June, 1994

DRAFT

TRANSMITTAL OF SECOND QUARTER 1994 GROUNDWATER MONITORING DATA UNION PACIFIC RAILROAD YARD SACRAMENTO, CALIFORNIA

DAMES & MOORE

SAC110.21

Project No. 00173-080-044
June 1994

DAMES & MOORE
8801 FOLSOM BOULEVARD, SUITE 200, SACRAMENTO, CALIFORNIA 95826
(916) 387-8800 FAX: (916) 387-0802

June 2, 1994

Mr. James L. Tjosvold, Acting Branch Chief
Region 1, Department of Toxic Substances Control
California Environmental Protection Agency
10151 Croydon Way, Suite 3
Sacramento, CA 95827

Attention: Mr. Jose Salcedo
Project Manager

Re: Transmittal of Second Quarter 1994 Groundwater Monitoring Data
Union Pacific Railroad Yard
Sacramento, California
Project No. 00173-080-044

Dear Mr. Salcedo:

At the request of Union Pacific Railroad Company (UPRR), Dames & Moore is forwarding the enclosed Transmittal of Second Quarter 1994 Groundwater Monitoring Data for the Union Pacific Railroad Yard, Sacramento, California.

If you have any questions or require further information, please telephone us at (916) 387-7530.

Sincerely,

DAMES & MOORE

Jim Brake, R.G.
Project Manager

FOR Mark Eisen
Project Hydrogeologist

Enclosure

cc: Distribution List

SAC110.21

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SACRAMENTO, CALIFORNIA
PROJECT NUMBER 00173-080-044

Mr. Glenn Thomas
Manager Environmental Site Remediation
Environmental Management Group
Union Pacific Railroad Company
1416 Dodge Street, Room 930
Omaha, NE 68179-0930

Mr. James Tjosvold, Acting Branch Chief
Site Mitigation
Region 1, Department of Toxic Substances Control
California Environmental Protection Agency
10151 Croyden Way, Suite 3
Sacramento, CA 95827-2106
Attn: Jose Salcedo, Project Engineer

Ms. Wendy L. Cohen, P.E.
Senior Water Resources Control Engineer
Regional Water Quality Control Board
3443 Routier Road
Sacramento, CA 95827-3098

Mr. Joe Serna, Jr., Mayor
City of Sacramento
915 I Street, Room 205
Sacramento, CA 95814
Attn: Sally Hencken, Aide

Mr. Tom Finley, Division Manager
Department of Public Works
City of Sacramento
927 Tenth Street, Room 200
Sacramento, CA 95814

Mr. Robert Lee
Deputy Director Public Works
City of Sacramento
915 I Street, Room 207
Sacramento, CA 95814

DISTRIBUTION LIST: **UNION PACIFIC RAILROAD YARD**
SACRAMENTO, CALIFORNIA
PROJECT NUMBER 00173-080-044

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Sacramento, CA 95814

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Sacramento, CA 95822

Mr. Jeff Asay
Assistant General Solicitor
Union Pacific Railroad Company
5500 Ferguson Drive, Suite J
Los Angeles, CA 90022

Ms. Patricia Mendoza
City of Sacramento
Department of Planning & Development
1231 I Street, Room 300
Sacramento, CA 95814

Mr. Daniel P. Costa, Esq.
Diepenbrock & Costa
455 University Avenue, Suite 300
Sacramento, CA 95825

TRANSMITTAL OF FIRST QUARTER 1994
GROUNDWATER MONITORING DATA
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

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GROUNDWATER ELEVATION DATA, 1988–1994
(Elevation in feet mean sea level datum)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

DATE	MW–1	MW–2	MW–3	MW–4	MW–5	MW–6	MW–7	MW–8	MW–11	MW–12	MW–13
02/19/88	0.00	–0.85	–0.61	–3.50	–3.37	–3.64	–5.73	–5.40	---	---	---
03/02/88	–0.02	–0.92	–0.62	–3.49	–3.44	–3.70	–4.83	–4.21	---	---	---
04/14–15–16/88	0.04	–1.22	–1.26	–3.71	–3.70	–3.96	–5.07	–4.47	---	---	---
07/15/88	–0.32	–2.24	–2.39	–4.50	–4.62	–4.85	–5.86	–5.24	---	---	---
08/19/88	–0.53	*	–2.97	–4.94	–5.05	–5.28	–6.25	–5.64	---	---	---
01/06/89	–1.92	*	–2.50	–5.42	–5.44	–5.68	–6.76	–6.16	---	---	---
10/09/89	–1.52	–2.83	–2.68	–5.43	–5.46	–5.72	–6.85	–6.21	–4.99	–5.63	–5.48
02/21/90	–1.29	–1.22	–0.24	–4.12	–4.20	–4.50	–5.83	–5.10	–3.48	–4.47	–4.21
06/15/90	–0.86	–1.99	–2.01	–4.66	–4.61	–4.90	–6.07	–5.44	–4.20	–4.93	–4.73
09/20/90	–1.89	–3.76	–4.05	–6.14	–6.15	–6.40	–7.47	–6.85	–5.74	–6.38	–6.18
02/05/91	–3.18	–3.85	–3.81	–6.60	–6.57	–6.84	–7.94	–7.37	–6.04	–6.82	–6.69
04/22/91	–2.05	–2.37	–2.22	–5.12	–5.07	–5.37	–6.59	–5.93	–4.64	–5.38	–5.18
07/30/91	–2.40	–3.98	–4.14	–6.43	–6.47	–6.73	–7.79	–7.17	–6.01	–6.65	–6.47
12/27/91	–3.82	–5.04	–5.20	–7.47	–7.41	–7.67	–8.72	–8.15	–7.05	–7.66	–7.53
01/22/92	–3.84	–4.72	–4.64	–7.28	–7.18	–7.46	–8.54	–7.98	–6.83	–7.49	–7.33
05/08/92	–2.37	–3.05	–2.97	–5.70	–5.46	–5.85	–7.04	–6.44	–5.41	–5.96	–5.76
09/29/92	–3.18	–4.95	–5.22	–7.21	–7.24	–7.49	–8.54	–7.92	–6.82	–7.42	–7.27
11/02/92	–3.67	–5.22	–5.26	–7.5	–7.49	–7.72	–8.80	–8.18	–7.11	–7.69	–7.58
01/12 – 01/13/93	–3.30	–3.29	–1.74	–7.11	–6.26	–6.54	–7.92	–7.12	–5.51	–6.45	–6.22
04/07/93	0.35	0.33	0.83	–2.71	–2.57	–2.92	–4.37	–3.61	–2.14	–3.03	–2.77
06/28/93	0.11	–1.27	–1.33	**	–3.99	–4.29	–5.48	–4.96	–3.72	–4.35	–4.77
09/20/93	--	–2.47	--	**	--	--	–6.27	--	–4.37	–5.00	–4.87
01/04/94	–1.48	–2.67	–2.56	**	--	–5.45	–6.58	–6.00	–4.80	–5.47	–5.35
04/11/94	–1.35	–2.31	–2.37	**	–5.00	–5.31	–6.39	–5.92	–4.79	–5.39	–5.83

SAC21A1.WK1

TABLE 1
GROUNDWATER ELEVATION DATA, 1988–1994
(Elevation in feet mean sea level datum)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

DATE	MW–14	MW–15	MW–16	MW–17	MW–18	MW–19	MW–20	MW–21	MW–22	MW–23	MW–24
10/09/89	–5.55	–5.56	–5.56	–6.03	–6.09	–6.77	–6.85	–6.43	–6.41	–6.10	–6.10
02/21/90	–4.31	–4.29	–4.29	–4.82	–4.95	–5.82	–5.91	–5.35	–5.33	–4.96	–4.94
06/15/90	–4.80	–4.79	–4.79	–5.28	–5.36	–6.05	–6.12	–5.64	–5.62	–5.30	–5.27
09/20/90	–6.26	–6.26	–6.25	–6.69	–6.76	–7.37	–7.45	–7.07	–7.04	–6.77	–6.75
02/05/91	–6.76	–6.71	–6.71	–7.23	–7.29	–7.97	–8.03	–7.55	–7.53	–7.22	–7.18
04/22/91	–5.27	–5.22	–5.23	–5.77	–5.85	–6.57	–6.65	–6.13	–6.13	–5.80	–5.77
07/30/91	–6.53	–6.57	–6.55	–7.00	–7.06	–7.70	–7.76	–7.38	–7.35	–7.09	–7.07
12/27/91	–7.60	–7.57	–7.57	–8.02	–8.08	–8.69	–8.76	–8.33	–8.32	–8.04	–8.02
01/22/92	–7.41	–7.37	–7.36	–7.86	–7.92	–8.56	–8.64	–8.16	–8.15	–7.82	–7.82
05/08/92	–5.84	–5.79	–5.8	–6.32	–6.38	–7.08	–7.15	–6.64	–6.61	–6.25	–6.23
09/29/92	–7.32	–7.36	–7.36	–7.78	–7.85	–8.47	–8.52	–8.14	–8.12	–7.86	–7.85
11/02/92	–7.63	–7.26	–7.26	–7.58	–8.13	–8.71	–8.82	–8.38	–8.40	–8.10	–8.08
01/12 – 01/13/93	–6.28	–6.26	–6.27	–6.79	–6.94	–7.66	–7.97	–7.42	–7.43	–6.99	–6.92
04/07/93	–2.86	–2.83	–2.83	–3.45	–3.57	–4.42	–4.48	–3.85	–3.84	–3.39	–3.37
06/28/93	–4.70	–4.42	–4.49	–4.91	–4.97	–5.66	–5.70	–5.10	–5.10	–4.70	–4.67
09/20/93	–4.91	––	–4.94	––	–5.57	––	–6.22	––	––	––	––
01/04/94	–5.40	–5.38	–5.38	–5.89	–5.97	–6.61	–6.66	–6.19	–6.18	–5.85	–5.83
04/11/94	–5.75	–5.45	–5.51	–5.91	–5.98	–6.60	–6.61	–6.07	–6.07	–5.69	–5.67

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TABLE 1
GROUNDWATER ELEVATION DATA, 1988–1994
(Elevation in feet mean sea level datum)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

DATE	MW–25	MW–26	MW–27	MW–28	MW–29	MW–30	MW–31	MW–32	MW–33	MW–34	MW–35
10/09/89	–7.47	–7.46	–7.46	---	---	---	---	---	---	---	---
02/21/90	–6.55	–6.55	–6.54	–5.35	–5.01	–5.07	---	---	---	---	---
06/15/90	–6.70	–6.70	–6.69	–5.66	–5.34	–5.37	–5.51	–6.04	–4.21	---	---
09/20/90	–8.05	–8.05	–8.04	–7.04	–6.73	–6.76	–6.88	–7.34	–5.75	---	---
02/05/91	–8.55	–8.55	–8.53	–7.59	–7.31	–7.40	–7.48	–7.93	–7.04	---	---
04/22/91	–7.26	–7.27	–7.25	–6.16	–5.86	–5.90	–6.02	–6.57	–4.63	---	---
07/30/91	–8.39	–8.38	–8.37	–7.32	–7.04	–7.07	–7.19	–7.66	–6.01	–8.34	–8.30
12/27/91	–9.29	–9.30	–9.29	–8.33	–8.10	–8.13	–8.26	–8.70	–7.06	–9.38	–9.39
01/22/92	–9.13	–9.14	–9.13	–8.15	–7.91	–7.94	–8.07	–8.54	–6.84	–9.28	–9.29
05/08/92	–7.69	–7.69	–7.68	–6.72	–6.41	–6.45	–6.58	–7.09	–5.23	–8.38	–7.89
09/29/92	–9.09	–9.09	–9.08	–8.08	–7.83	–7.86	–7.95	–8.39	–6.82	–9.11	–9.11
11/02/92	–9.34	–9.33	–9.33	–8.37	–8.10	–8.13	–8.27	–8.74	–7.13	–9.37	–9.40
01/12 – 01/13/93	–8.53	–8.54	–8.55	–7.24	–6.92	–6.93	–7.15	–7.83	–5.46	–8.76	–8.78
04/07/93	–5.11	–5.12	–5.14	–4.46	–3.53	–3.73	–3.79	–4.41	–2.17	–5.38	–5.38
06/28/93	–5.95	–5.97	–5.97	–4.90	–4.70	–4.96	–5.21	--	–3.74	–6.22	–6.17
09/20/93	--	–6.73	--	–6.02	–5.88	–5.90	–6.13	--	–4.38	–7.03	–6.98
01/04/94	–7.12	–7.13	–7.13	–6.18	–5.96	–5.96	–6.18	--	–4.82	–7.38	–7.38
04/11/94	–6.88	–6.89	–6.89	--	--	--	--	--	–4.81	--	--

SAC21A1.WK1

TABLE 1
GROUNDWATER ELEVATION DATA, 1988–1994
(Elevation in feet mean sea level datum)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

DATE	MW–36	MW–37	MW–38	MW–39	MW–40	MW–41	MW–42	MW–43	MW–44
07/30/91	---	---	---	–13.73	–7.83	–6.66	–5.07	–4.24	---
12/27/91	–10.71	–10.91	–13.05	–14.67	–8.82	–7.66	–6.13	–5.30	---
01/22/92	–10.69	–10.85	–13.02	–14.64	–8.65	–7.49	–5.88	–4.99	---
05/08/92	–9.46	–9.66	–11.97	–13.69	–7.24	–5.98	–4.25	–3.32	---
09/29/92	–10.28	–10.61	–12.84	–14.51	–8.50	–7.41	–5.98	–5.20	---
11/02/92	–10.63	–10.88	–13.07	–14.67	–8.84	–7.70	–6.08	–5.15	–13.13
01/12 – 01/13/93	–10.34	–10.43	–12.74	–14.50	–9.88	–6.46	–4.46	–3.59	–12.77
04/07/93	–7.19	–7.43	–10.16	–12.29	--	–3.03	–1.05	0.01	–10.26
06/28/93	–7.42	–7.65	–9.89	–11.60	–5.53	–4.31	–2.48	–1.57	–10.01
09/20/93	–8.09	–8.46	–10.50	–12.26	–6.60	–4.96	–3.46	–2.72	–10.69
01/04/94	–8.67	–8.85	–10.96	–12.61	–6.67	–5.46	--	–2.94	–11.02
04/11/94	--	--	--	--	--	–5.35	–3.57	–2.61	--

* Lock on well cover was vandelized, rendering well inaccessible.
--- Prior to well installation.
-- Not measured
** Extraction well for groundwater treatment system. Unable to measure water level in this well.

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–01	03/03/88	4.0	--	--	--
	04/14/88	5.0	30	--	--
	09/20/89	--	--	--	--
	05/10/90	9.0	--	--	--
	09/05/90	--	--	--	--
	01/21/91	--	--	--	--
	04/22/91	--	5.0	130	--
	01/29/92	--	8.0	--	--
	07/09/93	NA	NA	--	NA
	01/17/94	NA	NA	NA	--
MW–02	03/03/88	3.0	--	--	--
	04/14/88	--	120	--	--
	09/20/89	--	--	--	--
	05/17/90	1.0	--	20	--
	09/11/90	--	--	--	--
	01/22/91	--	--	--	--
	04/22/91	4.0	5.7	140	--
	08/01/91	--	--	--	--
	11/07/91	--	--	--	--
	02/07/92	--	--	--	--
	08/25/92	--	--	--	1.0
	01/19/93	--	6.0	12	--
	07/01/93	NA	NA	6.3	NA
	01/05/94	NA	NA	--	NA
MW–03	03/03/88	4.0	--	--	--
	04/14/88	3.0	40	--	--
	09/20/89	--	--	--	16
	02/13/90	NA	NA	NA	20
	05/10/90	9.0	--	--	20
	09/05/90	--	--	--	--
	01/22/91	--	--	--	--
	04/23/91	--	1.5	--	--
	08/01/91	--	--	--	--
	01/29/92	--	--	--	--
	07/09/93	NA	NA	NA	5.7
	01/17/94	NA	NA	--	NA

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–04	03/03/88	6.0	--	140	--
	04/18/88	5.0	10.0	160	--
	09/20/89	--	--	34	12
	02/15/90	NA	NA	NA	10
	05/23/90	--	4.5	99	--
	09/18/90	--	--	71	--
	05/01/91	6.1	--	11	--
	02/05/91	--	33	200	--
	08/14/91	5.0	--	--	--
	11/07/91	5.0	--	--	--
	01/28/92	--	--	--	--
	08/26/92	--	14	--	--
	01/20/93	--	14	8.0	--
	04/15/93	NA	NA	8.9	NA
	04/18/93	NA	NA	5.0	NA
	04/23/93	NA	NA	6.5	NA
	04/30/93	NA	NA	5.0	NA
	05/06/93	NA	NA	7.1	NA
	05/14/93	NA	NA	10	NA
	06/17/93	NA	NA	14	NA
	07/12/93	NA	NA	6.7	NA
	08/03/93	NA	NA	10	NA
	09/10/93	NA	NA	12	NA
	10/07/93	NA	NA	8.0	NA
	11/08/93	NA	NA	7.8	NA
	01/14/94	NA	NA	7.8	NA
	04/07/94	NA	NA	9.6	NA
MW–05	03/04/88	--	10	--	--
	04/15/88	--	--	--	--
	09/20/89	9.3	--	159	--
	05/17/90	2.0	--	70	--
	09/12/90	--	14	--	--
	01/22/91	--	11	100	--
	04/23/91	--	7.2	81	--
	08/12/91	--	--	--	--
	11/13/91	--	--	--	--
	01/28/92	--	--	--	--
	01/22/93	--	7.0	42	--
	01/17/94	NA	--	47	NA

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–06	03/04/88	5.0	--	--	--
	04/15/88	--	40	--	--
	09/20/89	--	7.1	39	--
	05/17/90	2.0	--	100	--
	09/11/90	--	21	42	--
	01/24/91	7.0	15	--	--
	04/23/91	5.8	5.4	40	--
	08/12/91	--	--	120	1.0
	11/13/91	--	7.0	110	--
	01/28/92	--	--	180	--
	08/28/92	--	5.0	110	--
	01/22/93	--	--	16	--
	07/09/93	NA	NA	36	NA
	01/17/94	NA	--	36	NA
MW–07	03/04/88	4.0	10	50	--
	04/15/88	9.0	470	230	
	09/15/89	--	5.0	405	--
	05/23/90	--	111	215	10
	09/07/90	--	15	250	--
	01/30/91	7.0	200	200	--
	04/26/91	--	18	130	--
	08/07/91	--	14	150	--
	11/13/91	--	15	140	--
	02/07/92	--	15	180	--
	08/31/92	--	24	--	--
	10/23/92	NA	NA	--	NA
	01/29/93	--	17	47	--
	07/07/93	NA	10	62	NA
	01/10/94	NA	12	71	--
MW–08	03/03/88	--	--	--	--
	04/18/88	5.0	40		
	09/20/89	--	--	--	--
	02/13/90	NA	NA	NA	30
	05/23/90	--	--	12	24
	09/13/90	--	--	--	--
	01/30/91	6.0	--	--	70
	04/26/91	--	8.8	29	--
	08/12/91	--	--	--	--
	11/11/91	--	--	--	--
	01/28/92	--	6.0	--	--
	08/28/92	--	--	--	--
	01/27/93	--	--	19	--
	01/17/94	NA	NA	21	--

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TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–11	09/06/89	9.7	27	160	57
	02/15/90	NA	NA	NA	20
	05/18/90	--	47	76	--
	09/17/90	--	47	55	--
	01/30/91	--	200	--	--
	04/26/91	--	38	32	--
	08/15/91	--	25	--	--
	11/07/91	--	19	--	--
	01/27/92	--	28	--	--
	08/26/92	--	48	--	--
	01/14/93	--	47	--	--
	07/02/93	NA	55	NA	NA
	01/05/94	NA	46	8.7	--
MW–12	09/11/89	28	18	15	--
	02/15/90	NA	NA	NA	--
	05/22/90	--	10	51	15
	09/18/90	--	10	71	--
	02/04/91	--	50	200	--
	05/01/91	--	6.6	78	--
	08/15/91	--	5.0	--	--
	11/07/91	--	--	--	--
	01/28/92	--	--	120	--
	08/26/92	--	11	--	--
	10/26/92	NA	NA	--	NA
	01/20/93	--	9.0	85	--
	07/02/93	NA	NA	93	NA
	01/07/94	--	26	94	--
MW–13	09/13/89	18	--	14	--
	02/15/90	NA	NA	NA	--
	05/25/90	30	--	10	--
	09/18/90	36	--	--	--
	02/05/91	20	--	100	--
	04/30/91	33	--	7.0	--
	08/07/91	40	--	--	1.0
	11/07/91	38	--	--	--
	02/07/92	43	--	--	--
	08/26/92	42	--	2.0	--
	01/20/93	21	--	6.0	--
	07/02/93	33	NA	NA	NA
	01/07/94	21	NA	8.4	NA

