

Received 09/18/98



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10 September 1998

Mr. Russell D. Hart (HSRW-6J)
Remedial Project Manager
U. S. Environmental Protection Agency
Region V
77 West Jackson Boulevard
Chicago, IL 60604

Work Order No. 02687-007-003

Re: Quarterly Groundwater Monitoring Report, 2nd Quarter
Moss-American Site, Milwaukee, Wisconsin

Dear Mr. Hart:

On behalf of the Kerr-McGee Chemical LLC (KMC), Roy F. Weston, Inc. (WESTON®) is submitting this report summarizing the results of the second quarterly groundwater monitoring event completed at the above referenced project in June 1998. A description of the groundwater monitoring program and the results obtained during this monitoring period are presented in the following sections

The free-product recovery system at the site was turned off for the winter in early November 1997 and restarted in early May 1998. Therefore, groundwater analytical results reported for 2nd quarter 1998 reflect conditions at the site after the free-product recovery system was on for approximately 2 months.

1.0 BACKGROUND

In accordance with paragraph 4a of the Remedial Design and Remedial Action Statement of Work (RD/RA SOW), KMC is required to implement a groundwater monitoring program capable of detecting changes in chemical concentrations in the groundwater. As previously agreed, the monitoring network includes 23 groundwater monitoring wells—MW-3S, MW-3I, MW-4S, MW-4I, MW-5S, MW-6S, MW-7S, MW-7I, MW-8S, MW-8I, MW-9S, MW-9I, MW-10S, MW-13S, MW-20S, MW-20I, MW-25S, MW-26S, MW-27S, MW-28S, MW-29S, TW-05, and TW-09. The sampling event of June 1998 entailed sampling of all shallow monitoring wells.

The monitoring well network of 23 wells that include the shallow and intermediate wells will be sampled during the 3rd quarter in September 1998, and semi-annually thereafter.

In accordance with paragraph 4a (i) of the RD/RA SOW, the field measurement and analysis of groundwater samples includes groundwater elevation, pH, temperature, turbidity, specific conductance, redox potential, dissolved oxygen. Laboratory analyses include BTEX compounds





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(benzene, toluene, ethylbenzene, and xylene) and polynuclear aromatic hydrocarbon (PAH) compounds (acenaphthylene, acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluorene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene).

2.0 GROUNDWATER MONITORING RESULTS

The second quarterly groundwater monitoring event at the Moss-American site was completed between 23 and 25 June 1998. Tasks completed during the field effort for this event included the collection of groundwater elevation data from all the shallow monitoring wells and the collection of groundwater samples from 16 of the 17 shallow monitoring wells. Groundwater sample was not collected from well MW-8S because this well had approximately 3 feet of free-product. Therefore, as with any well observed to contain free-product, MW-8S is assumed to be contaminated. The results of these efforts are described in the following subsections.

2.1 GROUNDWATER ELEVATION MEASUREMENTS

The depth to water was measured in each of the monitoring wells mentioned in Section 1.0 of this report. The measurements were conducted on 23 June 1998, prior to the beginning of groundwater sampling. These measurements were used to determine the elevation of the potentiometric surface of the shallow groundwater-bearing zone underlying the site. The water level measurements and resulting elevations are presented in Table 1. Figure 1 presents a groundwater elevation contour map that shows the potentiometric surface of the shallow groundwater-bearing zone. An evaluation of these results is presented in the following paragraphs.

As Figure 1 shows, the groundwater within the shallow groundwater-bearing zone generally flows northeastward toward the Little Menomonee River. In the topographically higher, western portion of the site, the horizontal hydraulic gradient of the potentiometric surface is relatively steep at approximately 0.027 feet per foot (ft/ft). The gradient flattens near the river, as does the ground surface, with an average of approximately 0.012 ft/ft.

The average velocity of groundwater flow within the shallow water-bearing zone can be calculated using the hydraulic gradients presented above, the average hydraulic conductivity used for the shallow water-bearing zone (1.2 feet per day [ft/day]), and the assumed effective porosity of 30 percent. In the western portion of the site the groundwater flow velocity is calculated to be



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approximately 0.11 ft/day. Near the river, the velocity of groundwater flow is calculated to be approximately 0.048 ft/day.

2.2 GROUNDWATER SAMPLE ANALYSES RESULTS

Groundwater samples were collected from 16 wells (MW-3S, MW-4S, MW-5S, MW-6S, MW-7S, MW-9S, MW-10S, MW-13S, MW-20S, MW-25S, MW-26S, MW-27S, MW-28S, MW-29S, TW-05, and TW-09) screened within the shallow groundwater-bearing zone. In addition, for quality assurance/quality control (QA/QC) purposes, two sample duplicates (indicated by a D qualifier), one matrix spike/matrix spike duplicate (MS/MSD), and two field blanks were collected. Trip blanks accompanied each cooler of sample bottles from the laboratory to the site and were shipped back to the laboratory within each cooler full of samples.

Each groundwater sample was measured for the field parameters discussed in Section 1 and analyzed for BTEX and PAH compounds. The results of these measurements and analyses are discussed in the following subsections.

2.2.1 Field-Measured Parameters

The groundwater samples were measured in the field for pH, specific conductance, temperature, redox potential, dissolved oxygen, and turbidity. The results of these measurements are provided in Table 2. As shown in Table 2, the groundwater pH ranged from 6.69 to 8.11 standard pH units (S.U.) in the shallow groundwater samples. The specific conductivity ranges from 0.48 to 0.97 m Ω /cm in the shallow groundwater samples. Groundwater temperatures ranged from 10.2 to 14.9 °C in the shallow groundwater samples. The redox potentials of the groundwater ranged from a negative 445 to a negative 319 millivolts (mV). Dissolved oxygen levels ranged from 1.0 to 4.0 mg/L. Turbidity ranged from 20 to 1,263 nephelometric turbidity units (NTU) in the groundwater samples.

2.2.2 Laboratory Analyses

Each groundwater sample collected during the second quarter 1998 monitoring period was analyzed for BTEX and PAH compounds. The results of these analyses are presented in Table 3. Table 3 also indicates those parameters that were detected at concentrations that exceed their respective PALs. These results are summarized in the following paragraphs. The laboratory reports are presented in Attachment A.

Groundwater Sample Results



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As Table 3 shows, primarily benzene, naphthalene, and benzo(a)pyrene were detected at concentrations that exceed their respective PALs in the groundwater samples collected from shallow wells. They are as follows:

- Benzene was detected at concentrations exceeding the WDNR PAL of 5 µg/L in groundwater samples collected from monitoring wells MW-4S and MW-7S.
- Naphthalene was detected at concentrations exceeding the WDNR PAL of 8 µg/L in groundwater samples collected from monitoring wells MW-4S, MW-7S, MW-20S, TW-05, and TW-09.
- Benzo(a)pyrene was detected at concentrations exceeding the WDNR PAL of 0.02 µg/L in groundwater samples collected from monitoring wells MW-4S, MW-7S, MW-13S, MW-27S, MW-28S, MW-29S, TW-05 and TW-09.

These results show that the width of the contaminant plume boundaries (shown in Figure 1) has increased in the middle portion of the plume since groundwater samples collected from wells MW-27S, MW-28S and MW-29S indicate benzo(a)pyrene at a concentration of estimated 0.024 µg/L, 0.04 µg/L and an estimated 0.031 µg/L, respectively. These concentrations exceed the WDNR PAL of 0.02 µg/L. Additionally, with the sampling of MW-20S in this quarter, the lateral extent of the plume has been extended to MW-20S.

If you have any questions or require additional information, please do not hesitate to call me at (847) 918-4142.

Very truly yours,

ROY F. WESTON, INC.

Thomas P. Graan, Ph.D.
Principal Project Manager

TPG/slr
Attachments

cc: G. Edelstein, WDNR
B. Felix, WDNR

Table 1

**Groundwater Elevation Measurements
Second Quarter 1998
Moss-American Site
Milwaukee, Wisconsin**

Well	Ground Elevation (ft. MSL)	TOC Elevation (ft. MSL)	Depth to Water (ft.)	Groundwater Elevation (ft. MSL)	Product Thickness (ft.)
MW-3S	729.00	731.50	7.03	724.47	ND
MW-4S	731.00	732.86	5.20	727.66	ND
MW-5S	723.00	724.70	5.19	719.51	ND
MW-6S	727.00	724.28	5.42	718.86	ND
MW-7S	720.00	721.70	6.70	715.00	ND
MW-8S	718.00	721.73	5.84	715.89	2.7
MW-9S	720.00	721.71	7.81	713.90	ND
MW-10S	723.00	726.58	8.01	718.57	ND
MW-13S	737.00	738.68	3.90	734.78	ND
MW-20S	716.00	719.94	5.20	714.74	ND
MW-25S	736.83	739.24	4.24	735.00	ND
MW-26S	732.31	731.66	3.95	727.71	ND
MW-27S	720.59	723.15	4.42	718.73	ND
MW-28S	720.04	722.65	4.28	718.37	ND
MW-29S	720.01	722.39	5.89	716.50	ND
TW-05	721.76	724.16	3.91	720.25	ND
TW-09	717.61	719.96	4.83	715.13	trace

NM - Not measured.

ND - Not detected.

Measurements taken on 23 June 1998.

Table 2

Field-Measured Parameters
Second Quarter 1998
Moss-American Site
Kerr-McGee Corporation

Well Number	PH (Standard Units)	Specific Conductance (m Ω /cm)	Temperature ($^{\circ}$ C)	Redox Potential (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
MW-3S	7.64	0.81	11.5	-397	2.7	484
MW-4S	8.11	0.86	12.6	-443	1.8	785
MW-5S	7.13	0.62	10.2	-362	4.0	1,263
MW-6S	7.56	0.57	12.5	-375	1.5	590
MW-7S	6.84	0.90	12.8	-433	1.0	66
MW-9S	6.86	0.87	12.1	-432	1.4	1,197
MW-10S	7.28	0.68	14.5	-411	2.0	1,224
MW-13S	7.86	0.73	14.9	-427	2.8	1,252
MW-20S	6.69	0.97	13.8	-450	1.2	237
MW-25S	7.62	0.71	13.6	-424	3.8	1,098
MW-26S	7.36	0.72	12.3	-413	3.2	917
MW-27S	6.80	0.83	12.4	-398	1.4	1,129
MW-28S	7.81	0.52	11.7	-319	1.9	20
MW-29S	7.91	0.48	11.8	-445	1.2	938
TW-05	6.85	0.58	13.3	-361	1.6	1,000
TW-09	NM	NM	NM	NM	NM	NM

NM - Not measured.

Table 3

Groundwater Sample Analytical Results
 Second Quarter 1998
 Moss-American Site
 Milwaukee, Wisconsin

Sample ID:	MW-3S-02	MW-3S-02(D)	MW-4S-02	MW-5S-02	MW-6S-02	MW-7S-02	MW-07-02(D)	WDNR PAL ug/L							
Sample Matrix:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater								
Sample Date:	6/24/98	6/25/98	6/24/98	6/24/98	6/25/98	6/25/98	6/26/98								
Units of Measure:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L								
Parameters															
VOCs															
Benzene <i>ZS-05</i>	0.2	U	0.2	U	8	0.2	U	0.2	U	----	5	0.5			
Toluene	0.2	U	0.2	U	17	0.2	U	0.2	U	----	1	68.6			
Ethylbenzene	0.2	U	0.2	U	24	0.2	U	0.2	U	----	22	140			
Total Xylenes	0.6	U	0.6	U	46	0.6	U	0.6	U	----	68	124			
PAHs															
Naphthalene <i>SS-40</i>	0.77	U	0.80	UJ	172	J	0.77	U	0.77	U	22.3	J	16.1	J	8.0
Acenaphthalylene	0.77	U	0.80	UJ	39	U	0.77	U	0.77	U	7.7	U	7.7	U	NA
Acenaphthene	0.77	U	0.8	UJ	168	J	0.77	U	0.77	U	29.2	J	24.4	J	NA
Fluorene	0.16	U	0.17	UJ	50		0.16	U	0.16	U	3.8	J	3.6	J	80
Phenanthrene	0.044	U	0.046	UJ	325		0.044	U	0.044	U	25.2		27.6		NA
Anthracene	0.030	U	0.031	UJ	80.7		0.030	U	0.030	U	5.2		7.7		NA
Fluoranthene	0.021	J	0.020	UJ	366		0.019	U	0.019	U	45.2		59		NA
Pyrene	0.17	U	0.18	UJ	407		0.17	U	0.17	U	59.1		75.7		NA
Benzo(a)anthracene	0.017	U	0.018	UJ	142		0.017	U	0.017	U	21.2		25.6		NA
Chrysene	0.057	U	0.059	UJ	151		0.057	U	0.057	U	40.4		34.1		NA
Benzo(b)fluoranthene	0.034	U	0.035	UJ	106		0.034	U	0.034	U	18.6		20.2		NA
Benzo(k)fluoranthene	0.026	U	0.027	UJ	61.3		0.026	U	0.026	U	11.1		11.6		NA
Benzo(a)pyrene <i>ZS-07</i>	0.021	U	0.022	UJ	112		0.021	U	0.021	U	30.5		25.3		0.02
Dibenzo(a,h)pyrene	0.045	U	0.047	UJ	2.3	U	0.045	U	0.045	U	4.2		2.3		NA
Benzo(g,h,l)perylene	0.095	U	0.099	UJ	76		0.096	U	0.095	U	42		41.9		NA
Indeno(1,2,3-cd)pyrene	0.061	U	0.064	UJ	75		0.062	U	0.061	U	17.2		15		NA

VOC - Volatile Organic Compound.

---- Not analyzed.

PAL - Wisconsin Department of Natural Resources Preventative Action Limit.

PAH - Polynuclear Aromatic Hydrocarbon.

NA - PAL not available for this parameter.

Table 3 (Cont.)

Groundwater Sample Analytical Results
 Second Quarter 1998
 Moss-American Site
 Milwaukee, Wisconsin

Sample ID:	MW-9S-02	MW-10S-02	MW-13S-02	MW-20S-02	MW-25S-02	WDNR PAL ug/L					
Sample Matrix:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater						
Sample Date:	6/24/98	6/25/98	6/24/98	6/25/98	6/24/98						
Units of Measure:	ug/L	ug/L	ug/L	ug/L	ug/L						
Parameters											
VOCs											
Benzene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.5
Toluene	0.2	U	6.0		0.2	U	0.3	J	0.2	U	68.6
Ethylbenzene	0.2	U	0.2	U	0.2	U	0.4	J	0.2	U	140
Total Xylenes	0.6	U	0.6	U	0.6	U	1.3	J	0.6	U	124
PAHs											
Naphthalene <i>ΣS=40</i>	0.77	U	0.79	U	0.77	U	37.7		0.77	U	8.0
Acenaphthylene	0.77	U	0.79	U	0.77	U	1.19	J	0.77	U	NA
Acenaphthene	0.77	U	0.79	U	0.77	U	0.76	U	0.77	U	NA
Fluorene	0.16	U	0.17	U	0.16	U	0.16	U	0.16	U	80
Phenanthrene	0.044	U	0.046	U	0.084	J	0.044	U	0.044	U	NA
Anthracene	0.030	U	0.031	U	0.030	U	0.030	U	0.03	U	NA
Fluoranthene	0.019	U	0.02	U	0.138	J	0.019	U	0.019	U	NA
Pyrene	0.17	U	0.18	U	0.17	U	0.17	U	0.17	U	NA
Benzo(a)anthracene	0.017	U	0.018	U	0.063	J	0.017	U	0.017	U	NA
Chrysene	0.057	U	0.059	U	0.097	J	0.056	U	0.057	U	NA
Benzo(b)fluoranthene	0.034	U	0.035	U	0.076		0.033	U	0.034	U	NA
Benzo(k)fluoranthene	0.026	U	0.027	U	0.035	J	0.026	U	0.026	U	NA
Benzo(a)pyrene <i>PAHs 202</i>	0.021	U	0.022	U	0.072	J	0.021	U	0.021	U	0.02
Dibenzo(a,h)pyrene	0.045	U	0.047	U	0.045	U	0.045	U	0.045	U	NA
Benzo(g,h,i)perylene	0.095	U	0.098	U	0.095	U	0.095	U	0.095	U	NA
Indeno(1,2,3-cd)pyrene	0.062	U	0.063	U	0.061	U	0.061	U	0.062	U	NA

VOC - Volatile Organic Compound.

PAH - Polynuclear Aromatic Hydrocarbon.

Table 3 (Cont.)

