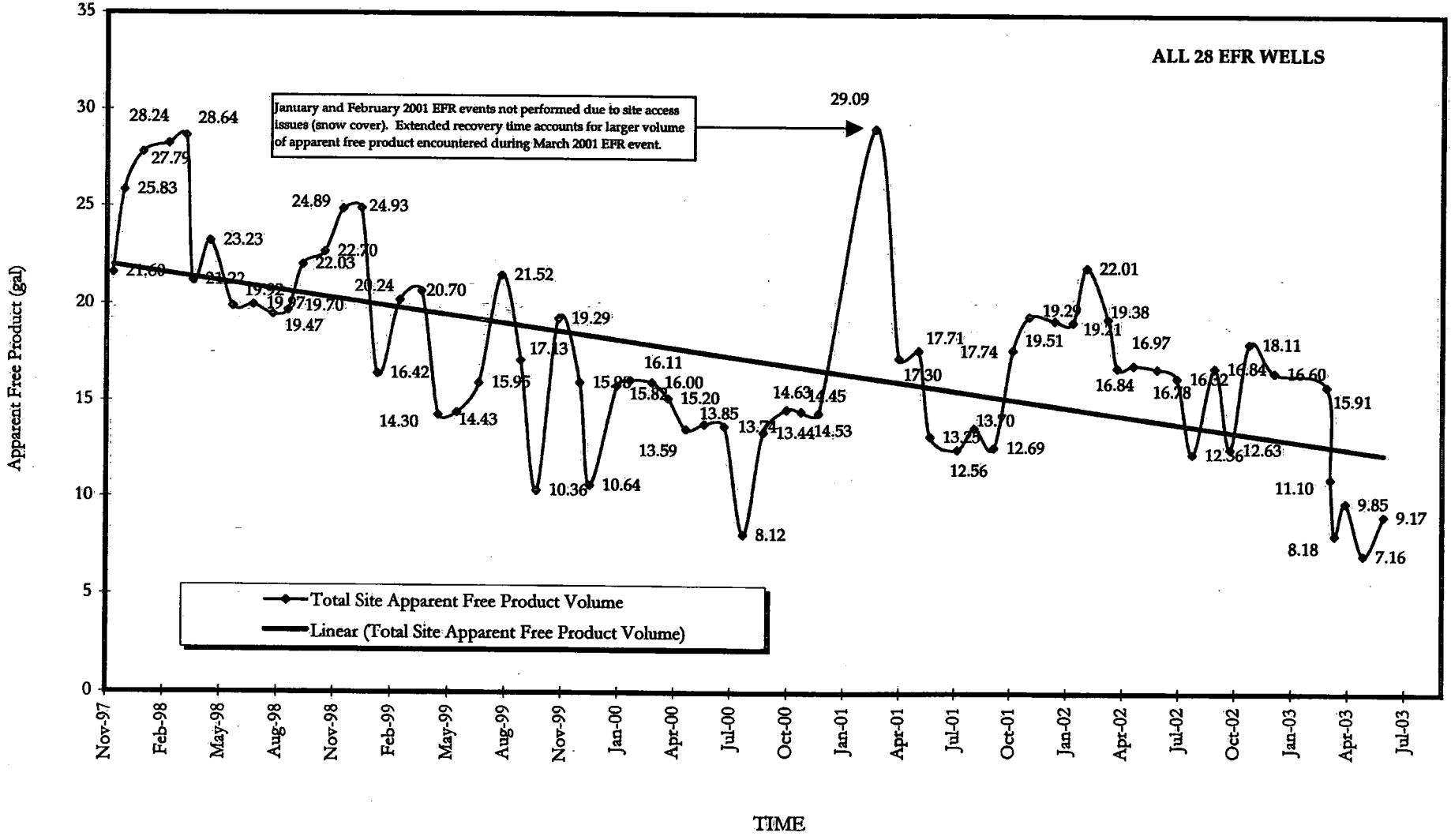
L.E. Carpenter and Company
Western Region of Free Product

Apparent Free Product Volume vs. Time
Through 2nd Quarter 2003



L.E. Carpenter and Company
Western Region of Free Product

Apparent Free Product Volume vs. Time
Through 2nd Quarter 2003



Appendix C
2nd Quarter 2003 Monitoring Well Sampling Data

RMT INC.

PROJECT NAME:	LEC
PROJECT NUMBER:	00-03868.35
LOCATION:	Wharton, NJ
DATES OF FIELD WORK:	6-2-03 to 6-4-03
PURPOSE OF FIELD WORK:	2nd Q 2003 groundwater sampling
WORK PERFORMED BY:	John Mihalich Sarah Lapka

Signed

6-10-03
Date

QC'd By

6/18/03
Date

RMT

GENERAL NOTES

PROJECT NAME: LEC
DATE: 6-2-03
PROJECT NUMBER: 60-03868.35
AUTHOR: JPM
TIME ARRIVED ON SITE: 8:30
TIME LEFT SITE: 18:45

WEATHER:
Temperature: 70's F° Wind: — MPH Visibility: clear

WORK/SAMPLING PERFORMED: water levels from all wells (except MW-23 because we did not have key); water levels from all surface water locations; sampled SW-8, SW-5 and SW-7; sampled MW-21, MW-25, MW-22.

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:
no key to MW-23; will use bolt cutter tomorrow and replace the lock.

COMMUNICATIONS:

Name/Representing: Dave Condon, LEC

Subject/Comments: site access

QC: dDemarde 6/19/03

RMT

GENERAL NOTES

PROJECT NAME: LEC DATE: 6-3-03
PROJECT NUMBER: 00-03868.35 AUTHOR: JPM
TIME ARRIVED ON SITE: 7:00 TIME LEFT SITE: 18:20

WEATHER:
Temperature: 60's F° Wind: — MPH Visibility: clear

WORK/SAMPLING PERFORMED: sampled MW-14I, MW-14S, MW-4, MW-11D, MW-17S, MW-15I; water level from MW-23 and replaced lock; collected field blanks at MW-4; collected rinsate after MW-4; collected duplicate and MS/MSD at MW-15I.

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:
Difficulty stabilizing MW-15I; sampled after 1 hr 35 minutes of pumping; turbidity was not within 10%, but it was low. (10 or less).

COMMUNICATIONS:

Name/Representing: none

Subject/Comments:

QC: [illegible] 6/19/03

RMT

GENERAL NOTES

PROJECT NAME: LEC DATE: 6-4-03

PROJECT NUMBER: 00-038683 5 AUTHOR: JPM

TIME ARRIVED ON SITE: 7:00 TIME LEFT SITE: 9:35

WEATHER:
Temperature: 50's F° Wind: 10 MPH Visibility: heavy rain

WORK/SAMPLING PERFORMED: sampled MW-15 S; packed samples; cleaned equipment.

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

none

COMMUNICATIONS:

Name/Representing: none

Subject/Comments:

QC: [illegible] 6/19/03

Turbidity Meter

MODEL: Pocket Turbidimeter **SERIAL NO.:** 02050000442

Date / Time	Pre-Calibration 1 NTU Reading	Post-Calibration 1 NTU Reading	Pre-Calibration ~~10~~ 20 NTU Reading	Post-Calibration ~~10~~ 20 NTU Reading
6/2/03, 12:10	0.4	1.0	27.0	20.1
6/3/03, 7:50	1.8	1.1	20.2	19.9
6/3/03, 13:45	1.3	1.0	18.2	20.0
6/4/03, 7:45	1.5	1.1	21.5	20.2

Calibration Solution Lot Number: A2067 (1) A2093 (20) Calibration Range for Solution N/A

Problems/Corrective Actions:

Signed 6-10-03 Date Reviewed By 6/19/03 Date

METER CALIBRATION LOG

PROJECT NAME: LE Carpenter DATE: 6-2-03

PROJECT NUMBER: 00-03868.35 SAMPLER NAME: JPM

MODEL: MP20 SERIAL NO.: N/A DEVICE OWNER: LEC

pH CALIBRATION

Date / Time	pH 4 Pre-Calibration Reading	pH 4 Post Calibration Reading	pH 7 Pre-Calibration Reading	pH 7 Post Calibration Reading	pH 10 Pre-Calibration Reading	pH 10 Pre-Calibration Reading
6-2-03/12:16	(4.31 / 4.00)	(4.00 / 4.00)	(7.39 / 7.00)	(7.00 / 7.00)	(10.26 / 10.00)	(10.00 / 10.00)
6/3/03, 7:44	(3.66 / 4.00)	(4.00 / 4.00)	(6.78 / 7.00)	(7.00 / 7.00)	(9.70 / 10.00)	(10.00 / 10.00)
6/3/03, 13:30	(4.33 / 4.00)	(4.00 / 4.00)	(7.17 / 7.00)	(7.00 / 7.00)	(10.08 / 10.00)	(10.00 / 10.00)
6/4/03, 7:35	(3.79 / 4.00)	(4.00 / 4.00)	(6.90 / 7.00)	(7.00 / 7.00)	(9.86 / 10.00)	(10.00 / 10.00)
	(/ 4.00)	(/ 4.00)	(/ 7.00)	(/ 7.00)	(/ 10.00)	(/ 10.00)
	(/ 4.00)	(/ 4.00)	(/ 7.00)	(/ 7.00)	(/ 10.00)	(/ 10.00)
	(/ 4.00)	(/ 4.00)	(/ 7.00)	(/ 7.00)	(/ 10.00)	(/ 10.00)
	(/ 4.00)	(/ 4.00)	(/ 7.00)	(/ 7.00)	(/ 10.00)	(/ 10.00)

Buffer Lot Numbers: pH 4: N/A pH 7: N/A pH 10: N/A, Solution Source Pine Environmental

CONDUCTIVITY CALIBRATION

Date / Time	Conductivity Solution (units)	Pre-Calibration Reading (units)	Post-Calibration Reading (units)
6/2/03, 12:16	µS/cm (20°)	87	65
6/3/03, 7:44	µS/cm (14°)	24.1	59
6/3/03, 13:30	µS/cm (16°)	30.1	60
6/4/03, 7:35	µS/cm (10°)	35.2	50

Calibration Solution Lot Number: 11212 Calibration Range for Solution 39.9 - 113.8

Problems/Corrective Actions:

Signed 6-10-03 Date Reviewed By 6/19/03 Date

RMT

WATER LEVEL DATA

PROJECT NAME L.E. Carpenter

DATE: 6/2/03

PROJECT NUMBER: 00-03868.35

SAMPLER: SSL

Well ID	Time	Top of Casing Elevation	Historical Depth to Water	Depth to Product (feet)*	Depth to Water (feet)**	Depth to Bottom (feet)	Water Elev (MSL)
WP-C1	9:52				5.63		
WP-C2	9:58				6.67		
WP-C3	9:50				4.68		
WP-C4	10:00				4.80		
WP-A3	10:10				4.74		
WP-B6	14:48				4.88		
WP-B7	14:57				3.50		
WP-B10	14:28				5.88		
MW-19	10:36				8.26		
MW-19-1	10:53				7.60		
MW-19-2	10:58				8.70		
MW-19-3	10:47				8.93		
MW-19-4	10:43				6.77		
MW-19-5	10:33				8.22		
MW-19-6	11:24				8.38		
MW-19-7	13:55				7.86		
MW-19-8	11:13				8.16		
MW-19-9D	11:19				8.19		
GEI-1I	13:38				5.79		
GEI-2S	10:27				9.75		
GEI-2I	10:30				9.90		
GEI-3	14:15				11.82		

* Note the Presence of Sheen as an "S"

* All Water Levels Must Include Reference Point and Tape Correction factor, i.e., 1.1 + 0.00 T/PVC.