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–14	09/13/89	--	--	169	--
	02/15/90	NA	NA	NA	--
	05/22/90	--	16	174	--
	09/18/90	--	13	160	--
	02/04/91	--	21	300	--
	05/01/91	--	37	98	--
	08/14/91	6.0	36	--	--
	11/22/91	--	16	--	--
	02/07/92	--	20	--	--
	08/27/92	--	22	--	--
	01/20/93	--	36	12	3.0
	07/02/93	NA	NA	14	NA
MW–15	09/07/89	6.0	--	--	--
	02/07/90	NA	NA	NA	30
	05/16/90	4.0	30	70	--
	09/14/90	5.0	--	52	--
	01/24/91	--	12	--	--
	04/25/91	--	11	51	--
	08/05/91	--	18	--	--
	11/05/91	--	7.0	--	--
	01/30/92	--	6.0	--	--
	08/27/92	--	--	--	--
	01/25/93	13	--	9.6	--
	07/09/93	NA	NA	73	NA
	01/17/94	NA	5.2	55	--
MW–16	09/07/89	6.0	--	--	--
	02/07/90	NA	NA	NA	30
	05/16/90	2.0	--	--	--
	09/14/90	--	10	--	--
	01/24/91	7.0	11	--	--
	04/25/91	--	5.7	20	--
	08/13/91	5.0	5.0	--	--
	11/07/91	--	--	--	--
	01/30/92	--	5.0	--	--
	08/27/92	--	9.0	--	--
	01/21/93	--	7.0	--	--
	01/06/94	NA	5.2	--	--

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TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–17	09/21/89	--	--	--	--
	02/07/90	NA	NA	NA	30
	05/18/90	--	7.2	67	12
	09/13/90	--	--	50	--
	01/25/91	7.0	9.0	200	--
	04/29/91	--	6.9	170	--
	08/06/91	--	5.0	170	--
	11/05/91	--	--	--	--
	01/30/92	--	6.0	110	--
	08/27/92	--	7.0	200	--
	01/25/93	--	--	34	--
	07/09/93	NA	NA	70	NA
	01/17/94	NA	NA	79	--
MW–18	09/21/89	--	--	10	--
	02/07/90	NA	NA	NA	40
	05/18/90	--	5.5	13	21
	09/13/90	--	--	--	--
	01/25/91	6.0	7.0	--	--
	04/29/91	--	6.5	24	--
	08/13/91	6.0	6.0	--	--
	11/05/91	--	--	--	--
	01/30/92	--	--	--	--
	08/27/92	--	7.0	--	--
	01/21/93	--	12	--	--
	01/06/94	NA	NA	--	--
MW–19	09/14/89	--	--	14	--
	02/13/90	NA	NA	NA	20
	05/14/90	8.0	--	60	50
	09/07/90	--	--	45	--
	01/24/91	10	--	--	--
	04/29/91	--	16	69	--
	08/05/91	--	5.0	--	--
	11/11/91	--	--	120	--
	01/30/92	--	5.0	170	--
	08/28/92	--	--	370	--
	01/25/93	--	8.4	84	--
	07/09/93	NA	NA	96	NA
	01/16/94	--	--	100	--

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–20	09/14/89	--	--	--	--
	02/13/90	NA	NA	NA	--
	05/14/90	8.0	--	--	40
	09/07/90	--	--	--	--
	01/24/91	7.0	--	--	--
	04/29/91	--	15	5.3	--
	08/14/91	6.0	8.0	--	--
	11/11/91	--	--	--	--
	01/30/92	--	--	--	--
	08/28/92	--	7.0	--	--
	01/25/93	--	9.8	26	--
	01/06/94	NA	5.4	NA	--
MW–21	09/08/89	8.4	--	15	--
	05/15/90	6.0	--	380	40.0
	09/07/90	--	29.0	300	--
	01/23/91	5.0	7.0	300	--
	04/25/91	--	8.4	310	--
	08/07/91	--	--	190	--
	11/11/91	--	--	400	--
	01/30/92	--	5.0	370	--
	08/28/92	--	--	350	--
	01/29/93	--	--	200	--
	07/08/93	NA	NA	140	NA
	01/16/94	NA	--	400	--
MW–22	09/08/89	24	--	17	--
	05/15/90	9.0	--	--	20
	09/07/90	--	--	--	--
	01/23/91	--	--	--	--
	04/25/91	--	6.9	--	--
	08/14/91	6.0	--	--	--
	11/11/91	--	--	--	--
	01/30/92	6.0	5.0	--	1.0
	01/29/93	--	5.5	6.6	--
	01/16/94	5.9	NA	NA	12

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TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–23	09/08/89	9.7	--	--	--
	05/15/90	3.0	--	450	30
	09/06/90	--	--	250	--
	01/23/91	--	--	400	--
	04/23/91	--	6.5	360	--
	08/02/91	--	7.0	250	--
	11/11/91	--	--	180	--
	01/24/92	--	--	470	--
	08/28/92	--	--	280	--
	01/22/93	--	6.0	200	--
	07/08/93	NA	NA	170	NA
	01/16/94	NA	NA	170	--
MW–24	09/08/89	15	--	--	--
	05/15/90	5.0	--	420	30
	09/06/90	--	--	110	--
	01/23/91	--	--	100	2.0
	04/24/91	--	2.9	240	--
	08/01/91	--	--	300	--
	11/13/91	--	--	130	--
	01/24/92	--	--	190	--
	01/22/93	--	--	98	--
	07/08/93	NA	NA	190	NA
	01/16/94	--	NA	140	--
MW–25	09/11/89	11	--	--	--
	05/16/90	3.0	--	200	--
	09/12/90	--	11	130	--
	01/29/91	8.0	10	300	--
	04/24/91	--	--	240	--
	08/02/91	--	9.0	210	--
	11/13/91	--	7.0	250	--
	01/23/92	--	5.0	910	--
	09/01/92	--	--	760	--
	01/27/93	--	5.5	330	--
	07/08/93	NA	NA	220	NA
	01/16/94	--	--	220	NA

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TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–26	09/11/89	11	--	--	--
	05/16/90	--	--	200	--
	09/12/90	--	--	260	--
	01/29/91	--	--	300	--
	04/24/91	--	8.0	240	--
	08/13/91	--	6.0	250	--
	11/13/91	--	--	750	--
	01/27/92	--	--	720	--
	09/01/92	--	10	--	--
	10/23/92	NA	NA	160	NA
	01/28/93	--	13	110	--
	07/07/93	NA	NA	120	NA
	01/10/94	--	20	100	NA
MW–27	09/15/89	--	19	--	--
	05/21/90	--	--	67	23
	09/17/90	--	--	49	--
	01/29/91	--	8.0	--	--
	04/24/91	--	6.1	38	--
	08/13/91	--	--	--	1.0
	11/13/91	--	--	--	--
	01/23/92	--	--	--	--
	09/01/92	--	6.0	--	--
	01/28/93	--	8.3	46	--
	07/08/93	NA	NA	91	NA
	01/16/94	NA	--	68	--
MW–28	02/15/90	NA	NA	NA	--
	05/25/90	--	4.4	26	16
	09/19/90	--	49	52	--
	02/01/91	--	10	--	1.0
	04/30/91	--	6.0	32	--
	08/13/91	--	5.0	--	2.0
	11/05/91	--	--	--	--
	01/30/92	--	--	--	--
	08/31/92	--	9.0	--	2.0
	01/13/93	--	17	--	--
	01/11/94	NA	9.1	83	--

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TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–29	02/15/90	NA	NA	NA	20
	05/25/90	--	--	15	--
	09/06/90	--	--	--	--
	02/01/91	--	--	--	10
	04/30/91	--	3.0	58	--
	08/15/91	--	--	--	--
	11/05/91	--	--	--	--
	01/30/92	--	--	--	--
	08/31/92	--	--	--	--
	01/14/93	--	--	--	--
	01/11/94	NA	NA	18	10
MW–30	02/15/90	NA	NA	NA	20
	05/24/90	5.0	--	174	63
	09/05/90	--	--	190	--
	02/04/91	--	--	200	2.0
	04/30/91	--	7.9	130	--
	08/15/91	--	8.0	--	--
	11/05/91	--	6.0	--	--
	01/31/92	--	9.0	--	--
	08/31/92	--	8.0	--	--
	01/14/93	--	6.0	--	--
	07/06/93	NA	NA	26	NA
	01/10/94	NA	NA	17	--
MW–31	05/24/90	9.0	--	201	30.0
	09/19/90	--	--	200	--
	02/01/91	--	--	200	1.0
	05/01/91	--	13	73	--
	08/15/91	--	21	--	--
	11/22/91	--	16	--	--
	01/31/92	--	13	--	1.0
	08/31/92	--	--	--	--
	01/21/93	--	--	10	--
	07/07/93	NA	NA	13	NA
	01/11/94	NA	6.0	8.5	--

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TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–32	05/24/90	--	7.4	169	10
	09/19/90	--	--	120	--
	02/01/91	--	40	200	4.0
	05/01/91	--	12	65	--
	08/16/91	--	--	--	--
	11/22/91	--	--	--	--
	01/29/92	--	--	--	--
	09/04/92	--	--	--	--
	01/26/93	13	6.1	46	--
	04/15/93	NA	NA	21	NA
	04/18/93	NA	NA	13	NA
	04/23/93	NA	NA	18	NA
	04/30/93	NA	NA	18	NA
	05/06/93	NA	NA	17	NA
	05/14/93	NA	NA	19	NA
	06/17/93	NA	NA	150	NA
	07/12/93	NA	NA	20	NA
	08/03/93	NA	NA	23	NA
	09/10/93	NA	NA	24	NA
	10/06/93	NA	NA	20	NA
	11/08/93	NA	NA	20	NA
	01/14/94	NA	NA	18	NA
	04/07/94	NA	NA	18	NA
MW–33	05/18/90	--	--	17	35
	09/14/90	--	--	--	--
	01/30/91	8.0	200	--	--
	04/30/91	--	3.5	56	--
	08/07/91	--	5.0	--	1.0
	11/05/91	--	--	--	--
	01/24/92	--	--	--	--
	08/26/92	--	--	--	--
	01/14/93	--	--	--	--
	07/02/93	NA	NA	15	NA
	01/06/94	NA	--	--	NA
MW–34	07/02/91	--	7.0	300	--
	08/16/91	--	6.0	230	--
	11/13/91	--	--	190	--
	01/23/92	--	--	160	--
	09/01/92	--	5.0	--	16
	10/26/92	NA	NA	130	NA
	01/21/93	--	--	83	--
	07/07/93	NA	NA	80	NA
	01/12/94	NA	NA	63	--

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TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–35	07/02/91	--	5.0	--	--
	08/08/91	6.0	9.0	--	--
	11/13/91	--	--	--	--
	01/23/92	--	--	--	--
	09/01/92	--	--	--	--
	01/21/93	--	--	8.0	--
MW–36	12/12/91	--	--	--	--
	01/23/92	--	--	110	--
	09/04/92	--	10	120	--
	10/21/92	NA	NA	--	NA
	01/27/93	--	11	93	--
	04/13/93	NA	NA	32	NA
	07/07/93	NA	NA	79	NA
	09/28/93	NA	NA	87	NA
	01/12/94	--	--	NA	--
MW–37	12/12/91	--	--	--	--
	01/23/92	--	--	--	--
	09/04/92	--	--	--	--
	01/27/93	--	--	--	--
	07/07/93	NA	NA	12	NA
	09/28/93	NA	NA	93	NA
	01/12/94	--	--	NA	--
MW–38	12/12/91	--	--	--	--
	01/24/92	--	--	--	--
	09/04/92	--	7.0	100	--
	01/26/93	--	7.7	86	--
	04/09/93	NA	NA	73	NA
	07/06/93	NA	NA	80	NA
	09/27/93	NA	NA	92	NA
	01/10/94	--	8.6	93	11
MW–39	06/28/91	10	17	--	1.0
	08/06/91	--	17	--	--
	11/13/91	--	--	--	--
	01/24/92	--	--	180	--
	09/04/92	--	10	170	--
	10/21/92	NA	NA	100	NA
	01/27/93	--	8.1	130	--
	07/06/93	NA	NA	280	NA
	01/12/94	NA	--	380	NA

TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–40	06/28/91	5.0	4.0	--	--
	08/15/91	--	7.0	--	--
	11/22/91	--	5.0	--	--
	01/29/92	--	--	100	--
	08/31/92	--	5.0	--	--
	01/26/93	--	--	110	--
	07/15/93	NA	NA	93	NA
	01/11/94	--	NA	46	NA
MW–41	06/28/91	15	5.0	--	--
	08/12/91	7.0	--	--	--
	11/05/91	6.0	6.0	--	--
	01/31/92	7.0	7.0	--	--
	08/25/92	--	11	--	--
	01/20/93	--	9.0	--	--
	01/07/94	--	11	NA	NA
MW–42	06/28/91	8.0	--	200	1.0
	08/08/91	--	10	190	--
	11/07/91	--	--	160	--
	02/07/92	--	--	160	3.0
	08/25/92	--	5.0	--	12
	01/19/93	--	6.0	60	--
	07/01/93	NA	NA	72	NA
	01/05/94	--	--	61	--
MW–43	06/28/91	10	--	200	--
	11/07/91	--	--	160	--
	08/16/91	--	--	220	--
	02/07/92	--	--	180	--
	08/25/92	--	--	120	--
	08/25/92	--	--	120	--
	10/22/92	NA	NA	170	NA
	01/19/93	--	--	130	--
	07/01/93	NA	NA	140	NA
	01/05/94	--	NA	130	NA

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TABLE 2
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988–1994
SELECTED METALS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	As	Cr	Ni	Pb
	MCL	50	50	100*	50
	Background Concentration[1]	0–20	1–20	1–12	<1–9
MW–44	10/27/92	5.0	9.0	--	--
	01/26/93	22	7.5	19	--
	04/09/93	--	9.0	8.7	--
	07/06/93	--	8.2	15	--
	09/27/93	--	8.1	13	--
	01/10/94	--	11	21	--

MCL Maximum Contaminant Level for drinking water, EPA or DHS, whichever is more stringent.
* Proposed EPA MCL for Nickel, effective 1/94.
-- Not detected.
NA Not analyzed.
1 Background Concentration–Values were obtained from: Johnson. K.L., 1985. Chemical Quality of Groundwater in Sacramento and Western Placer Counties, California. U.S. Geological Survey Water Resources Investigation Report, 85–4164.

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B 1	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL_4 0.5	TPH NE	TPH/Gas NE
MW-01	03/03/88	--	--	--	--	--	--	--	--	--	0.8	--	--	--	--	--
	09/20/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/10/90	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	09/05/90	--	--	--	--	--	--	--	--	--	1.0	--	--	--	--	--
	01/21/91	--	--	--	--	--	--	--	--	--	0.80	--	--	--	N/A	N/A
	01/29/92	--	--	--	--	--	--	--	--	--	1.7	--	--	--	N/A	N/A
	07/09/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/17/94	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
MW-02	03/03/88	--	--	--	--	--	--	--	--	--	0.6	--	--	--	280	--
	09/20/89	--	1.4	--	--	--	--	--	--	--	--	--	--	--	--	50*
	05/17/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/11/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/22/91	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	04/22/91	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	08/01/91	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	11/07/91+	8.4	1.2	8.3	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	02/07/92	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	05/26/92	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	08/25/92	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	10/20/92	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	01/19/93	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	04/07/93	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	07/01/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/21/93	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	N/A	N/A
	01/05/94	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	04/12/94	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	N/A	N/A
MW-03	03/03/88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/20/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/10/90	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	09/05/90	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	01/22/91	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	08/01/91	--	--	--	--	--	--	--	--	N/A	--	--	--	--	N/A	N/A
	01/29/92	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	07/09/93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/17/94	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B 1	T 1000	X 1,750	E 680	1,1,1–TCA 200	1,1,2–TCA 32	1,1–DCA 5	1,1–DCE 6	1,2–DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL_4 0.5	TPH NE	TPH/Gas NE
MW–04	03/03/88	11	4.5	6	1.5	22	--	12	130	42	--	--	--	--	1100	300
	09/20/89	210	--	--	--	--	--	7.1	--	120	--	--	--	--	--	3000
	02/15/90	190	3.5	7.5	2.1	5.3	--	12	250	46	--	--	5.7	--	N/A	N/A
	05/23/90	130	4.9	2.1	6.3	4.1	--	5.8	5.5	45	--	--	4.9	--	--	650
	09/18/90	98	4.1	2.7	4.3	2.4	--	6	30	38	--	--	4.5	--	--	--
	02/05/91	17	--	--	--	1.2	--	6	45	16	--	--	4.2	--	N/A	N/A
	05/01/91	580	--	24	12	--	--	11	15	93	--	--	0.89	--	N/A	N/A
	08/14/91	--	0.6	13	2.5	--	--	13	27	--	--	--	1.4	--	N/A	N/A
	11/07/91	1200	26	8.7	26	--	--	19	40	--	--	--	--	--	N/A	N/A
	01/28/92	940	12	3.4	18	0.6	--	12	16	170	--	--	1.4	--	N/A	N/A
	05/29/92	210	7.5	9.3	6.7	2.4	--	15	110	20	--	--	7.8	--	N/A	N/A
	08/26/92	230	2.4	1.7	4.1	1.3	--	14	120	13	--	1.3	8.6	--	N/A	N/A
	10/20/92	260	--	--	--	--	--	--	32	--	--	--	--	--	N/A	N/A
	01/20/93	180	5.6	4.2	8.9	--	--	7.5	73	12	--	--	5.0	--	N/A	N/A
	04/17/93	350	35	93	18	1.3	--	8.8	37	20	--	--	6.1	--	N/A	2,300
	04/18/93	200	19	46	10	1.4	--	5.8	44	14	--	0.82	4.8	--	N/A	980
	04/23/93	160	16	32	8.4	1.4	--	5.0	39	9.2	--	--	3.8	--	N/A	--
	04/30/93	200	22	37	7.6	1.5	--	5.0	62	--	--	--	4.5	--	N/A	N/A
	05/06/93	200	30	30	9.7	1.4	--	4.8	42	10	--	--	3.9	--	N/A	1,100
	05/14/93	220	26	45	7.3	--	--	5.7	46	9.2	--	--	4.6	--	N/A	1,200
	06/17/93	270	40	50	9.7	1.4	--	5.2	66	7.9	--	--	3.2	--	N/A	1,400
	07/12/93	210	23	28	7.1	1.2	--	4.5	55	6.0	--	--	--	--	N/A	910
	08/03/93	170	27	31	9.2	1.3	--	4.5	64	5.7	--	--	2.9	--	N/A	N/A
	09/10/93	110	7.5	--	--	1.3	--	4.5	53	3.5	--	0.82	3.0	--	N/A	630
	09/24/93	93	8.7	--	--	--	--	--	42	--	--	--	--	--	N/A	N/A
	10/07/93	150	19	--	--	1.8	--	5.8	69	5.4	--	1.1	4.3	--	N/A	520
	11/08/93	110	15	21	5.1	1.6	--	5.0	65	4.4	--	1.2	3.7	--	N/A	750
	01/14/94	110	14	19	4.4	1.3	--	4.6	52	3.4	--	1.1	2.9	--	510	N/A
	04/07/94	120	14	19	3.7	1.5	--	3.6	53	2.7	--	1.3	2.7	--	N/A	660