Groundwater Sample Analytical Results
 Second Quarter 1998
 Moss-American Site
 Milwaukee, Wisconsin

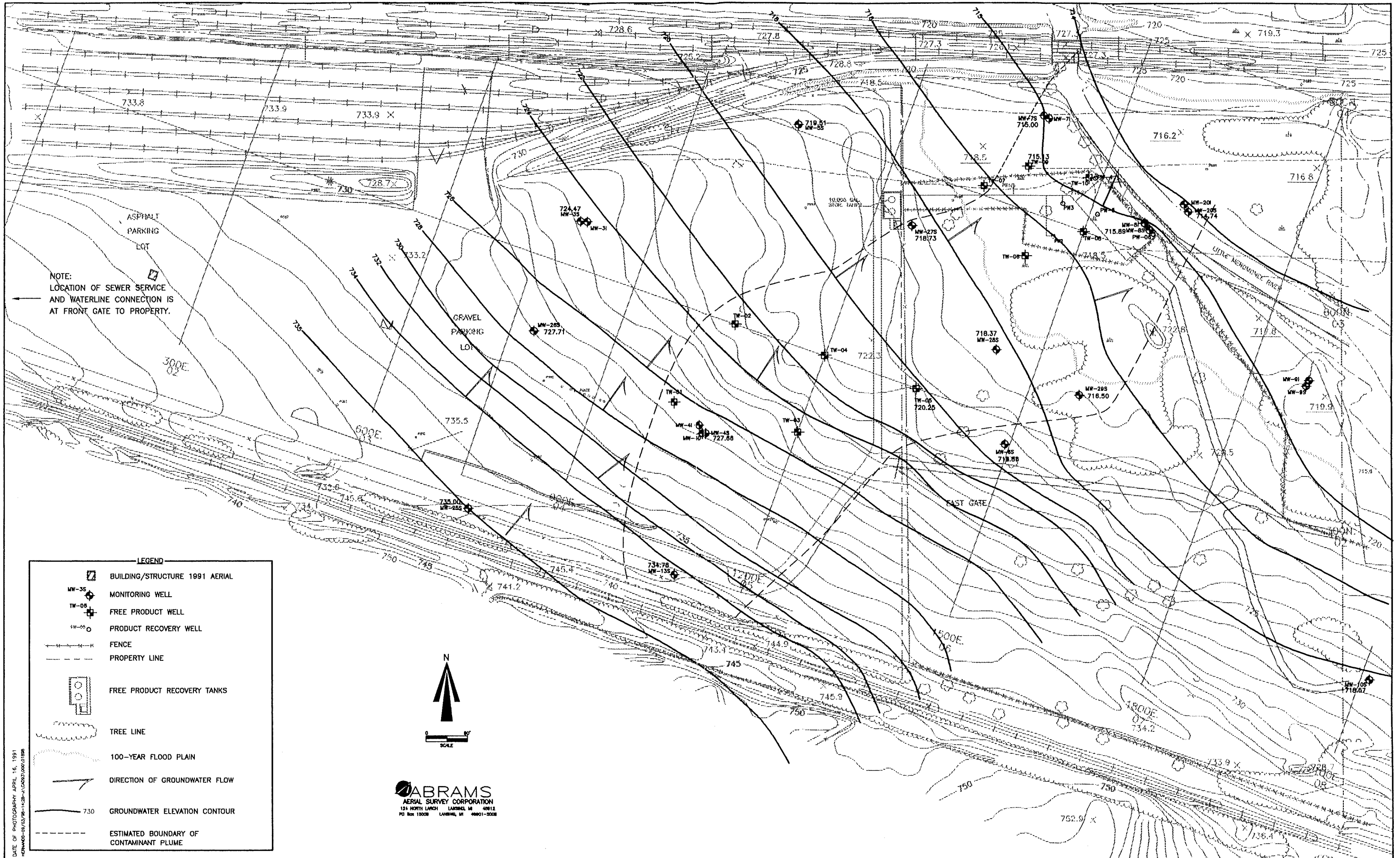
Sample ID:	MW-26S-02	MW-27S-02	MW-28S-02	MW-29S-02	TW-05-02	TW-09-02	FB-01	FB-02	WDNR PAL ug/L								
Sample Matrix:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater									
Sample Date:	6/24/98	6/25/98	6/24/98	6/24/98	6/25/98	6/25/98	6/24/98	6/25/98									
Units of Measure:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L									
Parameters																	
VOCs																	
Benzene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.5	J	0.2	U	0.2	U	0.5
Toluene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	3		0.2	U	0.2	U	68.6
Ethylbenzene	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	9		0.2	U	0.2	U	140
Total Xylenes	0.6	U	0.6	U	0.6	U	0.6	U	0.6	U	28		0.6	U	0.6	U	124
PAHs																	
Naphthalene <i>ΣS=40</i>	1.59	J	0.77	U	0.77	U	0.77	U	15.1	J	11,800		0.76	U	0.77	U	8.0
Acenaphthalylene	0.77	U	0.77	U	0.77	U	0.77	U	24.1	J	1,470	J	0.76	U	0.77	U	NA
Acenaphthene	0.77	U	0.77	U	0.77	U	0.77	U	150		5,000		0.76	U	0.77	U	NA
Fluorene <i>ΣS=800</i>	0.16	U	0.16	U	0.16	U	0.16	U	105		3,590		0.16	U	0.16	U	80
Phenanthrene	0.044	U	0.044	U	0.044	U	0.069	J	2.9	U	8,630		0.044	U	0.044	U	NA
Anthracene	0.03	U	0.030	U	0.030	U	0.83	J	9.6		7.8	U	0.03	U	0.030	U	NA
Fluoranthene	0.019	U	0.042	J	0.019	U	0.59		33.4		3,700		0.019	U	0.019	U	NA
Pyrene	0.17	U	0.17	U	0.17	U	0.48	J	39.7		4,520		0.17	U	0.17	U	NA
Benzo(a)anthracene	0.017	U	0.017	U	0.018	J	0.082		4.8		609		0.017	U	0.017	U	NA
Chrysene	0.057	U	0.057	U	0.057	U	0.135	J	6.8		647		0.056	U	0.057	U	NA
Benzo(b)fluoranthene	0.034	U	0.045	J	0.056	J	0.044	J	1.76		66		0.033	U	0.034	U	NA
Benzo(k)fluoranthene	0.026	U	0.026	U	0.026	U	0.026	U	1.01		99		0.026	U	0.026	U	NA
Benzo(a)pyrene <i>ΣS=0.2</i>	0.021	U	0.024	J	0.04	J	0.031	J	1.63		226		0.021	U	0.021	U	0.02
Dibenzo(a,h)pyrene	0.045	U	0.045	U	0.045	U	0.045	U	0.52	J	164		0.045	U	0.045	U	NA
Benzo(g,h,i)perylene	0.095	U	0.095	U	0.095	U	0.095	U	1	U	1,220		0.095	U	0.095	U	NA
Indeno(1,2,3-cd)pyrene	0.062	U	0.062	U	0.061	U	0.061	U	2.9	U	776		0.061	U	0.061	U	NA

VOC - Volatile Organic Compound.

PAH - Polynuclear Aromatic Hydrocarbon.

U = Analyte not detected at or above the reporting limit.

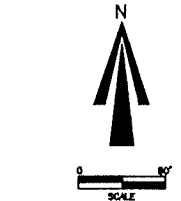
J = Estimated concentration.



DATE OF PHOTOGRAPHY APRIL 16, 1991
 PHOTOGRAPH BY JAMES W. HARRIS, JR., PHOTOGRAPHY, INC.

LEGEND

- BUILDING/STRUCTURE 1991 AERIAL
- MW-35 MONITORING WELL
- TW-06 FREE PRODUCT WELL
- PW-01 PRODUCT RECOVERY WELL
- FENCE
- PROPERTY LINE
- FREE PRODUCT RECOVERY TANKS
- TREE LINE
- 100-YEAR FLOOD PLAIN
- DIRECTION OF GROUNDWATER FLOW
- 730 GROUNDWATER ELEVATION CONTOUR
- ESTIMATED BOUNDARY OF CONTAMINANT PLUME



ABRAMS
 AERIAL SURVEY CORPORATION
 124 NORTH LARCH LANSING, MI 48012
 PO BOX 10008 LANSING, MI 48901-3008

NO.	DATE	APPR.	REVISION

MOSS - AMERICAN SITE
 Milwaukee, Wisconsin

WESTON
ENGINEERS/CONSULTANTS

DESIGNED	DATE	CLIENT APPROVALS	DATE

GROUNDWATER ELEVATION CONTOUR MAP
 2ND QUARTER 1998

DRAWN	DATE	FIGURE	REV. NO.
R.J.B.	FEB 98		
SCALE	W.A. NO.		
1" = 60'	02687007002002200		

ATTACHMENT A
LABORATORY REPORTS



Roy F. Weston, Inc.
Suite 270
2125 University Park Drive
Okemos, Michigan 48864-3975
517-349-8255 • Fax 517-349-0798

9 September 1998

Mr. Tom Graan
Roy F. Weston, Inc.
Three Hawthorn Parkway
Suite 400
Vernon Hills, Illinois 60061

Re: Data Validation of Polynuclear Aromatic Hydrocarbon Analyses and Volatiles Analyses
Performed by Lancaster Laboratories, Lancaster, Pennsylvania for the
Kerr-McGee Corporation

Dear Mr. Graan:

I have reviewed the analytical data provided by Lancaster Laboratories of Lancaster, Pennsylvania for the Moss American site. The findings from the validation of the data are summarized below:

Polynuclear Aromatic Hydrocarbons (PAHs by HPLC) SDG # MOS03-01

1. Samples

<u>Weston Code</u>	<u>Lab Sample No.</u>	<u>Date Collected</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>
MW-5S-02	2953039	6/24/98	6/27/98	7/1/98
MW-3S-02	2953040	6/24/98	6/27/98	7/1/98
MW-3S-02DUP	2953041	6/24/98	6/27/98	7/1/98
MW-26S-02	2953042	6/24/98	6/27/98	7/1/98
MW-25S-02	2953043	6/24/98	6/27/98	7/1/98
MW-13S-02	2953044	6/24/98	6/27/98	7/1/98
MW-4S-02	2953045	6/24/98	6/27/98	7/13/98
MW-10S-02	2953046	6/24/98	6/27/98	7/1/98
MW-9S-02	2953047	6/24/98	6/27/98	7/1/98
MW-29S-02	2953048	6/24/98	6/27/98	7/1/98
MW-6S-02	2953049	6/24/98	6/27/98	7/1/98
MW-28S-02	2953050	6/24/98	6/27/98	7/1/98
MW-28S-02MS	2953051	6/24/98	6/27/98	7/1/98
MW-28S-02MSD	2953052	6/24/98	6/27/98	7/1/98
FB-01-02	2953053	6/24/98	6/27/98	7/1/98
TW-05-02	2954048	6/25/98	6/29/98	7/2/98
MW-27S-02	2954049	6/25/98	6/29/98	6/30/98
TW-09-02	2954050	6/25/98	6/29/98	7/13/98
MW-07-02	2954051	6/25/98	6/29/98	7/13/98





Mr. Tom Graan
Roy F. Weston, Inc.

-2-

9 September 1998

Moss American
SDG # MOS03-01

Polynuclear Aromatic Hydrocarbons (PAHs by HPLC)

<u>Weston Code</u>	<u>Lab Sample No.</u>	<u>Date Collected</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>
MW-07-02DUP	2954052	6/25/98	6/29/98	7/13/98
MW-20S-02	2954053	6/25/98	6/29/98	6/30/98
FB-02-02	2954054	6/25/98	6/29/98	6/30/98

2. Holding Times

All samples were extracted and analyzed within the required holding times.

3. Method Blanks

Two method blanks were associated with these samples. Method Blank PBLKFD was free of contamination. Method Blank PBLKF7 contained acenaphthene at 3.4 ug/L. This contamination had no affect on the associated data and no action was taken.

4. Field Blanks

Sample FB-01-02 and FB-02-02 were field blanks. These samples were free of polynuclear aromatic hydrocarbon (PNA) contamination.

5. Matrix Spike/Matrix Spike Duplicate

Sample MW-28S-02 was used for the matrix spike/matrix spike duplicate audit. All matrix spike and matrix spike duplicate recoveries were within the Moss American QAPP acceptance limits. All relative percent difference values were acceptable.

6. Surrogates

Sample MW-3S-02DUP had surrogate spike recoveries for nitrobenzene (17%) and triphenylene (18%) outside acceptance limits. The Sample was re-extracted outside of holding time and the surrogate recoveries were acceptable for the re-analysis. Surrogate spike recoveries for



Mr. Tom Graan
Roy F. Weston, Inc.

-3-

9 September 1998

nitrobenzene in Sample MW-07-02DUP and MW-07-02 were diluted out. Surrogate spike recoveries for triphenylene in Samples MW-07-02DUP, MW-4S-02, MW-07-02, TW-09-02, TW-09-02DIL, and TW-05-02 were diluted out.

Qualify all PNA results for sample MW-3S-02DUP as estimated (J).

Moss American
SDG # MOS03-01

7. Overall Assessment

The surrogate recoveries for nitrobenzene and triphenylene in Sample MW-3S-02DUP were outside the acceptance limits. The sample was re-extracted and reanalyzed after holding time. The surrogate recoveries for the reanalysis were acceptable. Therefore, the PNA results for Sample MW-3S-02DUP were qualified as estimated (J).

Volatiles by GC (BTEX)

SDG # MOS03-01

1. Samples

<u>Weston Code</u>	<u>Lab Sample No.</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
MW-5S-02	2953039	6/24/98	6/26/98
MW-3S-02	2953040	6/24/98	6/26/98
MW-3S-02DUP	2953041	6/24/98	6/26/98
MW-26S-02	2953042	6/24/98	6/26/98
MW-25S-02	2953043	6/24/98	6/26/98
MW-13S-02	2953044	6/24/98	6/26/98
MW-4S-02	2953045	6/24/98	6/26/98
MW-10S-02	2953046	6/24/98	6/27/98
MW-9S-02	2953047	6/24/98	6/27/98
MW-29S-02	2953048	6/24/98	6/27/98
MW-6S-02	2953049	6/24/98	6/27/98
MW-28S-02	2953050	6/24/98	6/26/98
MW-28S-02MS	2953051	6/24/98	6/26/98
MW-28S-02MSD	2953052	6/24/98	6/26/98
FB-01-02	2953053	6/24/98	6/27/98
TRIP BLANK1	2953054	6/17/98	6/26/98
TW-05-02	2954048	6/25/98	7/03/98



Mr. Tom Graan
Roy F. Weston, Inc.

-4-

9 September 1998

<u>Weston Code</u>	<u>Lab Sample No.</u>	<u>Date Collected</u>	<u>Date Analyzed</u>
MW-27S-02	2954049	6/25/98	7/02/98
TW-09-02	2954050	6/25/98	7/03/98
MW-07-02	2954051	6/25/98	7/03/98
MW-07-02DUP	2954052	6/25/98	7/03/98
MW-20S-02	2954053	6/25/98	7/03/98
FB-02-02	2954054	6/25/98	7/02/98
TRIP BLANK2	2954055	6/17/98	7/02/98

Moss American
SDG # MOS03-01

2. Holding Times

All samples were analyzed within the required holding times.

3. Method Blanks

Three method blanks were associated with these samples. All method blanks were free of contamination.

4. Field Blanks

Samples FB-01-02 and FB-02-02 were designated as field blanks. Both samples were free of contamination.

5. Matrix Spike/Matrix Spike Duplicate

Sample MW-28S-02 was used for the matrix spike/matrix spike duplicate audit. All matrix spike/matrix spike duplicate recoveries were acceptable. All relative percent difference values were acceptable.

6. Surrogates

All trifluorotoluene surrogate spike recoveries were acceptable for all samples.



Mr. Tom Graan
Roy F. Weston, Inc.

-5-

9 September 1998

7. Overall Assessment

The BTEX results for the samples presented in this sample delivery group were acceptable for use without qualification.

If you have any questions regarding this report, feel free to call me at your convenience at (517) 349-8255.

Very truly yours

ROY F. WESTON, INC.

A handwritten signature in cursive script that reads "Linda J. Korobka/sr".

Linda J. Korobka
Senior Project Scientist

LJK/slr



Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. WW 2953040

Collected: 6/24/98 at 10:40 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-3S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
 MW-3S SDG#: MOS03-02

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	METHOD DETECTION LIMIT	
1861	PAH's in Water			See Page 2
8213	BTEX (8021)			See Page 3

1 COPY TO Kerr-McGee Corporation
 1 COPY TO Roy F. Weston
 1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
 ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300
 20:45:51 D 0003 16 128410 620823
 320 0.00 00021753 ASR000

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs

MEMBER



LLI Sample No. **WW 2953040**

Collected: 6/24/98 at 10:40 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-3S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
MW-3S SDG#: MOS03-02

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	N.D.	0.77	ug/l
3281	Acenaphthylene	N.D.	0.77	ug/l
3282	Acenaphthene	N.D.	0.77	ug/l
3283	Fluorene	N.D.	0.16	ug/l
3284	Phenanthrene	N.D.	0.044	ug/l
3285	Anthracene	N.D.	0.030	ug/l
3286	Fluoranthene	0.021 J	0.019	ug/l
3287	Pyrene	N.D.	0.17	ug/l
3288	Benzo(a)anthracene	N.D.	0.017	ug/l
3289	Chrysene	N.D.	0.057	ug/l
3290	Benzo(b)fluoranthene	N.D.	0.034	ug/l
3291	Benzo(k)fluoranthene	N.D.	0.026	ug/l
3292	Benzo(a)pyrene	N.D.	0.021	ug/l
3293	Dibenzo(a,h)anthracene	N.D.	0.045	ug/l
3294	Benzo(g,h,i)perylene	N.D.	0.095	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.061	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER

Lancaster Laboratories
1000 North 10th Street
P.O. Box 1000
Oklahoma City, Oklahoma 73102

LLI Sample No. WW 2953040

Collected: 6/24/98 at 10:40 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-3S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
MW-3S SDG#: MOS03-02

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles

LABORATORY REPORT
MICHIELE TURNER
MANAGER, VOLATILES

48



LLI Sample No. WW 2953040

Collected: 06/24/98 at 10:40 by JA

Submitted: 06/25/98

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

MW-3S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
MW-3S SDG#: MOS03-02

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1450	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/26/98 1336	Danerys Clark

MEMBER
EXCITE

Lancaster Laboratories
1000...
...

LLI Sample No. 2953040
MW-3S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH	
1861 PAH's in Water		Batch: 981770007A										
3280	Naphthalene											
	0.77 ug/l	N.D.		97	87	11	80			37	120	
3281	Acenaphthylene											
	0.77 ug/l	N.D.		98	89	10	83			41	135	
3282	Acenaphthene											
	0.77 ug/l	3.4 J ug/l		97	91	6	90			38	135	
3283	Fluorene											
	0.16 ug/l	N.D.		100	92	7	88			41	140	
3284	Phenanthrene											
	0.044 ug/l	N.D.		99	92	6	89			48	152	
3285	Anthracene											
	0.030 ug/l	N.D.		96	90	6	88			42	143	
3286	Fluoranthene											
	0.019 ug/l	N.D.		98	92	5	89			48	155	
3287	Pyrene											
	0.17 ug/l	N.D.		97	94	3	92			51	146	
3288	Benzo(a)anthracene											
	0.017 ug/l	N.D.		93	89	4	88			52	146	
3289	Chrysene											
	0.057 ug/l	N.D.		96	92	3	87			56	145	
3290	Benzo(b)fluoranthene											
	0.034 ug/l	N.D.		94	87	6	91			59	141	
3291	Benzo(k)fluoranthene											
	0.026 ug/l	N.D.		95	91	3	91			60	137	
3292	Benzo(a)pyrene											
	0.021 ug/l	N.D.		92	88	4	90			42	158	
3293	Dibenzo(a,h)anthracene											
	0.045 ug/l	N.D.		93	93	1	92			49	142	
3294	Benzo(g,h,i)perylene											
	0.095 ug/l	N.D.		95	94	0	93			46	148	
3295	Indeno(1,2,3-cd)pyrene											
	0.061 ug/l	N.D.		98	96	2	96			64	134	
8213 BTEX (8021)		Batch: 98176A65										
0776	Benzene											
	0.2 ug/l	N.D.		101	105	4	111			78	138	
0777	Toluene											
	0.2 ug/l	N.D.		103	104	1	108			78	118	
0778	Ethylbenzene											
	0.2 ug/l	N.D.		101	101	0	106			77	119	
0779	Total Xylenes											
	0.6 ug/l	N.D.		104	104	0	109			76	116	

11/16/00
11/16/00



LLI Sample No. **2953040**
MW-3S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SURROGATE SUMMARY			SURROGATE LIMITS	
TRIAL ID	SURROGATE	RECOVERY %	LOW	HIGH
1861 PAH's in Water	Nitrobenz	88	60	120
	Triphenyle	81	60	120
8213 BTEX (8021)	TFT	108	70	130

MEMBERED
ACCEPT



Lancaster Laboratories
 A division of Thermo Analytical Inc.