TYPE OF MEASURING DEVICE: Solinst water level meter

Signed

6/2/03
Date

QC'd By

6/19/03
Date

WATER LEVEL DATA

PROJECT NAME L.E. Carpenter

DATE: 6/2/03

PROJECT NUMBER: 00-03868.35

SAMPLER: SSL

Well ID	Time	Top of Casing Elevation	Historical Depth to Water	Depth to Product (feet)*	Depth to Water (feet)**	Depth to Bottom (feet)	Water Elev (MSL)
MW-4	14:36				5.42		
* MW-8	~~14:38SL~~	14:40			4.00		
MW-9	14:38				3.90		
MW-12R	9:55				6.42		
MW-14S	15:00				2.66		
MW-14I	14:56				1.78		
MW-15S	10:13				9.42		
MW-15I	14:11				9.45		
MW-16S	10:23				4.89		
MW-16I	10:21				7.87		
MW-17S	9:40				6.69		
MW-18S	13:40				4.71		
MW-18I	13:43				4.05		
MW-20	11:04				9.45		
MW-21	15:34				2.70		
MW-22R	14:02				2.38		
MW-25	14:08				2.05		
MW-26	14:30				6.56		
~~BW-3~~							
SGR-1	14:18				2.44		
SGR-2	14:22				2.02		
SGR-3	14:09				1.50		

* Note the Presence of Sheen as an "S"

* All Water Levels Must Include Reference Point and Tape Correction factor, i.e., 1.1 + 0.00 T/PVC.

TYPE OF MEASURING DEVICE: Solinst water level meter

Signed: [signature] 6/2/03 Date

[signature] 6/29/03 QC'd By Date

* measured from T of outer casing. Inner casing is 1.83' lower than outer.

RMT

WATER LEVEL DATA

PROJECT NAME L.E. Carpenter

DATE: 6/2/03

PROJECT NUMBER: 00-03868.35

SAMPLER: SSL

Well ID	Time	Top of Casing Elevation	Historical Depth to Water	Depth to Product (feet)*	Depth to Water (feet)**	Depth to Bottom (feet)	Water Elev (MSL)
MW-11IR	14:23				6.35		
MW-11DR	14:25			SL	~~3~~ 4.08		
SG-D1	12:01			SL	~~1.51~~	2.50	
SG-D2	12:35				0.50		
SG-D3	12:30			SL	~~2.50~~	1.51	
MW-13R	11:53				4.16		
MW-13S	11:54				3.38		
MW-13I	11:52				3.97		
-W3 ~~MW23~~	14:46				6.35		
6/3/03 MW23	12:07				2.49		
	→ MW-23 measured on 6-3-03 because we were not provided w/ key to well lock. We replaced the lock after breaking it off.						

* Note the Presence of Sheen as an "S"

* All Water Levels Must Include Reference Point and Tape Correction factor, i.e., 1.1 + 0.00 T/PVC.

TYPE OF MEASURING DEVICE: Solinst water level meter

Signed [signature] Date 6-16-03

QC'd By [signature] Date 6/19/03

RMT

WATER LEVEL DATA

PROJECT NAME L.E. Carpenter

DATE: 6-2-03

PROJECT NUMBER: 00-03868.35

SAMPLER: JPM

Well ID	Time	Top of Casing Elevation	Historical Depth to Water	Depth to Product (feet)*	Depth to Water* (feet)*	Depth to Bottom (feet)	Water Elev.* (MSL)
WP-A1	1122			8.21	10.06		
WP-A2	1128			—	11.75		
WP-A4	10:42			7.87	11.18		
WP-A5	10:40			—	9.25		
WP-A6	10:46			—	9.96		
WP-A7	10:52			7.30	8.11		
WP-A8	10:34			10.50	12.05		
WP-A9	10:49			11.06	12.04		
WP-B1	10:28			5.40	5.55		
WP-B2	9:39			—	5.14		
WP-B3	JPM ~~9:40~~	10:25	—	JPM ~~5.69~~	~~8.36~~	JPM 5.58	
WP-B4	9:42			5.69	8.36		
WP-B5	9:48			—	4.38		
RW-1	11:09			—	9.89 (inner casing)	10.39 (outer)	
RW-2	10:13			—	5.12		
RW-3	JPM 10:07			JPM ~~5.65~~	5.65		
CW-1	~~9:53~~	10:00		~~6.22~~	~~12.18~~	JPM 5.75	
MW-1R	11:15			8.20	9.32		
MW-2R	10:16			—	5.60		
MW-3	10:17			5.88	6.17		
MW-6R	10:21			—	4.82		
MW-11S	9:53			6.22	12.18		

* Note the Presence of Sheen as an "S"

* All Water Levels Must Include Reference Point and Tape Correction factor, i.e., 1.1 + 0.00 T/PVC.

TYPE OF MEASURING DEVICE: Solinst Interface Meter Model 122

Signed — Date 6-10-03

QC'd By Overmyerde — Date 6/19/03

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC WELL NUMBER: SW8

PROJECT NUMBER: 00-03868.35 WELL DIAMETER: N/A

DATE: 6/2/03 SAMPLER: JRM/SSZ

Type of pump used: NA

Pumping rate (milliliters/minute): NA

Water level before purging (nearest 0.01 ft. below reference point) ~~NA~~ + T/

Depth to bottom of well (obtained from well logs) ~~+NA~~ T/

Calculated volume of water in casing ~~NA~~

Weather conditions partly sunny; warm (70s); calm

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) ~~%~~	ORP mV	Temp. (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
12:25	~~NA~~	7.92	893	3.4	6.85	51	17.79	~~NA~~	~~NA~~

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed 6/2/03 Date QC'd By 6/19/03 Date

RMT

WATER SAMPLE LOG

Sheet 12 of 39

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2003 Sampling
SAMPLER NAME 1: JPM	SAMPLER NAME 2: SSL	PROJECT NO: 0003868.35
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6-2-03	SAMPLE TIME: 12:25

WELL INFORMATION	~~WELL ID:~~ SW-8	WELL DIAMETER: ~~NA~~
WELL MATERIAL: NA	WELL CONDITIONS: NA	
STATIC WATER LEVEL: NA	TOTAL DEPTH: NA	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: ~~low flow~~ JPM grab (use purge form)	
SAMPLING PUMP: ~~QED submersible pump~~ JPM	PNEUMATIC SOURCE NA	
BLADDER TYPE: PE NA (new ~~used~~)	JPM	
TUBING TYPE: PE NA	TUBING CONDITION: ~~good~~ JPM	HOW STORED: NA
WATER QUALITY METER TYPE: MP20 Flow Cell	CALIBRATION DATE / TIME 6-2-03 12:10 12:16	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 6.85 UNITS mg/L	FINAL ORP 51 UNITS mV	FINAL TURBIDITY: 3.4 NTU
FINAL PH: 7.92	FINAL COND. 893 uS/cm	FINAL TEMP.: 17.79°C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: N/A
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES:
A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- sodium thiosulfate

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	VOA	E	☐Y ☒N					☐Y ☐N
2	500 ml	amber	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 002372 DATE SHIPPED: 6-4-03 METHOD: courier

AIRBILL NUMBER: N/A SIGNED: [signature] DATE: 6-10-03

[signature] 6/18/03

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC WELL NUMBER: SW5

PROJECT NUMBER: 00-03868.35 WELL DIAMETER: N/A

DATE: 6/2/03 SAMPLER: JPM/[illegible]

Type of pump used: ~~NA~~

Pumping rate (milliliters/minute): ~~NA~~

Water level before purging (nearest 0.01 ft. below reference point) ~~NA~~ + T/

Depth to bottom of well (obtained from well logs) ~~NA~~ + T/

Calculated volume of water in casing ~~NA~~

Weather conditions partly sunny; warm (70s); calm

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp. (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
12:35	~~NA~~	7.26	896	7.3	7.94	12	20.28	~~NA~~	~~NA~~

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed 6-10-03 Date QC'd By 6/19/03 Date

RMT

WATER SAMPLE LOG

Sheet 14 of 39

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2003 Sampling
SAMPLER NAME 1: JPM	SAMPLER NAME 2: SSL	PROJECT NO: 0003868.35
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6-2-03	SAMPLE TIME: 12:35

WELL INFORMATION	~~WELL ID:~~ SW-5	WELL DIAMETER: ~~NA~~
WELL MATERIAL: ~~NA~~	WELL CONDITIONS: ~~NA~~	
STATIC WATER LEVEL: ~~NA~~	TOTAL DEPTH: ~~NA~~	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____ ☐ EQUIP. COATING ☐ PURGE WATER		

SAMPLE METHOD	PURGE METHOD: ~~low flow~~ grab	(use purge form)
SAMPLING PUMP: ~~QED submersible pump~~ NA	PNEUMATIC SOURCE	
BLADDER TYPE: ~~PE~~ ~~NA~~ (new / used)		
TUBING TYPE: ~~PE~~ ~~NA~~	TUBING CONDITION: ~~good~~ ~~NA~~	HOW STORED: ~~NA~~
WATER QUALITY METER TYPE: MP20 Flow Cell	CALIBRATION DATE / TIME 6-2-03 12:10 12:16	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 7.94 UNITS mg/L	FINAL ORP 12 UNITS mV	FINAL TURBIDITY: 7.3
FINAL PH: 7.26	FINAL COND. 896 uS/cm	FINAL TEMP.: 20.28°C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: N/A
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES:
A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- sodium thiosulfate

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	VOA	E	☐Y ☒N					☐Y ☐N
2	500 ml	amber	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0023272 DATE SHIPPED: 6-4-03 METHOD: courier

AIRBILL NUMBER: N/A SIGNED: [signature] DATE: 6-10-03

AD 6/29/03

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC WELL NUMBER: SW7

PROJECT NUMBER: 00-03868.35 WELL DIAMETER: NA

DATE: 6/2/03 SAMPLER: JPM/SGL

Type of pump used: ~~NA~~

Pumping rate (milliliters/minute): ~~NA~~

Water level before purging (nearest 0.01 ft. below reference point) ~~NA~~ + T/

Depth to bottom of well (obtained from well logs) ~~NA~~ + T/

Calculated volume of water in casing ~~NA~~

Weather conditions partly sunny; warm (70s); calm

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) ~~or %~~	ORP mV	Temp. (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
12:45	~~NA~~	7.88	1039	4.2	7.65	-29	19.39	~~NA~~	~~NA~~

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed 6-10-03 Date QC'd By 6/19/03 Date

RMT

WATER SAMPLE LOG

Sheet 16 of 39

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2003 Sampling
SAMPLER NAME 1: JPM	SAMPLER NAME 2: SSL	PROJECT NO: 0003868.35
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6-2-03	SAMPLE TIME: 12:45

WELL INFORMATION	~~WELL ID:~~ SW-7	WELL DIAMETER: ~~NA~~
WELL MATERIAL: ~~NA~~	WELL CONDITIONS: ~~NA~~	
STATIC WATER LEVEL: ~~NA~~	TOTAL DEPTH: ~~NA~~	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____ ☐ EQUIP. COATING ☐ PURGE WATER		

SAMPLE METHOD	PURGE METHOD: ~~low flow~~ grab (use purge form)	
SAMPLING PUMP: ~~QED submersible pump~~	PNEUMATIC SOURCE ~~NA~~	
BLADDER TYPE: ~~PE NA~~ (new / used)		
TUBING TYPE: ~~PE NA~~	TUBING CONDITION: ~~good NA~~	HOW STORED: ~~NA~~
WATER QUALITY METER TYPE: MP20 Flow Cell	CALIBRATION DATE / TIME 6-2-03 12:10 12:16	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 7.65 UNITS mg/L	FINAL ORP -29 UNITS mV	FINAL TURBIDITY: 4.2
FINAL PH: 7.88	FINAL COND. 1039 uS/cm	FINAL TEMP.: 19.39°C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: N/A
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES:
A - None B - HNO3 C - H_2SO_4 D - NaOH E - HCL F- sodium thiosulfate

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	VOA	E	☐Y ☒N					☐Y ☐N
2	500 ml	amber	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0023272 DATE SHIPPED: 6-4-03 METHOD: courier