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B 1	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL_4 0.5	TPH NE	TPH/Gas NE
MW-05	03/04/88	--	--	--	--	--	--	--	--	--	4.9	--	--	--	--	--
	09/20/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	60
	05/17/90	--	--	--	--	--	--	--	--	--	2.6	--	--	--	--	--
	09/12/90	--	--	--	--	--	--	--	--	--	2.3	--	--	--	--	--
	08/12/91	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	01/28/92	--	--	--	--	--	--	--	--	--	1.2	--	--	--	N/A	N/A
	01/22/93	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	01/17/94	--	--	--	--	--	--	--	--	--	2.1	--	--	--	N/A	N/A
MW-06	03/04/88	--	--	--	--	--	--	--	--	--	0.6	--	--	--	--	--
	09/20/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/17/90	--	--	--	--	--	--	--	--	--	1.5	--	--	--	N/A	N/A
	09/11/90	--	--	--	--	--	--	--	--	--	2.0	--	--	--	--	--
	08/12/91	--	--	--	--	--	--	--	--	--	6.2	--	--	--	N/A	N/A
	01/28/92	--	--	--	--	--	--	--	--	--	2.1	--	--	--	N/A	N/A
	08/28/92	--	--	--	--	--	--	--	--	--	0.85	--	--	--	N/A	N/A
	01/22/93	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	07/09/93	--	--	--	--	--	--	--	--	--	1.6	--	--	--	--	--
	01/17/94	--	--	--	--	--	--	--	--	--	1.8	--	--	--	N/A	N/A
MW-07	03/04/88	--	--	--	--	25	--	15	17	1.6	1.9	--	1.0	--	--	--
	09/15/89	--	--	--	--	26	--	15	0.5	3.1	1.1	--	1.1	--	--	50
	02/07/90	--	--	--	--	11	--	9.9	58	--	2.6	--	0.6	--	N/A	N/A
	05/17/90	--	--	--	--	9.7	--	9.2	8.1	--	3	--	--	--	--	--
	09/07/90	--	--	--	--	6.4	--	6.1	19	--	2.5	--	--	--	--	--
	01/30/91	N/A	N/A	N/A	N/A	5.1	--	4.3	15	--	2.6	--	--	--	N/A	N/A
	04/26/91	N/A	N/A	N/A	N/A	4.6	--	4.5	11	--	3.0	--	--	--	N/A	N/A
	08/07/91	--	--	--	--	8.1	--	12	28	--	4.1	--	--	--	N/A	N/A
	02/07/92	--	--	--	--	7.2	--	12	32	--	4.9	--	--	--	N/A	N/A
	06/02/92	--	--	--	--	4.2	--	6.8	21	--	4.1	--	--	--	N/A	N/A
	08/31/92	--	--	--	--	5.2	--	8.5	39	--	4.5	--	--	--	N/A	N/A
	10/23/92	--	--	--	--	3.7	--	5.9	21	--	4.7	--	--	--	N/A	N/A
	01/29/93	--	--	--	--	1.4	--	3.6	9.6	--	1.8	--	--	--	N/A	N/A
	04/14/93	N/A	N/A	N/A	N/A	1.9	--	3.7	9.8	--	4.0	--	--	--	N/A	N/A
	07/07/93	--	--	--	--	0.93	--	2.9	11	--	3.3	--	--	--	N/A	NA
	09/24/93	N/A	N/A	N/A	N/A	--	--	--	3.4	--	2.1	--	--	--	N/A	N/A
	01/10/94	--	--	--	--	--	--	1.3	6.2	--	2.2	--	--	--	N/A	N/A
	04/14/94	N/A	N/A	N/A	N/A	--	--	0.59	3.7	--	2.4	--	--	--	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B 1	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL_4 0.5	TPH NE	TPH/Gas NE
MW-08	03/03/88	--	--	--	--	--	--	0.9	--	--	--	0.8	--	--	--	--
	09/20/89	--	2.5	--	--	--	--	--	--	--	--	1.5	--	--	--	--
	05/23/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/13/90	--	--	--	--	0.6	--	--	3.8	--	--	--	--	--	--	--
	01/30/91	N/A	N/A	N/A	N/A	--	--	--	1.8	--	--	--	--	--	N/A	N/A
	04/26/91	N/A	N/A	N/A	N/A	--	--	--	1.8	--	--	3.2	--	--	N/A	N/A
	08/12/91	--	--	--	--	--	--	--	9.6	--	--	21.0	--	--	N/A	N/A
	11/11/91	N/A	N/A	N/A	N/A	0.7	--	--	2.5	--	--	5.3	--	--	N/A	N/A
	01/28/92	--	--	--	--	--	--	--	1.8	--	--	8.8	--	--	N/A	N/A
	08/28/92	--	--	--	--	--	--	--	0.71	--	--	--	7.1	--	N/A	N/A
	01/27/93	--	--	--	--	--	--	--	0.61	--	--	3.7	--	--	N/A	N/A
	07/08/93	N/A	N/A	N/A	N/A	--	--	--	--	--	--	4.8	--	--	N/A	--
	01/17/94	--	--	--	--	--	--	--	--	--	0.60	2.8	--	--	N/A	N/A
MW-11	09/06/89	--	6.0	--	--	--	--	0.8	--	--	5.1	--	1.7	--	600	120
	02/15/90	--	--	--	--	--	--	--	8.3	--	0.6	--	0.5	--	N/A	N/A
	05/18/90	--	--	--	--	--	--	3.2	--	--	--	0.7	4.2	--	--	--
	09/17/90	--	--	--	--	1.7	--	6.2	18	--	--	--	2.4	--	--	--
	01/30/91	N/A	N/A	N/A	N/A	2.8	--	16	46	--	--	--	2.5	--	N/A	N/A
	04/26/91	N/A	N/A	N/A	N/A	4.5	--	19	62	--	--	--	3.5	--	N/A	N/A
	08/15/91	--	--	--	--	1.8	--	11	--	--	--	--	2.0	--	N/A	N/A
	11/07/91	N/A	N/A	N/A	N/A	1.0	--	7.2	9.9	0.6	--	--	1.1	--	N/A	N/A
	01/27/92	--	--	--	--	1.5	--	11	110	--	--	0.7	3.0	--	N/A	N/A
	06/02/92	--	--	--	--	1.5	0.5	7.6	54	--	--	--	3.8	--	N/A	N/A
	08/26/92	--	--	--	--	0.72	--	8.0	57	--	--	1.3	4.3	--	N/A	N/A
	10/20/92	--	--	--	--	0.51	--	4.7	37	--	--	0.68	2.6	--	N/A	N/A
	01/14/93	--	--	--	--	--	--	2.5	54	--	--	--	2.2	--	N/A	N/A
	04/09/93	N/A	N/A	N/A	N/A	0.95	--	2.9	27	--	--	--	2.8	--	N/A	N/A
	07/02/93	--	--	--	--	0.71	--	3.5	45	--	--	0.65	2.9	--	NA	NA
	09/24/93	N/A	N/A	N/A	N/A	--	--	1.7	20	--	--	0.54	1.3	--	N/A	N/A
	01/05/94	--	--	--	--	--	--	1.7	15	--	--	--	1.7	--	N/A	N/A
	04/13/94	N/A	N/A	N/A	N/A	--	--	2.4	18	--	--	--	1.5	--	N/A	N/A

TABLE 3
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ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B	T	X	E	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,1-DCE	1,2-DCA	Chloroform	PCE	TCE	CCL_4	TPH	TPH/Gas
		1	1000	1,750	680	200	32	5	6	0.5	100	5	5	0.5	NE	NE
MW-12	09/11/89	--	2.2	--	--	--	--	1.3	--	--	6.4	--	4	--	--	70
	10/13/89	0.8	--	--	--	--	--	4.9	26.3	--	4.5	--	5.7	--	N/A	N/A
	02/15/90	--	--	--	--	--	--	9.6	62	--	1.4	--	9	--	N/A	N/A
	05/22/90	--	--	--	--	--	--	9.2	1.4	--	0.6	--	9	--	--	--
	09/18/90	--	--	--	--	0.88	--	10	24	--	--	--	12	--	--	--
	02/04/91	--	--	--	--	--	--	15	47	--	--	--	14	--	N/A	N/A
	05/01/91	N/A	N/A	N/A	N/A	--	--	12	52	--	--	--	15	--	N/A	N/A
	08/15/91	--	0.6	--	--	0.7	--	13	27	--	--	--	15	--	N/A	N/A
	11/07/91	--	--	--	--	1.4	--	15	28	--	--	--	13	--	N/A	N/A
	01/28/92	0.6	--	--	--	0.8	--	23	120	--	--	0.6	19	--	N/A	N/A
	06/01/92	--	--	--	--	0.8	--	19	61	--	--	--	11	--	N/A	N/A
	08/26/92	--	--	--	--	0.64	--	31	94	--	--	0.93	16	--	N/A	N/A
	10/26/92	--	--	--	--	--	--	26	97	--	--	--	14	--	N/A	N/A
	01/20/93	--	--	--	--	0.60	--	21	78	--	--	--	9.1	--	N/A	N/A
	04/13/93++	700	52	88	47	--	--	23	52	19	--	--	13	--	N/A	N/A
	07/02/93	--	--	--	--	--	--	12.0	30.0	--	--	--	4.7	--	NA	NA
	09/22/93	--	--	--	--	--	--	11	42	--	--	--	2.5	--	N/A	N/A
	01/07/94	--	--	--	--	--	--	12	45	--	--	--	--	--	N/A	N/A
	04/13/94	--	--	--	--	--	--	16	42	--	--	--	2.1	--	N/A	N/A
MW-13	09/13/89	5,700	343	147	--	--	0.8	13.2	--	360	--	--	0.6	--	3100	51000
	11/02/89	6,700	210	88	50	--	--	20	24	270	--	--	--	--	N/A	N/A
	02/15/90	10,500	400	1600	150	--	--	40	55	200	--	--	--	--	N/A	N/A
	05/25/90	12,000	250	530	1200	--	--	35	1.8	250	--	--	--	--	2400	46000
	09/18/90	7,300	310	620	410	--	--	27	15	210	--	--	--	--	--	12000
	02/05/91	10,000	390	600	--	0.6	--	36	25	96	--	--	--	--	N/A	N/A
	04/30/91	7,900	260	520	340	0.5	--	17	14	120	--	--	--	--	N/A	N/A
	08/07/91	11,000	440	760	450	1.1	--	24	9.6	108	--	--	1.5	--	N/A	N/A
	11/07/91	41,000	1,600	3,900	180	--	--	160	210	--	--	--	--	--	N/A	N/A
	02/07/92	11,000	630	1,300	780	--	--	34	31	--	--	5.6	--	--	N/A	N/A
	06/04/92	9900	380	500	570	--	--	35	18	160	--	--	--	--	N/A	N/A
	08/26/92	13,000	340	780	520	--	--	39	13	180	--	--	0.8	--	N/A	N/A
	10/27/92	9,600	330	740	500	--	--	34	13	170	--	--	0.91	--	N/A	N/A
	01/20/93	7,300	290	520	340	--	--	46	8.8	150	--	--	--	--	N/A	N/A
	04/13/93	7,500	340	600	330	--	--	30	8.7	130	--	--	0.68	--	N/A	N/A
	07/02/93	4,900	230	360	290	--	--	26	66	89	--	--	--	--	NA	NA
	09/22/93	3,800	66	110	190	--	--	21	27	81	--	--	6.5	--	N/A	N/A
	01/07/94	4,200	180	280	250	--	--	29	100	73	--	--	16	--	N/A	N/A
	04/13/94	2,200	67	79	130	--	--	40	140	61	--	--	22	--	N/A	N/A