LLI Sample No. **WW 2953041**
 Collected: 6/24/98 at 10:40 by JA

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

Submitted: 6/25/98 Reported: 7/20/98
 Discard: 8/20/98

MW-3S-02DUP Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
 MWD3S SDG#: MOS03-03

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	METHOD DETECTION LIMIT	
1861	PAH's in Water			See Page 2
8213	BTEX (8021)			See Page 3

1 COPY TO Kerr-McGee Corporation ATTN: Garet Van de Steeg, PhD
 1 COPY TO Roy F. Weston ATTN: Mr. Tom Graan
 1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300
 20:46:36 D 0003 16 128410 620823
 320 0.00 00021753 ASR000

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs

MEMBER

LLI Sample No. **WW 2953041**

Collected: 6/24/98 at 10:40 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-3S-02DUP Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
MWD3S SDG#: MOS03-03

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	DETECTION LIMIT	UNITS
PAH's in Water					
3280	Naphthalene	N.D.	0.80	ug/l	
3281	Acenaphthylene	N.D.	0.80	ug/l	
3282	Acenaphthene	N.D.	0.8	ug/l	
3283	Fluorene	N.D.	0.17	ug/l	
3284	Phenanthrene	N.D.	0.046	ug/l	
3285	Anthracene	N.D.	0.031	ug/l	
3286	Fluoranthene	N.D.	0.020	ug/l	
3287	Pyrene	N.D.	0.18	ug/l	
3288	Benzo(a)anthracene	N.D.	0.018	ug/l	
3289	Chrysene	N.D.	0.059	ug/l	
3290	Benzo(b)fluoranthene	N.D.	0.035	ug/l	
3291	Benzo(k)fluoranthene	N.D.	0.027	ug/l	
3292	Benzo(a)pyrene	N.D.	0.022	ug/l	
3293	Dibenzo(a,h)anthracene	N.D.	0.047	ug/l	
3294	Benzo(g,h,i)perylene	N.D.	0.099	ug/l	
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.064	ug/l	

The surrogate data is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

Handwritten note:
4/25/98
8/20/98

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jennifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER



LLI Sample No. WW 2953041

Collected: 6/24/98 at 10:40 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-3S-02DUP Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
MWD3S SDG#: MOS03-03

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

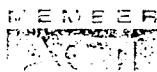
AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION	LIMIT UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles



Lancaster Laboratories
1000 North 10th Street
P.O. Box 12405
Oklahoma City, OK 73112





LLI Sample No. WW 2953041

Collected: 06/24/98 at 10:40 by JA

Submitted: 06/25/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

MW-3S-02DUP Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
MWD3S SDG#: MOS03-03

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1612	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/26/98 1408	Danerys Clark

MEMBER
 10/1/98
 10/1/98

10/1/98
 10/1/98
 10/1/98

10



LLI Sample No. 2953041
 MW-3S-02DUP Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
1861 PAH's in Water		Batch: 981770007A									
3280	Naphthalene										
	0.80 ug/l	N.D.		97	87	11	80			37	120
3281	Acenaphthylene										
	0.80 ug/l	N.D.		98	89	10	83			41	135
3282	Acenaphthene										
	0.8 ug/l	3.4 J ug/l		97	91	6	90			38	135
3283	Fluorene										
	0.17 ug/l	N.D.		100	92	7	88			41	140
3284	Phenanthrene										
	0.046 ug/l	N.D.		99	92	6	89			48	152
3285	Anthracene										
	0.031 ug/l	N.D.		96	90	6	88			42	143
3286	Fluoranthene										
	0.020 ug/l	N.D.		98	92	5	89			48	155
3287	Pyrene										
	0.18 ug/l	N.D.		97	94	3	92			51	146
3288	Benzo(a)anthracene										
	0.018 ug/l	N.D.		93	89	4	88			52	146
3289	Chrysene										
	0.059 ug/l	N.D.		96	92	3	87			56	145
3290	Benzo(b)fluoranthene										
	0.035 ug/l	N.D.		94	87	6	91			59	141
3291	Benzo(k)fluoranthene										
	0.027 ug/l	N.D.		95	91	3	91			60	137
3292	Benzo(a)pyrene										
	0.022 ug/l	N.D.		92	88	4	90			42	158
3293	Dibenzo(a,h)anthracene										
	0.047 ug/l	N.D.		93	93	1	92			49	142
3294	Benzo(g,h,i)perylene										
	0.099 ug/l	N.D.		95	94	0	93			46	148
3295	Indeno(1,2,3-cd)pyrene										
	0.064 ug/l	N.D.		98	96	2	96			64	134
8213 BTEX (8021)		Batch: 98176A65									
0776	Benzene										
	0.2 ug/l	N.D.		101	105	4	111			78	138
0777	Toluene										
	0.2 ug/l	N.D.		103	104	1	108			78	118
0778	Ethylbenzene										
	0.2 ug/l	N.D.		101	101	0	106			77	119
0779	Total Xylenes										
	0.6 ug/l	N.D.		104	104	0	109			76	116

MEMBER
 FACILITY

APD



LLI Sample No. 2953041
MW-3S-02DUP Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
1861 PAH's in Water		Nitrobenz	17	60	120
		Triphenyle	18	60	120
8213 BTEX (8021)		TFT	108	70	130

MEMBER
Lancaster Laboratories
11111
11111



LLI Sample No. WW 2953045

Collected: 6/24/98 at 13:25 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-4S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M4--S SDG#: MOS03-07

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1861	PAH's in Water		See Page 2
8213	BTEX (8021)		See Page 3

1 COPY TO Kerr-McGee Corporation
1 COPY TO Roy F. Weston
1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
20:49:50 D 0003 16 128410 620823
320 0.00 00021753 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER
Lancaster Laboratories
A Division of Thermo Analytical Inc.



LLI Sample No. WW 2953045

Collected: 6/24/98 at 13:25 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-4S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M4--S SDG#: MOS03-07

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

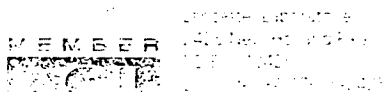
P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD		UNITS
			DETECTION	LIMIT	
PAH's in Water					
3280	Naphthalene	172.	J	39.	ug/l
3281	Acenaphthylene	N.D.		39.	ug/l
3282	Acenaphthene	168.	J	39.	ug/l
3283	Fluorene	50.		8.2	ug/l
3284	Phenanthrene	325.		2.2	ug/l
3285	Anthracene	80.7		1.5	ug/l
3286	Fluoranthene	366.		1.0	ug/l
3287	Pyrene	407.		8.7	ug/l
3288	Benzo(a)anthracene	142.		0.87	ug/l
3289	Chrysene	151.		2.8	ug/l
3290	Benzo(b)fluoranthene	106.		1.7	ug/l
3291	Benzo(k)fluoranthene	61.3		1.3	ug/l
3292	Benzo(a)pyrene	112.		1.1	ug/l
3293	Dibenzo(a,h)anthracene	N.D.		2.3	ug/l
3294	Benzo(g,h,i)perylene	76.		4.8	ug/l
3295	Indeno(1,2,3-cd)pyrene	75.		3.1	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs





LLI Sample No. WW 2953045

Collected: 6/24/98 at 13:25 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-4S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M4--S SDG#: MOS03-07

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	8.	0.2	ug/l
0777	Toluene	17.	0.2	ug/l
0778	Ethylbenzene	24.	0.2	ug/l
0779	Total Xylenes	46.	0.6	ug/l

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles

MEMBER
FOOTPRINT



LLI Sample No. WW 2953045

Collected: 06/24/98 at 13:25 by JA

Submitted: 06/25/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

MW-4S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M4--S SDG#: MOS03-07

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/13/98 2352	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/26/98 1618	Danerys Clark

MEMBER

Lancaster Laboratories
 1400 Lancaster Ave.
 Westborough, MA 01581
 Phone: 508/853-1100



LLI Sample No. 2953045
 MW-4S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH	
-----		Batch: 981770007A										

3280	Naphthalene											
	39. ug/l	N.D.		97	87	11	80			37	120	
3281	Acenaphthylene											
	39. ug/l	N.D.		98	89	10	83			41	135	
3282	Acenaphthene											
	39. ug/l	3.4 J ug/l		97	91	6	90			38	135	
3283	Fluorene											
	8.2 ug/l	N.D.		100	92	7	88			41	140	
3284	Phenanthrene											
	2.2 ug/l	N.D.		99	92	6	89			48	152	
3285	Anthracene											
	1.5 ug/l	N.D.		96	90	6	88			42	143	
3286	Fluoranthene											
	1.0 ug/l	N.D.		98	92	5	89			48	155	
3287	Pyrene											
	8.7 ug/l	N.D.		97	94	3	92			51	146	
3288	Benzo(a)anthracene											
	0.87 ug/l	N.D.		93	89	4	88			52	146	
3289	Chrysene											
	2.8 ug/l	N.D.		96	92	3	87			56	145	
3290	Benzo(b)fluoranthene											
	1.7 ug/l	N.D.		94	87	6	91			59	141	
3291	Benzo(k)fluoranthene											
	1.3 ug/l	N.D.		95	91	3	91			60	137	
3292	Benzo(a)pyrene											
	1.1 ug/l	N.D.		92	88	4	90			42	158	
3293	Dibenzo(a,h)anthracene											
	2.3 ug/l	N.D.		93	93	1	92			49	142	
3294	Benzo(g,h,i)perylene											
	4.8 ug/l	N.D.		95	94	0	93			46	148	
3295	Indeno(1,2,3-cd)pyrene											
	3.1 ug/l	N.D.		98	96	2	96			64	134	
-----		Batch: 98176A65										

0776	Benzene											
	0.2 ug/l	N.D.		101	105	4	111			78	138	
0777	Toluene											
	0.2 ug/l	N.D.		103	104	1	108			78	118	
0778	Ethylbenzene											
	0.2 ug/l	N.D.		101	101	0	106			77	119	
0779	Total Xylenes											
	0.6 ug/l	N.D.		104	104	0	109			76	116	

MEMBER



LLI Sample No. 2953045
MW-4S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

	SURROGATE SUMMARY		SURROGATE LIMITS		
	TRIAL ID	SURROGATE	RECOVERY %	LOW	HIGH
1861 PAH's in Water		Nitrobenz Triphenyle	71 (5)	60 60	120 120
8213 BTEX (8021)		TFT	110	70	130

(5) Accurate surrogate recoveries could not be determined due to interferences or dilution necessary for this sample.

MEMBER
ACCEPT



Lancaster Laboratories

A division of Thermo Analytical Inc.

LLI Sample No. **WW 2953039**

Collected: 6/24/98 at 10:00 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-5S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
MW-5S SDG#: MOS03-01

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD	
		RESULTS	DETECTION LIMIT UNITS
1861	PAH's in Water		See Page 2
8213	BTEX (8021)		See Page 3

1 COPY TO Kerr-McGee Corporation
1 COPY TO Roy F. Weston
1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
20:44:53 D 0003 16 128410 620823
320 0.00 00021753 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER
ANALYSIS REPORT



LLI Sample No. WW 2953039

Collected: 6/24/98 at 10:00 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-5S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
MW-5S SDG#: MOS03-01

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	N.D.	0.77	ug/l
3281	Acenaphthylene	N.D.	0.77	ug/l
3282	Acenaphthene	N.D.	0.77	ug/l
3283	Fluorene	N.D.	0.16	ug/l
3284	Phenanthrene	N.D.	0.044	ug/l
3285	Anthracene	N.D.	0.030	ug/l
3286	Fluoranthene	N.D.	0.019	ug/l
3287	Pyrene	N.D.	0.17	ug/l
3288	Benzo(a)anthracene	N.D.	0.017	ug/l
3289	Chrysene	N.D.	0.057	ug/l
3290	Benzo(b)fluoranthene	N.D.	0.034	ug/l
3291	Benzo(k)fluoranthene	N.D.	0.026	ug/l
3292	Benzo(a)pyrene	N.D.	0.021	ug/l
3293	Dibenzo(a, h)anthracene	N.D.	0.045	ug/l
3294	Benzo(g, h, i)perylene	N.D.	0.096	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.062	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER
Lancaster Laboratories
A Division of Thermo Analytical Inc.



LLI Sample No. WW 2953039

Collected: 6/24/98 at 10:00 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-5S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
MW-5S SDG#: MOS03-01

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles

RECEIVED
Lancaster Laboratories
7/20/98



LLI Sample No. WW 2953039

Collected: 06/24/98 at 10:00 by JA

Submitted: 06/25/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

MW-5S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
MW-5S SDG#: MOS03-01

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1428	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/26/98 1303	Danerys Clark

W A N E M E E R
 LABORATORY
 1000 N. W. 10th St.
 Ft. Lauderdale, FL 33304
 (305) 463-1000



LLI Sample No. 2953039
 MW-5S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
1861 PAH's in Water		Batch: 981770007A									
3280	Naphthalene 0.77 ug/l	N.D.		97	87	11	80			37	120
3281	Acenaphthylene 0.77 ug/l	N.D.		98	89	10	83			41	135
3282	Acenaphthene 0.77 ug/l	3.4 J ug/l		97	91	6	90			38	135
3283	Fluorene 0.16 ug/l	N.D.		100	92	7	88			41	140
3284	Phenanthrene 0.044 ug/l	N.D.		99	92	6	89			48	152
3285	Anthracene 0.030 ug/l	N.D.		96	90	6	88			42	143
3286	Fluoranthene 0.019 ug/l	N.D.		98	92	5	89			48	155
3287	Pyrene 0.17 ug/l	N.D.		97	94	3	92			51	146
3288	Benzo(a)anthracene 0.017 ug/l	N.D.		93	89	4	88			52	146
3289	Chrysene 0.057 ug/l	N.D.		96	92	3	87			56	145
3290	Benzo(b)fluoranthene 0.034 ug/l	N.D.		94	87	6	91			59	141
3291	Benzo(k)fluoranthene 0.026 ug/l	N.D.		95	91	3	91			60	137
3292	Benzo(a)pyrene 0.021 ug/l	N.D.		92	88	4	90			42	158
3293	Dibenzo(a,h)anthracene 0.045 ug/l	N.D.		93	93	1	92			49	142
3294	Benzo(g,h,i)perylene 0.096 ug/l	N.D.		95	94	0	93			46	148
3295	Indeno(1,2,3-cd)pyrene 0.062 ug/l	N.D.		98	96	2	96			64	134
8213 BTEX (8021)		Batch: 98176A65									
0776	Benzene 0.2 ug/l	N.D.		101	105	4	111			78	138
0777	Toluene 0.2 ug/l	N.D.		103	104	1	108			78	118
0778	Ethylbenzene 0.2 ug/l	N.D.		101	101	0	106			77	119
0779	Total Xylenes 0.6 ug/l	N.D.		104	104	0	109			76	116

MEMBER



LLI Sample No. 2953039
MW-5S-02 Grab Water Sample
Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
1861 PAH's in Water	Nitrobenz	94	60	120
	Triphenyle	90	60	120
8213 BTEX (8021)	TFT	107	70	130

MEMBER
Kerr-McGee



Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. WW 2953049

Collected: 6/24/98 at 17:15 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-6S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
 M6-S2 SDG#: MOS03-11

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Re1.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1861	PAH's in Water		See Page 2
8213	BTEX (8021)		See Page 3

1 COPY TO Kerr-McGee Corporation
 1 COPY TO Roy F. Weston
 1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
 ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300
 20:52:40 D 0003 16 128410 620823
 320 0.00 00021753 ASR000

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs

RECEIVED
 7/20/98

LLI Sample No. WW 2953049
Collected: 6/24/98 at 17:15 by JA

Submitted: 6/25/98 Reported: 7/20/98
Discard: 8/20/98

MW-6S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M6-S2 SDG#: MOS03-11

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	N.D.	0.77	ug/l
3281	Acenaphthylene	N.D.	0.77	ug/l
3282	Acenaphthene	N.D.	0.77	ug/l
3283	Fluorene	N.D.	0.16	ug/l
3284	Phenanthrene	N.D.	0.044	ug/l
3285	Anthracene	N.D.	0.030	ug/l
3286	Fluoranthene	N.D.	0.019	ug/l
3287	Pyrene	N.D.	0.17	ug/l
3288	Benzo(a)anthracene	N.D.	0.017	ug/l
3289	Chrysene	N.D.	0.057	ug/l
3290	Benzo(b)fluoranthene	N.D.	0.034	ug/l
3291	Benzo(k)fluoranthene	N.D.	0.026	ug/l
3292	Benzo(a)pyrene	N.D.	0.021	ug/l
3293	Dibenzo(a,h)anthracene	N.D.	0.045	ug/l
3294	Benzo(g,h,i)perylene	N.D.	0.095	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.061	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

M E M E R



Lancaster Laboratories

A division of Thermo Analytical Inc.