AIRBILL NUMBER: N/A SIGNED: [signature] DATE: 6-10-03

OD 6/19/03

R 10
D 10 15 psi

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC **WELL NUMBER:** MW21
PROJECT NUMBER: 00-03868.35 **WELL DIAMETER:** 4"
DATE: 6/2/03 **SAMPLER:** JPM
Type of pump used: Submersible bladder
Pumping rate (milliliters/minute): 300
Water level before purging (nearest 0.01 ft. below reference point) 2.70 + T/
Depth to bottom of well (obtained from well logs) 15.07 NA T/
Calculated volume of water in casing 2.00 gal
Weather conditions Sunny, warm, 70s

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) ~~Lo~~	ORP mV	Temp. (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
15:37	300	7.22	577	32.4	2.98	-142	14.51	2.70	—
15:42	↓	7.18	575	3.6	1.33	-158	12.81	2.72	.20
15:47		7.22	575	1.5	0.92	-159	12.86	2.75	.40
15:52		7.23	576	1.2	0.60	-163	12.79	2.76	.60
15:57		7.25	576	0.5	0.50	-168	12.62	2.78	.80
16:02		7.24	576	0.6	0.43	-168	12.59	2.78	1.00
16:07		7.20	575	0.7	0.39	-171	12.43	2.71	1.20

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed: [signature] 6-1-03 Date — QC'd By: [signature] 6/19/03 Date

RMT

WATER SAMPLE LOG

Sheet 18 of 39

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2003 Sampling
SAMPLER NAME 1: JPM	SAMPLER NAME 2: SSL	PROJECT NO: 0003868.35
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6-2-03	SAMPLE TIME: 16:07

WELL INFORMATION	WELL ID: MW 21	WELL DIAMETER: 4"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 2.70	TOTAL DEPTH: 15.00	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD:	PURGE METHOD: low flow	(use purge form)
SAMPLING PUMP: QED submersible pump	PNEUMATIC SOURCE portable compressor	
BLADDER TYPE: PE	(new) ~~[illegible]~~ 20m	
TUBING TYPE: PE	TUBING CONDITION: good	HOW STORED: In well
WATER QUALITY METER TYPE: MP20 Flow Cell	CALIBRATION DATE / TIME 6-2-03 12:10 12:16	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. ~~2.98~~ 0.39 UNITS mg/L	FINAL ORP -171 UNITS mV	FINAL TURBIDITY: 0.7
FINAL PH: 7.20	FINAL COND. 575 uS/cm	FINAL TEMP.: 12.43°C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: N/A
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- sodium thiosulfate

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
3	40 ml	VOA	E	☐Y ☒N					☐Y ☐N
2	500 ml	amber	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0023272 DATE SHIPPED: 6-4-03 METHOD: courier

AIRBILL NUMBER: N/A SIGNED: [signature] DATE: 6-10-03

[signature] 6/19/03

RMT

R 10
D 10
PSI 15

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC WELL NUMBER: MW25
PROJECT NUMBER: 00-03868.35 WELL DIAMETER: 2"
DATE: 6/2/03 SAMPLER: JPM
Type of pump used: Submersible bladder
Pumping rate (milliliters/minute): 300
Water level before purging (nearest 0.01 ft. below reference point) 2.08 + T/
Depth to bottom of well (obtained from well logs) 10.00 T/
Calculated volume of water in casing 1.29 gal
Weather conditions sunny; warm (70s); calm

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp. (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
16:45	300	6.97	623	195	4.87	-72	16.93	2.08	—
16:50	↓	6.76	657	192	3.97	-107	13.12	2.06	.20
16:55	↓	6.73	657	191	3.41	-120	12.96	2.06	.40
17:00	↓	6.78	658	178	3.23	-121	12.90	2.07	.60

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed 6-10-03 Date dDevenoorde QC'd By 6/19/03 Date

RMT

WATER SAMPLE LOG

Sheet 20 of 39

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2003 Sampling
SAMPLER NAME 1: JPM	SAMPLER NAME 2: SSL	PROJECT NO: 0003868.35
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6-2-03	SAMPLE TIME: 17:00

WELL INFORMATION	WELL ID: MW-25	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 2.08	TOTAL DEPTH: 10.00	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____ ☐ EQUIP. COATING ☐ PURGE WATER		

SAMPLE METHOD	PURGE METHOD: low flow (use purge form)	
SAMPLING PUMP: QED submersible pump	PNEUMATIC SOURCE portable compressor	
BLADDER TYPE: PE (new) ~~used~~	OPM	
TUBING TYPE: PE	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: MP20 Flow Cell	CALIBRATION DATE / TIME 6-2-03 12:10 12:16	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 3.23 UNITS mg/L	FINAL ORP -121 UNITS mV	FINAL TURBIDITY: 178
FINAL PH: 6.78	FINAL COND. 658 uS/cm	FINAL TEMP.: 12.90°C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: N/A
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES:
A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- sodium thiosulfate

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	VOA	E	☐Y ☒N					☐Y ☐N
2	500 ml	amber	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0023272 DATE SHIPPED: 6-4-03 METHOD: courier

AIRBILL NUMBER: N/A SIGNED: [signature] DATE: 6-10-03

to 6/19/03

R 10
D 10
PSI 15

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC **WELL NUMBER:** MW22
PROJECT NUMBER: 00-03868.35 **WELL DIAMETER:** 2"
DATE: 6/2/03 **SAMPLER:** JPM / SGL
Type of pump used: submersible bladder - QED
Pumping rate (milliliters/minute): 480
Water level before purging (nearest 0.01 ft. below reference point) 2.55 + T/
Depth to bottom of well (obtained from well logs) 7.5 + T/
Calculated volume of water in casing 0.81 gal
Weather conditions Sunny, warm, 70°

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) ~~or %~~	ORP mV	Temp. (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
17:38	480	6.66	542	68.3	4.18	-94	13.44	2.55	—
17:43		6.65	547	51.6	2.14	-137	11.84	2.55	0.32
17:48		6.67	548	57.5	1.47	-152	11.58	2.55	0.64
17:53		6.67	549	7.7	1.05	-164	11.46	2.55	0.96
17:58		6.68	549	7.5	0.80	-171	11.57	2.55	1.28
18:03		6.65	549	4.4	0.72	-170	11.79	2.56	1.60
18:08		6.69	549	4.1	0.51	-181	11.67	2.55	1.92
18:13		6.63	549	4.5	0.41	-186	11.33	2.55	2.24
18:18		6.73	549	4.5	0.38	-187	11.15	2.55	2.56
18:23		6.69	549	3.8	0.40	-183	11.21	2.55	2.88

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed 6-10-03 Date — Overcarde QC'd By 6/19/03 Date

RMT

WATER SAMPLE LOG

Sheet 22 of 39

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2003 Sampling
SAMPLER NAME 1: JPM	SAMPLER NAME 2: SSL	PROJECT NO: 0003868.35
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6-2-03	SAMPLE TIME: 18:23

WELL INFORMATION	WELL ID: MW-22	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 2.55	TOTAL DEPTH: 7.5	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____ ☐ EQUIP. COATING ☐ PURGE WATER		

SAMPLE METHOD	PURGE METHOD: low flow (use purge form)	
SAMPLING PUMP: QED submersible pump	PNEUMATIC SOURCE portable compressor	
BLADDER TYPE: PE (new / ~~used~~) 28M		
TUBING TYPE: PE	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: MP20 Flow Cell	CALIBRATION DATE / TIME 6-2-03 12:10 12:16	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 0.40 UNITS mg/L	FINAL ORP -183 UNITS mV	FINAL TURBIDITY: 3.8
FINAL PH: 6.69	FINAL COND. 549 uS/cm	FINAL TEMP.: 11.21 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: N/A
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO4 D - NaOH E - HCL F- sodium thiosulfate

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	VOA	E	☐Y ☒N					☐Y ☐N
2	500 ml	amber	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0023272 DATE SHIPPED: 6-4-03 METHOD: courier

AIRBILL NUMBER: N/A SIGNED: [signature] DATE: 6-10-03

6/19/03

R 10 30psi
D 10

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC **WELL NUMBER:** MW14I
PROJECT NUMBER: 00-03868.35 **WELL DIAMETER:** 2"
DATE: 6/3/03 **SAMPLER:** JPM/SSL
Type of pump used: QED submersible bladder
Pumping rate (milliliters/minute): 300
Water level before purging (nearest 0.01 ft. below reference point) 1.85+ T/
Depth to bottom of well (obtained from well logs) 44.3 T/
Calculated volume of water in casing 6.91 gal
Weather conditions 60, Warm, cloudy

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) ~~or %~~	ORP mV	Temp. (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
7:56	300	7.68	297	164	6.95	-29	12.44	1.85	—
8:01	↓	7.70	327	315	3.51	-56	12.08	1.83	.20
8:06		7.76	329	288	2.69	-76	12.14	1.84	.40
8:11		7.79	329	124	2.38	-83	12.19	1.84	.60
8:16		7.80	328	89.6	2.21	-88	12.26	1.84	.80
8:21		7.80	330	73.4	1.90	-94	12.29	1.84	1.00
8:26		7.83	330	34.8	1.84	-97	12.30	1.84	1.20
8:31		7.83	330	35.5	1.79	-99	12.35	1.84	1.40
8:36	↓	7.83	329	34.6	1.76	-100	12.38	1.84	1.60

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed 6/6-03 Date QC'd By 6/19/03 Date

RMT

WATER SAMPLE LOG

Sheet 24 of 39

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2003 Sampling
SAMPLER NAME 1: JPM	SAMPLER NAME 2: SSL	PROJECT NO: 0003868.35
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6-3-03	SAMPLE TIME: 8:36

WELL INFORMATION	WELL ID: MW-14I	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 1.85	TOTAL DEPTH: 44.30	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____ ☐ EQUIP. COATING ☐ PURGE WATER		

SAMPLE METHOD	PURGE METHOD: low flow (use purge form)	
SAMPLING PUMP: QED submersible pump	PNEUMATIC SOURCE MP20 controller	
BLADDER TYPE: PE (new / used)	2PM	
TUBING TYPE: PE	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: MP20 Flow Cell	CALIBRATION DATE / TIME 6-3-03 ~~pm 13:30~~ 7:4 ~~pm 13:45~~ 7:5	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 1.76 UNITS mg/L	FINAL ORP -100 UNITS mV	FINAL TURBIDITY: 34.6
FINAL PH: 7.83	FINAL COND. 329 uS/cm	FINAL TEMP.: 12.38 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: N/A
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

PRESERVATIVE CODES:
A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- sodium thiosulfate

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	VOA	E	☐Y ☒N					☐Y ☐N
2	500 ml	amber	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0023272 DATE SHIPPED: 6-4-03 METHOD: courier

AIRBILL NUMBER: N/A SIGNED: [signature] DATE: 6-10-03

AD 6/19/03

K 10
D 10
PSI 15

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC **WELL NUMBER:** MW145
PROJECT NUMBER: 00-03868.35 **WELL DIAMETER:** 4"
DATE: 6/3/03 **SAMPLER:** JPM/SSL
Type of pump used: QED submersible pump
Pumping rate (milliliters/minute): 240
Water level before purging (nearest 0.01 ft. below reference point) 2.69+ T/
Depth to bottom of well (obtained from well logs) 15.46+ T/
Calculated volume of water in casing 8.33
Weather conditions 60s, cloudy, slight breeze

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) ~~or %~~	ORP mV	Temp (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
9:05	240	7.25	448	66.4	6.51	-60	13.94	2.69	~~0.16~~ 28
9:10		7.15	450	39.8	3.66	-64	12.90	2.72	0.16
9:15		7.12	452	16.1	2.78	-83	12.74	2.69	0.32
9:20		7.16	453	16.2	2.29	-93	12.76	2.69	0.48
9:25		7.12	454	7.5	2.04	-97	12.83	2.74	0.64
9:30		7.13	454	3.5	1.83	-101	12.94	2.72	0.80
935		7.18	455	17.6	1.59	-107	12.96	2.72	0.96
940		7.14	455	17.4	1.33	-114	13.13	2.72	1.12
945		7.16	455	17.1	1.23	-120	13.23	2.72	1.28
950		7.19	455	17.5	1.20	-122	13.21	2.72	1.44