SAC21A3.WK1

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B 1	T 1000	X 1,750	E 680	1,1,1–TCA 200	1,1,2–TCA 32	1,1–DCA 5	1,1–DCE 6	1,2–DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL_4 0.5	TPH NE	TPH/Gas NE
MW–14	09/13/89	--	12.3	--	--	22	7.1	9.4	15.1	3.7	2.5	--	5.6	--	--	100
	11/02/89	--	--	--	--	20	6.3	9.3	75	7.7	2.5	--	4.7	--	N/A	N/A
	02/15/90	3.6	--	0.6	--	8.9	1.1	9.6	380	1.0	--	--	8.0	--	N/A	N/A
	05/22/90	2.2	--	--	--	4.1	--	5.8	11	1.4	--	--	5.9	--	--	--
	09/18/90	--	--	--	--	2.3	--	5.0	47	--	--	--	5.7	--	--	--
	02/04/91	--	--	--	--	1.3	--	4.4	47	--	--	--	6.2	--	N/A	N/A
	05/01/91	--	--	--	--	0.88	--	3.1	18	--	--	--	4.9	--	N/A	N/A
	08/14/91	0.7	--	--	--	1.6	--	4.8	50	--	--	0.6	9.7	--	N/A	N/A
	11/22/91	--	--	--	--	1.9	--	6.3	150	1.5	--	--	5.6	--	N/A	N/A
	02/07/92	--	--	--	--	3.1	--	12	100	--	0.5	0.6	9.4	--	N/A	N/A
	06/01/92	15	--	--	--	5.1	0.7	28	120	3.7	0.8	---	10	--	N/A	N/A
	08/27/92	--	--	--	--	3.3	--	43	142	--	--	--	12	--	N/A	N/A
	10/26/92	--	--	--	--	--	--	36	200	--	--	--	13	--	N/A	N/A
	01/20/93	--	--	--	--	1.7	--	20	140	--	--	0.8	7	--	N/A	N/A
	04/13/93	1.5	--	--	--	1.8	0.59	12	99	--	--	0.65	7.9	--	N/A	N/A
	07/02/93	8.7	--	--	--	--	--	2.1	36.0	--	--	--	0.85	--	N/A	N/A
	09/22/93	0.79	--	--	--	1.0	0.61	7.7	80	0.50	--	1.1	6.0	--	N/A	N/A
	01/07/94	--	--	--	--	--	--	--	42	--	--	--	--	--	N/A	N/A
	04/13/94	0.63	--	--	--	0.58	--	4.9	44	--	--	--	7.8	--	N/A	N/A
MW–15	09/07/89	--	--	--	--	--	--	--	--	--	--	2.2	--	--	--	--
	02/07/90	--	--	--	--	0.5	--	--	5.8	--	--	2.8	--	--	N/A	N/A
	05/16/90	--	--	--	--	--	--	--	--	--	--	3.5	--	--	N/A	N/A
	09/14/90	--	--	--	--	1.1	--	--	0.58	--	--	6.2	--	--	--	--
	01/24/91	N/A	N/A	N/A	N/A	0.7	--	--	1.2	--	--	--	6.8	--	N/A	N/A
	04/25/91	N/A	N/A	N/A	N/A	0.53	--	--	0.82	--	--	--	6.7	--	N/A	N/A
	08/05/91	--	--	--	--	--	--	--	--	--	--	7.8	--	--	N/A	N/A
	11/05/91	N/A	N/A	N/A	N/A	1.3	--	--	2.1	--	--	12	--	--	N/A	N/A
	01/30/92	--	--	--	--	--	--	--	1.6	--	--	10	--	--	N/A	N/A
	08/27/92	--	--	--	--	--	--	--	--	--	--	10	--	--	N/A	N/A
	01/25/93	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	07/09/93	--	--	--	--	--	--	--	--	--	--	5.8	--	--	N/A	N/A
	01/17/94	--	--	--	--	--	--	--	--	--	--	3.4	--	--	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B 1	T 1000	X 1,750	E 680	1,1,1–TCA 200	1,1,2–TCA 32	1,1–DCA 5	1,1–DCE 6	1,2–DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL_4 0.5	TPH NE	TPH/Gas NE
MW–16	09/07/89	--	3.9	--	--	0.8	--	0.7	--	--	0.5	--	--	--	--	--
	02/07/90	--	--	--	--	2	--	1.8	29	--	--	--	--	--	N/A	N/A
	05/16/90	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	09/14/90	--	--	--	--	1.3	--	--	2.3	--	--	--	--	--	--	--
	01/24/91	N/A	N/A	N/A	N/A	--	--	--	2.6	--	--	--	--	--	N/A	N/A
	04/25/91	N/A	N/A	N/A	N/A	0.83	--	--	2.8	--	--	--	--	--	N/A	N/A
	08/13/91	--	--	--	--	1.5	--	--	8.3	--	--	--	--	--	N/A	N/A
	11/07/91	N/A	N/A	N/A	N/A	1.6	--	--	5.7	--	--	--	--	--	N/A	N/A
	01/30/92	--	--	--	--	0.6	--	--	9.0	--	--	--	--	--	N/A	N/A
	06/04/92	--	--	--	--	1.9	--	--	2.7	--	--	--	--	--	N/A	N/A
	08/27/92	--	--	--	--	--	--	--	3.9	--	--	--	--	--	N/A	N/A
	10/23/92	--	--	--	--	0.81	--	--	3.2	--	--	--	--	--	N/A	N/A
	01/21/93	--	--	--	--	--	--	--	2.6	--	--	--	--	--	N/A	N/A
	04/12/93	N/A	N/A	N/A	N/A	0.64	--	--	--	--	--	--	--	--	N/A	N/A
	06/29/93	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	N/A	N/A
	09/23/93	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	N/A	N/A
	01/06/94	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	04/14/94	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	N/A	N/A
MW–17	09/21/89	--	1.3	--	--	1.1	--	0.5	--	--	2.6	--	0.7	--	--	--
	02/07/90	--	--	--	--	0.8	--	0.6	36	--	--	--	0.5	--	N/A	N/A
	05/18/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/13/90	--	--	--	--	--	--	--	4.0	--	--	--	--	--	--	--
	01/25/91	--	--	--	--	--	--	--	3.0	--	--	--	--	--	N/A	N/A
	04/29/91	--	--	--	--	--	--	--	3.8	--	--	--	--	--	N/A	N/A
	08/06/91	--	--	--	--	--	--	--	3.7	--	--	--	--	--	N/A	N/A
	11/05/91	N/A	N/A	N/A	N/A	0.6	--	--	2.8	--	--	--	--	--	N/A	N/A
	01/30/92	--	--	--	--	--	--	--	1.2	--	--	--	--	--	N/A	N/A
	08/27/92	--	--	--	--	--	--	--	0.8	--	--	--	--	--	N/A	N/A
	01/25/93	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	07/09/93	--	--	--	--	--	--	--	1.0	--	--	--	--	--	N/A	N/A
	01/17/94	--	--	--	--	--	--	--	0.61	--	--	1.10	--	--	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B	T	X	E	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,1-DCE	1,2-DCA	Chloroform	PCE	TCE	CCL_4	TPH	TPH/Gas
		1	1000	1,750	680	200	32	5	6	0.5	100	5	5	0.5	NE	NE
MW-18	09/21/89	--	1.3	--	--	1.9	0.8	3.4	0.5	--	1.5	--	9.4	--	--	50
	11/02/89	--	--	--	--	6.9	1.0	7.8	92	--	0.5	--	13	--	N/A	N/A
	02/07/90	--	--	--	--	4	--	4.8	230	--	--	--	8.1	--	N/A	N/A
	05/18/90	--	--	--	--	2.4	--	2.8	3.2	--	--	1.0	10	--	--	--
	09/13/90	--	--	--	--	3.3	--	3.9	19	--	--	--	4.4	--	--	--
	01/25/91	--	--	--	--	0.90	--	1.4	22	--	--	--	2.9	--	N/A	N/A
	04/29/91	--	--	--	--	0.94	--	1.1	20	--	--	--	2.3	--	N/A	N/A
	08/13/91	--	--	--	--	1.5	--	1.2	18	--	--	--	3.8	--	N/A	N/A
	11/05/91	N/A	N/A	N/A	N/A	2.2	3.8	2.0	18	--	--	--	--	--	N/A	N/A
	01/30/92	--	--	--	--	1.0	--	0.8	25	--	--	--	2.8	--	N/A	N/A
	06/01/92	--	--	--	--	1.4	--	0.6	13	--	--	--	2.2	--	N/A	N/A
	08/27/92	--	--	--	--	0.94	--	--	16	--	--	--	3.2	--	N/A	N/A
	10/26/92	--	--	--	--	2.6	--	--	--	--	--	--	3.0	--	N/A	N/A
	01/21/93	--	--	--	--	0.77	--	--	14	--	--	--	1.6	--	N/A	N/A
	04/14/93	N/A	N/A	N/A	N/A	1.3	--	--	12	--	--	--	1.5	--	N/A	N/A
	06/30/93	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	N/A	N/A
	09/24/93	N/A	N/A	N/A	N/A	--	--	--	5.4	--	--	--	--	--	N/A	N/A
	01/06/94	--	--	--	--	--	--	--	5.2	--	--	--	0.68	--	N/A	N/A
	04/14/94	N/A	N/A	N/A	N/A	--	--	--	3.7	--	--	--	0.52	--	N/A	N/A
MW-19	09/14/89	--	--	--	--	--	--	--	--	--	0.9	1	--	--	--	--
	05/18/90	--	--	--	--	--	--	--	--	--	--	1.4	--	--	N/A	N/A
	09/07/90	--	--	--	--	--	--	--	6.8	--	--	1.5	--	--	--	--
	01/24/91	N/A	N/A	N/A	N/A	--	--	--	5.9	--	--	--	1.7	--	N/A	N/A
	04/29/91	N/A	N/A	N/A	N/A	--	--	--	4.2	--	--	--	1.9	--	N/A	N/A
	08/05/91	--	--	--	--	--	--	--	2.4	--	--	3.2	--	--	N/A	N/A
	11/11/91	N/A	N/A	N/A	N/A	--	--	--	3.7	--	--	2.8	--	--	N/A	N/A
	01/30/92	--	--	--	--	--	--	--	2.9	--	--	3.6	--	--	N/A	N/A
	08/28/92	--	--	--	--	--	--	--	1.5	--	--	2.0	--	--	N/A	N/A
	01/25/93	--	--	--	--	--	--	--	8.9	--	--	1.5	--	--	N/A	N/A
	07/09/93	--	--	--	--	--	--	--	5.9	--	--	0.8	--	--	N/A	N/A
	01/16/94	--	--	--	--	--	--	--	7.1	--	--	--	--	--	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B 1	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL_4 0.5	TPH NE	TPH/Gas NE
MW-20	09/14/89	--	--	--	--	0.7	--	--	--	--	--	--	--	--	--	--
	05/14/90	--	--	--	--	1.4	--	0.9	--	--	--	--	--	--	N/A	N/A
	09/07/90	--	--	--	--	0.92	--	--	9.6	--	--	--	--	--	--	--
	01/24/91	N/A	N/A	N/A	N/A	--	--	--	9.8	--	--	--	--	--	N/A	N/A
	04/29/91	N/A	N/A	N/A	N/A	--	--	--	8.9	--	--	--	--	--	N/A	N/A
	08/14/91	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	11/11/91	N/A	N/A	N/A	N/A	0.7	--	--	11	--	--	--	--	--	N/A	N/A
	01/30/92	--	--	--	--	0.6	--	--	11	--	--	--	--	--	N/A	N/A
	06/02/92	--	--	--	--	0.8	--	--	7.2	--	--	--	--	--	N/A	N/A
	08/28/92	--	--	--	--	--	--	--	8.3	--	--	--	--	--	N/A	N/A
	10/23/92	--	--	--	--	--	--	--	7.3	--	--	--	--	--	N/A	N/A
	01/25/93	--	--	--	--	--	--	--	4.0	--	--	--	--	--	N/A	N/A
	04/13/93	N/A	N/A	N/A	N/A	--	--	--	3.5	--	--	--	--	--	N/A	N/A
	06/29/93	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	N/A	N/A
	09/24/93	N/A	N/A	N/A	N/A	--	--	--	0.51	--	--	--	--	--	N/A	N/A
	01/06/94	--	--	--	--	--	--	--	0.66	--	--	--	--	--	N/A	N/A
	04/14/94	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	N/A	N/A
MW-21	09/08/89	--	--	--	--	--	--	--	--	--	1.6	--	--	--	--	--
	05/15/90	--	--	--	--	--	--	0.6	--	--	4.2	--	--	--	N/A	N/A
	09/07/90	--	--	--	--	--	--	--	2.1	--	1.9	--	--	--	--	--
	01/23/91	N/A	N/A	N/A	N/A	--	--	--	0.8	--	2.4	--	--	--	N/A	N/A
	04/25/91	N/A	N/A	N/A	N/A	--	--	--	4.7	--	2.5	--	--	--	N/A	N/A
	08/07/91	--	--	--	--	--	--	--	0.9	--	5.1	--	--	--	N/A	N/A
	11/11/91	N/A	N/A	N/A	N/A	--	--	--	--	--	4.8	--	--	--	N/A	N/A
	01/30/92	--	--	--	--	--	--	--	2.7	--	5.1	--	--	--	N/A	N/A
	08/28/92	--	--	--	--	--	--	--	0.6	--	4.0	--	--	--	N/A	N/A
	01/29/93	--	--	--	--	--	--	--	1.3	--	2.0	--	--	--	N/A	N/A
	07/08/93	N/A	N/A	N/A	N/A	--	--	--	--	--	2.4	--	--	--	N/A	N/A
	01/16/94	--	--	--	--	--	--	1.0	6.1	--	1.4	--	--	--	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B 1	T 1000	X 1,750	E 680	1,1,1–TCA 200	1,1,2–TCA 32	1,1–DCA 5	1,1–DCE 6	1,2–DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL_4 0.5	TPH NE	TPH/Gas NE
MW–22	09/08/89	--	--	--	--	--	--	--	--	--	3.0	--	--	--	--	--
	02/07/90	--	--	--	--	--	--	--	--	--	0.9	--	--	--	N/A	N/A
	05/15/90	--	--	--	--	--	--	--	--	--	5.0	--	--	--	N/A	N/A
	09/07/90	--	--	--	--	--	--	--	--	--	2.6	--	--	--	--	--
	01/23/91	N/A	N/A	N/A	N/A	--	--	--	--	--	5.2	--	--	--	N/A	N/A
	04/25/91	N/A	N/A	N/A	N/A	--	--	--	--	--	4.8	--	--	--	N/A	N/A
	08/14/91	--	--	--	--	--	--	--	--	--	3.9	--	--	--	N/A	N/A
	01/30/92	--	--	--	--	--	--	--	--	--	5.8	--	--	--	N/A	N/A
	01/29/93	--	--	--	--	--	--	--	--	--	1.5	--	--	--	N/A	N/A
	01/16/94	--	--	--	--	--	--	--	--	--	2.0	--	--	--	N/A	N/A
MW–23	09/08/89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/15/90	--	--	--	--	--	--	1.3	--	--	10	--	--	--	N/A	N/A
	09/06/90	--	--	--	--	--	--	0.88	0.5	--	4.2	--	--	--	--	--
	04/23/91	N/A	N/A	N/A	N/A	--	--	--	0.67	--	3.0	--	--	--	N/A	N/A
	08/02/91	--	--	--	--	--	--	--	--	--	3.1	--	--	--	N/A	N/A
	11/11/91	N/A	N/A	N/A	N/A	--	--	--	--	--	4.6	0.7	--	--	N/A	N/A
	01/24/92	--	--	--	--	--	--	--	--	--	2.8	--	--	--	N/A	N/A
	08/28/92	--	--	--	--	--	--	1.2	--	--	4.5	--	--	--	N/A	N/A
	01/22/93	--	--	--	--	--	--	--	--	--	2.2	--	--	--	N/A	N/A
	07/08/93	N/A	N/A	N/A	N/A	--	--	--	--	--	2.0	--	--	--	N/A	--
	01/16/94	--	--	--	--	--	--	0.54	--	--	2.0	--	--	--	N/A	N/A
MW–24	09/08/89	--	--	--	--	--	--	--	--	--	2.8	--	--	--	--	--
	05/15/90	--	--	--	--	--	--	--	--	--	11	--	--	--	N/A	N/A
	09/06/90	--	--	--	--	--	--	--	--	--	4.1	--	--	--	--	--
	09/06/90	--	--	--	--	--	--	--	--	--	4.1	--	--	--	--	--
	08/11/91	--	--	--	--	--	--	--	--	--	3.2	--	--	--	N/A	N/A
	01/24/92	--	--	--	--	--	--	--	--	--	2.5	--	--	--	N/A	N/A
	01/22/93	--	--	--	--	--	--	--	--	--	1.7	--	--	--	N/A	N/A
	01/16/94	--	--	--	--	--	--	--	--	--	0.9	--	--	--	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B 1	T 1000	X 1,750	E 680	1,1,1–TCA 200	1,1,2–TCA 32	1,1–DCA 5	1,1–DCE 6	1,2–DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL_4 0.5	TPH NE	TPH/Gas NE
MW–25	09/11/89	--	4.1	--	--	--	--	1.0	--	--	0.9	--	--	--	--	--
	02/07/90	--	--	--	--	--	--	1.3	7.6	--	1.1	--	--	--	N/A	N/A
	05/16/90	--	--	--	--	--	--	1.3	--	--	1.1	--	--	--	--	--
	09/12/90	--	--	--	--	--	--	1.5	3.1	--	1.3	--	--	--	--	--
	01/29/91	N/A	N/A	N/A	N/A	--	--	1.3	2.3	--	1.1	--	--	--	N/A	N/A
	04/24/91	N/A	N/A	N/A	N/A	--	--	2.1	2.5	--	1.4	--	--	--	N/A	N/A
	08/02/91	--	--	--	--	0.6	--	3.0	5.8	--	1.6	--	--	--	N/A	N/A
	01/23/92	--	--	--	--	2.1	--	6.9	8.7	--	2.2	--	--	--	N/A	N/A
	09/01/92	--	--	--	--	4.4	--	14	22	--	2.8	--	0.65	--	N/A	N/A
	01/27/93	--	--	--	--	2.2	--	10	6.3	0.77	1.6	--	--	--	N/A	N/A
	07/08/93	N/A	N/A	N/A	N/A	2.8	--	12	--	--	2.4	--	--	--	N/A	--
	01/16/94	--	--	--	--	1.3	--	5.9	6.3	--	1.5	--	--	--	N/A	N/A
MW–26	09/11/89	--	--	--	--	--	--	1.0	--	--	2.6	--	--	--	--	50
	02/07/90	--	--	--	--	--	--	3.2	14	--	1.3	--	--	--	N/A	N/A
	05/16/90	--	--	--	--	--	--	1.6	--	--	1.1	--	--	--	--	--
	09/12/90	--	--	--	--	--	--	2.1	5	--	1.6	--	--	--	--	--
	01/29/91	N/A	N/A	N/A	N/A	--	--	1.6	3.6	--	1.0	--	--	--	N/A	N/A
	04/24/91	N/A	N/A	N/A	N/A	--	--	2.4	3.4	--	1.4	--	--	--	N/A	N/A
	08/13/91	--	--	--	--	0.6	--	4.0	8.1	--	1.5	--	--	--	N/A	N/A
	01/27/92	--	1.4	--	--	1.1	--	4.8	5.1	--	2.0	--	--	--	N/A	N/A
	06/04/92	--	--	--	--	4.4	--	8.6	8.2	0.6	2.7	--	--	--	N/A	N/A
	09/01/92	--	--	--	--	3.7	--	12	19	--	3.6	--	--	--	N/A	N/A
	10/23/92	--	--	--	--	2.4	--	10	9.4	--	3.1	--	--	--	N/A	N/A
	01/28/93	--	--	--	--	3.2	--	13	15	0.9	2.5	--	--	--	N/A	N/A
	04/08/93	--	--	--	--	3.9	--	13	9.1	0.78	2.9	--	--	--	N/A	N/A
	07/07/93	--	--	--	--	3.3	--	14	14	--	2.3	--	--	--	N/A	N/A
	09/23/93	N/A	N/A	N/A	N/A	3.0	--	9.4	15	3.6	1.9	--	--	--	N/A	N/A
	01/10/94	--	--	--	--	2.6	--	11	15	0.7	2.0	--	--	--	N/A	N/A
	04/14/94	N/A	N/A	N/A	N/A	1.9	--	10	16	--	2.4	--	--	--	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B 1	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL_4 0.5	TPH NE	TPH/Gas NE
MW-27	09/15/89	--	--	--	--	--	--	--	--	--	5.5	--	--	--	--	--
	05/21/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/17/90	--	--	--	--	--	--	--	0.99	--	1.1	--	--	--	--	--
	01/29/91	N/A	N/A	N/A	N/A	--	--	--	--	--	0.7	--	--	--	N/A	N/A
	04/24/91	N/A	N/A	N/A	N/A	--	--	--	1.1	--	1.4	--	--	--	N/A	N/A
	08/13/91	--	--	--	--	--	--	--	--	--	0.9	--	--	--	N/A	N/A
	01/23/92	--	--	--	--	--	--	--	0.83	--	1.3	--	--	--	N/A	N/A
	09/01/92	--	--	--	--	--	--	--	--	--	3.0	--	--	--	N/A	N/A
	01/28/93	--	--	--	--	--	--	--	--	--	1.7	--	--	--	N/A	N/A
	07/08/93	N/A	N/A	N/A	N/A	--	--	--	--	--	3.1	--	--	--	N/A	--
	01/16/94	--	--	--	--	--	--	0.76	1.1	--	2.4	--	--	--	N/A	N/A
MW-28	02/15/90	--	--	--	--	--	--	5.8	1	--	0.7	--	--	--	N/A	--
	05/21/90	--	--	--	--	--	--	9.5	--	--	--	--	--	--	--	--
	09/19/90	--	--	--	--	--	--	9	4	--	--	--	--	--	--	--
	02/01/91	--	--	--	--	--	--	13	4.3	--	--	--	--	--	N/A	N/A
	04/30/91	--	--	--	--	--	--	8.1	3.9	--	--	--	--	--	N/A	N/A
	08/13/91	--	--	--	--	--	--	13	--	--	--	--	--	--	N/A	N/A
	11/05/91	--	--	--	--	--	--	14	9.4	--	--	--	--	--	N/A	N/A
	01/30/92	--	--	--	--	--	--	17	24	--	--	--	--	--	N/A	N/A
	05/28/92	--	--	--	--	--	--	9.5	6.0	--	--	--	--	--	N/A	N/A
	08/31/92	--	--	--	--	--	--	20	31	--	--	--	--	--	N/A	N/A
	10/22/92	--	--	--	--	--	--	18	21	--	--	--	--	--	N/A	N/A
	01/13/93	--	--	--	--	--	--	13	22	--	--	--	--	--	N/A	N/A
	04/12/93	--	--	--	--	--	--	12	11	--	--	--	--	--	N/A	N/A
	06/30/93	--	--	--	--	--	--	4.1	--	--	--	--	--	--	N/A	N/A
	09/28/93	--	--	--	--	--	--	8.6	8.7	--	--	--	--	--	N/A	N/A
	01/11/94	--	--	--	--	--	--	5.9	4.2	--	--	--	--	--	N/A	N/A
	04/25/94	--	--	--	--	--	--	10	17	--	--	--	--	--	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B 1	T 1000	X 1,750	E 680	1,1,1–TCA 200	1,1,2–TCA 32	1,1–DCA 5	1,1–DCE 6	1,2–DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL_4 0.5	TPH NE	TPH/Gas NE
MW–29	02/15/90	--	--	--	--	8.5	--	10	190	22	1.8	--	0.9	--	N/A	50
	04/23/90	--	--	--	--	5.0	--	14	72	16	1.2	--	0.87	--	N/A	N/A
	05/25/90	6.2	--	--	--	4.6	--	4.1	8.6	14	--	--	--	--	--	--
	09/06/90	--	--	--	--	3.2	--	4.4	38	11	1.3	--	0.76	1.3	--	--
	02/01/91	--	--	--	--	--	--	1.9	33	4.7	--	--	--	--	N/A	N/A
	04/30/91	--	--	--	--	--	--	2.4	16	6.6	0.57	--	--	0.68	N/A	N/A
	08/07/91	--	--	--	--	1.3	--	4.5	29	11	0.9	--	0.9	1.0	N/A	N/A
	11/05/91	--	--	--	--	1.4	--	3.7	21	7.1	1.0	--	0.8	1.1	N/A	N/A
	01/30/92	--	--	--	--	0.7	--	2.0	26	5.2	1.2	--	0.7	1.5	N/A	N/A
	05/29/92	--	--	--	--	1.1	--	4.3	19	--	0.8	--	1.2	--	N/A	N/A
	08/31/92	--	--	--	--	0.91	--	3.9	27	7.9	1.3	--	0.8	--	N/A	N/A
	10/22/92	--	--	--	--	0.87	--	2.3	18	6.1	0.56	--	--	--	N/A	N/A
	01/14/93	--	--	--	--	--	--	1.1	13	3.2	--	--	--	--		
	04/12/93	--	--	--	--	--	--	1.2	5.0	3.0	--	--	0.51	--	N/A	N/A
	06/30/93	--	--	--	--	--	--	--	--	2.3	--	--	--	--	N/A	N/A
	09/28/93	--	--	--	--	--	--	0.81	8.8	2.6	--	--	0.66	--	N/A	N/A
	01/11/94	--	--	--	--	--	--	0.73	7.9	2.3	--	--	0.68	--	N/A	N/A
	04/25/94	--	--	--	--	--	--	1.1	9.0	2.7	2.0	--	--	1.6	N/A	N/A
MW–30	02/15/90	--	--	--	--	4.5	2.3	18	820	--	1.5	--	4.8	--	N/A	60
	04/23/90	1.1	--	--	--	30.0	--	12	470	31	--	--	8.2	--	N/A	N/A
	05/24/90	2.4	--	--	--	22.0	3	19	48	4.8	1.1	--	6.8	--	--	60
	09/05/90	1.2	--	--	--	14.0	--	11	150	--	--	--	--	--	--	--
	02/04/91	--	--	--	--	6.3	--	8.2	160	--	--	--	--	--	N/A	N/A
	04/30/91	--	--	--	--	5.9	--	9.0	75	--	--	--	--	--	N/A	N/A
	08/15/91	--	--	--	--	4.4	--	6.8	84	--	--	--	6.4	--	N/A	N/A
	11/05/91	--	--	--	--	8.5	--	11	88	--	--	---	9.4	--	N/A	N/A
	01/31/92	--	--	--	--	1.8	--	7.0	140	--	--	0.8	8.0	--	N/A	N/A
	05/28/92	--	--	--	--	3.0	--	10	61	--	--	--	9.5	--	N/A	N/A
	08/31/92	--	--	--	--	6.9	--	14	130	--	--	--	10	--	N/A	N/A
	10/22/92	--	--	--	--	3.3	--	17	116	--	--	--	10	--	N/A	N/A
	01/14/93	--	--	--	--	1.3	--	6.2	93	--	--	--	6.3	--	N/A	N/A
	04/12/93	--	--	--	--	1.9	--	8.7	46	--	--	--	8.1	--	N/A	N/A
	07/06/93	--	--	--	--	1.3	--	8.6	78	--	--	--	7.2	--	N/A	N/A
	09/28/93	--	--	--	--	--	--	12	99	--	--	--	6.4	--	N/A	N/A
	01/10/94	--	--	--	--	--	--	7.7	99	--	--	--	6.5	--	N/A	N/A
	04/25/94	--	--	--	--	1.4	--	4.9	66	--	--	--	8.6	--	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B 1	T 1000	X 1,750	E 680	1,1,1–TCA 200	1,1,2–TCA 32	1,1–DCA 5	1,1–DCE 6	1,2–DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL_4 0.5	TPH NE	TPH/Gas NE
MW–31	05/24/90	1.1	--	--	--	39	2.7	22	54	0.6	1.7	--	10	--	--	60
	09/19/90	0.63	--	--	--	20	--	15	160	--	--	--	7.6	--	--	--
	02/01/91	--	--	--	--	--	--	7.6	150	--	--	--	--	--	N/A	N/A
	05/01/91	--	--	--	--	5.9	--	12	110	--	--	--	7.3	--	N/A	N/A
	08/15/91	--	--	--	--	6.2	--	10	120	--	--	--	6.6	--	N/A	N/A
	11/22/91	--	--	--	--	6.3	--	17	140	--	--	0.62	9.3	--	N/A	N/A
	01/31/91	--	--	--	--	4.3	0.6	16	310	--	0.6	1.1	12	--	N/A	N/A
	05/28/92	--	--	--	--	3.5	--	10	130	--	--	--	12	--	N/A	N/A
	08/31/92	--	--	--	--	5.5	--	9.6	170	--	--	--	10	--	N/A	N/A
	10/21/92	--	--	--	--	--	--	7.5	121	--	--	--	11	--	N/A	N/A
	01/21/93	--	--	--	--	2.1	--	8.5	82	--	--	--	12	--	N/A	N/A
	04/12/93	--	--	--	--	1.7	--	4.2	46	--	--	--	8.2	--	N/A	N/A
	07/07/93	--	--	--	--	1.7	--	5.3	43	--	--	0.71	14	--	N/A	N/A
	09/28/93	--	--	--	--	--	--	--	50	--	--	--	--	--	N/A	N/A
	01/11/94	--	--	--	--	--	--	--	54	--	--	--	7.8	--	N/A	N/A
	04/26/94	--	--	--	--	0.65	--	2.5	53	--	--	0.89	11	--	N/A	N/A