LLI Sample No. **WW 2953049**

Collected: 6/24/98 at 17:15 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-6S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M6-S2 SDG#: MOS03-11

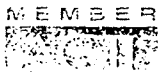
Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles



Lancaster Laboratories
4400 New Holland Pkwy
PO Box 12436
Milwaukee, WI 53212-0436



LLI Sample No. WW 2953049

Collected: 06/24/98 at 17:15 by JA

Submitted: 06/25/98

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

MW-6S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M6-S2 SDG#: MOS03-11

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1823	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/27/98 0223	Danerys Clark

MEMBER
Lancaster Laboratories
1000 North Lincoln Street
Mesa, AZ 85203
480-968-1000



LLI Sample No. 2953049

MW-6S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH

1861 PAH's in Water		Batch: 981770007A									

3280	Naphthalene										
	0.77 ug/l	N.D.		97	87	11	80			37	120
3281	Acenaphthylene										
	0.77 ug/l	N.D.		98	89	10	83			41	135
3282	Acenaphthene										
	0.77 ug/l	3.4 J ug/l		97	91	6	90			38	135
3283	Fluorene										
	0.16 ug/l	N.D.		100	92	7	88			41	140
3284	Phenanthrene										
	0.044 ug/l	N.D.		99	92	6	89			48	152
3285	Anthracene										
	0.030 ug/l	N.D.		96	90	6	88			42	143
3286	Fluoranthene										
	0.019 ug/l	N.D.		98	92	5	89			48	155
3287	Pyrene										
	0.17 ug/l	N.D.		97	94	3	92			51	146
3288	Benzo(a)anthracene										
	0.017 ug/l	N.D.		93	89	4	88			52	146
3289	Chrysene										
	0.057 ug/l	N.D.		96	92	3	87			56	145
3290	Benzo(b)fluoranthene										
	0.034 ug/l	N.D.		94	87	6	91			59	141
3291	Benzo(k)fluoranthene										
	0.026 ug/l	N.D.		95	91	3	91			60	137
3292	Benzo(a)pyrene										
	0.021 ug/l	N.D.		92	88	4	90			42	158
3293	Dibenzo(a,h)anthracene										
	0.045 ug/l	N.D.		93	93	1	92			49	142
3294	Benzo(g,h,i)perylene										
	0.095 ug/l	N.D.		95	94	0	93			46	148
3295	Indeno(1,2,3-cd)pyrene										
	0.061 ug/l	N.D.		98	96	2	96			64	134

8213 BTEX (8021)		Batch: 98177A65									

0776	Benzene										
	0.2 ug/l	N.D.		104	102	2	107			78	138
0777	Toluene										
	0.2 ug/l	N.D.		99	100	0	106			78	118
0778	Ethylbenzene										
	0.2 ug/l	N.D.		94	94	0	105			77	119
0779	Total Xylenes										
	0.6 ug/l	N.D.		97	97	0	108			76	116

MEMBER
ANALYTICAL
LABORATORIES



LLI Sample No. **2953049**
MW-6S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

	SURROGATE SUMMARY		SURROGATE LIMITS		
	TRIAL ID	SURROGATE	RECOVERY %	LOW	HIGH
1861 PAH's in Water		Nitrobenz	92	60	120
		Triphenyle	84	60	120
8213 BTEX (8021)		TFT	110	70	130

MEMBER
OF THE
ANALYTICAL CHEMISTRY SOCIETY

LLI Sample No. **WW 2954051**
Collected: 6/25/98 at 10:00 by EC

Submitted: 6/26/98 Reported: 7/16/98
Discard: 8/16/98

MW-07-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
MW-07 SDG#: MOS03-18

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	DETECTION LIMIT	UNITS
1861	PAH's in Water			See Page	2

1 COPY TO Kerr-McGee Corporation ATTN: Garet Van de Steeg, PhD
1 COPY TO Roy F. Weston ATTN: Mr. Tom Graan
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
21:17:56 D 0003 8 128410 621065
232 0.00 00015820 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
1400 Lewis and Clark
PO Box 1000
Lancaster, PA 17303



LLI Sample No. **ww 2954051**

Collected: 6/25/98 at 10:00 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

MW-07-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI
 MW-07 SDG#: MOS03-18

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	22.3 J	7.7	ug/l
3281	Acenaphthylene	N.D.	7.7	ug/l
3282	Acenaphthene	29.2 J	7.7	ug/l
3283	Fluorene	3.8 J	1.6	ug/l
3284	Phenanthrene	25.2	0.44	ug/l
3285	Anthracene	5.2	0.30	ug/l
3286	Fluoranthene	45.2	0.19	ug/l
3287	Pyrene	59.1	1.7	ug/l
3288	Benzo(a)anthracene	21.2	0.17	ug/l
3289	Chrysene	40.4	0.57	ug/l
3290	Benzo(b)fluoranthene	18.6	0.34	ug/l
3291	Benzo(k)fluoranthene	11.1	0.26	ug/l
3292	Benzo(a)pyrene	30.5	0.21	ug/l
3293	Dibenzo(a,h)anthracene	4.2	0.45	ug/l
3294	Benzo(g,h,i)perylene	42.0	1.0	ug/l
3295	Indeno(1,2,3-cd)pyrene	17.2	0.61	ug/l

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample extraction.

The % difference for the calibration verification standard fell outside the +/- 15% criteria for the compounds listed below. Since the average of the % difference values met the criteria, the results were reported.

The compounds are fluorene, chrysene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs



Lancaster Laboratories
 2428 New Holland Pike
 P.O. Box 12426
 Columbia, PA 17602-0426
 Phone: (717) 656-2300



LLI Sample No. WW 2954051

Collected: 06/25/98 at 10:00 by EC

Submitted: 06/26/98

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

MW-07-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
MW-07 SDG#: MOS03-18

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/13/98 2234	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/29/98 0800	Joseph S. Feister



MEMBER
Lancaster Laboratories
2000 Lancaster Road
P.O. Box 12400
Oklahoma City, Oklahoma 73112



LLI Sample No. 2954051
 MW-07-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
1861 PAH's in Water		Batch: 981770007B									
3280	Naphthalene 7.7 ug/l	N.D.	97	87		11	64	71	10	37	120
3281	Acenaphthylene 7.7 ug/l	N.D.	98	89		10	75	82	10	41	135
3282	Acenaphthene 7.7 ug/l	N.D.	97	91		6	70	79	12	38	135
3283	Fluorene 1.6 ug/l	N.D.	100	92		7	76	84	10	41	140
3284	Phenanthrene 0.44 ug/l	N.D.	99	92		6	82	88	7	48	152
3285	Anthracene 0.30 ug/l	N.D.	96	90		6	79	84	7	42	143
3286	Fluoranthene 0.19 ug/l	N.D.	98	92		5	88	92	5	48	155
3287	Pyrene 1.7 ug/l	N.D.	97	94		3	94	98	4	51	146
3288	Benzo(a)anthracene 0.17 ug/l	N.D.	93	89		4	88	91	4	52	146
3289	Chrysene 0.57 ug/l	N.D.	96	92		3	88	91	3	56	146
3290	Benzo(b)fluoranthene 0.34 ug/l	N.D.	94	87		6	87	91	4	59	141
3291	Benzo(k)fluoranthene 0.26 ug/l	N.D.	95	91		3	88	91	4	60	137
3292	Benzo(a)pyrene 0.21 ug/l	N.D.	92	88		4	88	91	3	42	158
3293	Dibenzo(a,h)anthracene 0.45 ug/l	N.D.	93	93		1	89	92	4	49	142
3294	Benzo(g,h,i)perylene 1.0 ug/l	N.D.	95	94		0	95	98	3	46	146
3295	Indeno(1,2,3-cd)pyrene 0.61 ug/l	N.D.	98	96		2	134	139	4	64	134



Lancaster Laboratories
 2425 North Lincoln Hwy
 P.O. Box 10001
 Milwaukee, WI 53210
 Phone: 414-224-1000
 Fax: 414-224-1001



LLI Sample No. 2954051
MW-07-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
Kerr-McGee Corporation

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
1861 PAH's in Water	Nitrobenz	15	60	120
	Triphenyle	354	60	120



LLI Sample No. WW 2954052

Collected: 6/25/98 at 10:00 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

MW-07-02 DUP Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
07DUP SDG#: MOS03-19

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	METHOD DETECTION LIMIT	
1861	PAH's in Water			See Page 2
8213	BTEX (8021)			See Page 3

1 COPY TO Kerr-McGee Corporation
1 COPY TO Roy F. Weston
1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
21:18:57 D 0003 8 128410 621065
232 0.00 00021753 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
2400 West 10th Avenue
PO Box 17425
Oklahoma City, Oklahoma 73117
Phone: (405) 762-2200
Fax: (405) 762-2201



LLI Sample No. WW 2954052

Collected: 6/25/98 at 10:00 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

MW-07-02 DUP Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI
 07DUP SDG#: MOS03-19

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
PAH's in Water				
3280	Naphthalene	16.1	J	7.7 ug/l
3281	Acenaphthylene	N.D.		7.7 ug/l
3282	Acenaphthene	24.4	J	7.7 ug/l
3283	Fluorene	3.6	J	1.6 ug/l
3284	Phenanthrene	27.6		0.44 ug/l
3285	Anthracene	7.7		0.30 ug/l
3286	Fluoranthene	59.0		0.19 ug/l
3287	Pyrene	75.7		1.7 ug/l
3288	Benzo(a)anthracene	25.6		0.17 ug/l
3289	Chrysene	34.1		0.57 ug/l
3290	Benzo(b)fluoranthene	20.2		0.34 ug/l
3291	Benzo(k)fluoranthene	11.6		0.26 ug/l
3292	Benzo(a)pyrene	25.3		0.21 ug/l
3293	Dibenzo(a,h)anthracene	2.3		0.45 ug/l
3294	Benzo(g,h,i)perylene	41.9		1.0 ug/l
3295	Indeno(1,2,3-cd)pyrene	15.0		0.62 ug/l

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample extraction.

The % difference for the calibration verification standard fell outside the +/- 15% criteria for the compounds listed below. Since the average of the % difference values met the criteria, the results were reported.

The compounds are fluorene, chrysene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs



Lancaster Laboratories
 2425 New Holland Pike
 P.O. Box 12425
 Harrisburg, PA 17112-0425
 (717) 656-2300



Lancaster Laboratories

A division of Thermo Analytical Inc.

LLI Sample No. **WW 2954052**

Collected: 6/25/98 at 10:00 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

MW-07-02 DUP Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
07DUP SDG#: MOS03-19

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	5.	0.2	ug/l
0777	Toluene	1.	0.2	ug/l
0778	Ethylbenzene	22.	0.2	ug/l
0779	Total Xylenes	68.	0.6	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17603-2425
Tel: (717) 656-2300



LLI Sample No. WW 2954052

Collected: 06/25/98 at 10:00 by EC

Submitted: 06/26/98

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

MW-07-02 DUP Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI
 07DUP SDG#: MOS03-19

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/13/98 2254	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/29/98 0800	Joseph S. Feister
8213	BTEX (8021)	SW-846 8021B	1	07/03/98 0119	Danerys Clark



Lancaster Laboratories
 2425 West Holland Pike
 PO Box 12425
 Lancaster PA 17605-7425
 717-391-1242



LLI Sample No. 2954052
 MW-07-02 DUP Grab Water Sample
 RFW W.O. #02687-007-002-002-00
 Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH	
1861 PAH's in Water		Batch: 981770007B										
3280	Naphthalene 7.7 ug/l	N.D.		97	87	11	64	71	10	37	120	
3281	Acenaphthylene 7.7 ug/l	N.D.		98	89	10	75	82	10	41	135	
3282	Acenaphthene 7.7 ug/l	N.D.		97	91	6	70	79	12	38	135	
3283	Fluorene 1.6 ug/l	N.D.		100	92	7	76	84	10	41	140	
3284	Phenanthrene 0.44 ug/l	N.D.		99	92	6	82	88	7	48	152	
3285	Anthracene 0.30 ug/l	N.D.		96	90	6	79	84	7	42	143	
3286	Fluoranthene 0.19 ug/l	N.D.		98	92	5	88	92	5	48	155	
3287	Pyrene 1.7 ug/l	N.D.		97	94	3	94	98	4	51	146	
3288	Benzo(a)anthracene 0.17 ug/l	N.D.		93	89	4	88	91	4	52	146	
3289	Chrysene 0.57 ug/l	N.D.		96	92	3	88	91	3	56	145	
3290	Benzo(b)fluoranthene 0.34 ug/l	N.D.		94	87	6	87	91	4	59	141	
3291	Benzo(k)fluoranthene 0.26 ug/l	N.D.		95	91	3	88	91	4	60	137	
3292	Benzo(a)pyrene 0.21 ug/l	N.D.		92	88	4	88	91	3	42	158	
3293	Dibenzo(a,h)anthracene 0.45 ug/l	N.D.		93	93	1	89	92	4	49	142	
3294	Benzo(g,h,i)perylene 1.0 ug/l	N.D.		95	94	0	95	98	3	46	148	
3295	Indeno(1,2,3-cd)pyrene 0.62 ug/l	N.D.		98	96	2	134	139	4	64	134	
8213 BTEX (8021)		Batch: 98182A65										
0776	Benzene 0.2 ug/l	N.D.		107	105	3	102			78	138	
0777	Toluene 0.2 ug/l	N.D.		106	103	3	101			78	118	
0778	Ethylbenzene 0.2 ug/l	N.D.		105	101	3	100			77	119	
0779	Total Xylenes 0.6 ug/l	N.D.		107	104	2	103			76	116	



Lancaster Laboratories
 2039 Newland Road, P.O. Box 11421
 Milwaukee, WI 53211-1421
 Tel: 414-224-2425 Fax: 414-224-2426



LLI Sample No. 2954052
MW-07-02 DUP Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
Kerr-McGee Corporation

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
1861 PAH's in Water		Nitrobenz	15	60	120
		Triphenyle	300	60	120
8213 BTEX (8021)		TFT	107	70	130



Lancaster Laboratories
2425 New Howard Pkwy
PO Box 12426
Lombard, IL 60148-0426
Tel: 630-261-1100

LLI Sample No. WW 2954048
 Collected: 6/25/98 at 08:10 by EC

Submitted: 6/26/98 Reported: 7/16/98
 Discard: 8/16/98

TW-05-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI
 TW-05 SDG#: MOS03-15

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1861	PAH's in Water		See Page 2
8213	BTEX (8021)		See Page 3

1 COPY TO Kerr-McGee Corporation ATTN: Garet Van de Steeg, PhD
 1 COPY TO Roy F. Weston ATTN: Mr. Tom Graan
 1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300
 21:14:01 D 0003 8 128410 621065
 232 0.00 00021753 ASR000

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs



Lancaster Laboratories
 1400 New Holland Pk.
 P.O. Box 10426
 Lancaster, PA 17607-0426
 Tel: 717-656-2300



LLI Sample No. WW 2954048

Collected: 6/25/98 at 08:10 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

TW-05-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
TW-05 SDG#: MOS03-15

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS		METHOD DETECTION LIMIT	UNITS
PAH's in Water					
3280	Naphthalene	15.1	J	7.7	ug/l
3281	Acenaphthylene	24.1	J	7.7	ug/l
3282	Acenaphthene	150.		7.7	ug/l
3283	Fluorene	105.		1.6	ug/l
3284	Phenanthrene	N.D.		2.9	ug/l
3285	Anthracene	9.6		0.30	ug/l
3286	Fluoranthene	33.4		0.19	ug/l
3287	Pyrene	39.7		1.7	ug/l
3288	Benzo(a)anthracene	4.80		0.17	ug/l
3289	Chrysene	6.8		0.57	ug/l
3290	Benzo(b)fluoranthene	1.76		0.34	ug/l
3291	Benzo(k)fluoranthene	1.01		0.26	ug/l
3292	Benzo(a)pyrene	1.63		0.21	ug/l
3293	Dibenzo(a,h)anthracene	0.52	J	0.45	ug/l
3294	Benzo(g,h,i)perylene	N.D.		1.0	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.		2.9	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
2425 New Holland Pkwy
PO Box 12425
Lancaster, PA 17606-7425
717-656-2300

LLI Sample No. **WW 2954048**

Collected: 6/25/98 at 08:10 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

TW-05-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
TW-05 SDG#: MOS03-15

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17405-0425
Tel: (717) 656-2300 Fax: (717) 656-2301



LLI Sample No. WW 2954048

Collected: 06/25/98 at 08:10 by EC

Submitted: 06/26/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

TW-05-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI
 TW-05 SDG#: MOS03-15

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/02/98 2121	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/29/98 0800	Joseph S. Feister
8213	BTEX (8021)	SW-846 8021B	1	07/03/98 0015	Danerys Clark



Lancaster Laboratories
 2419 New Holland Pike
 P.O. Box 12425
 Little Rock, AR 72212-0425
 Phone: (501) 223-1100



LLI Sample No. 2954048
 TW-05-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH	
1861 PAH's in Water		Batch: 981770007B										
3280	Naphthalene 7.7 ug/l	N.D.		97	87	11	64	71	10	37	120	
3281	Acenaphthylene 7.7 ug/l	N.D.		98	89	10	75	82	10	41	135	
3282	Acenaphthene 7.7 ug/l	N.D.		97	91	6	70	79	12	38	135	
3283	Fluorene 1.6 ug/l	N.D.		100	92	7	76	84	10	41	140	
3284	Phenanthrene 2.9 ug/l	N.D.		99	92	6	82	88	7	48	152	
3285	Anthracene 0.30 ug/l	N.D.		96	90	6	79	84	7	42	143	
3286	Fluoranthene 0.19 ug/l	N.D.		98	92	5	88	92	5	48	155	
3287	Pyrene 1.7 ug/l	N.D.		97	94	3	94	98	4	51	146	
3288	Benzo(a)anthracene 0.17 ug/l	N.D.		93	89	4	88	91	4	52	146	
3289	Chrysene 0.57 ug/l	N.D.		96	92	3	88	91	3	56	145	
3290	Benzo(b)fluoranthene 0.34 ug/l	N.D.		94	87	6	87	91	4	59	141	
3291	Benzo(k)fluoranthene 0.26 ug/l	N.D.		95	91	3	88	91	4	60	137	
3292	Benzo(a)pyrene 0.21 ug/l	N.D.		92	88	4	88	91	3	42	158	
3293	Dibenzo(a,h)anthracene 0.45 ug/l	N.D.		93	93	1	89	92	4	49	142	
3294	Benzo(g,h,i)perylene 1.0 ug/l	N.D.		95	94	0	95	98	3	46	148	
3295	Indeno(1,2,3-cd)pyrene 2.9 ug/l	N.D.		98	96	2	134	139	4	64	134	
8213 BTEX (8021)		Batch: 98182A65										
0776	Benzene 0.2 ug/l	N.D.		107	105	3	102			78	138	
0777	Toluene 0.2 ug/l	N.D.		106	103	3	101			78	118	
0778	Ethylbenzene 0.2 ug/l	N.D.		105	101	3	100			77	119	
0779	Total Xylenes 0.6 ug/l	N.D.		107	104	2	103			76	116	



Lancaster Laboratories
 1111 New Hope Ave
 PO Box 12400
 Milwaukee, WI 53212-0400
 Phone: 414-769-2211



LLI Sample No. 2954048
TW-05-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
Kerr-McGee Corporation

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
1861 PAH's in Water	Nitrobenz	97	60	120
	Triphenyle	269	60	120
8213 BTEX (8021)	TFT	105	70	130



Lancaster Laboratories
2405 New York Road, Suite
PO Box 10425
Milwaukee, WI 53210-0425

LLI Sample No. WW 2954050

Collected: 6/25/98 at 09:15 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

TW-09-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI
 TW-09 SDG#: MOS03-17

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1861	PAH's in Water		See Page 2
8213	BTEX (8021)		See Page 3

1 COPY TO Kerr-McGee Corporation
 1 COPY TO Roy F. Weston
 1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
 ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300
 21:16:43 D 0003 8 128410 621065
 232 0.00 00021753 ASR000

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs



Lancaster Laboratories
 2425 West Holland Pike
 PO Box 12475

Wilmington, PA 17805-2475



LLI Sample No. **ww 2954050**

Collected: 6/25/98 at 09:15 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

TW-09-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI
 TW-09 SDG#: MOS03-17

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION	LIMIT UNITS
PAH's in Water				
3280	Naphthalene	11,800.	200.	ug/l
3281	Acenaphthylene	1,470.	J 200.	ug/l
3282	Acenaphthene	5,000.	200.	ug/l
3283	Fluorene	3,590.	43.	ug/l
3284	Phenanthrene	8,630.	120.	ug/l
3285	Anthracene	N.D.	7.8	ug/l
3286	Fluoranthene	3,700.	50.	ug/l
3287	Pyrene	4,520.	45.	ug/l
3288	Benzo(a)anthracene	609.	4.5	ug/l
3289	Chrysene	647.	15.	ug/l
3290	Benzo(b)fluoranthene	66.	8.8	ug/l
3291	Benzo(k)fluoranthene	99.	6.8	ug/l
3292	Benzo(a)pyrene	226.	5.5	ug/l
3293	Dibenzo(a,h)anthracene	164.	12.	ug/l
3294	Benzo(g,h,i)perylene	1,220.	25.	ug/l
3295	Indeno(1,2,3-cd)pyrene	776.	16.	ug/l

The % difference for the calibration verification standard fell outside the +/- 15% criteria for the compounds listed below. Since the average of the % difference values met the criteria, the results were reported. The compounds are acenaphthylene, chrysene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, inden(1,2,3-cd)pyrene, and fluoranthene.