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed 6-10-03 Date QC'd By 6/19/03 Date

RMT

WATER SAMPLE LOG

Sheet 26 of 39

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2003 Sampling
SAMPLER NAME 1: JPM	SAMPLER NAME 2: SSL	PROJECT NO: 0003868.35
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6-3-03	SAMPLE TIME: 9:50

WELL INFORMATION	WELL ID: MW-14S	WELL DIAMETER: 4"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 2.69	TOTAL DEPTH: 15.46	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____ ☐ EQUIP. COATING ☐ PURGE WATER		

SAMPLE METHOD	PURGE METHOD: low flow (use purge form)	
SAMPLING PUMP: QED submersible pump	PNEUMATIC SOURCE MP20 controller	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: PE	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: MP20 Flow Cell	CALIBRATION DATE / TIME 6-3-03 7:44 7:50	

SAMPLE DESCRIPTION	COLOR: Clear	ODOR: none
FINAL D.O. 1.20 UNITS mg/L	FINAL ORP -122 UNITS mV	FINAL TURBIDITY: 17.5
FINAL PH: 7.19	FINAL COND. 455 uS/cm	FINAL TEMP.: 13.21°C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: N/A
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

PRESERVATIVE CODES:
A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- sodium thiosulfate

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	VOA	E	☐Y ☒N					☐Y ☐N
2	500 ml	amber	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0023272 DATE SHIPPED: 6-4-03 METHOD: courier

AIRBILL NUMBER: N/A SIGNED: [signature] DATE: 6-10-03

to 6/19/03

F-186 (REV 09MAY2002)

I:\DATA\PROJECTS\POLYONE\03868.29\WATERSAMPLELOG.DOC 05/27/03

RMT

R 10
D 10
PSI ~~100~~ 15

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC **WELL NUMBER:** MW4
PROJECT NUMBER: 00 03868.35 **WELL DIAMETER:** 2"
DATE: 6/3/03 **SAMPLER:** JPM
Type of pump used: QED submersible bladder
Pumping rate (milliliters/minute): 300
Water level before purging (nearest 0.01 ft. below reference point) 5.43+ T/
Depth to bottom of well (obtained from well logs) 27+ T/
Calculated volume of water in casing 3.52
Weather conditions Warm, 60s, cloudy

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or ~~%~~	ORP mV	Temp. (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
10:31	300	6.65	434	24.3	1.65	-112	14.58	5.43	~~0~~
10:36		6.64	434	14.6	0.54	-143	13.87	5.44	0.20
10:41		6.62	433	10.2	0.33	-164	13.74	5.44	0.40
10:46		6.63	433	10.0	0.27	-174	13.57	5.44	0.60
10:51		6.64	434	10.7	0.23	-184	13.51	5.44	0.80
10:55		6.62	433	10.3	0.19	-194	13.46	5.44	1.00
11:00		6.60	433	10.8	0.18	-196	13.47	5.44	1.20

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed 6/03 Date Dennorde QC'd By 6/19/03 Date

RMT

WATER SAMPLE LOG

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2003 Sampling
SAMPLER NAME 1: JPM	SAMPLER NAME 2: SSL	PROJECT NO: 0003868.35
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6-3-03	SAMPLE TIME: 19:00

WELL INFORMATION	WELL ID: MW-4	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 5.43	TOTAL DEPTH: 27.00	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: low flow	(use purge form)
SAMPLING PUMP: QED submersible pump	PNEUMATIC SOURCE MP20 compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: PE	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: MP20 Flow Cell	CALIBRATION DATE / TIME 6-3-03	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 0.18 UNITS mg/L	FINAL ORP -196 UNITS mV	FINAL TURBIDITY: 10.8
FINAL PH: 6.60	FINAL COND. 433	FINAL TEMP.: 13.47°C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: N/A
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- sodium thiosulfate

Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
3	40 ml	VOA	E	☐Y ☒N					☐Y ☐N
2	500 ml	amber	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0023272 DATE SHIPPED: 6-4-03 METHOD: courier

AIRBILL NUMBER: N/A SIGNED: [signature] DATE: 6-10-03

to 6/19/03

RMT

R 10
D 10
PSI 100

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC **WELL NUMBER:** MW-11D
PROJECT NUMBER: 00-03868.35 **WELL DIAMETER:** 2"
DATE: 6-3-03 **SAMPLER:** JPM
Type of pump used: submersible bladder
Pumping rate (milliliters/minute): 480
Water level before purging (nearest 0.01 ft. below reference point) 400 + T/
Depth to bottom of well (obtained from well logs) 157+ T/
Calculated volume of water in casing 24.94
Weather conditions overcast; cool (60s); calm
Start pumping at 13:35

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) ~~pr~~ %	ORP mV	Temp. (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
13:43	480	7.98	171	4.2	4.07	-9	16.35	4.00	—
13:48	↓	8.02	173	2.3	3.41	-21	15.72	3.96	.32
13:53		8.03	172	2.1	3.21	-25	15.37	3.96	.64
13:58		8.04	173	3.5	3.05	-26	15.29	3.96	.96
14:03		8.05	173	3.7	3.01	-26	15.27	3.96	1.28
14:08		8.06	173	3.5	2.96	-25	15.22	3.96	1.60

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed 6/10-03 Date
QC'd By 6/19/03 Date

RMT

WATER SAMPLE LOG

Sheet 30 of 39

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2003 Sampling
SAMPLER NAME 1: JPM	SAMPLER NAME 2: SSL	PROJECT NO: 0003868.35
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6-3-03	SAMPLE TIME: 14.08

WELL INFORMATION	WELL ID: MW-11D	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 4.00	TOTAL DEPTH: 157	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____ ☐ EQUIP. COATING ☐ PURGE WATER		

SAMPLE METHOD	PURGE METHOD: low flow	(use purge form)
SAMPLING PUMP: QED submersible pump	PNEUMATIC SOURCE AMP20 compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: PE	TUBING CONDITION: good	HOW STORED: storage room
WATER QUALITY METER TYPE: MP20 Flow Cell	CALIBRATION DATE / TIME 6-3-03 13:30 13:45	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 2.96 UNITS mg/L	FINAL ORP -25 UNITS mV	FINAL TURBIDITY: 3.5
FINAL PH: 8.06	FINAL COND. 173 uS/cm	FINAL TEMP.: 15.22 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: N/A
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- sodium thiosulfate

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	VOA	E	☐Y ☒N					☐Y ☐N
2	500 ml	amber	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0023272 DATE SHIPPED: 6-4-03 METHOD: courier

AIRBILL NUMBER: N/A SIGNED: [signature] DATE: 6-10-03

to 6/19/03

RMT

R 10
D 10

PSI 15

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC **WELL NUMBER:** MW175
PROJECT NUMBER: 00-03868.35 **WELL DIAMETER:** 4"
DATE: 6/3/03 **SAMPLER:** JPM/SSL
Type of pump used: QED submersible bladder
Pumping rate (milliliters/minute): 300
Water level before purging (nearest 0.01 ft. below reference point) 6.55 + T/
Depth to bottom of well (obtained from well logs) 15.04 + T/
Calculated volume of water in casing ~~5.54 gal~~ ~~1.39 gal~~
Weather conditions 60, cloudy, windy

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) ~~%~~	ORP mV	Temp. (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
14:42	300	6.10	160	14.8	5.18	-13	14.26	6.55	—
14:47	↓	5.93	160	3.2	4.57	-13	12.89	6.56	.20
14:52	↓	5.95	169	1.8	4.48	-17	12.77	6.55	.40
14:57	↓	6.00	175	1.7	4.36	-19	12.78	6.55	.60
15:02	↓	6.00	175	1.7	4.39	-20	12.71	6.55	.80

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed 6-10-03 Date QC'd By 6/19/03 Date

RMT

WATER SAMPLE LOG

Sheet 32 of 39

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2003 Sampling
SAMPLER NAME 1: JPM	SAMPLER NAME 2: SSL	PROJECT NO: 0003868.35
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6-3-03	SAMPLE TIME: 15:02

WELL INFORMATION	WELL ID: MW-17S	WELL DIAMETER: 4"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 6.55	TOTAL DEPTH: 15.04	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____ ☐ EQUIP. COATING ☐ PURGE WATER		

SAMPLE METHOD	PURGE METHOD: low flow (use purge form)	
SAMPLING PUMP: QED submersible pump	PNEUMATIC SOURCE MP20 compressor	
BLADDER TYPE: PE (new/ used)		
TUBING TYPE: PE	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: MP20 Flow Cell	CALIBRATION DATE / TIME 6-3-03 13:30 13:45	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 4.39 UNITS mg/L	FINAL ORP -20 UNITS mV	FINAL TURBIDITY: 1.7
FINAL PH: 6.00	FINAL COND. 175 uS/cm	FINAL TEMP.: 12.71 °C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: N/A
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES:
A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- sodium thiosulfate

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	VOA	E	☐Y ☒N					☐Y ☐N
2	500 ml	amber	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 002372 DATE SHIPPED: 6-4-03 METHOD: courier

AIRBILL NUMBER: N/A SIGNED: [signature] DATE: 6-10-03

6/19/03

R 10
D 10 40 psi
collected Dupe and MS/MSD

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC **WELL NUMBER:** MW15I
PROJECT NUMBER: 00-03868.35 **WELL DIAMETER:** 2"
DATE: 6/3/03 **SAMPLER:** JPM/SSL
Type of pump used: QED submersible bladder
Pumping rate (milliliters/minute): 300
Water level before purging (nearest 0.01 ft. below reference point) 9.34+ T/
Depth to bottom of well (obtained from well logs) 43.92 T/
Calculated volume of water in casing 5.64 gal
Weather conditions rain, 50°, windy

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp. (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (gal)
15:50	300	7.07	390	166	2.43	-102	12.42	9.34	—
15:55		7.13	394	106	0.94	-162	12.42	9.45	.20
16:00		7.13	394	71.3	0.61	-153	12.32	9.45	.40
16:05		7.13	392	150	1.27	-160	12.24	9.45	.60
16:10		7.14	393	61.7	0.81	-156	12.31	9.45	.80
16:15		7.15	396	28.6	0.54	-105	12.36	9.45	1.00
16:20		7.16	397	31.4	0.42	-100	12.27	9.45	1.20
16:25		7.16	395	18.2	0.36	-177	12.26	9.45	1.40
16:30		7.16	396	21.9	0.33	-180	12.37	9.45	1.60
16:35		7.17	396	19.5	0.48	-176	12.34	9.45	1.80
16:40		7.18	395	19.5	0.49	-161	12.19	9.45	2.00
16:50		7.17	396	14.8	0.36	-139	12.14	9.45	2.40
16:55		7.19	395	14.8	0.52	-185	12.12	9.45	2.60
17:00		7.17	396	8.9	0.30	-195	12.06	9.45	2.80
17:05		7.17	395	9.0	0.14	-222	12.16	9.45	3.00
17:10		7.10	395	9.3	0.36	-123	12.78	9.45	3.20
17:15		7.16	395	9.0	0.28	-158	12.98	9.45	3.40
17:20		7.18	395	8.4	0.27	-171	13.39	9.45	3.60

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

(Con't next page)

Signed 6-10-03 Date DVernarde QC'd By 6/19/03 Date

RMT

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

(con't)

PROJECT NAME: LEC WELL NUMBER: MW15I

PROJECT NUMBER: 00-03888.35 WELL DIAMETER: 2"

DATE: 6/3/03 SAMPLER: JPM / SSL

Type of pump used: submersible bladder

Pumping rate (milliliters/minute): 380

Water level before purging (nearest 0.01 ft. below reference point) 9.34 T/

Depth to bottom of well (obtained from well logs) 43.92 T/

Calculated volume of water in casing 5.64

Weather conditions rain; 50°; windy

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) ~~or %~~	ORP mV	Temp. (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
17:25	380	7.17	395	10.0	0.24	-189	13.64	9.45	3.80