SAC21A3.WK1

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B	T	X	E	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,1-DCE	1,2-DCA	Chloroform	PCE	TCE	CCL_4	TPH	TPH/Gas
		1	1000	1,750	680	200	32	5	6	0.5	100	5	5	0.5	NE	NE
MW-32	05/24/90	--	--	--	--	20	0.9	21	45	--	0.9	0.6	13	--	--	60
	09/19/90	--	--	--	--	15	--	18	180	--	--	--	11	--	--	--
	02/01/91	--	--	--	--	--	--	6.1	130	--	--	--	5.0	--	N/A	N/A
	05/01/91	--	--	--	--	6.4	--	11	160	--	--	--	11	--	N/A	N/A
	08/16/91	--	--	--	--	5.2	--	7.5	140	--	--	--	8.8	--	N/A	N/A
	11/22/91	--	--	--	--	4.0	--	7.4	88	--	--	--	8.9	--	N/A	N/A
	01/29/92	--	--	--	--	3.3	--	8.7	240	--	--	0.9	16	--	N/A	N/A
	05/29/92	--	--	--	--	3.9	--	8.6	90	--	--	--	15	--	N/A	N/A
	09/04/92	--	--	--	--	--	--	7.1	155	--	--	--	11	--	N/A	N/A
	10/22/92	--	--	--	--	--	--	--	96	--	--	--	11	--	N/A	N/A
	01/26/93	--	--	--	--	1.2	--	4.5	58	--	--	--	8.9	--	N/A	N/A
	04/15/93	--	--	--	--	2	--	3.1	47	--	--	--	9.6	--	N/A	--
	04/18/93	--	--	--	--	1.4	--	2.8	37	--	--	0.5	6.5	--	N/A	--
	04/23/93	--	--	--	--	1.6	--	3.1	40	--	--	--	6.9	--	N/A	--
	04/30/93	--	--	--	--	1.3	--	3.2	45	--	--	--	6.7	--	N/A	N/A
	05/16/93	--	--	--	--	1.3	--	3.8	45	--	--	--	7.3	--	N/A	--
	05/14/93	--	--	--	--	--	--	3.6	44	--	--	--	6.9	--	N/A	--
	06/17/93	--	--	--	--	--	--	3.1	43	--	--	--	7.4	--	N/A	--
	07/12/93	--	--	--	--	0.72	--	2.6	46	--	--	--	5.9	--	N/A	--
	08/03/93	--	--	--	--	--	--	2.7	44	--	--	--	5.3	--	N/A	--
	09/10/93	--	--	--	--	0.90	--	2.8	38	--	--	--	5.1	--	N/A	--
	09/27/93	N/A	N/A	N/A	N/A	--	1.3	4.0	43	--	--	4.6	7.5	--	N/A	N/A
	10/07/93	--	--	--	--	1.3	--	4.2	52	0.60	--	--	7.2	--	N/A	--
	11/08/93	--	--	--	--	1.4	--	4.0	49	0.70	--	--	7.2	--	N/A	--
	01/14/94	--	--	--	--	--	--	--	44	--	--	--	--	--	--	N/A
	04/07/94	--	--	--	--	1.2	--	4.0	52	--	--	--	6.8	--	N/A	--

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B 1	T 1000	X 1,750	E 680	1,1,1-TCA 200	1,1,2-TCA 32	1,1-DCA 5	1,1-DCE 6	1,2-DCA 0.5	Chloroform 100	PCE 5	TCE 5	CCL_4 0.5	TPH NE	TPH/Gas NE
MW-33	05/18/90	--	--	--	--	17	--	8.1	38	--	--	--	1.4	--	--	--
	09/14/90	--	--	--	--	10	--	--	120	--	--	--	--	--	--	--
	01/30/91	--	--	--	--	3.4	--	2.0	31	--	--	--	--	--	N/A	N/A
	04/30/91	--	--	--	--	2.4	--	2.1	33	--	--	--	--	--	N/A	N/A
	08/07/91	--	--	--	--	6.7	--	5.4	85	--	--	--	1.0	--	N/A	N/A
	11/05/91	--	--	--	--	8.1	--	6.2	100	--	--	--	--	--	N/A	N/A
	01/24/92	--	--	--	--	3.0	--	2.7	97	--	--	--	--	--	N/A	N/A
	06/02/92	--	--	--	--	4.4	--	4.6	95	--	--	--	0.8	--	N/A	N/A
	08/26/92	--	--	--	--	3.4	--	7.0	170	--	--	--	1.6	--	N/A	N/A
	10/20/92	--	--	--	--	4.1	--	2.6	131	--	--	--	--	--	N/A	N/A
	01/14/93	--	--	--	--	--	--	--	6.1	--	--	--	--	--	N/A	N/A
	04/09/93	N/A	N/A	N/A	N/A	--	--	--	7.6	--	--	--	--	--	N/A	N/A
	07/02/93	--	--	--	--	2.1	--	3.3	110	--	--	--	--	--	N/A	N/A
	09/22/93	N/A	N/A	N/A	N/A	2.1	--	3.5	92	--	--	--	--	--	N/A	N/A
	01/06/94	--	--	--	--	1.5	--	2.5	75	--	--	--	0.58	--	N/A	N/A
	04/13/94	N/A	N/A	N/A	N/A	1.3	--	2.5	75	--	--	--	0.60	--	N/A	N/A
MW-34	07/02/91	--	--	--	--	17	1.3	17.0	470	--	1.2	--	15	--	N/A	N/A
	08/16/91	--	--	--	--	24	--	20.0	510	--	--	--	--	--	N/A	N/A
	12/12/91	0.9	--	--	--	18	1.1	28.0	318	1.7	2.3	1.4	26	--	N/A	N/A
	01/23/92	--	--	--	--	19	4.9	25.0	370	2.3	1.7	0.86	20	--	N/A	N/A
	06/03/92	--	--	--	--	11	1.2	21	270	0.6	1.2	--	24	--	N/A	N/A
	09/01/92	--	--	--	--	13	--	25	480	--	--	--	30	--	N/A	N/A
	10/26/92	--	--	--	--	--	--	--	380	--	--	--	31	--	N/A	N/A
	01/21/93	--	--	--	--	1.3	--	3.3	68	--	--	--	5.6	--	N/A	N/A
	04/09/93	N/A	N/A	N/A	N/A	3.9	--	9.2	94	--	--	--	15	--	N/A	N/A
	07/07/93	--	--	--	--	4.1	0.64	13	190	--	--	0.75	24	--	N/A	N/A
	09/28/93	N/A	N/A	N/A	N/A	2.7	--	9.4	130	--	--	0.53	18	--	N/A	N/A
	01/12/94	--	--	--	--	2.2 UJF	--	8.7	120	--	--	0.54	17UJF	--	N/A	N/A
	04/26/94	N/A	N/A	N/A	N/A	1.4	--	6.2	120	--	--	0.84	16	--	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B	T	X	E	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,1-DCE	1,2-DCA	Chloroform	PCE	TCE	CCL_4	TPH	TPH/Gas
		1	1000	1,750	680	200	32	5	6	0.5	100	5	5	0.5	NE	NE
MW-35	07/02/91	--	--	--	--	6.8	--	4.8	220	--	0.7	--	3.8	--	N/A	N/A
	08/08/91	--	--	--	--	40	--	41	880	--	--	--	19	--	N/A	N/A
	12/12/91	--	--	--	--	2.6	--	2.8	92	--	1.9	0.7	2.6	--	N/A	N/A
	01/23/92	--	--	--	--	5.4	--	5.8	140	--	1.0	--	3.9	--	N/A	N/A
	06/01/92	--	--	--	--	2.4	--	2.4	49	--	0.8	--	4.8	--	N/A	N/A
	09/01/92	--	--	--	--	5.8	--	--	135	--	--	--	--	--	N/A	N/A
	10/26/92	--	--	--	--	--	--	--	94	--	--	--	5.8	--	N/A	N/A
	01/21/93	--	--	--	--	1.3	--	2.8	58	--	--	--	3.7	--	N/A	N/A
	04/09/93	N/A	N/A	N/A	N/A	1.2	--	1.2	36	--	--	--	2.7	--	N/A	N/A
	07/07/93	--	--	--	--	1.2	--	1.5	45	--	--	--	4.7	--	N/A	N/A
	09/28/93	N/A	N/A	N/A	N/A	0.72	--	0.78	32	--	--	--	3.0	--	N/A	N/A
	01/12/94	--	--	--	--	0.66	--	0.52	27	--	--	--	3.1	--	N/A	N/A
	04/26/94	N/A	N/A	N/A	N/A	--	--	--	10	--	--	--	2.2	--	N/A	N/A
MW-36	12/12/91	--	--	--	--	15	--	12	290	1.6	3.4	0.7	8.8	1.4	N/A	N/A
	01/23/92	0.53	1.4	--	--	21	3.0	13	330	2.7	2.6	--	8.9	--	N/A	N/A
	06/01/92	--	--	--	--	12	--	9.6	180	0.7	2.0	--	8.3	--	N/A	N/A
	09/04/92	--	--	--	--	14	--	--	210	--	--	--	--	--	N/A	N/A
	10/21/92	--	--	--	--	--	--	--	110	--	--	--	--	--	N/A	N/A
	01/27/93	--	--	--	--	4.5	--	5.0	110	1.1	0.66	--	5.8	--	N/A	N/A
	04/13/93	N/A	N/A	N/A	N/A	4.4	--	4.2	75	--	0.92	--	5.6	--	N/A	N/A
	07/07/93	--	--	--	--	2.6	--	3.5	60	--	1.0	--	5.1	--	N/A	N/A
	09/28/93	N/A	N/A	N/A	N/A	--	--	--	53	--	--	--	--	--	N/A	N/A
	01/12/94	--	--	--	--	--	--	--	110	--	--	--	5.8	--	N/A	N/A
	04/26/94	N/A	N/A	N/A	N/A	1.2	--	2.0	76	--	--	--	4.5	--	N/A	N/A
MW-37	12/12/91	--	--	--	--	1.0	--	3.6	9.3	7.1	4.6	0.6	0.6	1.3	N/A	N/A
	01/23/92	--	--	--	--	--	--	4.4	8.5	9.7	3.1	--	--	1.8	N/A	N/A
	06/01/92	--	--	--	--	--	--	2.6	6.0	6.2	3.8	--	0.5	1.5	N/A	N/A
	09/04/92	--	--	--	--	0.95	--	3.6	16	7.4	4.2	--	--	1.4	N/A	N/A
	10/21/92	--	--	--	--	1.1	--	2.9	13	4.9	2.5	--	--	0.84	N/A	N/A
	01/27/93	--	--	--	--	--	--	2.7	9.2	5.5	2.3	--	--	0.61	N/A	N/A
	04/13/93	N/A	N/A	N/A	N/A	--	--	2.9	8.0	6.5	3.9	--	--	0.99	N/A	N/A
	07/07/93	--	--	--	--	--	--	2.8	7.9	5.8	3.1	--	--	0.78	N/A	N/A
	09/28/93	N/A	N/A	N/A	N/A	0.55	--	3.2	16	5.8	2.8	--	0.50	0.84	N/A	N/A
	01/12/94	--	--	--	--	--	--	3.7	20	6.2	2.4	--	0.57	0.61	N/A	N/A
	04/26/94	N/A	N/A	N/A	N/A	--	--	3.1	20	7.7	2.5	--	--	0.55	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B	T	X	E	1,1,1-TCA	1,1,2-TCA	1,1-DCA	1,1-DCE	1,2-DCA	Chloroform	PCE	TCE	CCL_4	TPH	TPH/Gas
		1	1000	1,750	680	200	32	5	6	0.5	100	5	5	0.5	NE	NE
MW-38	12/12/91	--	--	--	--	13	--	9.1	260	4.0	4.2	--	8.6	2.2	N/A	N/A
	01/24/92	--	--	--	--	11	--	5.7	250	2.7	2.8	--	5.7	1.3	N/A	N/A
	06/03/92	--	--	--	--	14	--	8.6	150	2.2	3.6	--	8.7	1.9	N/A	N/A
	09/04/92	--	--	--	--	21	--	--	350	--	--	--	--	--	N/A	N/A
	10/27/92	--	--	--	--	22	--	13	230	--	--	--	14	--	N/A	N/A
	01/26/93	--	--	--	--	10	--	7.3	140	1.7	2.4	--	7.7	1.3	N/A	N/A
	04/09/93	N/A	N/A	N/A	N/A	9.4	--	7.1	84	1.3	3.4	--	6.3	1.3	N/A	N/A
	07/06/93	--	--	--	--	4.5	--	2.9	140	0.52	1.3	--	4.2	0.76	N/A	N/A
	09/27/93	N/A	N/A	N/A	N/A	8.0	--	--	130	--	--	--	--	--	N/A	N/A
	01/10/94	--	--	--	--	--	--	--	120	--	--	--	--	--	N/A	N/A
	04/15/94	N/A	N/A	N/A	N/A	6.2	--	6.6	130	0.89	2.1 J	--	7.7	0.85	N/A	N/A
MW-39	06/28/91	--	--	--	--	0.6	--	--	0.7	2.9	4.0	--	--	1.8	N/A	N/A
	08/06/91	--	--	--	--	0.6	--	1.0	1.0	2.1	3.3	--	--	2.4	N/A	N/A
	12/12/91	--	--	--	--	1.0	--	1.2	3.2	2.5	4.9	0.6	--	2.4	N/A	N/A
	01/24/92	--	--	--	--	0.7	--	0.8	4.1	1.6	3.1	--	--	1.4	N/A	N/A
	06/03/92	--	--	--	--	1.1	--	1.3	4.1	1.6	3.1	--	--	2.0	N/A	N/A
	09/04/92	--	--	--	--	1.6	--	1.7	12	1.8	4.2	--	--	2.8	N/A	N/A
	10/21/92	--	--	--	--	1.6	--	1.2	7.7	--	2.3	--	--	1.8	N/A	N/A
	01/27/93	--	--	--	--	1.4	--	1.6	11	1.6	2.7	--	--	1.9	N/A	N/A
	04/09/93	N/A	N/A	N/A	N/A	1.7	--	1.5	10	1.1	2.7	--	0.63	1.7	N/A	N/A
	07/06/93	--	--	--	--	1.4	--	1.5	18	0.92	2.0	--	--	1.4	N/A	N/A
	09/27/93	N/A	N/A	N/A	N/A	2.0	--	2.0	20	0.95	2.5	--	0.73	1.4	N/A	N/A
	01/12/94	--	--	--	--	2.4	--	2.6	36	1.3	2.5	--	1.2	1.6	N/A	N/A
	04/15/94	N/A	N/A	N/A	N/A	2.5	--	2.8	34	1.2	2.6 JC	--	1.4	1.8	N/A	N/A
MW-40	06/28/91	--	--	--	--	4.0	--	19	110	--	--	--	46	--	N/A	N/A
	08/15/91	--	--	--	--	3.8	--	15	140	--	--	--	30	--	N/A	N/A
	11/22/91	--	--	--	--	2.4	--	12	95	--	--	--	27	--	N/A	N/A
	01/29/92	--	--	--	--	4.2	--	25	190	--	0.6	--	40	--	N/A	N/A
	05/29/92	--	--	--	--	5.2	--	25	170	--	0.6	--	38	--	N/A	N/A
	08/31/92	--	--	--	--	8.4	--	35	370	--	--	--	52	--	N/A	N/A
	10/22/92	--	--	--	--	6.9	--	--	220	29	--	--	49	--	N/A	N/A
	01/26/93	--	--	--	--	3.3	--	27	170	--	--	--	32	--	N/A	N/A
	04/13/93	N/A	N/A	N/A	N/A	3.7	--	26	120	--	--	--	38	--	N/A	N/A
	07/15/93	N/A	N/A	N/A	N/A	1.7	--	17	110	--	--	--	16	--	N/A	N/A
	09/27/93	N/A	N/A	N/A	N/A	--	--	15	120	--	--	16	--	--	N/A	N/A
	01/11/94	--	--	--	--	--	--	11	100	--	--	--	12	--	N/A	N/A
	04/25/94	N/A	N/A	N/A	N/A	0.87	--	11	120	--	--	--	13	--	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B	T	X	E	1,1,1–TCA	1,1,2–TCA	1,1–DCA	1,1–DCE	1,2–DCA	Chloroform	PCE	TCE	CCL_4	TPH	TPH/Gas
		1	1000	1,750	680	200	32	5	6	0.5	100	5	5	0.5	NE	NE
MW–41	06/28/91	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	08/12/91	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	11/05/91	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	01/31/92	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	05/26/92	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	08/25/92	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	10/20/92	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	01/20/93	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	06/30/93	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	N/A	N/A
	09/22/93	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	N/A	N/A
	01/07/94	--	--	--	--	--	--	--	--	--	--	--	--	--	N/A	N/A
	04/13/94	N/A	N/A	N/A	N/A	--	--	--	--	--	--	--	--	--	N/A	N/A
MW–42	06/28/91	--	--	--	--	11	--	110	340	--	2.0	--	4.0	--	N/A	N/A
	08/08/91	6.3	--	--	--	42.0	8.1	370	1500	--	8.7	--	19.0	--	N/A	N/A
	11/07/91	1.2	--	--	--	6.9	1.9	69	270	--	1.4	1.1	3.9	--	N/A	N/A
	02/07/92	1.6	--	--	--	8.7	2.2	100	480	0.7	2.5	1.6	5.5	--	N/A	N/A
	06/04/92	3.3	--	--	--	7.0	2.6	80	220	0.9	2.0	3.4	5.8	--	N/A	N/A
	08/25/92	1.2	--	--	--	5.5	2.6	110	260	1.6	1.9	4.2	7.2	--	N/A	N/A
	10/27/92	--	--	--	--	--	--	110	340	--	--	28	--	--	N/A	N/A
	01/19/93	--	--	--	--	5.3	1.2	60	180	--	1.1	3.0	4.3	--	N/A	N/A
	04/08/93	--	--	--	--	5.9	1.7	44	95	0.54	1.4	2.9	3.8	--	N/A	N/A
	07/01/93	0.72	--	--	--	3.1	0.89	50	120	--	0.76	2.7	--	--	N/A	N/A
	09/21/93	--	--	--	--	3.5	1.1	45	120	--	0.80	2.6	--	--	N/A	N/A
	01/05/94	0.51	--	--	--	4.3	1.8	54	130	--	0.84	4.0	3.2	--	N/A	N/A
	04/12/94	0.54	--	--	--	4.5	1.8	50	120	--	0.90	4.8	3.6	--	N/A	N/A
MW–43	06/28/91	--	--	--	--	--	--	330	33	--	--	--	--	--	N/A	N/A
	08/16/91	--	--	--	--	--	--	200	21	--	--	--	--	--	N/A	N/A
	11/07/91	--	--	--	--	--	2.0	170	30	1.9	--	0.6	2.5	--	N/A	N/A
	02/07/92	--	--	--	--	0.7	2.2	220	45	2.3	--	1.4	4.3	--	N/A	N/A
	06/02/92	--	--	--	--	--	2.5	210	32	2.5	--	---	4.7	--	N/A	N/A
	08/25/92	0.6	--	--	--	--	1.9	260	--	2.0	--	1.1	5.4	--	N/A	N/A
	10/22/92	--	--	--	--	--	--	240	28	--	--	--	--	--	N/A	N/A
	01/19/93	--	--	--	--	--	1.0	110	24	1.1	--	0.9	2.8	--	N/A	N/A
	04/08/93	--	--	--	--	--	3.3	210	33	3.2	--	1.0	4.9	--	N/A	N/A
	07/01/93**	--	--	--	--	--	--	--	25	--	--	--	--	--	N/A	N/A
	09/21/93	0.70	--	--	--	--	2.8	220	23	2.8	--	0.98	--	--	N/A	N/A
	01/05/94	--	--	--	--	--	1.0	290	25	--	--	--	3.7	--	N/A	N/A
	04/12/94	0.55	--	--	--	--	4.3	310	43	3.9	--	1.3	7.4	--	N/A	N/A

TABLE 3
SUMMARY MONITORING WELL GROUNDWATER ANALYTICAL RESULTS, 1988 – 1994
ORGANIC COMPOUNDS (ug/l)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

Monitoring Well	Date Sampled	B	T	X	E	1,1,1–TCA	1,1,2–TCA	1,1–DCA	1,1–DCE	1,2–DCA	Chloroform	PCE	TCE	CCL_4	TPH	TPH/Gas
		1	1000	1,750	680	200	32	5	6	0.5	100	5	5	0.5	NE	NE
MW–44	10/27/92	--	--	--	--	--	--	0.69	2.0	4.3	7.2	--	--	9.6	N/A	N/A
	01/26/93	--	--	--	--	--	--	--	0.96	1.9	3.6	--	--	4.1	N/A	N/A
	04/09/93	N/A	N/A	N/A	N/A	--	--	--	0.79	2.5	5.1	--	--	5.3	N/A	N/A
	07/06/93	--	--	--	--	--	--	--	--	2.4	3.6	--	--	5.6	N/A	N/A
	09/27/93	N/A	N/A	N/A	N/A	--	--	--	1.2	2.4	4.4	4.5	--	5.9	N/A	N/A
	01/10/94	--	--	--	--	--	--	--	0.77	2.1	3.6	--	--	3.9	N/A	N/A
	04/15/94	N/A	N/A	N/A	N/A	--	--	--	1.1	2.5	4.4 JC	--	--	6.1	N/A	N/A

CCL4 – Carbon Tetrachloride.
MCL – Maximum Contaminant Level, Drinking Water Standard, EPA or DHS (whichever is more stringent).
AL – Drinking Water Action Level recommended by DHS, Listed in the absence of an MCL.
\+ – Detections of Benzene, Toluene, and Xylene appear to be due to field contamination. Analysis of duplicate sample showed no detections.
++ – Detections of Benzene, Toluene, Xylene, and Ethylbenzene appear to be due to field contamination. Analysis of samples from other monitoring rounds were mostly non–detection for these constituents.
-- – Not Detected.
N/A – Not Analyzed.
** – Vinyl chloride reported at 11 mg/l for the MW–43 sample.
* – At or near detection limits.
UJF,JC – See Table 8 for key to data qualifiers.