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs



Lancaster Laboratories
 2425 West Howard Place
 P.O. Box 12425
 Oklahoma City, OK 73112-0425

LLI Sample No. **WW 2954050**

Collected: 6/25/98 at 09:15 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

TW-09-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
TW-09 SDG#: MOS03-17

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

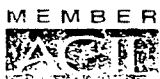
P.O. MOSS-AMERICAN
Ref.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	0.5	J	0.2 ug/l
0777	Toluene	3.		0.2 ug/l
0778	Ethylbenzene	9.		0.2 ug/l
0779	Total Xylenes	28.		0.6 ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles



Lancaster Laboratories
2400 New Holland Pike
PO Box 12420



LLI Sample No. WW **2954050**

Collected: 06/25/98 at 09:15 by EC

Submitted: 06/26/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

TW-09-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI
 TW-09 SDG#: MOS03-17

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS		ANALYST
				DATE	AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/13/98	2214	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/29/98	0800	Joseph S. Feister
8213	BTEX (8021)	SW-846 8021B	1	07/03/98	0304	Danerys Clark



Lancaster Laboratories
 1425 New Holland Pike
 PO Box 12045
 York, PA 17405-0045



LLI Sample No. 2954050
 TW-09-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
1861 PAH's in Water		Batch: 981770007B									
3280	Naphthalene										
200.	ug/l	N.D.	97	87		11	64	71	10	37	120
3281	Acenaphthylene										
200.	ug/l	N.D.	98	89		10	75	82	10	41	135
3282	Acenaphthene										
200.	ug/l	N.D.	97	91		6	70	79	12	38	135
3283	Fluorene										
43.	ug/l	N.D.	100	92		7	76	84	10	41	140
3284	Phenanthrene										
120.	ug/l	N.D.	99	92		6	82	88	7	48	152
3285	Anthracene										
7.8	ug/l	N.D.	96	90		6	79	84	7	42	143
3286	Fluoranthene										
50.	ug/l	N.D.	98	92		5	88	92	5	48	155
3287	Pyrene										
45.	ug/l	N.D.	97	94		3	94	98	4	51	146
3288	Benzo(a)anthracene										
4.5	ug/l	N.D.	93	89		4	88	91	4	52	146
3289	Chrysene										
15.	ug/l	N.D.	96	92		3	88	91	3	56	145
3290	Benzo(b)fluoranthene										
8.8	ug/l	N.D.	94	87		6	87	91	4	59	141
3291	Benzo(k)fluoranthene										
6.8	ug/l	N.D.	95	91		3	88	91	4	60	137
3292	Benzo(a)pyrene										
5.5	ug/l	N.D.	92	88		4	88	91	3	42	158
3293	Dibenzo(a,h)anthracene										
12.	ug/l	N.D.	93	93		1	89	92	4	49	142
3294	Benzo(g,h,i)perylene										
25.	ug/l	N.D.	95	94		0	95	98	3	46	148
3295	Indeno(1,2,3-cd)pyrene										
16.	ug/l	N.D.	98	96		2	134	139	4	64	134
8213 BTEX (8021)		Batch: 98182A65									
0776	Benzene										
0.2	ug/l	N.D.	107	105		3	102			78	138
0777	Toluene										
0.2	ug/l	N.D.	106	103		3	101			78	118
0778	Ethylbenzene										
0.2	ug/l	N.D.	105	101		3	100			77	119
0779	Total Xylenes										
0.6	ug/l	N.D.	107	104		2	103			76	116



MEMBER
 4400 W. ...
 ...



LLI Sample No. 2954050
TW-09-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
Kerr-McGee Corporation

	SURROGATE SUMMARY		SURROGATE LIMITS		
	TRIAL ID	SURROGATE	RECOVERY %	LOW	HIGH
1861 PAH's in Water		Nitrobenz Triphenyle	69 (5)	60 60	120 120
8213 BTEX (8021)		TFT	106	70	130

(5) Accurate surrogate recoveries could not be determined due to interferences or dilution necessary for this sample.



Lancaster Laboratories
1425 New Holland Pike
P.O. Box 12402
Milwaukee, WI 53212-0402
Tel: 414-224-2400
Fax: 414-224-2401



Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. WW 2953047

Collected: 6/24/98 at 16:15 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-9S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
 M9--S SDG#: MOS03-09

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	METHOD DETECTION LIMIT	
1861	PAH's in Water			See Page 2
8213	BTEX (8021)			See Page 3

1 COPY TO Kerr-McGee Corporation
 1 COPY TO Roy F. Weston
 1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
 ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300
 20:51:14 D 0003 16 128410 620823
 320 0.00 00021753 ASR000

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs

MEMBER

AB



Lancaster Laboratories

A division of Thermo Analytical Inc.

LLI Sample No. WW 2953047

Collected: 6/24/98 at 16:15 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-9S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M9--S SDG#: MOS03-09

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

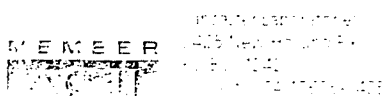
P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	N.D.	0.77	ug/l
3281	Acenaphthylene	N.D.	0.77	ug/l
3282	Acenaphthene	N.D.	0.77	ug/l
3283	Fluorene	N.D.	0.16	ug/l
3284	Phenanthrene	N.D.	0.044	ug/l
3285	Anthracene	N.D.	0.030	ug/l
3286	Fluoranthene	N.D.	0.019	ug/l
3287	Pyrene	N.D.	0.17	ug/l
3288	Benzo(a)anthracene	N.D.	0.017	ug/l
3289	Chrysene	N.D.	0.057	ug/l
3290	Benzo(b)fluoranthene	N.D.	0.034	ug/l
3291	Benzo(k)fluoranthene	N.D.	0.026	ug/l
3292	Benzo(a)pyrene	N.D.	0.021	ug/l
3293	Dibenzo(a,h)anthracene	N.D.	0.045	ug/l
3294	Benzo(g,h,i)perylene	N.D.	0.095	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.062	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs





Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. WW 2953047

Collected: 6/24/98 at 16:15 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-9S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
 M9--S SDG#: MOS03-09

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300

Respectfully Submitted
 Michele Turner, B.A.
 Manager, Volatiles

MEMBER
 EXCELLENCE



LLI Sample No. WW **2953047**

Collected: 06/24/98 at 16:15 by JA

Submitted: 06/25/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

MW-9S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M9--S SDG#: MOS03-09

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1657	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/27/98 0118	Danerys Clark

MEMBER
 ANALYSIS
 CONTROL



LLI Sample No. 2953047

MW-9S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH	

1861 PAH's in Water		Batch: 981770007A										

3280	Naphthalene											
	0.77 ug/l	N.D.		97	87	11	80			37	120	
3281	Acenaphthylene											
	0.77 ug/l	N.D.		98	89	10	83			41	135	
3282	Acenaphthene											
	0.77 ug/l	3.4 J ug/l		97	91	6	90			38	135	
3283	Fluorene											
	0.16 ug/l	N.D.		100	92	7	88			41	140	
3284	Phenanthrene											
	0.044 ug/l	N.D.		99	92	6	89			48	152	
3285	Anthracene											
	0.030 ug/l	N.D.		96	90	6	88			42	143	
3286	Fluoranthene											
	0.019 ug/l	N.D.		98	92	5	89			48	155	
3287	Pyrene											
	0.17 ug/l	N.D.		97	94	3	92			51	146	
3288	Benzo(a)anthracene											
	0.017 ug/l	N.D.		93	89	4	88			52	146	
3289	Chrysene											
	0.057 ug/l	N.D.		96	92	3	87			56	145	
3290	Benzo(b)fluoranthene											
	0.034 ug/l	N.D.		94	87	6	91			59	141	
3291	Benzo(k)fluoranthene											
	0.026 ug/l	N.D.		95	91	3	91			60	137	
3292	Benzo(a)pyrene											
	0.021 ug/l	N.D.		92	88	4	90			42	158	
3293	Dibenzo(a,h)anthracene											
	0.045 ug/l	N.D.		93	93	1	92			49	142	
3294	Benzo(g,h,i)perylene											
	0.095 ug/l	N.D.		95	94	0	93			46	148	
3295	Indeno(1,2,3-cd)pyrene											
	0.062 ug/l	N.D.		98	96	2	96			64	134	

8213 BTEX (8021)		Batch: 98177A65										

0776	Benzene											
	0.2 ug/l	N.D.		104	102	2	107			78	138	
0777	Toluene											
	0.2 ug/l	N.D.		99	100	0	106			78	118	
0778	Ethylbenzene											
	0.2 ug/l	N.D.		94	94	0	105			77	119	
0779	Total Xylenes											
	0.6 ug/l	N.D.		97	97	0	108			76	116	



LLI Sample No. 2953047

MW-9S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
1861 PAH's in Water	Nitrobenz	84	60	120
	Triphenyle	87	60	120
8213 BTEX (8021)	TFT	108	70	130

MEMBER

LLI Sample No. WW 2953046

Collected: 6/24/98 at 15:35 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-10S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M10-S SDG#: MOS03-08

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1861	PAH's in Water		See Page 2
8213	BTEX (8021)		See Page 3

1 COPY TO Kerr-McGee Corporation
1 COPY TO Roy F. Weston
1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
20:50:30 D 0003 16 128410 620823
320 0.00 00021753 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER
ANALYST



LLI Sample No. WW 2953046

Collected: 6/24/98 at 15:35 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-10S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M10-S SDG#: MOS03-08

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	N.D.	0.79	ug/l
3281	Acenaphthylene	N.D.	0.79	ug/l
3282	Acenaphthene	N.D.	0.79	ug/l
3283	Fluorene	N.D.	0.17	ug/l
3284	Phenanthrene	N.D.	0.046	ug/l
3285	Anthracene	N.D.	0.031	ug/l
3286	Fluoranthene	N.D.	0.020	ug/l
3287	Pyrene	N.D.	0.18	ug/l
3288	Benzo(a)anthracene	N.D.	0.018	ug/l
3289	Chrysene	N.D.	0.059	ug/l
3290	Benzo(b)fluoranthene	N.D.	0.035	ug/l
3291	Benzo(k)fluoranthene	N.D.	0.027	ug/l
3292	Benzo(a)pyrene	N.D.	0.022	ug/l
3293	Dibenzo(a,h)anthracene	N.D.	0.047	ug/l
3294	Benzo(g,h,i)perylene	N.D.	0.098	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.063	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER
Lancaster Laboratories
A Division of Thermo Analytical Inc.

LLI Sample No. WW **2953046**

Collected: 6/24/98 at 15:35 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-10S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M10-S SDG#: MOS03-08

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	6.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles

MEMBER



LLI Sample No. **WW 2953046**

Collected: 06/24/98 at 15:35 by JA

Submitted: 06/25/98

MW-10S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M10-S SDG#: MOS03-08

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1636	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/27/98 0045	Danerys Clark

MEMBER
 10/25/98
 10/25/98



LLI Sample No. 2953046

MW-10S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
1861 PAH's in Water		Batch: 981770007A									
3280	Naphthalene 0.79 ug/l	N.D.		97	87	11	80			37	120
3281	Acenaphthylene 0.79 ug/l	N.D.		98	89	10	83			41	135
3282	Acenaphthene 0.79 ug/l	3.4 J ug/l		97	91	6	90			38	135
3283	Fluorene 0.17 ug/l	N.D.		100	92	7	88			41	140
3284	Phenanthrene 0.046 ug/l	N.D.		99	92	6	89			48	152
3285	Anthracene 0.031 ug/l	N.D.		96	90	6	88			42	143
3286	Fluoranthene 0.020 ug/l	N.D.		98	92	5	89			48	155
3287	Pyrene 0.18 ug/l	N.D.		97	94	3	92			51	146
3288	Benzo(a)anthracene 0.018 ug/l	N.D.		93	89	4	88			52	146
3289	Chrysene 0.059 ug/l	N.D.		96	92	3	87			56	145
3290	Benzo(b)fluoranthene 0.035 ug/l	N.D.		94	87	6	91			59	141
3291	Benzo(k)fluoranthene 0.027 ug/l	N.D.		95	91	3	91			60	137
3292	Benzo(a)pyrene 0.022 ug/l	N.D.		92	88	4	90			42	158
3293	Dibenzo(a,h)anthracene 0.047 ug/l	N.D.		93	93	1	92			49	142
3294	Benzo(g,h,i)perylene 0.098 ug/l	N.D.		95	94	0	93			46	148
3295	Indeno(1,2,3-cd)pyrene 0.063 ug/l	N.D.		98	96	2	96			64	134
8213 BTEX (8021)		Batch: 98177A65									
0776	Benzene 0.2 ug/l	N.D.		104	102	2	107			78	138
0777	Toluene 0.2 ug/l	N.D.		99	100	0	106			78	118
0778	Ethylbenzene 0.2 ug/l	N.D.		94	94	0	105			77	119
0779	Total Xylenes 0.6 ug/l	N.D.		97	97	0	108			76	116

MEMBER



LLI Sample No. 2953046

MW-10S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
1861 PAH's in Water		Nitrobenz	91	60	120
		Triphenyle	83	60	120
8213 BTEX (8021)		TFT	110	70	130

MEMBER
Lancaster Laboratories
1000 Lakeside Drive
Ann Arbor, MI 48106
313-963-1000

LLI Sample No. WW 2953044

Collected: 6/24/98 at 12:45 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-13S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M13-S SDG#: MOS03-06

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	METHOD DETECTION LIMIT	
1861	PAH's in Water			See Page 2
8213	BTEX (8021)			See Page 3

1 COPY TO Kerr-McGee Corporation
1 COPY TO Roy F. Weston
1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
20:49:08 D 0003 16 128410 620823
320 0.00 00021753 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER PROFILE



LLI Sample No. **ww 2953044**

Collected: 6/24/98 at 12:45 by JA

Submitted: 6/25/98 Reported: 7/20/98
Discard: 8/20/98

MW-13S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M13-S SDG#: MOS03-06

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	N.D.	0.77	ug/l
3281	Acenaphthylene	N.D.	0.77	ug/l
3282	Acenaphthene	N.D.	0.77	ug/l
3283	Fluorene	N.D.	0.16	ug/l
3284	Phenanthrene	0.084 J	0.044	ug/l
3285	Anthracene	N.D.	0.030	ug/l
3286	Fluoranthene	0.138 J	0.019	ug/l
3287	Pyrene	N.D.	0.17	ug/l
3288	Benzo(a)anthracene	0.063 J	0.017	ug/l
3289	Chrysene	0.097 J	0.057	ug/l
3290	Benzo(b)fluoranthene	0.076	0.034	ug/l
3291	Benzo(k)fluoranthene	0.035 J	0.026	ug/l
3292	Benzo(a)pyrene	0.072 J	0.021	ug/l
3293	Dibenzo(a, h)anthracene	N.D.	0.045	ug/l
3294	Benzo(g, h, i)perylene	N.D.	0.095	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.061	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

GENERAL INFORMATION
ANALYSIS DATE: 7/20/98
ANALYST: J.E.H.



LLI Sample No. WW 2953044

Collected: 6/24/98 at 12:45 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-13S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
 M13-S SDG#: MOS03-06

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300

Respectfully Submitted
 Michele Turner, B.A.
 Manager, Volatiles

MEMBER
 EXCISE



LLI Sample No. WW 2953044

Collected: 06/24/98 at 12:45 by JA

Submitted: 06/25/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

MW-13S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M13-S SDG#: MOS03-06

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1615	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/26/98 1545	Danerys Clark

MEMBER



LLI Sample No. 2953044

MW-13S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
----- 1861 PAH's in Water -----		Batch: 981770007A									
3280	Naphthalene 0.77 ug/l	N.D.		97	87	11	80			37	120
3281	Acenaphthylene 0.77 ug/l	N.D.		98	89	10	83			41	135
3282	Acenaphthene 0.77 ug/l	3.4 J ug/l		97	91	6	90			38	135
3283	Fluorene 0.16 ug/l	N.D.		100	92	7	88			41	140
3284	Phenanthrene 0.044 ug/l	N.D.		99	92	6	89			48	152
3285	Anthracene 0.030 ug/l	N.D.		96	90	6	88			42	143
3286	Fluoranthene 0.019 ug/l	N.D.		98	92	5	89			48	155
3287	Pyrene 0.17 ug/l	N.D.		97	94	3	92			51	146
3288	Benzo(a)anthracene 0.017 ug/l	N.D.		93	89	4	88			52	146
3289	Chrysene 0.057 ug/l	N.D.		96	92	3	87			56	145
3290	Benzo(b)fluoranthene 0.034 ug/l	N.D.		94	87	6	91			59	141
3291	Benzo(k)fluoranthene 0.026 ug/l	N.D.		95	91	3	91			60	137
3292	Benzo(a)pyrene 0.021 ug/l	N.D.		92	88	4	90			42	158
3293	Dibenzo(a,h)anthracene 0.045 ug/l	N.D.		93	93	1	92			49	142
3294	Benzo(g,h,i)perylene 0.095 ug/l	N.D.		95	94	0	93			46	148
3295	Indeno(1,2,3-cd)pyrene 0.061 ug/l	N.D.		98	96	2	96			64	134
----- 8213 BTEX (8021) -----		Batch: 98176A65									
0776	Benzene 0.2 ug/l	N.D.		101	105	4	111			78	138
0777	Toluene 0.2 ug/l	N.D.		103	104	1	108			78	118
0778	Ethylbenzene 0.2 ug/l	N.D.		101	101	0	106			77	119
0779	Total Xylenes 0.6 ug/l	N.D.		104	104	0	109			76	116

GENERATED BY
 LANC



LLI Sample No. 2953044
MW-13S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
1861 PAH's in Water		Nitrobenz	82	60	120
		Triphenyle	86	60	120
8213 BTEX (8021)		TFT	109	70	130



Lancaster Laboratories

A division of Thermo Analytical Inc.