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed 6-10 03 Date

Overcoode QC'd By 6/19/03 Date

RMT

WATER SAMPLE LOG

Sheet 35 of 39

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2003 Sampling
SAMPLER NAME 1: JPM	SAMPLER NAME 2: SSL	PROJECT NO: 0003868.35
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6-3-03	SAMPLE TIME: 17:25

WELL INFORMATION	WELL ID: MW-15I	WELL DIAMETER: 2"
WELL MATERIAL: SS	WELL CONDITIONS: good	
STATIC WATER LEVEL: 9.34	TOTAL DEPTH: 43.92	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____	☐ EQUIP. COATING ☐ PURGE WATER	

SAMPLE METHOD	PURGE METHOD: low flow	(use purge form)
SAMPLING PUMP: QED submersible pump	PNEUMATIC SOURCE MP 20 compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: PE	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: MP20 Flow Cell	CALIBRATION DATE / TIME 6-3-03 13:30 13:45	

SAMPLE DESCRIPTION	COLOR: clear	ODOR: none
FINAL D.O. 0.24 UNITS mg/L	FINAL ORP -189 UNITS mV	FINAL TURBIDITY: 10.0
FINAL PH: 7.17	FINAL COND. 395 uS/cm	FINAL TEMP.: 13.64°C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: N/A
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO4 D - NaOH E - HCL F- sodium thiosulfate

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	VOA	E	☐Y ☒N					☐Y ☐N
2	500 ml	amber	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0023272 DATE SHIPPED: 6-4-03 METHOD: courier

AIRBILL NUMBER: N/A SIGNED: [signature] DATE: 6-10-03

20 6/19/03

RMT

R 10
D 10 15 psi

LOW-FLOW GROUNDWATER SAMPLING STABILIZATION LOG

PROJECT NAME: LEC **WELL NUMBER:** MW15S
PROJECT NUMBER: 00-03868.35 **WELL DIAMETER:** 4"
DATE: 6/4/03 **SAMPLER:** JPM/SLL
Type of pump used: submersible bladder
Pumping rate (milliliters/minute): 450
Water level before purging (nearest 0.01 ft. below reference point) 9.31+ T/
Depth to bottom of well (obtained from well logs) 25.94+ T/
Calculated volume of water in casing 10.86 gal
Weather conditions cold, heavy rain, 52°

Time	Purge Rate (ml/min)	pH (SU)	Conductivity (uS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L) or %	ORP mV	Temp. (°C)	Water Level (0.01 ft.)	Cumulative Purge Volume (gal)
7:45	450	6.47	2860	58.2	7.22	-30	11.50	9.31	—
7:50	↓	5.87	2960	42.5	6.78	-74	11.12	9.31	.3
7:55		5.85	2970	42.8	6.62	-88	11.11	9.31	.6
8:00		5.91	2970	45.9	6.52	-98	11.12	9.31	.9
8:05		5.88	2970	42.8	6.44	-105	11.18	9.31	1.2
8:10		5.89	2960	29.7	6.34	-110	11.15	9.31	1.5
8:15		5.80	2970	30.8	6.28	-114	11.22	9.31	1.8
8:20		5.81	2970	29.0	6.24	-116	11.27	9.31	2.1

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS: pH - ±0.1 pH; COND. - ±5%, TEMP (CORRECTED); TEMP. - ±0.5°c; TURBIDITY ±10%

Signed 6-10-03 Date QC'd By 6/19/03 Date

RMT

WATER SAMPLE LOG

PROJECT INFORMATION	PROJECT NAME: L.E. Carpenter	EVENT NAME: 2nd Quarter, 2003 Sampling
SAMPLER NAME 1: JPM	SAMPLER NAME 2: SSL	PROJECT NO: 0003868.35
SITE LOCATION: Wharton, NJ	SAMPLE DATE: 6-4-03	SAMPLE TIME: 8:20

WELL INFORMATION	WELL ID: MW-15S	WELL DIAMETER: 4"
WELL MATERIAL:	WELL CONDITIONS:	
STATIC WATER LEVEL: 9.31	TOTAL DEPTH: 25.94	
FREE PRODUCT: ☐ SHEEN ☐ MEAS. THICKNESS: _____ ☐ EQUIP. COATING ☐ PURGE WATER		

SAMPLE METHOD	PURGE METHOD: low flow (use purge form)	
SAMPLING PUMP: QED submersible pump	PNEUMATIC SOURCE MP20 compressor	
BLADDER TYPE: PE (new / used)		
TUBING TYPE: PE	TUBING CONDITION: good	HOW STORED: in well
WATER QUALITY METER TYPE: MP20 Flow Cell	CALIBRATION DATE / TIME 6-4-03 7:35 7:45	

SAMPLE DESCRIPTION	COLOR: Clear	ODOR: none
FINAL D.O. 6.24 UNITS mg/L	FINAL ORP -116 UNITS mV	FINAL TURBIDITY: 29.0
FINAL PH: 5.81	FINAL COND. 2970 uS/cm	FINAL TEMP.: 11.27°C
COMMENTS:		

SAMPLE FILTRATION	FILTER TYPE / SIZE / DESCRIPTION: N/A
FILTER METALS SAMPLE ONLY	COLOR AFTER FILTRATION:

BOTTLES FILLED

*PRESERVATIVE CODES: A - None B – HNO3 C - H_2SO_4 D - NaOH E - HCL F- sodium thiosulfate

Number	Size	Type	Preservative*	Filtered	Number	Size	Type	Preservative*	Filtered
3	40 ml	VOA	E	☐Y ☒N					☐Y ☐N
2	500 ml	amber	F	☐Y ☒N					☐Y ☐N
				☐Y ☐N					☐Y ☐N
				☐Y ☐N					☐Y ☐N

CHAIN-OF-CUSTODY NUMBER: 0023272 DATE SHIPPED: 6-4-03 METHOD: courier

AIRBILL NUMBER: N/A SIGNED: [signature] DATE: 6-~~10~~-03

10 6/19/03

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only

Acct. #_____ Group#_____ Sample #_____

COC # 0023272

Please print. Instructions on reverse side correspond with circled numbers.

(1)

Client: 9322-RMT
Acct. #:
Project Name/#: LE Carpenter
PWSID #:
Project Manager: Nick Clewett
P.O.#:
Sampler: JPM / SSL
Quote #:
Name of state where samples were collected: NJ

For Lab Use Only
FSC:
SCR #: 1178517

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (Potable ☐ Check if NPDES Sample)	Other	Total # of Containers	VOC	DRO								Remarks	Temperature of samples upon receipt (if required)
SW8	6/2/03	12:25	✓			✓		5	✓	✓									
SW5		12:35	✓			✓		5	✓	✓									
SW7		12:45	✓			✓		5	✓	✓									
MW21		16:07	✓			✓		5	✓	✓									
MW25		17:00	✓			✓		5	✓	✓									
MW22		18:23	✓			✓		5	✓	✓									
[illegible]	6/3/03	8:36	✓			✓		5	✓	✓									
[illegible]		9:50	✓			✓		5	✓	✓									
MW4		11:00	✓			✓		5	✓	✓									
[illegible]		[illegible]	✓			✓		5	✓	✓									

(7)

Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: _____
Rush results requested by (please circle): Phone Fax E-mail
Phone #: _____ Fax #: _____
E-mail address: _____

(8)

Data Package Options (please circle if required)

QC Summary — Type VI (Raw Data)
Type I (Tier I) — GLP
Type II (Tier II) — Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6-1-03	0840	[signature]	6/3/03	800
[signature]	6/4/03	1200			

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only

Acct. #_____ Group#_____ Sample #_____

COC # 0023271

Please print. Instructions on reverse side correspond with circled numbers.

(1)

Client: [illegible] Acct. #: _____

Project Name/#: [illegible] PWSID #: _____

Project Manager: [illegible] P.O.#: _____

Sampler: [illegible] Quote #: _____

Name of state where samples were collected: NJ

For Lab Use Only
FSC: _____
SCR #: _____

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Potable (Check if Applicable)	NPDES (Check if Applicable)	Water	Other	Total # of Containers	[illegible]	[illegible]								Remarks	Temperature of Samples Upon Receipt (if required)
[illegible]	6/3/03	[illegible]	✓					✓		5	✓	✓									
[illegible]		[illegible]	✓					✓		2		✓									
[illegible]		15:02	✓					✓		5	✓	✓									
[illegible]		17:25	✓					✓		5	✓	✓									
[illegible]	6/4/03	8:20	✓					✓		5	✓	✓									
[illegible]			✓					✓		5	✓	✓									
[illegible]	[illegible]	[illegible]	✓					✓		8	✓	✓									

(7) **Turnaround Time Requested (TAT) (please circle):** Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: _____
Rush results requested by (please circle): Phone Fax E-mail
Phone #: _____ Fax #: _____
E-mail address: _____

(8) **Data Package Options** (please circle if required)
QC Summary — Type VI (Raw Data)
Type I (Tier I) — GLP
Type II (Tier II) — Other
Type III (NJ Red. Del.)
Type IV (CLP)

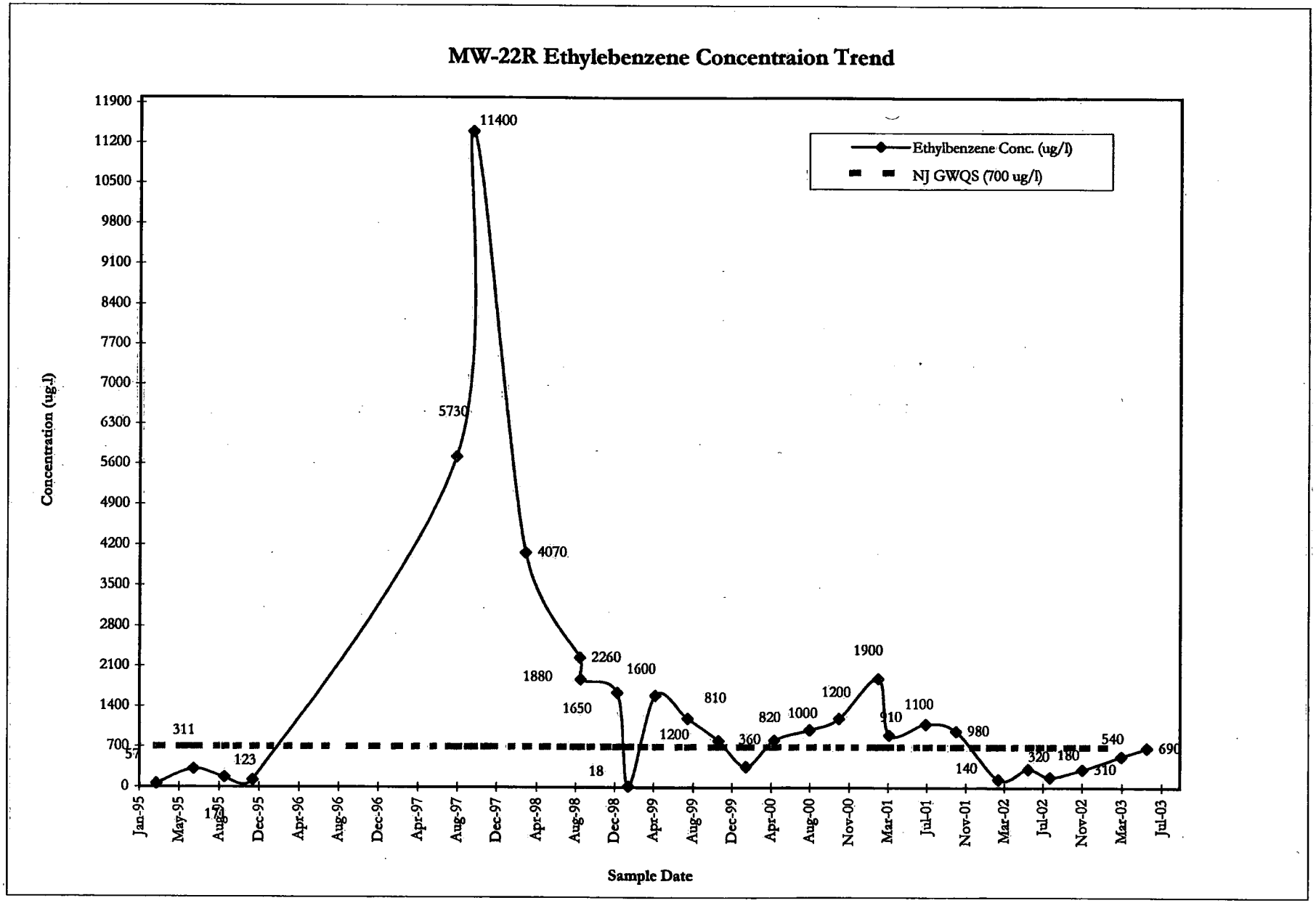
SDG Complete? Yes No

Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

(9)