TABLE 4
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
SELECTED METALS
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE		MW-04	MW-32
DATE		04/07/94	04/07/94
QA	MCL		
	ug/L		
NICKEL	100	9.6	18.0

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. DATE refers to date sampled. - = Parameter not analyzed.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 5
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE		FB-01	FB-02	FB-03	MW-02	MW-04	MW-07	MW-11	MW-12
DATE		04/13/94	04/25/94	04/26/94	04/12/94	04/07/94	04/14/94	04/13/94	04/13/94
QA	MCL ug/L	FIELD BLANK	FIELD BLANK	FIELD BLANK					
1,1,1-TRICHLOROETHANE	200.0	< 0.50	< 0.50	< 0.50	< 0.50	1.50	< 0.50	< 0.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-TRICHLOROETHANE	32.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	3.60	0.59	2.40	16.00
1,1-DICHLOROETHENE	6.0	< 0.50	< 0.50	< 0.50	< 0.50	53.00	3.70	18.00	42.00
1,2-DICHLOROBENZENE	600.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHANE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	2.70	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.56	< 0.50
1,2-DICHLOROPROPANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-DICHLOROBENZENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMODICHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOFORM	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOMETHANE	-	< 1.00	< 1.00	< 1.00	< 0.50	< 0.50	< 0.50	< 0.50	< 1.00
CARBON TETRACHLORIDE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROBENZENE	30.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CHLOROFORM	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.40	< 0.50	< 0.50

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 5 (cont.)
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE		FB-01	FB-02	FB-03	MW-02	MW-04	MW-07	MW-11	MW-12
DATE		04/13/94	04/25/94	04/26/94	04/12/94	04/07/94	04/14/94	04/13/94	04/13/94
QA	MCL ug/L	FIELD BLANK	FIELD BLANK	FIELD BLANK					
CHLOROMETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CIS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
DIBROMOCHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
METHYLENE CHLORIDE	5.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TETRACHLOROETHENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	1.30	< 0.50	< 0.50	< 0.50
TRANS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRICHLOROETHENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	2.70	< 0.50	1.50	2.10
TRICHLOROFLUOROMETHANE	150.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
VINYL CHLORIDE	0.5	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

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TABLE 5 (cont.)
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE		MW-13	MW-14	MW-16	MW-18	MW-20	MW-26	MW-28	MW-29
DATE		04/13/94	04/13/94	04/14/94	04/14/94	04/14/94	04/14/94	04/25/94	04/25/94
QA	MCL ug/L								
1,1,1-TRICHLOROETHANE	200.0	< 5.00	0.58	< 0.50	< 0.50	< 0.50	1.90	< 0.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	1.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-TRICHLOROETHANE	32.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHANE	5.0	40.00	4.90	< 0.50	< 0.50	< 0.50	10.00	10.00	1.10
1,1-DICHLOROETHENE	6.0	140.00	44.00	< 0.50	3.70	< 0.50	16.00	17.00	9.00
1,2-DICHLOROBENZENE	600.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHANE	0.5	61.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.70
1,2-DICHLOROETHENE	-	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	0.76	< 0.50	< 0.50
1,2-DICHLOROPROPANE	5.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	-	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-DICHLOROBENZENE	5.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMODICHLOROMETHANE	100.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOFORM	100.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOMETHANE	-	< 10.00	< 1.00	< 0.50	< 0.50	< 0.50	< 0.50	< 1.00	< 1.00
CARBON TETRACHLORIDE	0.5	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.60
CHLOROBENZENE	30.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROETHANE	-	< 10.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CHLOROFORM	100.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	2.40	< 0.50	2.00

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Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 5 (cont.)
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	MCL ug/L	MW-13 04/13/94	MW-14 04/13/94	MW-16 04/14/94	MW-18 04/14/94	MW-20 04/14/94	MW-26 04/14/94	MW-28 04/25/94	MW-29 04/25/94
CHLOROMETHANE	-	< 10.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CIS-1,3-DICHLOROPROPENE	-	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
DIBROMOCHLOROMETHANE	100.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
METHYLENE CHLORIDE	5.0	< 10.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TETRACHLOROETHENE	5.0	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRANS-1,3-DICHLOROPROPENE	-	< 5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRICHLOROETHENE	5.0	22.00	7.80	< 0.50	0.52	< 0.50	< 0.50	< 0.50	< 0.50
TRICHLOROFLUOROMETHANE	150.0	< 10.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
VINYL CHLORIDE	0.5	< 10.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

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< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 5 (cont.)
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE		MW-30	MW-31	MW-32	MW-33	MW-34	MW-35	MW-36	MW-37
DATE		04/25/94	04/26/94	04/07/94	04/13/94	04/26/94	04/26/94	04/26/94	04/26/94
QA	MCL ug/L								
1,1,1-TRICHLOROETHANE	200.0	1.40	0.65	1.20	1.30	1.40	< 0.50	1.20	< 0.50
1,1,2,2-TETRACHLOROETHANE	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-TRICHLOROETHANE	32.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHANE	5.0	4.90	2.50	4.00	2.50	6.20	< 0.50	2.00	3.10
1,1-DICHLOROETHENE	6.0	66.00	53.00	52.00	75.00	120.00	10.00	76.00	20.00
1,2-DICHLOROBENZENE	600.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHANE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	7.70
1,2-DICHLOROETHENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROPROPANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-DICHLOROBENZENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMODICHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOFORM	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOMETHANE	-	< 1.00	< 1.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CARBON TETRACHLORIDE	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.55
CHLOROBENZENE	30.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CHLOROFORM	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.50

All units reported as ug/L (ppb)

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Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 5 (cont.)
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	MCL ug/L	MW-30 04/25/94	MW-31 04/26/94	MW-32 04/07/94	MW-33 04/13/94	MW-34 04/26/94	MW-35 04/26/94	MW-36 04/26/94	MW-37 04/26/94
CHLOROMETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CIS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
DIBROMOCHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
METHYLENE CHLORIDE	5.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TETRACHLOROETHENE	5.0	< 0.50	0.89	< 0.50	< 0.50	0.84	< 0.50	< 0.50	< 0.50
TRANS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRICHLOROETHENE	5.0	8.60	11.00	6.80	0.60	16.00	2.20	4.50	< 0.50
TRICHLOROFLUOROMETHANE	150.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
VINYL CHLORIDE	0.5	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
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Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 5 (cont.)
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	MCL ug/L	MW-37 04/26/94 DUPLICATE SAMPLE	MW-38 04/15/94	MW-39 04/15/94	MW-40 04/25/94	MW-41 04/13/94	MW-41 04/13/94 DUPLICATE SAMPLE	MW-42 04/12/94	MW-43 04/12/94
1,1,1-TRICHLOROETHANE	200.0	< 0.50	6.20	2.50	0.87	< 0.50	< 0.50	4.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-TRICHLOROETHANE	32.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.80	4.30
1,1-DICHLOROETHANE	5.0	3.00	6.60	2.80	11.00	< 0.50	< 0.50	50.00	310.00
1,1-DICHLOROETHENE	6.0	20.00	130.00	34.00	120.00	< 0.50	< 0.50	120.00	43.00
1,2-DICHLOROBENZENE	600.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.57
1,2-DICHLOROETHANE	0.5	7.40	0.89	1.20	< 0.50	< 0.50	< 0.50	< 0.50	3.90
1,2-DICHLOROETHENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	9.60
1,2-DICHLOROPROPANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-DICHLOROBENZENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMODICHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOFORM	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOMETHANE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.00	< 1.00
CARBON TETRACHLORIDE	0.5	0.58	0.85	1.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROBENZENE	30.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CHLOROFORM	100.0	2.40	2.10 |J	2.60 |Jc	< 0.50	< 0.50	< 0.50	0.90	< 0.50

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Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 5 (cont.)
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	MCL ug/L	MW-37 04/26/94 DUPLICATE SAMPLE	MW-38 04/15/94	MW-39 04/15/94	MW-40 04/25/94	MW-41 04/13/94	MW-41 04/13/94 DUPLICATE SAMPLE	MW-42 04/12/94	MW-43 04/12/94
CHLOROMETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CIS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
DIBROMOCHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
METHYLENE CHLORIDE	5.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TETRACHLOROETHENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.80	1.30
TRANS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRICHLOROETHENE	5.0	< 0.50	7.70	1.40	13.00	< 0.50	< 0.50	3.60	7.40
TRICHLOROFLUOROMETHANE	150.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
VINYL CHLORIDE	0.5	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	10.00

All units reported as ug/L (ppb)

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MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 5 (cont.)
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE		MW-44	MW-44	RB-01	RB-02	RB-03	TB-01	TB-02	TB-03
DATE		04/15/94	04/15/94	04/13/94	04/25/94	04/26/94	04/12/94	04/13/94	04/14/94
QA	MCL		DUPLICATE	RINSATE	RINSATE	RINSATE	TRIP	TRIP	TRIP
	ug/L		SAMPLE	BLANK	BLANK	BLANK	BLANK	BLANK	BLANK
1,1,1-TRICHLOROETHANE	200.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1,2-TRICHLOROETHANE	32.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHENE	6.0	1.10	1.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROBENZENE	600.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHANE	0.5	2.50	2.10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-DICHLOROPROPANE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-DICHLOROBENZENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMODICHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOFORM	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
BROMOMETHANE	-	< 0.50	< 0.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 0.50
CARBON TETRACHLORIDE	0.5	6.10	5.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROBENZENE	30.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
CHLOROETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CHLOROFORM	100.0	4.40 |Jc	4.30 |Jc	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 5 (cont.)
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE		MW-44	MW-44	RB-01	RB-02	RB-03	TB-01	TB-02	TB-03
DATE		04/15/94	04/15/94	04/13/94	04/25/94	04/26/94	04/12/94	04/13/94	04/14/94
QA	MCL ug/L		DUPLICATE SAMPLE	RINSATE BLANK	RINSATE BLANK	RINSATE BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
CHLOROMETHANE	-	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
CIS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
DIBROMOCHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
METHYLENE CHLORIDE	5.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
TETRACHLOROETHENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRANS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRICHLOROETHENE	5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TRICHLOROFLUOROMETHANE	150.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
VINYL CHLORIDE	0.5	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 5 (cont.)
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE		TB-04	TB-05	TB-06
DATE		04/15/94	04/25/94	04/26/94
QA	MCL	TRIP	TRIP	TRIP
	ug/L	BLANK	BLANK	BLANK
1,1,1-TRICHLOROETHANE	200.0	< 0.50	< 0.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	1.0	< 0.50	< 0.50	< 0.50
1,1,2-TRICHLOROETHANE	32.0	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHANE	5.0	< 0.50	< 0.50	< 0.50
1,1-DICHLOROETHENE	6.0	< 0.50	< 0.50	< 0.50
1,2-DICHLOROBENZENE	600.0	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHANE	0.5	< 0.50	< 0.50	< 0.50
1,2-DICHLOROETHENE	-	< 0.50	< 0.50	< 0.50
1,2-DICHLOROPROPANE	5.0	< 0.50	< 0.50	< 0.50
1,3-DICHLOROBENZENE	-	< 0.50	< 0.50	< 0.50
1,4-DICHLOROBENZENE	5.0	< 0.50	< 0.50	< 0.50
BROMODICHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50
BROMOFORM	100.0	< 0.50	< 0.50	< 0.50
BROMOMETHANE	-	< 0.50	< 1.00	< 1.00
CARBON TETRACHLORIDE	0.5	< 0.50	< 0.50	< 0.50
CHLOROBENZENE	30.0	< 0.50	< 0.50	< 0.50
CHLOROETHANE	-	< 1.00	< 1.00	< 1.00
CHLOROFORM	100.0	< 0.50	< 0.50	< 0.50

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 5 (cont.)
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
CHLORINATED VOLATILE ORGANIC COMPOUNDS (EPA METHOD 601)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE		TB-04	TB-05	TB-06
DATE		04/15/94	04/25/94	04/26/94
QA	MCL	TRIP	TRIP	TRIP
	ug/L	BLANK	BLANK	BLANK
CHLOROMETHANE	-	< 1.00	< 1.00	< 1.00
CIS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50
DIBROMOCHLOROMETHANE	100.0	< 0.50	< 0.50	< 0.50
METHYLENE CHLORIDE	5.0	< 1.00	< 1.00	< 1.00
TETRACHLOROETHENE	5.0	< 0.50	< 0.50	< 0.50
TRANS-1,3-DICHLOROPROPENE	-	< 0.50	< 0.50	< 0.50
TRICHLOROETHENE	5.0	< 0.50	< 0.50	< 0.50
TRICHLOROFLUOROMETHANE	150.0	< 1.00	< 1.00	< 1.00
VINYL CHLORIDE	0.5	< 1.00	< 1.00	< 1.00

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 6
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
AROMATIC COMPOUNDS (EPA METHOD 602)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE		FB-01	FB-02	FB-03	MW-04	MW-12	MW-13	MW-14	MW-28
DATE		04/13/94	04/25/94	04/26/94	04/07/94	04/13/94	04/13/94	04/13/94	04/25/94
QA	MCL	FIELD	FIELD	FIELD					
	ug/L	BLANK	BLANK	BLANK					
BENZENE	1	< 0.50	< 0.50	< 0.50	120.00	< 0.50	2200.00	0.63	< 0.50
ETHYL BENZENE	680	< 0.50	< 0.50	< 0.50	3.70	< 0.50	130.00	< 0.50	< 0.50
TOLUENE	1000	< 0.50	< 0.50	< 0.50	14.00	< 0.50	67.00	< 0.50	< 0.50
XYLENE	1750	< 0.50	< 0.50	< 0.50	19.00	< 0.50	79.00	< 0.50	< 0.50

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 6 (cont.)
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
AROMATIC COMPOUNDS (EPA METHOD 602)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE DATE QA	MCL ug/L	MW-29 04/25/94	MW-30 04/25/94	MW-31 04/26/94	MW-32 04/07/94	MW-42 04/12/94	MW-43 04/12/94	RB-01 04/13/94 RINSATE BLANK	RB-02 04/25/94 RINSATE BLANK
BENZENE	1	< 0.50	< 0.50	< 0.50	< 0.50	0.54	0.55	< 0.50	< 0.50
ETHYL BENZENE	680	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TOLUENE	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
XYLENE	1750	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 6 (cont.)
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
AROMATIC COMPOUNDS (EPA METHOD 602)
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE		RB-03	TB-01	TB-02	TB-05	TB-06
DATE		04/26/94	04/12/94	04/13/94	04/25/94	04/26/94
QA	MCL	RINSATE	TRIP	TRIP	TRIP	TRIP
	ug/L	BLANK	BLANK	BLANK	BLANK	BLANK
BENZENE	1	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
ETHYL BENZENE	680	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
TOLUENE	1000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
XYLENE	1750	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

All units reported as ug/L (ppb)

QA = Samples taken as part of the quality assurance program. - = Parameter not analyzed. DATE refers to date sampled.
< = Constituent below detection limits. Detection limits may vary depending on interference by other sample constituents.
MCL = California Department of Health Services (DHS) Maximum Contaminant Level (primary), Title 22 of the California Code of Regulations, Division 4, Chapter 15, "Domestic Water Quality and Monitoring."
Lab flag|Validation qualifier. See Table 8 for key to data qualifiers.

TABLE 7
1994 SECOND QUARTER MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
FIELD PARAMETERS AND TPH GASOLINE
UNION PACIFIC RAILROAD YARD
SACRAMENTO, CALIFORNIA

SAMPLE	DATE	TEMPERATURE	EC-F	pH-F	TURBIDITY	TPH/GASOLINE
		degrees C	umhos/cm		NTU	ug/L (ppb)
MW-02	04/12/94	20.3	595	6.99	0.62	-
MW-04	04/07/94	-	-	-	-	660
MW-07	04/14/94	20.4	1020	7.31	1.22	-
MW-11	04/13/94	19.8	1006	7.38	0.41	-
MW-12	04/13/94	19.8	1301	7.32	0.37	-
MW-13	04/13/94	19.8	836	6.93	0.81	-
MW-14	04/13/94	20.0	1173	7.39	0.59	-
MW-16	04/14/94	19.9	1003	7.29	0.29	-
MW-18	04/14/94	20.0	1266	7.19	0.17	-
MW-20	04/14/94	20.1	1085	7.26	0.06	-
MW-26	04/14/94	20.3	1064	7.27	1.12	-
MW-28	04/25/94	19.3	1322	7.19	0.29	-
MW-29	04/25/94	20.4	857	7.10	0.46	-
MW-30	04/25/94	19.9	1015	7.16	0.29	-
MW-31	04/26/94	20.0	983	7.02	0.53	-
MW-32	04/07/94	-	-	-	-	< 50
MW-33	04/13/94	19.8	556	7.30	1.07	-
MW-34	04/26/94	19.6	856	7.20	1.13	-
MW-35	04/26/94	19.8	964	7.13	0.97	-
MW-36	04/26/94	18.6	789	7.21	2.02	-
MW-37	04/26/94	18.3	882	7.24	1.01	-
MW-38	04/15/94	18.6	852	7.19	0.52	-
MW-39	04/15/94	18.7	879	7.31	0.37	-
MW-40	04/25/94	19.5	1372	7.14	0.19	-
MW-41	04/13/94	19.6	783	7.60	0.49	-
MW-42	04/12/94	21.2	1032	6.78	0.82	-
MW-43	04/12/94	20.7	4300	7.06	0.59	-
MW-44	04/15/94	18.7	817	7.39	0.41	-

DATE refers to date sampled.
- = Parameter not analyzed.

TABLE 8
EXPLANATION OF DATA QUALIFIERS PRESENTED IN THE TABLES OF ANALYTICAL RESULTS UNION PACIFIC RAILROAD YARD SACRAMENTO, CALIFORNIA

KEY →	A	B	C
Example Data →	<	5.200	UJ

KEY

A < Signifies that analyte level is less than indicated value.
B Indicated value in units as noted in table footnote.
C Data qualifier(s) assigned by data validation team.