LLI Sample No. **WW 2954053**
 Collected: 6/25/98 at 11:00 by EC

Submitted: 6/26/98 Reported: 7/16/98
 Discard: 8/16/98

MW-20S-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI
 MW20S SDG#: MOS03-20

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1861	PAH's in Water		See Page 2
8213	BTEX (8021)		See Page 3

1 COPY TO Kerr-McGee Corporation ATTN: Garet Van de Steeg, PhD
 1 COPY TO Roy F. Weston ATTN: Mr. Tom Graan
 1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300
 21:20:13 D 0003 8 128410 621065
 232 0.00 00021753 ASR000

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs



Lancaster Laboratories
 4425 New Holland Pike
 P.O. Box 12425
 Lancaster, PA 17602



LLI Sample No. **WW 2954053**

Collected: 6/25/98 at 11:00 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

MW-20S-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI
 MW20S SDG#: MOS03-20

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION	LIMIT UNITS
PAH's in Water				
3280	Naphthalene	37.7	0.76	ug/l
3281	Acenaphthylene	1.19 J	0.76	ug/l
3282	Acenaphthene	N.D.	0.76	ug/l
3283	Fluorene	N.D.	0.16	ug/l
3284	Phenanthrene	N.D.	0.044	ug/l
3285	Anthracene	N.D.	0.030	ug/l
3286	Fluoranthene	N.D.	0.019	ug/l
3287	Pyrene	N.D.	0.17	ug/l
3288	Benzo(a)anthracene	N.D.	0.017	ug/l
3289	Chrysene	N.D.	0.056	ug/l
3290	Benzo(b)fluoranthene	N.D.	0.033	ug/l
3291	Benzo(k)fluoranthene	N.D.	0.026	ug/l
3292	Benzo(a)pyrene	N.D.	0.021	ug/l
3293	Dibenzo(a,h)anthracene	N.D.	0.045	ug/l
3294	Benzo(g,h,i)perylene	N.D.	0.095	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.061	ug/l

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs



Lancaster Laboratories
 1405 New Holland Pike
 PO Box 12416
 Lancaster, PA 17602-0416
 Phone: (717) 656-2300

LLI Sample No. **WW 2954053**
Collected: 6/25/98 at 11:00 by EC

Submitted: 6/26/98 Reported: 7/16/98
Discard: 8/16/98

MW-20S-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
MW20S SDG#: MOS03-20

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
BTEX (8021)				
0776	Benzene	N.D.		0.2 ug/l
0777	Toluene	0.3 J		0.2 ug/l
0778	Ethylbenzene	0.4 J		0.2 ug/l
0779	Total Xylenes	1.3 J		0.6 ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles



Lancaster Laboratories
2009 New Holland Pike
P.O. Box 29409
Lancaster, PA 17602-0409



LLI Sample No. WW 2954053

Collected: 06/25/98 at 11:00 by EC

Submitted: 06/26/98

MW-20S-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI
 MW20S SDG#: MOS03-20

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	06/30/98 2043	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/29/98 0800	Joseph S. Feister
8213	BTEX (8021)	SW-846 8021B	1	07/03/98 0047	Danerys Clark



Lancaster Laboratories
 242 New Holland Ave
 PO Box 12428
 Oklahoma City, OK 73112-0428
 Phone: (405) 763-2025



LLI Sample No. 2954053
 MW-20S-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
1861 PAH's in Water		Batch: 981770007B									
3280	Naphthalene 0.76 ug/l	N.D.		97	87	11	64	71	10	37	120
3281	Acenaphthylene 0.76 ug/l	N.D.		98	89	10	75	82	10	41	135
3282	Acenaphthene 0.76 ug/l	N.D.		97	91	6	70	79	12	38	135
3283	Fluorene 0.16 ug/l	N.D.		100	92	7	76	84	10	41	140
3284	Phenanthrene 0.044 ug/l	N.D.		99	92	6	82	88	7	48	152
3285	Anthracene 0.030 ug/l	N.D.		96	90	6	79	84	7	42	143
3286	Fluoranthene 0.019 ug/l	N.D.		98	92	5	88	92	5	48	155
3287	Pyrene 0.17 ug/l	N.D.		97	94	3	94	98	4	51	146
3288	Benzo(a)anthracene 0.017 ug/l	N.D.		93	89	4	88	91	4	52	146
3289	Chrysene 0.056 ug/l	N.D.		96	92	3	88	91	3	56	145
3290	Benzo(b)fluoranthene 0.033 ug/l	N.D.		94	87	6	87	91	4	59	141
3291	Benzo(k)fluoranthene 0.026 ug/l	N.D.		95	91	3	88	91	4	60	137
3292	Benzo(a)pyrene 0.021 ug/l	N.D.		92	88	4	88	91	3	42	158
3293	Dibenzo(a,h)anthracene 0.045 ug/l	N.D.		93	93	1	89	92	4	49	142
3294	Benzo(g,h,i)perylene 0.095 ug/l	N.D.		95	94	0	95	98	3	46	148
3295	Indeno(1,2,3-cd)pyrene 0.061 ug/l	N.D.		98	96	2	134	139	4	64	134
8213 BTEX (8021)		Batch: 98182A65									
0776	Benzene 0.2 ug/l	N.D.		107	105	3	102			78	138
0777	Toluene 0.2 ug/l	N.D.		106	103	3	101			78	118
0778	Ethylbenzene 0.2 ug/l	N.D.		105	101	3	100			77	119
0779	Total Xylenes 0.6 ug/l	N.D.		107	104	2	103			76	116



MEMBER
 American Chemical Society
 Environmental Health and Safety
 Division
 11 Dupont Circle, N.W.
 Washington, D.C. 20036



LLI Sample No. 2954053
MW-20S-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
Kerr-McGee Corporation

	SURROGATE SUMMARY		SURROGATE LIMITS		
	TRIAL ID	SURROGATE	RECOVERY %	LOW	HIGH
1861 PAH's in Water		Nitrobenz	68	60	120
		Triphenyle	75	60	120
8213 BTEX (8021)		TFT	107	70	130



Lancaster Laboratories
1425 New Holland Pkwy
St. Louis, MO 63124
Phone: 314-766-0400



Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. WW 2953043

Collected: 6/24/98 at 12:00 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-25S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
 M250S SDG#: MOS03-05

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	METHOD DETECTION LIMIT	
1861	PAH's in Water			See Page 2
8213	BTEX (8021)			See Page 3

1 COPY TO Kerr-McGee Corporation
 1 COPY TO Roy F. Weston
 1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
 ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300
 20:48:12 D 0003 16 128410 620823
 320 0.00 00021753 ASR000

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs

MEMBER

31A

LLI Sample No. WW 2953043

Collected: 6/24/98 at 12:00 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-25S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M250S SDG#: MOS03-05

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	N.D.	0.77	ug/l
3281	Acenaphthylene	N.D.	0.77	ug/l
3282	Acenaphthene	N.D.	0.77	ug/l
3283	Fluorene	N.D.	0.16	ug/l
3284	Phenanthrene	N.D.	0.044	ug/l
3285	Anthracene	N.D.	0.030	ug/l
3286	Fluoranthene	N.D.	0.019	ug/l
3287	Pyrene	N.D.	0.17	ug/l
3288	Benzo(a)anthracene	N.D.	0.017	ug/l
3289	Chrysene	N.D.	0.057	ug/l
3290	Benzo(b)fluoranthene	N.D.	0.034	ug/l
3291	Benzo(k)fluoranthene	N.D.	0.026	ug/l
3292	Benzo(a)pyrene	N.D.	0.021	ug/l
3293	Dibenzo(a,h)anthracene	N.D.	0.045	ug/l
3294	Benzo(g,h,i)perylene	N.D.	0.095	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.062	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER



Lancaster Laboratories
 A division of Thermo Analytical Inc.

LLI Sample No. WW 2953043

Collected: 6/24/98 at 12:00 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-25S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
 M250S SDG#: MOS03-05

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD	DETECTION LIMIT UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300

Respectfully Submitted
 Michele Turner, B.A.
 Manager, Volatiles

MEMBER



LLI Sample No. WW 2953043

Collected: 06/24/98 at 12:00 by JA

Submitted: 06/25/98

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

MW-25S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M250S SDG#: MOS03-05

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1554	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/26/98 1513	Danerys Clark

MEMBER



LLI Sample No. 2953043
 MW-25S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
1861 PAH's in Water		Batch: 981770007A									
3280	Naphthalene										
	0.77 ug/l	N.D.		97	87	11	80			37	120
3281	Acenaphthylene										
	0.77 ug/l	N.D.		98	89	10	83			41	135
3282	Acenaphthene										
	0.77 ug/l	3.4 J ug/l		97	91	6	90			38	135
3283	Fluorene										
	0.16 ug/l	N.D.		100	92	7	88			41	140
3284	Phenanthrene										
	0.044 ug/l	N.D.		99	92	6	89			48	152
3285	Anthracene										
	0.030 ug/l	N.D.		96	90	6	88			42	143
3286	Fluoranthene										
	0.019 ug/l	N.D.		98	92	5	89			48	155
3287	Pyrene										
	0.17 ug/l	N.D.		97	94	3	92			51	146
3288	Benzo(a)anthracene										
	0.017 ug/l	N.D.		93	89	4	88			52	146
3289	Chrysene										
	0.057 ug/l	N.D.		96	92	3	87			56	145
3290	Benzo(b)fluoranthene										
	0.034 ug/l	N.D.		94	87	6	91			59	141
3291	Benzo(k)fluoranthene										
	0.026 ug/l	N.D.		95	91	3	91			60	137
3292	Benzo(a)pyrene										
	0.021 ug/l	N.D.		92	88	4	90			42	158
3293	Dibenzo(a,h)anthracene										
	0.045 ug/l	N.D.		93	93	1	92			49	142
3294	Benzo(g,h,i)perylene										
	0.095 ug/l	N.D.		95	94	0	93			46	148
3295	Indeno(1,2,3-cd)pyrene										
	0.062 ug/l	N.D.		98	96	2	96			64	134
8213 BTEX (8021)		Batch: 98176A65									
0776	Benzene										
	0.2 ug/l	N.D.		101	105	4	111			78	138
0777	Toluene										
	0.2 ug/l	N.D.		103	104	1	108			78	118
0778	Ethylbenzene										
	0.2 ug/l	N.D.		101	101	0	106			77	119
0779	Total Xylenes										
	0.6 ug/l	N.D.		104	104	0	109			76	116

MEMBER



LLI Sample No. 2953043
MW-25S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

	SURROGATE SUMMARY		SURROGATE LIMITS	
	TRIAL ID	SURROGATE	RECOVERY %	LOW HIGH
1861 PAH's in Water		Nitrobenz	99	60 120
		Triphenyle	87	60 120
8213 BTEX (8021)		TFT	118	70 130

MEMBER
Lancaster Laboratories



LLI Sample No. WW 2953042

Collected: 6/24/98 at 11:20 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-26S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M26-S SDG#: MOS03-04

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
1861	PAH's in Water		See Page	2
8213	BTEX (8021)		See Page	3

1 COPY TO Kerr-McGee Corporation
1 COPY TO Roy F. Weston
1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
20:47:23 D 0003 16 128410 620823
320 0.00 00021753 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER



LLI Sample No. WW 2953042

Collected: 6/24/98 at 11:20 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-26S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M26-S SDG#: MOS03-04

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	1.59 J	0.77	ug/l
3281	Acenaphthylene	N.D.	0.77	ug/l
3282	Acenaphthene	N.D.	0.77	ug/l
3283	Fluorene	N.D.	0.16	ug/l
3284	Phenanthrene	N.D.	0.044	ug/l
3285	Anthracene	N.D.	0.030	ug/l
3286	Fluoranthene	N.D.	0.019	ug/l
3287	Pyrene	N.D.	0.17	ug/l
3288	Benzo(a)anthracene	N.D.	0.017	ug/l
3289	Chrysene	N.D.	0.057	ug/l
3290	Benzo(b)fluoranthene	N.D.	0.034	ug/l
3291	Benzo(k)fluoranthene	N.D.	0.026	ug/l
3292	Benzo(a)pyrene	N.D.	0.021	ug/l
3293	Dibenzo(a,h)anthracene	N.D.	0.045	ug/l
3294	Benzo(g,h,i)perylene	N.D.	0.095	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.062	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER
Lancaster Laboratories



LLI Sample No. **WW 2953042**

Collected: 6/24/98 at 11:20 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-26S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M26-S SDG#: MOS03-04

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles

MEMBER
EXCISE

MEMBER
EXCISE





LLI Sample No. WW 2953042

Collected: 06/24/98 at 11:20 by JA

Submitted: 06/25/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

MW-26S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M26-S SDG#: MOS03-04

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1532	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/26/98 1441	Danerys Clark

MEMBER
 SEP 1998
 1000



LLI Sample No. 2953042
 MW-26S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
1861 PAH's in Water		Batch: 981770007A									
3280	Naphthalene										
	0.77 ug/l	N.D.		97	87	11	80			37	120
3281	Acenaphthylene										
	0.77 ug/l	N.D.		98	89	10	83			41	135
3282	Acenaphthene										
	0.77 ug/l	3.4 J ug/l		97	91	6	90			38	135
3283	Fluorene										
	0.16 ug/l	N.D.		100	92	7	88			41	140
3284	Phenanthrene										
	0.044 ug/l	N.D.		99	92	6	89			48	152
3285	Anthracene										
	0.030 ug/l	N.D.		96	90	6	88			42	143
3286	Fluoranthene										
	0.019 ug/l	N.D.		98	92	5	89			48	155
3287	Pyrene										
	0.17 ug/l	N.D.		97	94	3	92			51	146
3288	Benzo(a)anthracene										
	0.017 ug/l	N.D.		93	89	4	88			52	146
3289	Chrysene										
	0.057 ug/l	N.D.		96	92	3	87			56	145
3290	Benzo(b)fluoranthene										
	0.034 ug/l	N.D.		94	87	6	91			59	141
3291	Benzo(k)fluoranthene										
	0.026 ug/l	N.D.		95	91	3	91			60	137
3292	Benzo(a)pyrene										
	0.021 ug/l	N.D.		92	88	4	90			42	158
3293	Dibenzo(a,h)anthracene										
	0.045 ug/l	N.D.		93	93	1	92			49	142
3294	Benzo(g,h,i)perylene										
	0.095 ug/l	N.D.		95	94	0	93			46	148
3295	Indeno(1,2,3-cd)pyrene										
	0.062 ug/l	N.D.		98	96	2	96			64	134
8213 BTEX (8021)		Batch: 98176A65									
0776	Benzene										
	0.2 ug/l	N.D.		101	105	4	111			78	138
0777	Toluene										
	0.2 ug/l	N.D.		103	104	1	108			78	118
0778	Ethylbenzene										
	0.2 ug/l	N.D.		101	101	0	106			77	119
0779	Total Xylenes										
	0.6 ug/l	N.D.		104	104	0	109			76	116

GENERATED BY: [illegible]

APR



LLI Sample No. 2953042
MW-26S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

	SURROGATE SUMMARY		SURROGATE LIMITS	
	TRIAL ID	SURROGATE	RECOVERY %	LOW HIGH
1861 PAH's in Water		Nitrobenz	96	60 120
		Triphenyle	89	60 120
8213 BTEX (8021)		TFT	106	70 130

MEMBER
Lancaster Laboratories
A Division of Thermo Analytical Inc.