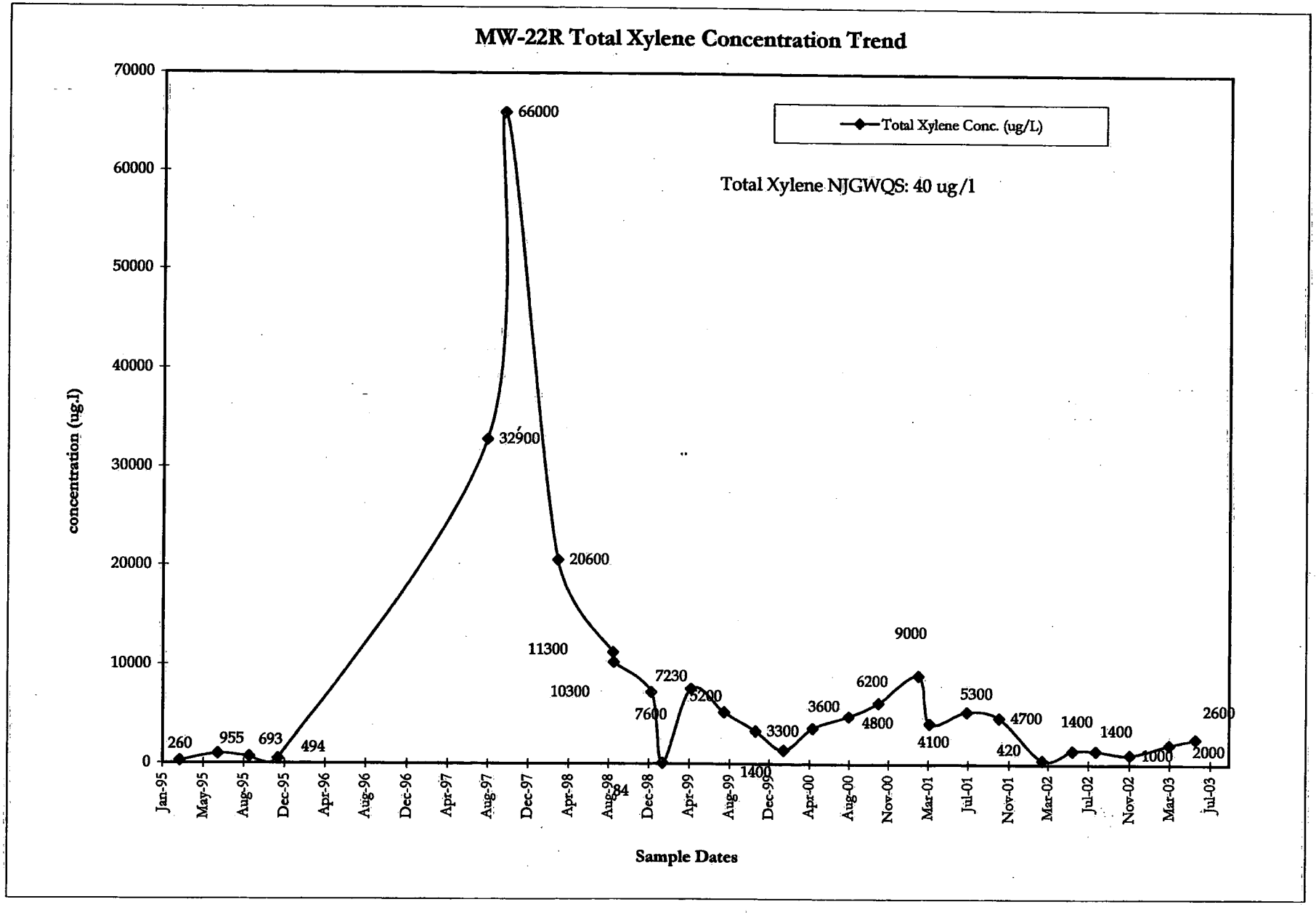
Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6-4-03	1200			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Appendix D
Groundwater Concentration Trend Analysis



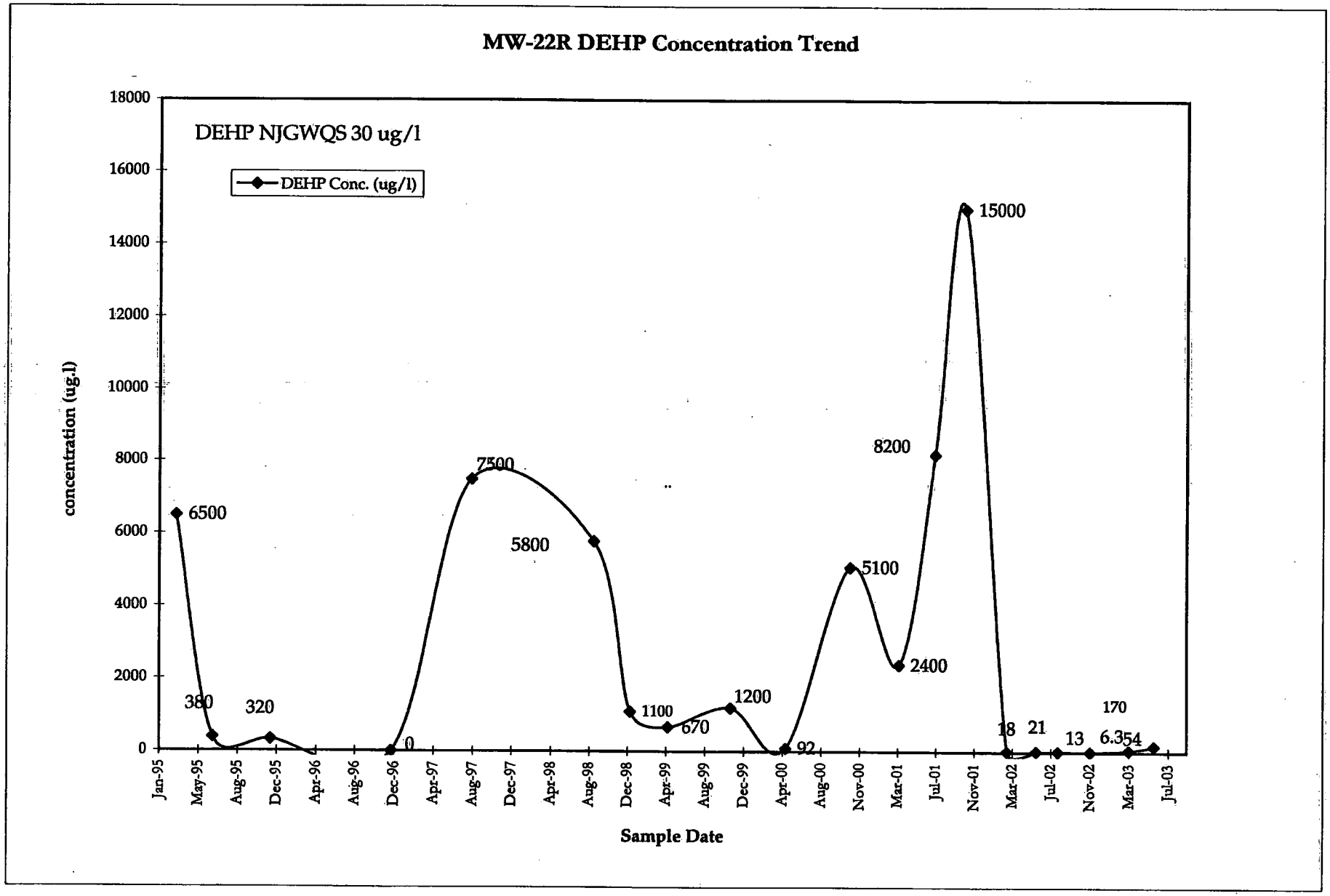
Prepared by RMT, Inc.
7/31/2003 Appendix D1 8.5x11 Chart 2