Validation Data Qualifier Explanations

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

R The sample results are unreliable due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

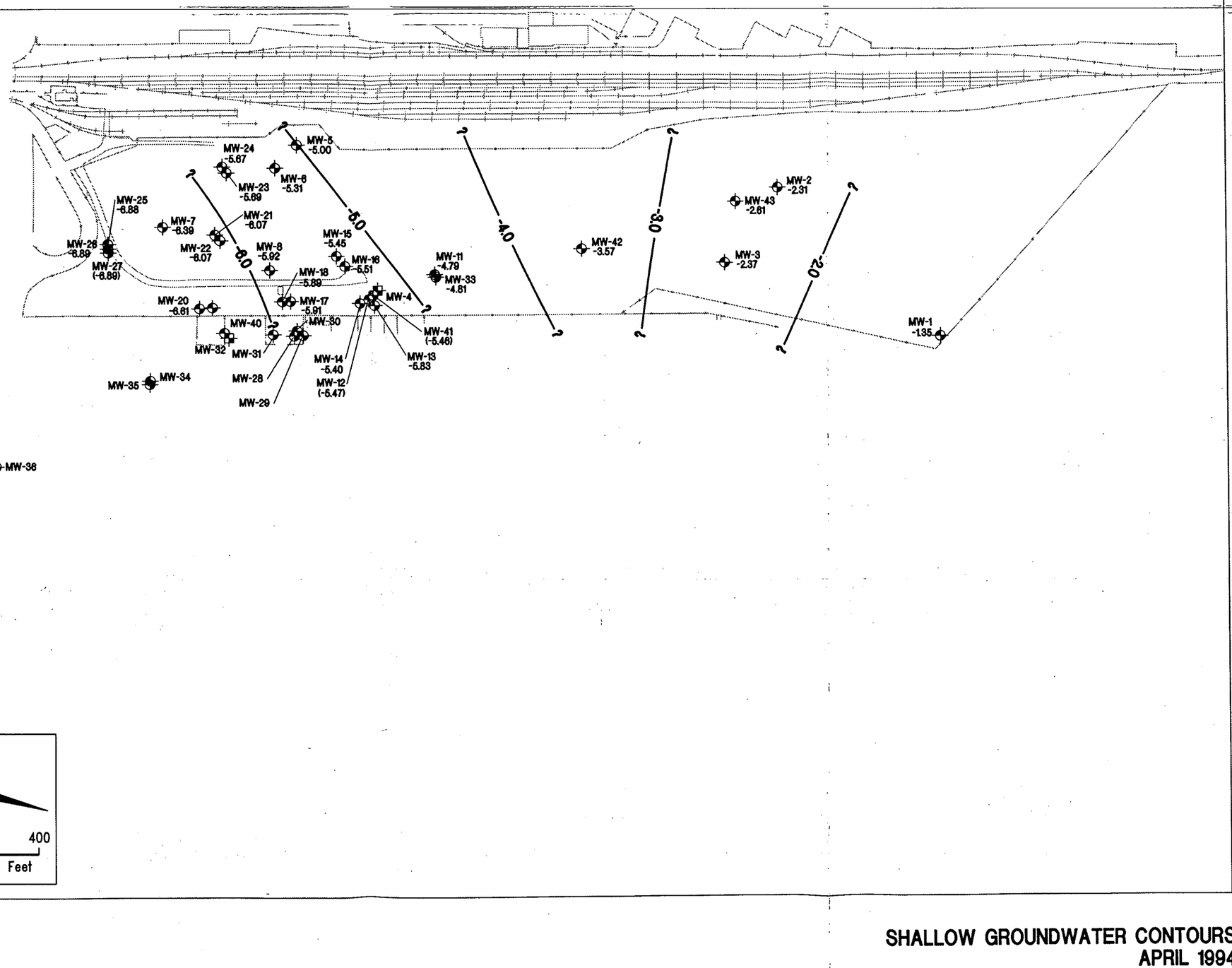
UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

c Calibration verification failure.

f Field replicate or duplicate imprecision.

l Laboratory control sample recovery failure.

Figures



SHALLOW GROUNDWATER CONTOURS APRIL 1994

Union Pacific Railroad
Sacramento, California

FIGURE 1

DAMES & MOORE

00173-080-6023-044 MAJ 5/23/94 6023A

Attachments

ATTACHMENT 1

D&M LABORATORIES
ENVIRONMENTAL AND INDUSTRIAL HYGIENE SERVICES

3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245
FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

May 9, 1994

Customer Project: 00173-080-044 UPRR Sacto
Laboratory Job: L9404245

On April 26, 1994 we received 7 sample(s) for analysis. Samples were analyzed by the following method(s):

Halogenated Volatile Organics (EPA 601/SW 8010A)

Halog. & Aromatic Volatiles (EPA 8010A/8020A)

Project Manager

Laboratory Director
Robert Peak

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: TB-5
Lab Id: L9404245-1

Collected: 25-APR-94
Received: 26-APR-94
Reported: 06-MAY-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromodichloromethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromoform	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromomethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Carbon Tetrachloride	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chloroethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Chloroform	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chloromethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Dibromochloromethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloropropane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Ethyl Benzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Methylene Chloride	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Tetrachloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Toluene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trichloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trichlorofluoromethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Vinyl Chloride	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Xylenes (Total)	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	100.		-	%	03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	102.		-	%	03-MAY-94	03-MAY-94
-	-					
Comments:	None					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: FB-2
Lab Id: L9404245-2

Collected: 25-APR-94
Received: 26-APR-94
Reported: 06-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010/8020M					
Benzene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Bromodichloromethane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Bromoform	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Bromomethane	ND <	1.0	ug/L	03-MAY-94	03-MAY-94
Carbon Tetrachloride	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Chlorobenzene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Chloroethane	ND <	1.0	ug/L	03-MAY-94	03-MAY-94
Chloroform	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Chloromethane	ND <	1.0	ug/L	03-MAY-94	03-MAY-94
Dibromochloromethane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloropropane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Ethyl Benzene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Methylene Chloride	ND <	1.0	ug/L	03-MAY-94	03-MAY-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Tetrachloroethene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Toluene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Trichloroethene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Trichlorofluoromethane	ND <	1.0	ug/L	03-MAY-94	03-MAY-94
Vinyl Chloride	ND <	1.0	ug/L	03-MAY-94	03-MAY-94
Xylenes (Total)	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene (8010)	94.0	-	%	03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	98.0	-	%	03-MAY-94	03-MAY-94
-	-				
Comments:	None				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: RB-2
Lab Id: L9404245-3

Collected: 25-APR-94
Received: 26-APR-94
Reported: 06-MAY-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromodichloromethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromoform	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromomethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Carbon Tetrachloride	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chloroethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Chloroform	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chloromethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Dibromochloromethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloropropane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Ethyl Benzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Methylene Chloride	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Tetrachloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Toluene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trichloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trichlorofluoromethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Vinyl Chloride	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Xylenes (Total)	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	96.0		-	%	03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	100.		-	%	03-MAY-94	03-MAY-94
-	-					
Comments:	None					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-29
Lab Id: L9404245-4

Collected: 25-APR-94
Received: 26-APR-94
Reported: 06-MAY-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
Bromodichloromethane	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
Bromoform	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
Bromomethane	ND <		1.0	ug/L	03-MAY-94	03-MAY-94
Carbon Tetrachloride	1.6		0.50	ug/L	03-MAY-94	03-MAY-94
Chlorobenzene	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
Chloroethane	ND <		1.0	ug/L	03-MAY-94	03-MAY-94
Chloroform	2.0		0.50	ug/L	03-MAY-94	03-MAY-94
Chloromethane	ND <		1.0	ug/L	03-MAY-94	03-MAY-94
Dibromochloromethane	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichlorobenzene	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
1,3-Dichlorobenzene	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
1,4-Dichlorobenzene	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethane	1.1		0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethane	2.7		0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethene	9.0		0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethene (Total)	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloropropane	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
Cis-1,3-Dichloropropene	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
Trans-1,3-Dichloropropene	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
Ethyl Benzene	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
Methylene Chloride	ND <		1.0	ug/L	03-MAY-94	03-MAY-94
1,1,2,2-Tetrachloroethane	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
Tetrachloroethene	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
Toluene	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
1,1,1-Trichloroethane	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
1,1,2-Trichloroethane	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
Trichloroethene	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
Trichlorofluoromethane	ND <		1.0	ug/L	03-MAY-94	03-MAY-94
Vinyl Chloride	ND <		1.0	ug/L	03-MAY-94	03-MAY-94
Xylenes (Total)	ND <		0.50	ug/L	03-MAY-94	03-MAY-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	97.0	-		%	03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	98.0	-		%	03-MAY-94	03-MAY-94
-	-					
Comments:	None					

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-30
Lab Id: L9404245-5

Collected: 25-APR-94
Received: 26-APR-94
Reported: 06-MAY-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromodichloromethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromoform	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromomethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Carbon Tetrachloride	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chloroethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Chloroform	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chloromethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Dibromochloromethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethane	4.9		0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethene	66.		5.0	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloropropane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Ethyl Benzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Methylene Chloride	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Tetrachloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Toluene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,1-Trichloroethane	1.4		0.50	ug/L	03-MAY-94	03-MAY-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trichloroethene	8.6		0.50	ug/L	03-MAY-94	03-MAY-94
Trichlorofluoromethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Vinyl Chloride	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Xylenes (Total)	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	120.	-		%	03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	117.	-		%	03-MAY-94	03-MAY-94
-	-					
Comments:	None					

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-28
Lab Id: L9404245-6

Collected: 25-APR-94
Received: 26-APR-94
Reported: 06-MAY-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromodichloromethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromoform	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromomethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Carbon Tetrachloride	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chloroethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Chloroform	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chloromethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Dibromochloromethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethane	10.		0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethene	17.		0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloropropane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Ethyl Benzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Methylene Chloride	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Tetrachloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Toluene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trichloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trichlorofluoromethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Vinyl Chloride	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Xylenes (Total)	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	90.0		-	%	03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	94.0		-	%	03-MAY-94	03-MAY-94
-	-					
Comments:	None					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-40
Lab Id: L9404245-7

Collected: 25-APR-94
Received: 26-APR-94
Reported: 06-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Bromoform	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Bromomethane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Carbon Tetrachloride	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Chlorobenzene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Chloroethane	ND <	1.0	ug/L	03-MAY-94	03-MAY-94
Chloroform	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Chloromethane	ND <	1.0	ug/L	03-MAY-94	03-MAY-94
Dibromochloromethane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethane	11.	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethene	120	5.0	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloropropane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Methylene Chloride	ND <	1.0	ug/L	03-MAY-94	03-MAY-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Tetrachloroethene	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,1-Trichloroethane	0.87	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	03-MAY-94	03-MAY-94
Trichloroethene	13.	0.50	ug/L	03-MAY-94	03-MAY-94
Trichlorofluoromethane	ND <	1.0	ug/L	03-MAY-94	03-MAY-94
Vinyl Chloride	ND <	1.0	ug/L	03-MAY-94	03-MAY-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	85.0	-	%	03-MAY-94	03-MAY-94
-	87.	-	%	03-MAY-94	03-MAY-94
Comments:	None				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: Method Blank
Lab Id: WG4629-4

Reported: 06-MAY-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromodichloromethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromoform	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromomethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Carbon Tetrachloride	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chloroethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Chloroform	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chloromethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Dibromochloromethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloropropane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Ethyl Benzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Methylene Chloride	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Tetrachloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Toluene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trichloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trichlorofluoromethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Vinyl Chloride	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Xylenes (Total)	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	96.0		-	%	03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	104.		-	%	03-MAY-94	03-MAY-94
-	-					
Comments:	None					

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Method Blank Spike
Lab Id: WG4629-5

Reported: 06-MAY-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8010/8020W-QC							
1,1-Dichloroethene	22.1	ug/L	20	ug/L	110 %	03-MAY-94	03-MAY-94
Trichloroethene	20.2	ug/L	20	ug/L	101 %	03-MAY-94	03-MAY-94
Chlorobenzene-601	22.9	ug/L	20	ug/L	114 %	03-MAY-94	03-MAY-94
Benzene	20.5	ug/L	20	ug/L	102 %	03-MAY-94	03-MAY-94
Toluene	20.6	ug/L	20	ug/L	103 %	03-MAY-94	03-MAY-94
Chlorobenzene-602	20.7	ug/L	20	ug/L	104 %	03-MAY-94	03-MAY-94
-	-						
Surrogate:	-						
4-Bromofluorobenzene (8010)	107.	%				03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	103.	%				03-MAY-94	03-MAY-94
-	-						
Comments:	None						

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: MX
Lab Id: WG4629-1

Reported: 06-MAY-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Bromodichloromethane	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Bromoform	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Bromomethane	ND	<	1.00	ug/L	03-MAY-94	03-MAY-94
Carbon Tetrachloride	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Chlorobenzene	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Chloroethane	ND	<	1.00	ug/L	03-MAY-94	03-MAY-94
Chloroform	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Chloromethane	ND	<	1.00	ug/L	03-MAY-94	03-MAY-94
Dibromochloromethane	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
1,2-Dichlorobenzene	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
1,3-Dichlorobenzene	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
1,4-Dichlorobenzene	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethane	10.1		0.500	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethane	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethene	17.2		0.500	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethene (Total)	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloropropane	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Cis-1,3-Dichloropropene	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Trans-1,3-Dichloropropene	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Ethyl Benzene	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Methylene Chloride	ND	<	1.00	ug/L	03-MAY-94	03-MAY-94
1,1,2,2-Tetrachloroethane	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Tetrachloroethene	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Toluene	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
1,1,1-Trichloroethane	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
1,1,2-Trichloroethane	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Trichloroethene	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
Trichlorofluoromethane	ND	<	1.00	ug/L	03-MAY-94	03-MAY-94
Vinyl Chloride	ND	<	1.00	ug/L	03-MAY-94	03-MAY-94
Xylenes (Total)	ND	<	0.500	ug/L	03-MAY-94	03-MAY-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	90.0		-	%	03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	94.0		-	%	03-MAY-94	03-MAY-94
-	-					
Comments:	MX=L9404245-6 (MW-28)					

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike
Lab Id: WG4629-2

Reported: 06-MAY-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8010/8020W-QC							
1,1-Dichloroethene	35.2	ug/L	20	ug/L	90 %	03-MAY-94	03-MAY-94
Trichloroethene	21.9	ug/L	20	ug/L	110 %	03-MAY-94	03-MAY-94
Chlorobenzene-601	22.1	ug/L	20	ug/L	110 %	03-MAY-94	03-MAY-94
Benzene	19.5	ug/L	20	ug/L	98 %	03-MAY-94	03-MAY-94
Toluene	19.4	ug/L	20	ug/L	97 %	03-MAY-94	03-MAY-94
Chlorobenzene-602	19.7	ug/L	20	ug/L	98 %	03-MAY-94	03-MAY-94
-	-						
Surrogate:	-						
4-Bromofluorobenzene (8010)	98.0	%				03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	90.0	%				03-MAY-94	03-MAY-94
-	-						
Comments:	None						

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike Dup
Lab Id: WG4629-3

Reported: 06-MAY-94

Parameter	Value	Units	% Rec	RPD	Extracted	Analyzed
8010/8020W-QC						
1,1-Dichloroethene	35.9	ug/L	94 %	2.0	03-MAY-94	03-MAY-94
Trichloroethene	22.3	ug/L	112 %	1.8	03-MAY-94	03-MAY-94
Chlorobenzene-601	23.2	ug/L	116 %	4.9	03-MAY-94	03-MAY-94
Benzene	20.8	ug/L	104 %	6.4	03-MAY-94	03-MAY-94
Toluene	20.8	ug/L	104 %	7.0	03-MAY-94	03-MAY-94
Chlorobenzene-602	21.6	ug/L	108 %	9.2	03-MAY-94	03-MAY-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	98.0	%			03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	95.0	%			03-MAY-94	03-MAY-94
-	-					
Comments:	None					

QUALITY CONTROL REPORT

In order to provide you with the means of assessing the quality of the data in our report, **D&M Laboratories** reports the results of Quality Control samples analyzed with your samples.

The Quality Control samples provide the following QC information:

The Method Blank (**MB**) monitors the level of contamination introduced by reagents or glassware. A minimum of one MB is run per batch of 20 samples or less.

The Method Blank Spike (**MBS**) measures the accuracy of analytical techniques and is not subject to matrix effects. A minimum of one MBS is run per batch of 20 samples or less.

The Matrix Spike (**MS**) measures the accuracy of the method for a matrix type. Due to the high variability within matrix types and the necessity of batching samples from varied sources, matrix spike information from one sample is not necessarily relevant to other samples on the batch. A minimum of two matrix spikes, MS and MSD, are run per batch of 20 samples or less. The sample selected for the matrix spike is designated **MX**, and may or may not have been submitted by the recipient of this report.

The Matrix Spike Duplicate (**MSD**), along with the MS, is used to monitor the precision (**RPD**) of the method and to indicate possible non homogeneity of the sample matrix.

Equations used for determining percent recovery and relative percent difference (RPD) are as follows:

MBS % Recovery = (MBS result / MBS spike level) x 100
MS % Recovery = [(MS result - MX result) / MS spike level] x 100
RPD ={ | MS result - MSD result | / [(MS result + MSD result) / 2]} x 100

We continue to strive to improve the quality of service to our clients. We welcome any questions or comments you may have about this information, or about **D&M Laboratories** in general. Please contact a Project Manager for further information.

L9404245

D&M LABORATORIES
3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 Fax: (707) 763-4065

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name Dames & Moore Phone (916) 387-8800
Address 8801 Folsom Blvd
City, State, Zip Sacramento, CA
Client's or Representative's Signature Jim Brake
(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO. 00173-080 044 | PROJECT NAME UP Sacramento
SAMPLERS (Signature) Greg Jamald

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	601	602					REMARKS / LAB USE ONLY LAB NO.
TB-5	4-25-94	0800		/	Travel blank-5	3	X	X					
FB-2		1445		✓	Field blank-2	4	X	X					
RB-2		1500		✓	Rinse blank-2	4	X	X					
29		1015		✓	MW-29	4	X	X					
30		1119		✓	MW-30	4	X	X					
28		1204		✓	MW-28	4	X	X					
40		1357		✓	MW-40	3	X						

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐ N/A
COOLER TEMPERATURE Cold °C

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐
COOLER TEMPERATURE _____ °C

SAMPLES RECEIVED IN GOOD CONDITION
NO BROKEN OR LEAKING CONTAINERS

UPS RED. 26 VOAs -

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
Greg Jamald	4-25-94	1630	UPS #0197213B867
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
			D. Powell
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)

General Remarks: preserved with HCl to pH<2

RECEIVED
DAMES & MOORE
1994 APR 26 AM 9 57

PART ONE - CLIENT COPY

D&M LABORATORIES
ENVIRONMENTAL AND INDUSTRIAL HYGIENE SERVICES

3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245
FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

May 3, 1994

Customer Project: 00173-080-044 UPRR Sacto
Laboratory Job: L9404101

On April 13, 1994 we received 4 sample(s) for analysis. Samples were analyzed by the following method(s):

Halogenated Volatile Organics (EPA 8010A)

Halog. & Aromatic Volatiles (EPA 8010A/8020A)

Project Manager

Laboratory Director
Robert Peak

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: TRAVEL BLANK
Lab Id: L9404101-1

Collected: 12-APR-94
Received: 13-APR-94
Reported: 29-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010/8020W					
Benzene	ND <	0.50	ug/L	20-APR-94	20-APR-94
Bromodichloromethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
Bromoform	ND <	0.50	ug/L	20-APR-94	20-APR-94
Bromomethane	ND <	1.0	ug/L	20-APR-94	20-APR-94
Carbon Tetrachloride	ND <	0.50	ug/L	20-APR-94	20-APR-94
Chlorobenzene	ND <	0.50	ug/L	20-APR-94	20-APR-94
Chloroethane	ND <	1.0	ug/L	20-APR-94	20-APR-94
Chloroform	ND <	0.50	ug/L	20-APR-94	20-APR-94
Chloromethane	ND <	1.0	ug/L	20-APR-94	20-APR-94
Dibromochloromethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,1-Dichloroethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloroethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,1-Dichloroethene	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	20-APR-94	20-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	20-APR-94	20-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	20-APR-94	20-APR-94
Ethyl Benzene	ND <	0.50	ug/L	20-APR-94	20-APR-94
Methylene Chloride	ND <	1.0	ug/L	20-APR-94	20-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
Tetrachloroethene	ND <	0.50	ug/L	20-APR-94	20-APR-94
Toluene	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
Trichloroethene	ND <	0.50	ug/L	20-APR-94	20-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	20-APR-94	20-APR-94
Vinyl Chloride	ND <	1.0	ug/L	20-APR-94	20-APR-94
Xylenes (Total)	ND <	0.50	ug/L	20-APR-94	20-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene (8010)	101.	-	%	20-APR-94	20-APR-94
4-Bromofluorobenzene (8020)	94.0	-	%	20-APR-94	20-APR-94
-	-				
Comments:	None				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-2
Lab Id: L9404101-2

Collected: 12-APR-94
Received: 13-APR-94
Reported: 02-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
Bromoform	ND <	0.50	ug/L	20-APR-94	20-APR-94
Bromomethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
Carbon Tetrachloride	ND <	0.50	ug/L	20-APR-94	20-APR-94
Chlorobenzene	ND <	0.50	ug/L	20-APR-94	20-APR-94
Chloroethane	ND <	1.0	ug/L	20-APR-94	20-APR-94
Chloroform	ND <	0.50	ug/L	20-APR-94	20-APR-94
Chloromethane	ND <	1.0	ug/L	20-APR-94	20-APR-94
Dibromochloromethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,1-Dichloroethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloroethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,1-Dichloroethene	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	20-APR-94	20-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	20-APR-94	20-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	20-APR-94	20-APR-94
Methylene Chloride	ND <	1.0	ug/L	20-APR-94	20-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
Tetrachloroethene	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	20-APR-94	20-APR-94
Trichloroethene	ND <	0.50	ug/L	20-APR-94	20-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	20-APR-94	20-APR-94
Vinyl Chloride	ND <	1.0	ug/L	20-APR-94	20-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	97.0	-	%	20-APR-94	20-APR-94
-	-				
Comments:	None				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-43
Lab Id: L9404101-3