LLI Sample No. WW 2954049

Collected: 6/25/98 at 08:45 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

MW-27S-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
MW27S SDG#: MOS03-16

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1861	PAH's in Water		See Page 2
8213	BTEX (8021)		See Page 3

1 COPY TO Kerr-McGee Corporation
1 COPY TO Roy F. Weston
1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
21:15:21 D 0003 8 128410 621065
232 0.00 00021753 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
2408 New Holland Pike
PO Box 12425

Atlanta, GA 30305-0425



LLI Sample No. WW 2954049

Collected: 6/25/98 at 08:45 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

MW-27S-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
MW27S SDG#: MOS03-16

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	N.D.	0.77	ug/l
3281	Acenaphthylene	N.D.	0.77	ug/l
3282	Acenaphthene	N.D.	0.77	ug/l
3283	Fluorene	N.D.	0.16	ug/l
3284	Phenanthrene	N.D.	0.044	ug/l
3285	Anthracene	N.D.	0.030	ug/l
3286	Fluoranthene	0.042 J	0.019	ug/l
3287	Pyrene	N.D.	0.17	ug/l
3288	Benzo(a)anthracene	N.D.	0.017	ug/l
3289	Chrysene	N.D.	0.057	ug/l
3290	Benzo(b)fluoranthene	0.045 J	0.034	ug/l
3291	Benzo(k)fluoranthene	N.D.	0.026	ug/l
3292	Benzo(a)pyrene	0.024 J	0.021	ug/l
3293	Dibenzo(a,h)anthracene	N.D.	0.045	ug/l
3294	Benzo(g,h,i)perylene	N.D.	0.095	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.062	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-0425
Tel: 717-656-2300



LLI Sample No. WW 2954049

Collected: 6/25/98 at 08:45 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

MW-27S-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
MW27S SDG#: MOS03-16

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles



Lancaster Laboratories
2425 New York Pike
P.O. Box 12403



LLI Sample No. WW 2954049

Collected: 06/25/98 at 08:45 by EC

Submitted: 06/26/98

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

MW-27S-02 Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
MW27S SDG#: MOS03-16

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS		ANALYST
				ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1		06/30/98 1800	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1		06/29/98 0800	Joseph S. Feister
8213	BTEX (8021)	SW-846 8021B	1		07/02/98 1015	Danerys Clark



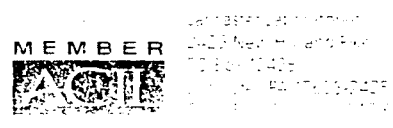
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lawrenceville, GA 30046-2425
770-962-9600



LLI Sample No. 2954049
 MW-27S-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
1861 PAH's in Water		Batch: 981770007B									
3280	Naphthalene 0.77 ug/l	N.D.		97	87	11	64	71	10	37	120
3281	Acenaphthylene 0.77 ug/l	N.D.		98	89	10	75	82	10	41	135
3282	Acenaphthene 0.77 ug/l	N.D.		97	91	6	70	79	12	38	135
3283	Fluorene 0.16 ug/l	N.D.		100	92	7	76	84	10	41	140
3284	Phenanthrene 0.044 ug/l	N.D.		99	92	6	82	88	7	48	152
3285	Anthracene 0.030 ug/l	N.D.		96	90	6	79	84	7	42	143
3286	Fluoranthene 0.019 ug/l	N.D.		98	92	5	88	92	5	48	155
3287	Pyrene 0.17 ug/l	N.D.		97	94	3	94	98	4	51	146
3288	Benzo(a)anthracene 0.017 ug/l	N.D.		93	89	4	88	91	4	52	146
3289	Chrysene 0.057 ug/l	N.D.		96	92	3	88	91	3	56	145
3290	Benzo(b)fluoranthene 0.034 ug/l	N.D.		94	87	6	87	91	4	59	141
3291	Benzo(k)fluoranthene 0.026 ug/l	N.D.		95	91	3	88	91	4	60	137
3292	Benzo(a)pyrene 0.021 ug/l	N.D.		92	88	4	88	91	3	42	158
3293	Dibenzo(a,h)anthracene 0.045 ug/l	N.D.		93	93	1	89	92	4	49	142
3294	Benzo(g,h,i)perylene 0.095 ug/l	N.D.		95	94	0	95	98	3	46	148
3295	Indeno(1,2,3-cd)pyrene 0.062 ug/l	N.D.		98	96	2	134	139	4	64	134
8213 BTEX (8021)		Batch: 98182A65									
0776	Benzene 0.2 ug/l	N.D.		107	105	3	102			78	138
0777	Toluene 0.2 ug/l	N.D.		106	103	3	101			78	118
0778	Ethylbenzene 0.2 ug/l	N.D.		105	101	3	100			77	119
0779	Total Xylenes 0.6 ug/l	N.D.		107	104	2	103			76	116





LLI Sample No. 2954049
 MW-27S-02 Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
 Kerr-McGee Corporation

	SURROGATE SUMMARY		SURROGATE LIMITS		
	TRIAL ID	SURROGATE	RECOVERY %	LOW	HIGH
1861 PAH's in Water		Nitrobenz	76	60	120
		Triphenyle	87	60	120
8213 BTEX (8021)		TFT	104	70	130



Lancaster Laboratories
 2425 West Howard Pike
 PO Box 12423
 Denver, CO 80222-0423
 303.751.1200



LLI Sample No. WW 2953052

Collected: 6/24/98 at 18:20 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-28S-02 Matrix Spike Duplicate Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28S2 SDG#: MOS03-12MSD

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1861	PAH's in Water		See Page 2
8213	BTEX (8021)		See Page 3

1 COPY TO Kerr-McGee Corporation
1 COPY TO Roy F. Weston
1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
20:54:57 D 0003 16 128410 620823
320 0.00 00021753 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

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Lancaster Laboratories



LLI Sample No. WW 2953052

Collected: 6/24/98 at 18:20 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

MW-28S-02 Matrix Spike Duplicate Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28S2 SDG#: MOS03-12MSD

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	169.	0.77	ug/l
3281	Acenaphthylene	172.	0.77	ug/l
3282	Acenaphthene	176.	0.77	ug/l
3283	Fluorene	17.9	0.16	ug/l
3284	Phenanthrene	5.37	0.044	ug/l
3285	Anthracene	2.61	0.030	ug/l
3286	Fluoranthene	2.69	0.019	ug/l
3287	Pyrene	18.2	0.17	ug/l
3288	Benzo(a)anthracene	1.31	0.017	ug/l
3289	Chrysene	5.36	0.057	ug/l
3290	Benzo(b)fluoranthene	1.07	0.034	ug/l
3291	Benzo(k)fluoranthene	1.06	0.026	ug/l
3292	Benzo(a)pyrene	1.31	0.021	ug/l
3293	Dibenzo(a,h)anthracene	2.70	0.045	ug/l
3294	Benzo(g,h,i)perylene	10.9	0.096	ug/l
3295	Indeno(1,2,3-cd)pyrene	5.59	0.062	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

NEW BEE
MAY 1998

LLI Sample No. WW 2953052

Collected: 6/24/98 at 18:20 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-28S-02 Matrix Spike Duplicate Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28S2 SDG#: MOS03-12MSD

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	20.	0.2	ug/l
0777	Toluene	20.	0.2	ug/l
0778	Ethylbenzene	19.	0.2	ug/l
0779	Total Xylenes	58.	0.6	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles

MEMBER



LLI Sample No. WW 2953052

Collected: 06/24/98 at 18:20 by JA

Submitted: 06/25/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

MW-28S-02 Matrix Spike Duplicate Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28S2 SDG#: MOS03-12MSD

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1407	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/26/98 2203	Danerys Clark

MEMBER
 ANALYSIS
 DATE



LLI Sample No. 2953052
MW-28S-02 Matrix Spike Duplicate Grab Water Sample
Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

Table with columns: SAMPLE MDL, SAMPLE UNITS, BLANK, DUP RPD, MS, MSD, MS RPD, LCS, LCS DUP, LCS RPD, LCS LOW, LIMITS HIGH. Contains data for 1861 PAH's in Water and 8213 BTEX (8021).

MEMBER
ACQUITY



LLI Sample No. **2953052**
 MW-28S-02 Matrix Spike Duplicate Grab Water Sample
 Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
 Kerr-McGee Corporation

	SURROGATE SUMMARY		SURROGATE LIMITS		
	TRIAL ID	SURROGATE	RECOVERY %	LOW	HIGH
1861 PAH's in Water		Nitrobenz Triphenyle	86 86	60 60	120 120
8213 BTEX (8021)		TFT	109	70	130

LABORATORY
 ANALYSIS REPORT



LLI Sample No. WW 2953051

Collected: 6/24/98 at 18:20 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-28S-02 Matrix Spike Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28S2 SDG#: MOS03-12MS

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

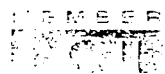
CAT NO.	ANALYSIS NAME	METHOD	
		RESULTS	DETECTION LIMIT UNITS
1861	PAH's in Water		See Page 2
8213	BTEX (8021)		See Page 3

1 COPY TO Kerr-McGee Corporation
1 COPY TO Roy F. Weston
1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
20:54:14 D 0003 16 128410 620823
320 0.00 00021753 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs





LLI Sample No. WW **2953051**

Collected: 6/24/98 at 18:20 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-28S-02 Matrix Spike Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28S2 SDG#: MOS03-12MS

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION	LIMIT UNITS
PAH's in Water				
3280	Naphthalene	188.	0.77	ug/l
3281	Acenaphthylene	189.	0.77	ug/l
3282	Acenaphthene	187.	0.77	ug/l
3283	Fluorene	19.2	0.16	ug/l
3284	Phenanthrene	5.71	0.044	ug/l
3285	Anthracene	2.78	0.030	ug/l
3286	Fluoranthene	2.83	0.019	ug/l
3287	Pyrene	18.8	0.17	ug/l
3288	Benzo(a)anthracene	1.36	0.017	ug/l
3289	Chrysene	5.55	0.057	ug/l
3290	Benzo(b)fluoranthene	1.14	0.034	ug/l
3291	Benzo(k)fluoranthene	1.09	0.026	ug/l
3292	Benzo(a)pyrene	1.36	0.021	ug/l
3293	Dibenzo(a,h)anthracene	2.68	0.045	ug/l
3294	Benzo(g,h,i)perylene	11.0	0.095	ug/l
3295	Indeno(1,2,3-cd)pyrene	5.69	0.061	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER
Lancaster Laboratories



LLI Sample No. **WW 2953051**

Collected: 6/24/98 at 18:20 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-28S-02 Matrix Spike Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28S2 SDG#: MOS03-12MS

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	21.	0.2	ug/l
0777	Toluene	20.	0.2	ug/l
0778	Ethylbenzene	19.	0.2	ug/l
0779	Total Xylenes	58.	0.6	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles

MEMBER



LLI Sample No. WW 2953051

Collected: 06/24/98 at 18:20 by JA

Submitted: 06/25/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

MW-28S-02 Matrix Spike Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28S2 SDG#: MOS03-12MS

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1303	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/26/98 2131	Danerys Clark

MEMBER



LLI Sample No. **2953051**
 MW-28S-02 Matrix Spike Grab Water Sample
 Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH

1861 PAH's in Water		Batch: 981770007A									

3280	Naphthalene										
	0.77 ug/l	N.D.		97	87	11	80			37	120
3281	Acenaphthylene										
	0.77 ug/l	N.D.		98	89	10	83			41	135
3282	Acenaphthene										
	0.77 ug/l	3.4 J ug/l		97	91	6	90			38	135
3283	Fluorene										
	0.16 ug/l	N.D.		100	92	7	88			41	140
3284	Phenanthrene										
	0.044 ug/l	N.D.		99	92	6	89			48	152
3285	Anthracene										
	0.030 ug/l	N.D.		96	90	6	88			42	143
3286	Fluoranthene										
	0.019 ug/l	N.D.		98	92	5	89			48	155
3287	Pyrene										
	0.17 ug/l	N.D.		97	94	3	92			51	146
3288	Benzo(a)anthracene										
	0.017 ug/l	N.D.		93	89	4	88			52	146
3289	Chrysene										
	0.057 ug/l	N.D.		96	92	3	87			56	145
3290	Benzo(b)fluoranthene										
	0.034 ug/l	N.D.		94	87	6	91			59	141
3291	Benzo(k)fluoranthene										
	0.026 ug/l	N.D.		95	91	3	91			60	137
3292	Benzo(a)pyrene										
	0.021 ug/l	N.D.		92	88	4	90			42	158
3293	Dibenzo(a,h)anthracene										
	0.045 ug/l	N.D.		93	93	1	92			49	142
3294	Benzo(g,h,i)perylene										
	0.095 ug/l	N.D.		95	94	0	93			46	148
3295	Indeno(1,2,3-cd)pyrene										
	0.061 ug/l	N.D.		98	96	2	96			64	134

8213 BTEX (8021)		Batch: 98177A65									

0776	Benzene										
	0.2 ug/l	N.D.		104	102	2	107			78	138
0777	Toluene										
	0.2 ug/l	N.D.		99	100	0	106			78	118
0778	Ethylbenzene										
	0.2 ug/l	N.D.		94	94	0	105			77	119
0779	Total Xylenes										
	0.6 ug/l	N.D.		97	97	0	108			76	116

MEMBER
 1981



LLI Sample No. 2953051
MW-28S-02 Matrix Spike Grab Water Sample
Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

	SURROGATE SUMMARY		SURROGATE LIMITS		
	TRIAL ID	SURROGATE	RECOVERY %	LOW	HIGH
1861 PAH's in Water		Nitrobenz	97	60	120
		Triphenyle	87	60	120
8213 BTEX (8021)		TFT	109	70	130

MEMBER OF THE
ANALYTICAL GROUP



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LLI Sample No. WW 2953050

Collected: 6/24/98 at 18:20 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-28S-02 Unspiked Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28S2 SDG#: MOS03-12BKG

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1861	PAH's in Water		See Page 2
8213	BTEX (8021)		See Page 3

1 COPY TO Kerr-McGee Corporation
1 COPY TO Roy F. Weston
1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
20:53:25 D 0003 16 128410 620823
320 0.00 00021753 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER



LLI Sample No. WW 2953050

Collected: 6/24/98 at 18:20 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-28S-02 Unspiked Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28S2 SDG#: MOS03-12BKG

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	N.D.	0.77	ug/l
3281	Acenaphthylene	N.D.	0.77	ug/l
3282	Acenaphthene	N.D.	0.77	ug/l
3283	Fluorene	N.D.	0.16	ug/l
3284	Phenanthrene	N.D.	0.044	ug/l
3285	Anthracene	N.D.	0.030	ug/l
3286	Fluoranthene	N.D.	0.019	ug/l
3287	Pyrene	N.D.	0.17	ug/l
3288	Benzo(a)anthracene	0.018 J	0.017	ug/l
3289	Chrysene	N.D.	0.057	ug/l
3290	Benzo(b)fluoranthene	0.056 J	0.034	ug/l
3291	Benzo(k)fluoranthene	N.D.	0.026	ug/l
3292	Benzo(a)pyrene	0.040 J	0.021	ug/l
3293	Dibenzo(a,h)anthracene	N.D.	0.045	ug/l
3294	Benzo(g,h,i)perylene	N.D.	0.095	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.061	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER
Pesticides/PCBs



LLI Sample No. WW 2953050

Collected: 6/24/98 at 18:20 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-28S-02 Unspiked Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28S2 SDG#: MOS03-12BKG

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	METHOD	
			DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles

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Lancaster Laboratories



LLI Sample No. WW 2953050

Collected: 06/24/98 at 18:20 by JA

Submitted: 06/25/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

MW-28S-02 Unspiked Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28S2 SDG#: MOS03-12BKG

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1242	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/26/98 2058	Danerys Clark

MEMBER
 ANALYSIS
 1998





LLI Sample No. 2953050
MW-28S-02 Unspiked Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH

1861 PAH's in Water		Batch: 981770007A									

3280	Naphthalene										
	0.77 ug/l	N.D.		97	87	11	80			37	120
3281	Acenaphthylene										
	0.77 ug/l	N.D.		98	89	10	83			41	135
3282	Acenaphthene										
	0.77 ug/l	3.4 J ug/l		97	91	6	90			38	135
3283	Fluorene										
	0.16 ug/l	N.D.		100	92	7	88			41	140
3284	Phenanthrene										
	0.044 ug/l	N.D.		99	92	6	89			48	152
3285	Anthracene										
	0.030 ug/l	N.D.		96	90	6	88			42	143
3286	Fluoranthene										
	0.019 ug/l	N.D.		98	92	5	89			48	155
3287	Pyrene										
	0.17 ug/l	N.D.		97	94	3	92			51	146
3288	Benzo(a)anthracene										
	0.017 ug/l	N.D.		93	89	4	88			52	146
3289	Chrysene										
	0.057 ug/l	N.D.		96	92	3	87			56	145
3290	Benzo(b)fluoranthene										
	0.034 ug/l	N.D.		94	87	6	91			59	141
3291	Benzo(k)fluoranthene										
	0.026 ug/l	N.D.		95	91	3	91			60	137
3292	Benzo(a)pyrene										
	0.021 ug/l	N.D.		92	88	4	90			42	158
3293	Dibenzo(a,h)anthracene										
	0.045 ug/l	N.D.		93	93	1	92			49	142
3294	Benzo(g,h,i)perylene										
	0.095 ug/l	N.D.		95	94	0	93			46	148
3295	Indeno(1,2,3-cd)pyrene										
	0.061 ug/l	N.D.		98	96	2	96			64	134

8213 BTEX (8021)		Batch: 98177A65									

0776	Benzene										
	0.2 ug/l	N.D.		104	102	2	107			78	138
0777	Toluene										
	0.2 ug/l	N.D.		99	100	0	106			78	118
0778	Ethylbenzene										
	0.2 ug/l	N.D.		94	94	0	105			77	119
0779	Total Xylenes										
	0.6 ug/l	N.D.		97	97	0	108			76	116

EMEEF
10/11/01

10/11/01

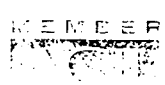


LLI Sample No. 2953050
MW-28S-02 Unspiked Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

	SURROGATE SUMMARY		SURROGATE LIMITS	
	TRIAL ID	SURROGATE	RECOVERY %	LOW HIGH
1861 PAH's in Water		Nitrobenz	91	60 120
		Triphenyle	86	60 120
8213 BTEX (8021)		TFT	110	70 130



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 A division of Thermo Analytical Inc.

LLI Sample No. WW 2953048

Collected: 6/24/98 at 16:35 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-29S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
 M29-S SDG#: MOS03-10

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	METHOD DETECTION LIMIT	
1861	PAH's in Water			See Page 2
8213	BTEX (8021)			See Page 3

1 COPY TO Kerr-McGee Corporation
 1 COPY TO Roy F. Weston
 1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
 ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300
 20:51:58 D 0003 16 128410 620823
 320 0.00 00021753 ASR000

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs

MEMBER
 1998



Lancaster Laboratories

A division of Thermo Analytical Inc.

LLI Sample No. **WW 2953048**

Collected: 6/24/98 at 16:35 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-29S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M29-S SDG#: MOS03-10

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	N.D.	0.77	ug/l
3281	Acenaphthylene	N.D.	0.77	ug/l
3282	Acenaphthene	N.D.	0.77	ug/l
3283	Fluorene	N.D.	0.16	ug/l
3284	Phenanthrene	0.069 J	0.044	ug/l
3285	Anthracene	0.083 J	0.030	ug/l
3286	Fluoranthene	0.59	0.019	ug/l
3287	Pyrene	0.48 J	0.17	ug/l
3288	Benzo(a)anthracene	0.082	0.017	ug/l
3289	Chrysene	0.135 J	0.056	ug/l
3290	Benzo(b)fluoranthene	0.044 J	0.033	ug/l
3291	Benzo(k)fluoranthene	N.D.	0.026	ug/l
3292	Benzo(a)pyrene	0.031 J	0.021	ug/l
3293	Dibenzo(a,h)anthracene	N.D.	0.045	ug/l
3294	Benzo(g,h,i)perylene	N.D.	0.095	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.061	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER
Lancaster Laboratories
Pesticides/PCBs

LLI Sample No. WW 2953048

Collected: 6/24/98 at 16:35 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

MW-29S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M29-S SDG#: MOS03-10

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles

MEMBER
ANALYTICAL



LLI Sample No. WW **2953048**

Collected: 06/24/98 at 16:35 by JA

Submitted: 06/25/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

MW-29S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M29-S SDG#: MOS03-10

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1801	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/27/98 0150	Danerys Clark

MEMBER
 12/31/98

MEMBER
 12/31/98

MEMBER
 12/31/98

LLI Sample No. 2953048

MW-29S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
1861 PAH's in Water		Batch: 981770007A									
3280	Naphthalene 0.77 ug/l	N.D.		97	87	11	80			37	120
3281	Acenaphthylene 0.77 ug/l	N.D.		98	89	10	83			41	135
3282	Acenaphthene 0.77 ug/l	3.4 J ug/l		97	91	6	90			38	135
3283	Fluorene 0.16 ug/l	N.D.		100	92	7	88			41	140
3284	Phenanthrene 0.044 ug/l	N.D.		99	92	6	89			48	152
3285	Anthracene 0.030 ug/l	N.D.		96	90	6	88			42	143
3286	Fluoranthene 0.019 ug/l	N.D.		98	92	5	89			48	155
3287	Pyrene 0.17 ug/l	N.D.		97	94	3	92			51	146
3288	Benzo(a)anthracene 0.017 ug/l	N.D.		93	89	4	88			52	146
3289	Chrysene 0.056 ug/l	N.D.		96	92	3	87			56	145
3290	Benzo(b)fluoranthene 0.033 ug/l	N.D.		94	87	6	91			59	141
3291	Benzo(k)fluoranthene 0.026 ug/l	N.D.		95	91	3	91			60	137
3292	Benzo(a)pyrene 0.021 ug/l	N.D.		92	88	4	90			42	158
3293	Dibenzo(a,h)anthracene 0.045 ug/l	N.D.		93	93	1	92			49	142
3294	Benzo(g,h,i)perylene 0.095 ug/l	N.D.		95	94	0	93			46	148
3295	Indeno(1,2,3-cd)pyrene 0.061 ug/l	N.D.		98	96	2	96			64	134
8213 BTEX (8021)		Batch: 98177A65									
0776	Benzene 0.2 ug/l	N.D.		104	102	2	107			78	138
0777	Toluene 0.2 ug/l	N.D.		99	100	0	106			78	118
0778	Ethylbenzene 0.2 ug/l	N.D.		94	94	0	105			77	119
0779	Total Xylenes 0.6 ug/l	N.D.		97	97	0	108			76	116



LLI Sample No. 2953048
MW-29S-02 Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

	SURROGATE SUMMARY		SURROGATE LIMITS	
	TRIAL ID	SURROGATE	RECOVERY %	LOW HIGH
1861 PAH's in Water		Nitrobenz	90	60 120
		Triphenyle	88	60 120
8213 BTEX (8021)		TFT	107	70 130

MEMBER



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 A division of Thermo Analytical Inc.