I:\WPGRM\PJT\00-03868\35\Appendix D1 8.5x11 Chart 2



Prepared by RMT, Inc.
7/31/2003 Appendix D2 8.5x11 Chart 2

I:\WPGRM\PJT\00-03868\35\Appendix D2 8.5x11 Chart 2



Prepared by RMT, Inc.
7/31/2003 Appendix D3 8.5x11 Chart 2

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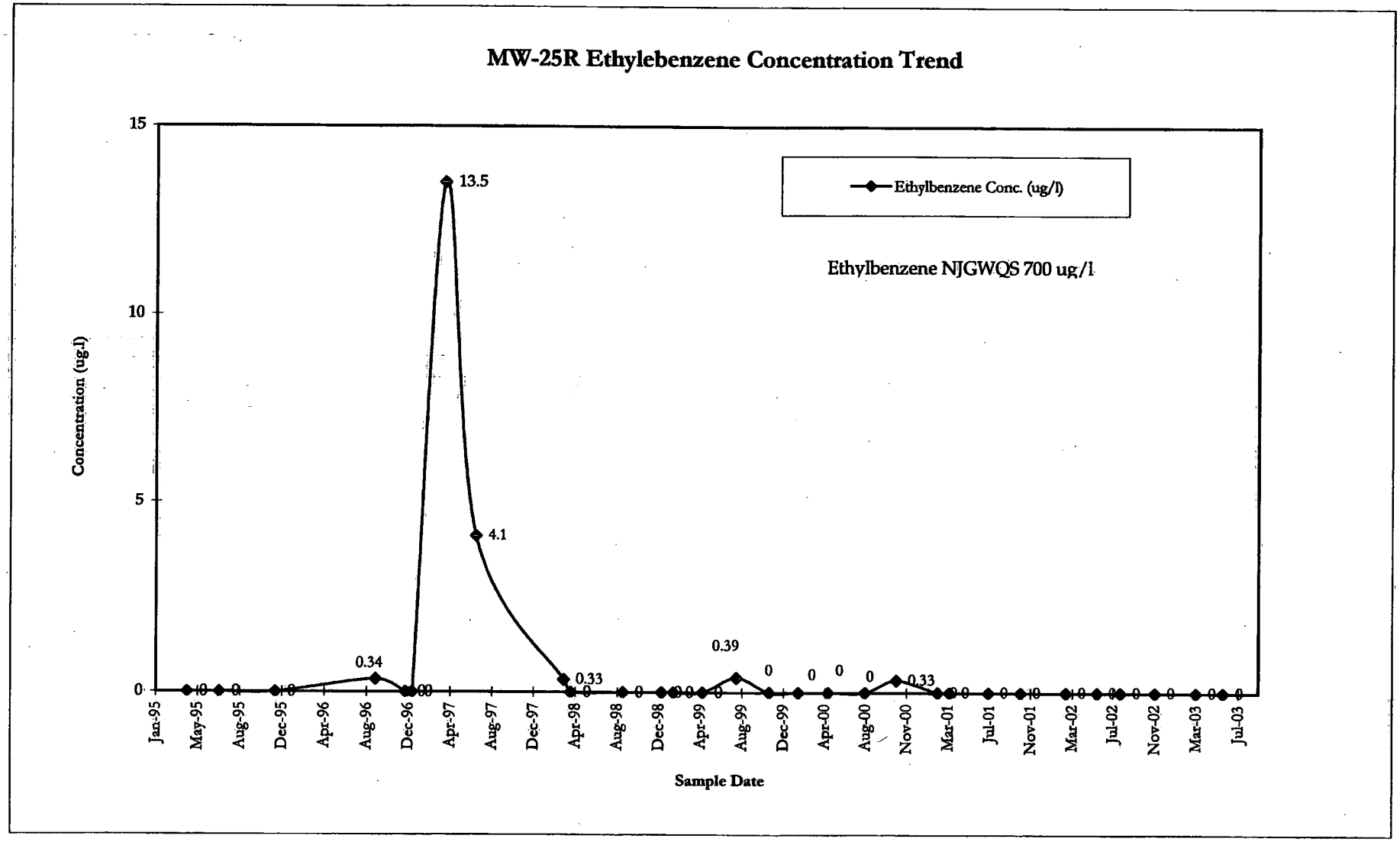
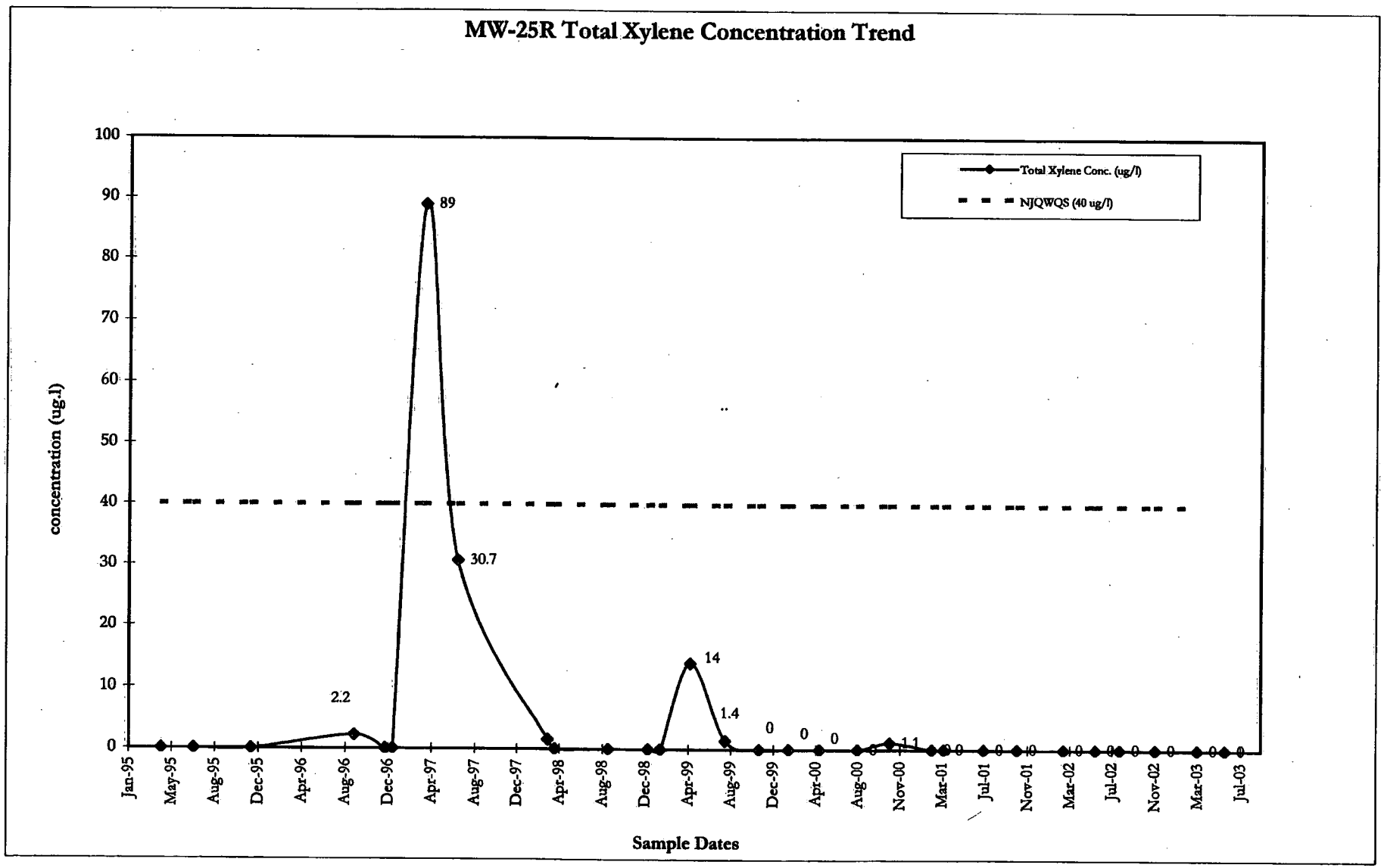


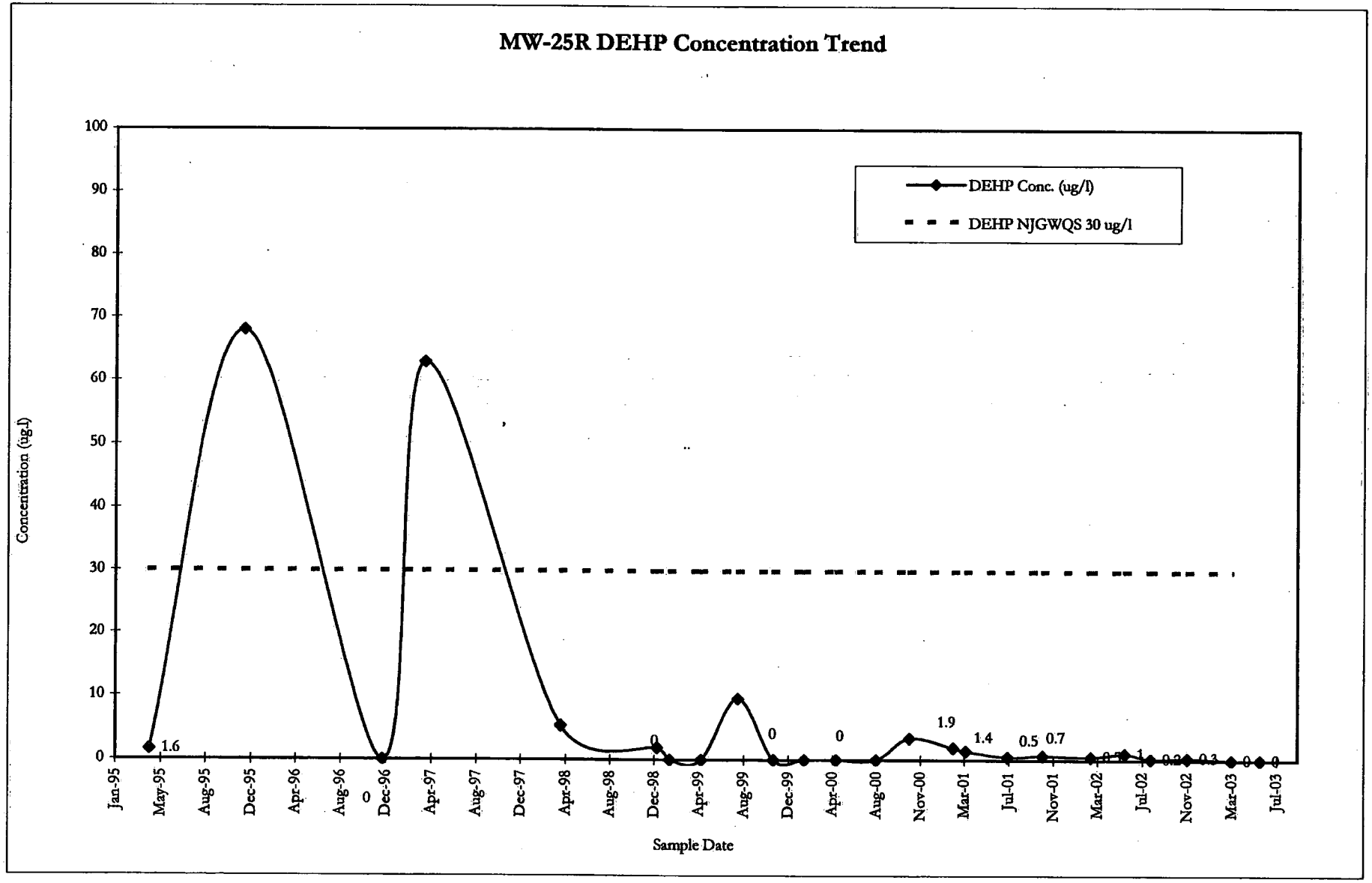
Prepared by RMT, Inc.
7/31/2003 Appendix D4 8.5x11 Chart 2

I:\WPGRM\PJT\00-03868\35\Appendix D4 8.5x11 Chart 2



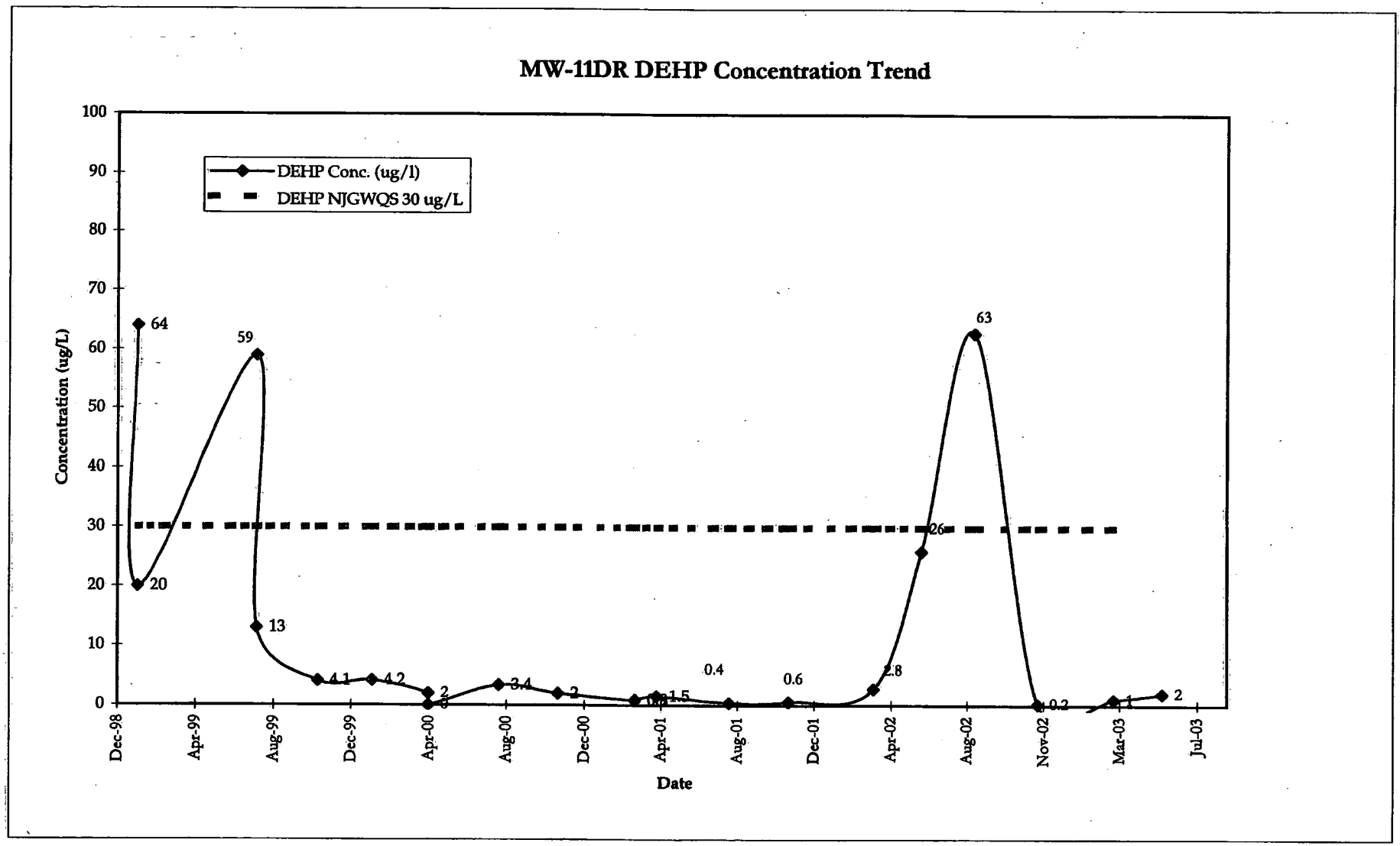
Prepared by RMT, Inc.
7/31/2003 Appendix D5 8.5x11 Chart 2

I:\WPGRM\PJT\00-03868\35\Appendix D5 8.5x11 Chart 2



Prepared by RMT, Inc.
7/31/2003 Appendix D6 8.5x11 Chart 2

I:\WPGRM\PJT\00-03868\35\Appendix D6 8.5x11 Chart 2



Prepared by RMT, Inc.
7/31/2003 Apendix D7 8.5x11 Chart 1

I:\WPGRM\PJT\00-03868\35\Apendix D7 8.5x11 Chart 1

Appendix E
2nd Quarter 2003 Laboratory Analytical Report

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056352

Collected:06/02/2003 12:25 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:46
Discard: 07/19/2003
SW8 Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LECS8 SDG#: LEC02-01

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	1.2	J	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	N.D.		0.2	ug/l	1
07031	Ethylbenzene	100-41-4	0.2	J	0.2	ug/l	1
00554	Base Neutrals (cont)						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 12:00	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/09/2003 15:49	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056353

Collected:06/02/2003 12:35 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:46
Discard: 07/19/2003
SW5 Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

S5LEC SDG#: LEC02-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

The GC/MS semivolatile surrogate recovery of terphenyl-d14 was outside of QC limits. The recovery was, however, greater than 10%.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 12:30	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/09/2003 16:38	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056354

Collected:06/02/2003 12:45 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:46
Discard: 07/19/2003
SW7 Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

S7LEC SDG#: LEC02-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

The GC/MS semivolatile surrogate recovery of terphenyl-d14 was outside of QC limits. The recovery was, however, greater than 10%.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 13:00	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/09/2003 17:27	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056355

Collected:06/02/2003 16:07 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:47
Discard: 07/19/2003
MW21 Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LEC21 SDG#: LEC02-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

The GC/MS semivolatile surrogate recovery of terphenyl-d14 was outside of QC limits. The recovery was, however, greater than 10%.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 13:31	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/09/2003 18:16	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056356

Collected:06/02/2003 17:00 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:47
Discard: 07/19/2003
MW25 Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LEC25 SDG#: LEC02-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 14:01	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/09/2003 19:05	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056357

Collected:06/02/2003 18:23 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:47
Discard: 07/19/2003
MW22 Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LEC22 SDG#: LEC02-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	2,600.	3.0	ug/l	5
07029	Benzene	71-43-2	N.D.	1.0	ug/l	5
07030	Toluene	108-88-3	N.D.	1.0	ug/l	5
07031	Ethylbenzene	100-41-4	690.	1.0	ug/l	5
	Due to dilution of the sample made necessary by the high level of xylenes, normal reporting limits were not attained.					
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	170.	3.	ug/l	3

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 22:03	K. Robert Caulfeild-James	5
00554	Base Neutrals (cont)	EPA 625	1	06/10/2003 05:32	Brian K Graham	3
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

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PO Box 12425
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056358

Collected:06/03/2003 08:36 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:47
Discard: 07/19/2003
MW14I Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LE14I SDG#: LEC02-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 15:01	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/09/2003 20:43	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

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717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056359

Collected:06/03/2003 09:50 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:47
Discard: 07/19/2003
MW14S Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LE14S SDG#: LEC02-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 15:31	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/09/2003 21:32	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056360

Collected:06/03/2003 11:00 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:47
Discard: 07/19/2003
MW4 Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LEC-4 SDG#: LEC02-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	72.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 16:02	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/09/2003 22:21	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056361

Collected:06/03/2003 10:33 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:47
Discard: 07/19/2003
FB01 Field Blank Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LECFB SDG#: LEC02-10FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 11:30	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/09/2003 23:10	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056362

Collected:06/03/2003 11:08 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:47
Discard: 07/19/2003
Rinseate 01 Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LECRB SDG#: LEC02-11RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 18:32	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/09/2003 23:59	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056363

Collected:06/03/2003 14:08 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:47
Discard: 07/19/2003
MW11D Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LE11D SDG#: LEC02-12

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
00554	Base Neutrals (cont)						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	2.	J	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00554	Base Neutrals (cont)	EPA 625	1	06/10/2003 00:48	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056364

Collected:06/03/2003 15:02 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:47
Discard: 07/19/2003
MW17S Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LE17S SDG#: LEC02-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 19:02	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/10/2003 01:38	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056365

Collected:06/03/2003 17:25 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:48
Discard: 07/19/2003
MW15I Unspiked Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LE15I SDG#: LEC02-14BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 19:33	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/09/2003 13:22	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

MEMBER ACIL

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056366

Collected: 06/03/2003 17:25 by JPM

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:48
Discard: 07/19/2003
MW15I Matrix Spike Grab Water Sample

L.E. Carpenter, NJ

Account Number: 09322

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

LE15I SDG#: LEC02-14MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	57.	0.6	ug/l	1
07029	Benzene	71-43-2	20.	0.2	ug/l	1
07030	Toluene	108-88-3	19.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	19.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	96.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 20:03	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/09/2003 14:11	Brian K Graham	1
3108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

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717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056367

Collected:06/03/2003 17:25 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:48
Discard: 07/19/2003
MW15I Matrix Spike Dup. Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LE15I SDG#: LEC02-14MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	51.	0.6	ug/l	1
07029	Benzene	71-43-2	18.	0.2	ug/l	1
07030	Toluene	108-88-3	17.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	17.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	99.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 20:33	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/09/2003 15:00	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056368

Collected:06/04/2003 08:20 by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:48
Discard: 07/19/2003
MW15S Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LE15S SDG#: LEC02-15

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	N.D.		0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	N.D.		0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00554	Base Neutrals (cont)						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	8.	J	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 21:03	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/10/2003 02:27	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056369

Collected: n.a. by JPM

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:48
Discard: 07/19/2003
Dup. 01 Grab Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LECD1 SDG#: LEC02-16FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00554	Base Neutrals (cont)					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 21:33	K. Robert Caulfeild-James	1
00554	Base Neutrals (cont)	EPA 625	1	06/10/2003 03:16	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	06/06/2003 09:30	Andrew G Newton	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4056370

Collected: n.a.

Account Number: 09322

Submitted: 06/04/2003 19:00
Reported: 06/18/2003 at 09:48
Discard: 07/19/2003
Trip Blank Water Sample

RMT, Inc.
PO Box 8923

Madison WI 53708-8923

L.E. Carpenter, NJ

LECTB SDG#: LEC02-17TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	06/06/2003 18:02	K. Robert Caulfeild-James	1

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Quality Control Summary

Client Name: RMT, Inc. Group Number: 854450
Reported: 06/18/03 at 09:48 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 03156WAD625	Sample number(s): 4056352-4056369							
bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	97		75-113		
Batch number: 03157A36A	Sample number(s): 4056352-4056362,4056364-4056370							
Total Xylenes	N.D.	0.6	ug/l	89	89	82-120	1	30
Benzene	N.D.	0.2	ug/l	94	92	80-118	2	30
Toluene	N.D.	0.2	ug/l	91	89	82-119	2	30
Ethylbenzene	N.D.	0.2	ug/l	88	87	81-119	1	30

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 03156WAD625	Sample number(s): 4056352-4056369								
bis(2-Ethylhexyl)phthalate	91	94	24-155	3	30				
Batch number: 03157A36A	Sample number(s): 4056352-4056362,4056364-4056370								
Total Xylenes	94	84	78-130	11	30				
Benzene	99	89	67-136	11	30				
Toluene	96	87	78-129	11	30				
Ethylbenzene	94	84	75-133	11	30				

Surrogate Quality Control

Analysis Name: Base Neutrals
Batch number: 03156WAD625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4056352	94	98	73
4056353	92	94	317*
4056354	93	94	171*
4056355	96	100	158*
4056356	95	99	67
4056357	95	88	58
4056358	89	88	90
4056359	93	100	81
4056360	93	96	65
4056361	84	91	65
4056362	95	101	68
4056363	91	95	63
4056364	94	98	87
4056365	94	99	62
4056366	97	98	81
4056367	95	100	63
4056368	91	96	68
4056369	88	88	65
Blank	95	89	69
LCS	92	96	65

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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Lancaster Laboratories

Quality Control Summary

Client Name: RMT, Inc. Group Number: 854450
Reported: 06/18/03 at 09:48 AM

Surrogate Quality Control

MS	97	98	81
MSD	95	100	63
Limits:	57-116	63-113	38-134

Analysis Name: BTEX (EPA 602)
Batch number: 03157A36A

	Trifluorotoluene-P
4056352	98
4056353	99
4056354	99
4056355	99
4056356	98
4056357	96
4056358	98
4056359	96
4056360	98
4056361	97
4056362	98
4056364	99
4056365	97
4056366	98
4056367	99
4056368	98
4056369	99
4056370	99
Blank	99
LCS	97
LCSD	99
MS	98
MSD	99
Limits:	66-136

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

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717-656-2300 Fax: 717-656-2681

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 9322 Group# 854450 Sample # 4056352-70

COC # 0023272

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: 9322-RMT Acct. #:
Project Name/#: LE Carpenter PWSID #:
Project Manager: Nick Clewett P.O.#:
Sampler: JPM / SSL Quote #:
Name of state where samples were collected: NJ

For Lab Use Only
FSC:
SCR #: 1178517

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	BTEX	DETHP							Remarks
SW8	6/2/03	12:25	✓			✓		5	✓	✓							2.0-4.0°C
SW5		12:35	✓			✓		5	✓	✓							6/4/03
SW7		12:45	✓			✓		5	✓	✓							RLS
MW21		16:07	✓			✓		5	✓	✓							
MW25		17:00	✓			✓		5	✓	✓							
MW22		18:23	✓			✓		5	✓	✓							
MW14I	6/3/03	8:36	✓			✓		5	✓	✓							
MW14S		9:50	✓			✓		5	✓	✓							
MW4		11:00	✓			✓		5	✓	✓							
FB01		10:33	✓			✓		5	✓	✓							

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

(8) **Data Package Options** (please circle if required)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No
Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6/4/03	0840	[signature]	6/4/03	800
[signature]	6/4/03	1200	[signature]	6/4/03	1310
[signature]	6/4/03	1900			
			[signature]	6/4/03	1900

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 9322 Group# 854650 Sample # 4056832-70

COC # 0023271

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: 9322-RMT Acct. #:
Project Name/#: LE Carpenter PWSID #:
Project Manager: Nick Clevett P.O.#:
Sampler: JPM/SSL Quote #:
Name of state where samples were collected: NJ

For Lab Use Only
FSC:
SCR #:

(2) (3) (4) (5) (6)

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Potable Water	Non-Potable Water	Other	Total # of Containers	BTEX	DEHP								Remarks
Rinsate 01	6/3/03	11:08	✓				✓		5	✓	✓								
MW11D		14:08	✓				✓		2		✓								2.0-4.0°C
MW17S		15:02	✓				✓		5	✓	✓								6/4/03
MW15I		17:25	✓				✓		5	✓	✓								RJD
MW15S	6/4/03	8:20	✓				✓		5	✓	✓								
Dupe 01			✓				✓		5	✓	✓								
MW15I MS/MSD	6/3/03	17:25	✓				✓		8	✓	✓								

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

(8) **Data Package Options** (please circle if required)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)

SDG Complete? Yes No
Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6-4-03	1200			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: [signature]	6-4-03	1900