LLI Sample No. WW **2953053**

Collected: 6/24/98 at 18:40 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

FB-01-02 Field Blank Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
 M28FB SDG#: MOS03-13FB

Account No: 07802
 Kerr-McGee Corporation
 P.O. Box 25861
 Oklahoma City OK 73125

P.O. MOSS-AMERICAN
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1861	PAH's in Water		See Page 2
8213	BTEX (8021)		See Page 3

1 COPY TO Kerr-McGee Corporation
 1 COPY TO Roy F. Weston
 1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
 ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
 Kay G. Hower at (717) 656-2300
 20:55:38 D 0003 16 128410 620823
 320 0.00 00021753 ASR000

Respectfully Submitted
 Jenifer E. Hess, B.S.
 Group Leader Pesticides/PCBs

MEMBER



LLI Sample No. WW 2953053

Collected: 6/24/98 at 18:40 by JA

Submitted: 6/25/98 Reported: 7/20/98
Discard: 8/20/98

FB-01-02 Field Blank Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28FB SDG#: MOS03-13FB

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	N.D.	0.76	ug/l
3281	Acenaphthylene	N.D.	0.76	ug/l
3282	Acenaphthene	N.D.	0.76	ug/l
3283	Fluorene	N.D.	0.16	ug/l
3284	Phenanthrene	N.D.	0.044	ug/l
3285	Anthracene	N.D.	0.030	ug/l
3286	Fluoranthene	N.D.	0.019	ug/l
3287	Pyrene	N.D.	0.17	ug/l
3288	Benzo(a)anthracene	N.D.	0.017	ug/l
3289	Cr.ysene	N.D.	0.056	ug/l
3290	Benzo(b)fluoranthene	N.D.	0.033	ug/l
3291	Benzo(k)fluoranthene	N.D.	0.026	ug/l
3292	Benzo(a)pyrene	N.D.	0.021	ug/l
3293	Dibenzo(a,h)anthracene	N.D.	0.045	ug/l
3294	Benzo(g,h,i)perylene	N.D.	0.095	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.061	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER
Lancaster Laboratories
A Division of Thermo Analytical Inc.



LLI Sample No. WW 2953053

Collected: 6/24/98 at 18:40 by JA

Submitted: 6/25/98 Reported: 7/20/98

Discard: 8/20/98

FB-01-02 Field Blank Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28FB SDG#: MOS03-13FB

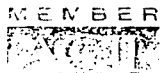
Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles



MEMBER
Lancaster Laboratories
2000 West 10th Street
P.O. Box 10425
Oklahoma City, Oklahoma 73113



LLI Sample No. WW 2953053

Collected: 06/24/98 at 18:40 by JA

Submitted: 06/25/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

FB-01-02 Field Blank Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28FB SDG#: MOS03-13FB

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	07/01/98 1844	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/27/98 1230	Deborah M. Zimmerman
8213	BTEX (8021)	SW-846 8021B	1	06/27/98 0013	Danerys Clark

MEMBER
 LABORATORY
 CHRONICLE



LLI Sample No. 2953053
FB-01-02 Field Blank Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH	
1861 PAH's in Water		Batch: 981770007A										
3280	Naphthalene											
	0.76 ug/l	N.D.		97	87	11	80			37	120	
3281	Acenaphthylene											
	0.76 ug/l	N.D.		98	89	10	83			41	135	
3282	Acenaphthene											
	0.76 ug/l	3.4 J ug/l		97	91	6	90			38	135	
3283	Fluorene											
	0.16 ug/l	N.D.		100	92	7	88			41	140	
3284	Phenanthrene											
	0.044 ug/l	N.D.		99	92	6	89			48	152	
3285	Anthracene											
	0.030 ug/l	N.D.		96	90	6	88			42	143	
3286	Fluoranthene											
	0.019 ug/l	N.D.		98	92	5	89			48	155	
3287	Pyrene											
	0.17 ug/l	N.D.		97	94	3	92			51	146	
3288	Benzo(a)anthracene											
	0.017 ug/l	N.D.		93	89	4	88			52	146	
3289	Chrysene											
	0.056 ug/l	N.D.		96	92	3	87			56	145	
3290	Benzo(b)fluoranthene											
	0.033 ug/l	N.D.		94	87	6	91			59	141	
3291	Benzo(k)fluoranthene											
	0.026 ug/l	N.D.		95	91	3	91			60	137	
3292	Benzo(a)pyrene											
	0.021 ug/l	N.D.		92	88	4	90			42	158	
3293	Dibenzo(a,h)anthracene											
	0.045 ug/l	N.D.		93	93	1	92			49	142	
3294	Benzo(g,h,i)perylene											
	0.095 ug/l	N.D.		95	94	0	93			46	148	
3295	Indeno(1,2,3-cd)pyrene											
	0.061 ug/l	N.D.		98	96	2	96			64	134	
8213 BTEX (8021)		Batch: 98177A65										
0776	Benzene											
	0.2 ug/l	N.D.		104	102	2	107			78	138	
0777	Toluene											
	0.2 ug/l	N.D.		99	100	0	106			78	118	
0778	Ethylbenzene											
	0.2 ug/l	N.D.		94	94	0	105			77	119	
0779	Total Xylenes											
	0.6 ug/l	N.D.		97	97	0	108			76	116	

MEMBER
ANALYSIS

100



LLI Sample No. 2953053

FB-01-02 Field Blank Grab Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
1861 PAH's in Water	Nitrobenz	87	60	120
	Triphenyle	87	60	120
8213 BTEX (8021)	TFT	108	70	130

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LLI Sample No. **WW 2954054**

Collected: 6/25/98 at 12:30 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

FB-02-02 Field Blank Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
FB-02 SDG#: MOS03-21FB

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
1861	PAH's in Water		See Page 2
8213	BTEX (8021)		See Page 3

1 COPY TO Kerr-McGee Corporation
1 COPY TO Roy F. Weston
1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
21:21:31 D 0003 8 128410 621065
232 0.00 00021753 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
2425 West Holland Ave
PO Box 12423
Tulsa, OK 74112-0423



LLI Sample No. **ww 2954054**

Collected: 6/25/98 at 12:30 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

FB-02-02 Field Blank Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
FB-02 SDG#: MOS03-21FB

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
PAH's in Water				
3280	Naphthalene	N.D.	0.77	ug/l
3281	Acenaphthylene	N.D.	0.77	ug/l
3282	Acenaphthene	N.D.	0.77	ug/l
3283	Fluorene	N.D.	0.16	ug/l
3284	Phenanthrene	N.D.	0.044	ug/l
3285	Anthracene	N.D.	0.030	ug/l
3286	Fluoranthene	N.D.	0.019	ug/l
3287	Pyrene	N.D.	0.17	ug/l
3288	Benzo(a)anthracene	N.D.	0.017	ug/l
3289	Chrysene	N.D.	0.057	ug/l
3290	Benzo(b)fluoranthene	N.D.	0.034	ug/l
3291	Benzo(k)fluoranthene	N.D.	0.026	ug/l
3292	Benzo(a)pyrene	N.D.	0.021	ug/l
3293	Dibenzo(a,h)anthracene	N.D.	0.045	ug/l
3294	Benzo(g,h,i)perylene	N.D.	0.095	ug/l
3295	Indeno(1,2,3-cd)pyrene	N.D.	0.061	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs



Lancaster Laboratories
2425 New Holland Pike
PO Box 10400
Lancaster, PA 17606-0400
Tel: (717) 656-2300



Lancaster Laboratories

A division of Thermo Analytical Inc.

LLI Sample No. **ww 2954054**

Collected: 6/25/98 at 12:30 by EC

Submitted: 6/26/98 Reported: 7/16/98

Discard: 8/16/98

FB-02-02 Field Blank Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
FB-02 SDG#: MOS03-21FB

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles



Lancaster Laboratories
2425 New Holland Pike
Ocala, FL 32067
Lancaster Environmental Services



LLI Sample No. **ww 2954054**

Collected: 06/25/98 at 12:30 by EC

Submitted: 06/26/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

FB-02-02 Field Blank Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI
 FB-02 SDG#: MOS03-21FB

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
1861	PAH's in Water	SW-846 8310	1	06/30/98 2105	Lori L. Conley-Shoemaker
3337	PAH Water Extraction	SW-846 3510C	1	06/29/98 0800	Joseph S. Feister
8213	BTEX (8021)	SW-846 8021B	1	07/02/98 1611	Danerys Clark



Lancaster Laboratories
 2425 New Holland Pike
 P.O. Box 12440
 Lincoln, NE 68512-2405
 Phone: (402) 426-2405



LLI Sample No. **2954054**
 FB-02-02 Field Blank Grab Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH

1861 PAH's in Water		Batch: 981770007B									

3280	Naphthalene										
	0.77 ug/l	N.D.		97	87	11	64	71	10	37	120
3281	Acenaphthylene										
	0.77 ug/l	N.D.		98	89	10	75	82	10	41	135
3282	Acenaphthene										
	0.77 ug/l	N.D.		97	91	6	70	79	12	38	135
3283	Fluorene										
	0.16 ug/l	N.D.		100	92	7	76	84	10	41	140
3284	Phenanthrene										
	0.044 ug/l	N.D.		99	92	6	82	88	7	48	152
3285	Anthracene										
	0.030 ug/l	N.D.		96	90	6	79	84	7	42	143
3286	Fluoranthene										
	0.019 ug/l	N.D.		98	92	5	88	92	5	48	155
3287	Pyrene										
	0.17 ug/l	N.D.		97	94	3	94	98	4	51	146
3288	Benzo(a)anthracene										
	0.017 ug/l	N.D.		93	89	4	88	91	4	52	146
3289	Chrysene										
	0.057 ug/l	N.D.		96	92	3	88	91	3	56	145
3290	Benzo(b)fluoranthene										
	0.034 ug/l	N.D.		94	87	6	87	91	4	59	141
3291	Benzo(k)fluoranthene										
	0.026 ug/l	N.D.		95	91	3	88	91	4	60	137
3292	Benzo(a)pyrene										
	0.021 ug/l	N.D.		92	88	4	88	91	3	42	158
3293	Dibenzo(a,h)anthracene										
	0.045 ug/l	N.D.		93	93	1	89	92	4	49	142
3294	Benzo(g,h,i)perylene										
	0.095 ug/l	N.D.		95	94	0	95	98	3	46	148
3295	Indeno(1,2,3-cd)pyrene										
	0.061 ug/l	N.D.		98	96	2	134	139	4	64	134

8213 BTEX (8021)		Batch: 98182A65									

0776	Benzene										
	0.2 ug/l	N.D.		107	105	3	102			78	138
0777	Toluene										
	0.2 ug/l	N.D.		106	103	3	101			78	118
0778	Ethylbenzene										
	0.2 ug/l	N.D.		105	101	3	100			77	119
0779	Total Xylenes										
	0.6 ug/l	N.D.		107	104	2	103			76	116



Lancaster Laboratories
 1421 Woodmoor and Park
 PO Box 10025
 Milwaukee, WI 53210-0025
 Phone: 414-770-0425
 Fax: 414-770-0426



LLI Sample No. 2954054
FB-02-02 Field Blank Grab Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
Kerr-McGee Corporation

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
1861 PAH's in Water	Nitrobenz	78	60	120
	Triphenyle	82	60	120
8213 BTEX (8021)	TFT	108	70	130



Lancaster Laboratories
2405 New Hope Road
P.O. Box 10445
Milwaukee, WI 53210-0445
Tel: 414-224-1242

Lancaster Laboratories

A division of Thermo Analytical Inc.

LLI Sample No. **ww 2954055**
Collected:

Submitted: 6/26/98 Reported: 7/16/98
Discard: 8/16/98

Trip Blank Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
TB--- SDG#: MOS03-22TB*

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

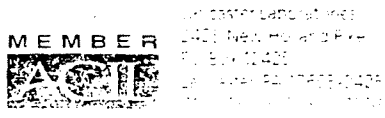
CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
8213	BTEX (8021)		See Page 2

1 COPY TO Kerr-McGee Corporation
1 COPY TO Roy F. Weston
1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
21:22:54 D 0003 8 128410 621065
232 0.00 00005933 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs





Lancaster Laboratories

A division of Thermo Analytical Inc.

LLI Sample No. **WW 2954055**
Collected:

Submitted: 6/26/98 Reported: 7/16/98
Discard: 8/16/98

Trip Blank Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI
TB--- SDG#: MOS03-22TB*

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	METHOD DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles



Lancaster Laboratories
2400 North Holland Pike
PO Box 12425
Oklahoma City, Oklahoma 73112-0425
Phone: (405) 763-1242
Fax: (405) 763-1243



LLI Sample No. WW 2954055

Collected:

Submitted: 06/26/98

Account No: 07802 Kerr-McGee Corporation P.O. Box 25861 Oklahoma City OK 73125

Trip Blank Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI
 TB--- SDG#: MOS03-22TB*

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
8213	BTEX (8021)	SW-846 8021B	1	07/02/98 1538	Danerys Clark

MEMBER



Lancaster Laboratories
 1425 New Holland Pike
 P.O. Box 12425
 Lancaster, PA 17606-2425





LLI Sample No. **2954055**
 Trip Blank Water Sample
 RFW W.O. #02687-007-002-0022-00
 Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
 Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH

8213 BTEX (8021)		Batch: 98182A65									
0776	Benzene 0.2 ug/l	N.D.		107	105	3	102			78	138
0777	Toluene 0.2 ug/l	N.D.		106	103	3	101			78	118
0778	Ethylbenzene 0.2 ug/l	N.D.		105	101	3	100			77	119
0779	Total Xylenes 0.6 ug/l	N.D.		107	104	2	103			76	116



Lancaster Laboratories
 2425 Ever-Howard Drive
 Milwaukee, WI 53218
 Phone: 414-766-0443



LLI Sample No. 2954055
Trip Blank Water Sample
RFW W.O. #02687-007-002-0022-00
Moss-American Superfund Site - Milwaukee, WI

Group No. 621065
Kerr-McGee Corporation

SURROGATE SUMMARY			SURROGATE LIMITS	
TRIAL ID	SURROGATE	RECOVERY %	LOW	HIGH
8213 BTEX (8021)	TFT	109	70	130

LLI Sample No. WW **2953054**
Collected: 6/17/98 by JA

Submitted: 6/25/98 Reported: 7/20/98
Discard: 8/20/98

Trip Blank Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28TB SDG#: MOS03-14TB

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Re1.

CAT NO.	ANALYSIS NAME	AS RECEIVED	
		RESULTS	METHOD DETECTION LIMIT UNITS
8213	BTEX (8021)		See Page 2

1 COPY TO Kerr-McGee Corporation
1 COPY TO Roy F. Weston
1 COPY TO Data Package Group

ATTN: Garet Van de Steeg, PhD
ATTN: Mr. Tom Graan

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300
20:56:18 D 0003 16 128410 620823
320 0.00 00005933 ASR000

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

MEMBER



LLI Sample No. WW **2953054**
Collected: 6/17/98 by JA

Submitted: 6/25/98 Reported: 7/20/98
Discard: 8/20/98

Trip Blank Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28TB SDG#: MOS03-14TB

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

P.O. MOSS-AMERICAN
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	METHOD		
		RESULTS	DETECTION LIMIT	UNITS
BTEX (8021)				
0776	Benzene	N.D.	0.2	ug/l
0777	Toluene	N.D.	0.2	ug/l
0778	Ethylbenzene	N.D.	0.2	ug/l
0779	Total Xylenes	N.D.	0.6	ug/l

Questions? Contact your Client Services Representative
Kay G. Hower at (717) 656-2300

Respectfully Submitted
Michele Turner, B.A.
Manager, Volatiles





LLI Sample No. **WW 2953054**
Collected: 06/17/98 by JA

Submitted: 06/25/98

Account No: 07802
Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City OK 73125

Trip Blank Water Sample

Moss-American Superfund Site - Milwaukee, WI
M28TB SDG#: MOS03-14TB

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		ANALYST
			TRIAL ID	DATE AND TIME	
8213	BTEX (8021)	SW-846 8021B	1	06/26/98 2308	Danerys Clark

MEMBER
ACSI



LLI Sample No. 2953054

Trip Blank Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
8213 BTEX (8021)		Batch: 98177A65									
0776	Benzene										
	0.2 ug/l	N.D.		104	102	2	107			78	138
0777	Toluene										
	0.2 ug/l	N.D.		99	100	0	106			78	118
0778	Ethylbenzene										
	0.2 ug/l	N.D.		94	94	0	105			77	119
0779	Total Xylenes										
	0.6 ug/l	N.D.		97	97	0	108			76	116





LLI Sample No. 2953054
Trip Blank Water Sample

Moss-American Superfund Site - Milwaukee, WI

Group No. 620823
Kerr-McGee Corporation

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
8213 BTEX (8021)	TFT	108	70	130