Collected: 12-APR-94
Received: 13-APR-94
Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	0.55		0.50	ug/L	20-APR-94	20-APR-94
Bromodichloromethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Bromoform	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Bromomethane	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Chlorobenzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Chloroethane	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Chloroform	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Chloromethane	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichlorobenzene	0.57		0.50	ug/L	20-APR-94	20-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,1-Dichloroethane	310		5.0	ug/L	20-APR-94	20-APR-94
1,2-Dichloroethane	3.9		0.50	ug/L	20-APR-94	20-APR-94
1,1-Dichloroethene	43.		0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloroethene (Total)	9.6		0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Ethyl Benzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Methylene Chloride	ND	<	1.0	ug/L	20-APR-94	20-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Tetrachloroethene	1.3		0.50	ug/L	20-APR-94	20-APR-94
Toluene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,1,2-Trichloroethane	4.3		0.50	ug/L	20-APR-94	20-APR-94
Trichloroethene	7.4		0.50	ug/L	20-APR-94	20-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Vinyl Chloride	10.		1.0	ug/L	20-APR-94	20-APR-94
Xylenes (Total)	ND	<	0.50	ug/L	20-APR-94	20-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	104.	-		%	20-APR-94	20-APR-94
4-Bromofluorobenzene (8020)	89.0	-		%	20-APR-94	20-APR-94
-	-					
Comments:	None					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-42
Lab Id: L9404101-4

Collected: 12-APR-94
Received: 13-APR-94
Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	0.54		0.50	ug/L	21-APR-94	21-APR-94
Bromodichloromethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromoform	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromomethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chloroethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Chloroform	0.90		0.50	ug/L	21-APR-94	21-APR-94
Chloromethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethane	50.		5.0	ug/L	20-APR-94	20-APR-94
1,2-Dichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethene	120		15.	ug/L	20-APR-94	20-APR-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Ethyl Benzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Methylene Chloride	ND	<	1.0	ug/L	21-APR-94	21-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Tetrachloroethene	4.8		0.50	ug/L	21-APR-94	21-APR-94
Toluene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1,1-Trichloroethane	4.5		0.50	ug/L	21-APR-94	21-APR-94
1,1,2-Trichloroethane	1.8		0.50	ug/L	21-APR-94	21-APR-94
Trichloroethene	3.6		0.50	ug/L	21-APR-94	21-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Vinyl Chloride	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Xylenes (Total)	ND	<	0.50	ug/L	21-APR-94	21-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	101.	-		%	21-APR-94	21-APR-94
4-Bromofluorobenzene (8020)	90.0	-		%	21-APR-94	21-APR-94
-	-					
Comments:	None					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: Method Blank
Lab Id: WG4527-4

Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Bromodichloromethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Bromoform	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Bromomethane	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Chlorobenzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Chloroethane	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Chloroform	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Chloromethane	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,1-Dichloroethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloroethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,1-Dichloroethene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Ethyl Benzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Methylene Chloride	ND	<	1.0	ug/L	20-APR-94	20-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Tetrachloroethene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Toluene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Trichloroethene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Vinyl Chloride	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Xylenes (Total)	ND	<	0.50	ug/L	20-APR-94	20-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	101.		-	%	20-APR-94	20-APR-94
4-Bromofluorobenzene (8020)	94.0		-	%	20-APR-94	20-APR-94
-	-					
Comments:	None					

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Method Blank Spike
Lab Id: WG4527-5

Reported: 29-APR-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8010/8020W-QC							
1,1-Dichloroethene	23.4	ug/L	20	ug/L	117 %	20-APR-94	20-APR-94
Trichloroethene	22.9	ug/L	20	ug/L	114 %	20-APR-94	20-APR-94
Chlorobenzene-601	23.0	ug/L	20	ug/L	115 %	20-APR-94	20-APR-94
Benzene	18.8	ug/L	20	ug/L	94 %	20-APR-94	20-APR-94
Toluene	18.7	ug/L	20	ug/L	94 %	20-APR-94	20-APR-94
Chlorobenzene-602	18.8	ug/L	20	ug/L	94 %	20-APR-94	20-APR-94
-	-						
Surrogate:	-						
4-Bromofluorobenzene (8010)	112.	%				20-APR-94	20-APR-94
4-Bromofluorobenzene (8020)	95.0	%				20-APR-94	20-APR-94
-	-						
Comments:	None						

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: MX
Lab Id: WG4527-1

Reported: 29-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010/8020W					
Benzene	ND <	0.500	ug/L	21-APR-94	21-APR-94
Bromodichloromethane	ND <	0.500	ug/L	21-APR-94	21-APR-94
Bromoform	ND <	0.500	ug/L	21-APR-94	21-APR-94
Bromomethane	ND <	1.00	ug/L	21-APR-94	21-APR-94
Carbon Tetrachloride	ND <	0.500	ug/L	21-APR-94	21-APR-94
Chlorobenzene	ND <	0.500	ug/L	21-APR-94	21-APR-94
Chloroethane	ND <	1.00	ug/L	21-APR-94	21-APR-94
Chloroform	ND <	0.500	ug/L	21-APR-94	21-APR-94
Chloromethane	ND <	1.00	ug/L	21-APR-94	21-APR-94
Dibromochloromethane	ND <	0.500	ug/L	21-APR-94	21-APR-94
1,2-Dichlorobenzene	ND <	0.500	ug/L	21-APR-94	21-APR-94
1,3-Dichlorobenzene	ND <	0.500	ug/L	21-APR-94	21-APR-94
1,4-Dichlorobenzene	ND <	0.500	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethane	ND <	0.500	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethane	ND <	0.500	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethene	ND <	0.500	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethene (Total)	ND <	0.500	ug/L	21-APR-94	21-APR-94
1,2-Dichloropropane	ND <	0.500	ug/L	21-APR-94	21-APR-94
Cis-1,3-Dichloropropene	ND <	0.500	ug/L	21-APR-94	21-APR-94
Trans-1,3-Dichloropropene	ND <	0.500	ug/L	21-APR-94	21-APR-94
Ethyl Benzene	ND <	0.500	ug/L	21-APR-94	21-APR-94
Methylene Chloride	ND <	1.00	ug/L	21-APR-94	21-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.500	ug/L	21-APR-94	21-APR-94
Tetrachloroethene	ND <	0.500	ug/L	21-APR-94	21-APR-94
Toluene	ND <	0.500	ug/L	21-APR-94	21-APR-94
1,1,1-Trichloroethane	ND <	0.500	ug/L	21-APR-94	21-APR-94
1,1,2-Trichloroethane	ND <	0.500	ug/L	21-APR-94	21-APR-94
Trichloroethene	ND <	0.500	ug/L	21-APR-94	21-APR-94
Trichlorofluoromethane	ND <	1.00	ug/L	21-APR-94	21-APR-94
Vinyl Chloride	ND <	1.00	ug/L	21-APR-94	21-APR-94
Xylenes (Total)	ND <	0.500	ug/L	21-APR-94	21-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene (8010)	96.0	-	%	21-APR-94	21-APR-94
4-Bromofluorobenzene (8020)	88.0	-	%	21-APR-94	21-APR-94
-	-				
Comments:	MX=L9404108-6 (MW-41)				

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike
Lab Id: WG4527-2

Reported: 29-APR-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8010/8020W-QC							
1,1-Dichloroethene	25.0	ug/L	20	ug/L	125 %	21-APR-94	21-APR-94
Trichloroethene	25.1	ug/L	20	ug/L	126 %	21-APR-94	21-APR-94
Chlorobenzene-601	25.5	ug/L	20	ug/L	128 %	21-APR-94	21-APR-94
Benzene	19.7	ug/L	20	ug/L	98 %	21-APR-94	21-APR-94
Toluene	19.4	ug/L	20	ug/L	97 %	21-APR-94	21-APR-94
Chlorobenzene-602	19.5	ug/L	20	ug/L	97 %	21-APR-94	21-APR-94
-	-						
Surrogate:	-						
4-Bromofluorobenzene (8010)	104.	%				21-APR-94	21-APR-94
4-Bromofluorobenzene (8020)	88.0	%				21-APR-94	21-APR-94
-	-						
Comments:	None						

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike Dup
Lab Id: WG4527-3

Reported: 29-APR-94

Parameter	Value	Units	% Rec	RPD	Extracted	Analyzed
8010/8020W-QC						
1,1-Dichloroethene	24.8	ug/L	124 %	0.80	21-APR-94	21-APR-94
Trichloroethene	24.4	ug/L	122 %	2.8	21-APR-94	21-APR-94
Chlorobenzene-601	24.7	ug/L	124 %	3.2	21-APR-94	21-APR-94
Benzene	18.7	ug/L	94 %	5.2	21-APR-94	21-APR-94
Toluene	18.5	ug/L	92 %	4.7	21-APR-94	21-APR-94
Chlorobenzene-602	18.6	ug/L	93 %	4.7	21-APR-94	21-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	107.	%			21-APR-94	21-APR-94
4-Bromofluorobenzene (8020)	90.0	%			21-APR-94	21-APR-94
-	-					
Comments:	None					

QUALITY CONTROL REPORT

In order to provide you with the means of assessing the quality of the data in our report, **D&M Laboratories** reports the results of Quality Control samples analyzed with your samples.

The Quality Control samples provide the following QC information:

The Method Blank (**MB**) monitors the level of contamination introduced by reagents or glassware. A minimum of one MB is run per batch of 20 samples or less.

The Method Blank Spike (**MBS**) measures the accuracy of analytical techniques and is not subject to matrix effects. A minimum of one MBS is run per batch of 20 samples or less.

The Matrix Spike (**MS**) measures the accuracy of the method for a matrix type. Due to the high variability within matrix types and the necessity of batching samples from varied sources, matrix spike information from one sample is not necessarily relevant to other samples on the batch. A minimum of two matrix spikes, MS and MSD, are run per batch of 20 samples or less. The sample selected for the matrix spike is designated **MX**, and may or may not have been submitted by the recipient of this report.

The Matrix Spike Duplicate (**MSD**), along with the MS, is used to monitor the precision (**RPD**) of the method and to indicate possible non homogeneity of the sample matrix.

Equations used for determining percent recovery and relative percent difference (RPD) are as follows:

MBS % Recovery = (MBS result / MBS spike level) x 100
MS % Recovery = [(MS result - MX result) / MS spike level] x 100
RPD ={ | MS result - MSD result | / [(MS result + MSD result) / 2]} x 100

We continue to strive to improve the quality of service to our clients. We welcome any questions or comments you may have about this information, or about **D&M Laboratories** in general. Please contact a Project Manager for further information.

L9404101

D&M LABORATORIES
3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 Fax: (707) 763-4065

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name Dames & Moore Phone (916) 387-8800
Address 8801 Folsom Blvd
City, State, Zip SAC, Ca 95826
Client's or Representative's Signature Jim Braue
(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO. 00173-080 044 | PROJECT NAME UP Sacramento
SAMPLERS (Signature) Greg Tomaldi

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	1601	608	REMARKS	LAB USE ONLY LAB NO.
TB-1	4-12-94	1345			Travel Blank	2	X	X		
MW-2		1336			MW-2	~~2~~ 3	X			
MW-43		1341			MW-43	4	X	X		
MW-40		1421			MW-42	4	X	X		

RECEIVED
APR 13 1994
D&M

SAMPLES RECEIVED IN GOOD CONDITION
NO BROKEN OR LEAKING CONTAINERS

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☒ N/A
COOLER TEMPERATURE 4.2°c °C
UP

13 VOA's - UPS RED

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
Greg Tomaldi	4.10.94	1700	UPS# 0197212933
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
			D Hamell
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)

General Remarks: Preserved w/ HCl to pH < 2

PART ONE - CLIENT COPY

D&M LABORATORIES
ENVIRONMENTAL AND INDUSTRIAL HYGIENE SERVICES

3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245
FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

May 3, 1994

Customer Project: 00173-080-044 UPRR Sacto
Laboratory Job: L9404108

On April 14, 1994 we received 10 sample(s) for analysis. Samples were analyzed by the following method(s):

Halogenated Volatile Organics (EPA 8010A)

Halog. & Aromatic Volatiles (EPA 8010A/8020A)

Project Manager

Laboratory Director
Robert Peak

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: TB-2
Lab Id: L9404108-1

Collected: 13-APR-94
Received: 14-APR-94
Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromodichloromethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromoform	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromomethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chloroethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Chloroform	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chloromethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Ethyl Benzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Methylene Chloride	ND	<	1.0	ug/L	21-APR-94	21-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Tetrachloroethene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Toluene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trichloroethene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Vinyl Chloride	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Xylenes (Total)	ND	<	0.50	ug/L	21-APR-94	21-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	104.	-		%	21-APR-94	21-APR-94
4-Bromofluorobenzene (8020)	91.0	-		%	21-APR-94	21-APR-94
-	-					
Comments:	None					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-11
Lab Id: L9404108-2

Collected: 13-APR-94
Received: 14-APR-94
Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010W						
Bromodichloromethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromoform	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromomethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chloroethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Chloroform	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chloromethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethane	2.4		0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethene	18.		0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethene (Total)	0.56		0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Methylene Chloride	ND	<	1.0	ug/L	21-APR-94	21-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Tetrachloroethene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trichloroethene	1.5		0.50	ug/L	21-APR-94	21-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Vinyl Chloride	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Surrogate:						
4-Bromofluorobenzene	96.0		-	%	21-APR-94	21-APR-94

Comments: None

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-33
Lab Id: L9404108-3

Collected: 13-APR-94
Received: 14-APR-94
Reported: 29-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
Bromoform	ND <	0.50	ug/L	21-APR-94	21-APR-94
Bromomethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
Carbon Tetrachloride	ND <	0.50	ug/L	21-APR-94	21-APR-94
Chlorobenzene	ND <	0.50	ug/L	21-APR-94	21-APR-94
Chloroethane	ND <	1.0	ug/L	21-APR-94	21-APR-94
Chloroform	ND <	0.50	ug/L	21-APR-94	21-APR-94
Chloromethane	ND <	1.0	ug/L	21-APR-94	21-APR-94
Dibromochloromethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethane	2.5	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethene	75.	5.0	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	21-APR-94	21-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	21-APR-94	21-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	21-APR-94	21-APR-94
Methylene Chloride	ND <	1.0	ug/L	21-APR-94	21-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
Tetrachloroethene	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,1,1-Trichloroethane	1.3	0.50	ug/L	21-APR-94	21-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
Trichloroethene	0.60	0.50	ug/L	21-APR-94	21-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	21-APR-94	21-APR-94
Vinyl Chloride	ND <	1.0	ug/L	21-APR-94	21-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	96.0	-	%	21-APR-94	21-APR-94
-	-				
Comments:	None				

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-13
Lab Id: L9404108-4

Collected: 13-APR-94
Received: 14-APR-94
Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	2200		50.	ug/L	22-APR-94	22-APR-94
Bromodichloromethane	ND	<	5.0	ug/L	22-APR-94	22-APR-94
Bromoform	ND	<	5.0	ug/L	22-APR-94	22-APR-94
Bromomethane	ND	<	10.	ug/L	22-APR-94	22-APR-94
Carbon Tetrachloride	ND	<	5.0	ug/L	22-APR-94	22-APR-94
Chlorobenzene	ND	<	5.0	ug/L	22-APR-94	22-APR-94
Chloroethane	ND	<	10.	ug/L	22-APR-94	22-APR-94
Chloroform	ND	<	5.0	ug/L	22-APR-94	22-APR-94
Chloromethane	ND	<	10.	ug/L	22-APR-94	22-APR-94
Dibromochloromethane	ND	<	5.0	ug/L	22-APR-94	22-APR-94
1,2-Dichlorobenzene	ND	<	5.0	ug/L	22-APR-94	22-APR-94
1,3-Dichlorobenzene	ND	<	5.0	ug/L	22-APR-94	22-APR-94
1,4-Dichlorobenzene	ND	<	5.0	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethane	40.		5.0	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethane	61.		5.0	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethene	140		5.0	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethene (Total)	ND	<	5.0	ug/L	22-APR-94	22-APR-94
1,2-Dichloropropane	ND	<	5.0	ug/L	22-APR-94	22-APR-94
Cis-1,3-Dichloropropene	ND	<	5.0	ug/L	22-APR-94	22-APR-94
Trans-1,3-Dichloropropene	ND	<	5.0	ug/L	22-APR-94	22-APR-94
Ethyl Benzene	130		5.0	ug/L	22-APR-94	22-APR-94
Methylene Chloride	ND	<	10.	ug/L	22-APR-94	22-APR-94
1,1,2,2-Tetrachloroethane	ND	<	5.0	ug/L	22-APR-94	22-APR-94
Tetrachloroethene	ND	<	5.0	ug/L	22-APR-94	22-APR-94
Toluene	67.		5.0	ug/L	22-APR-94	22-APR-94
1,1,1-Trichloroethane	ND	<	5.0	ug/L	22-APR-94	22-APR-94
1,1,2-Trichloroethane	ND	<	5.0	ug/L	22-APR-94	22-APR-94
Trichloroethene	22.		5.0	ug/L	22-APR-94	22-APR-94
Trichlorofluoromethane	ND	<	10.	ug/L	22-APR-94	22-APR-94
Vinyl Chloride	ND	<	10.	ug/L	22-APR-94	22-APR-94
Xylenes (Total)	79.		5.0	ug/L	22-APR-94	22-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	95.0		-	%	22-APR-94	22-APR-94
4-Bromofluorobenzene (8020)	82.0		-	%	22-APR-94	22-APR-94
-	-					
Comments:	None					

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-14
Lab Id: L9404108-5

Collected: 13-APR-94
Received: 14-APR-94
Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	0.63		0.50	ug/L	22-APR-94	22-APR-94
Bromodichloromethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Bromoform	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Bromomethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chloroethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Chloroform	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chloromethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethane	4.9		0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethene	44.		0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Ethyl Benzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Methylene Chloride	ND	<	1.0	ug/L	22-APR-94	22-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Tetrachloroethene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Toluene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1,1-Trichloroethane	0.58		0.50	ug/L	22-APR-94	22-APR-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Trichloroethene	7.8		0.50	ug/L	22-APR-94	22-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Vinyl Chloride	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Xylenes (Total)	ND	<	0.50	ug/L	22-APR-94	22-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	104.	-		%	22-APR-94	22-APR-94
4-Bromofluorobenzene (8020)	85.0	-		%	22-APR-94	22-APR-94
-	-					
Comments:	None					

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-41
Lab Id: L9404108-6

Collected: 13-APR-94
Received: 14-APR-94
Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010W						
Bromodichloromethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromoform	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromomethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chloroethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Chloroform	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chloromethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Methylene Chloride	ND	<	1.0	ug/L	21-APR-94	21-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Tetrachloroethene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trichloroethene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Vinyl Chloride	ND	<	1.0	ug/L	21-APR-94	21-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene	96.0		-	%	21-APR-94	21-APR-94
-	-					
Comments:	None					

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-141
Lab Id: L9404108-7

Collected: 13-APR-94
Received: 14-APR-94
Reported: 29-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
Bromoform	ND <	0.50	ug/L	21-APR-94	21-APR-94
Bromomethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
Carbon Tetrachloride	ND <	0.50	ug/L	21-APR-94	21-APR-94
Chlorobenzene	ND <	0.50	ug/L	21-APR-94	21-APR-94
Chloroethane	ND <	1.0	ug/L	21-APR-94	21-APR-94
Chloroform	ND <	0.50	ug/L	21-APR-94	21-APR-94
Chloromethane	ND <	1.0	ug/L	21-APR-94	21-APR-94
Dibromochloromethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethene	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	21-APR-94	21-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	21-APR-94	21-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	21-APR-94	21-APR-94
Methylene Chloride	ND <	1.0	ug/L	21-APR-94	21-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
Tetrachloroethene	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	21-APR-94	21-APR-94
Trichloroethene	ND <	0.50	ug/L	21-APR-94	21-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	21-APR-94	21-APR-94
Vinyl Chloride	ND <	1.0	ug/L	21-APR-94	21-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	92.0	-	%	21-APR-94	21-APR-94
-	-				
Comments:	None				

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-12
Lab Id: L9404108-8

Collected: 13-APR-94
Received: 14-APR-94
Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Bromodichloromethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Bromoform	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Bromomethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chloroethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Chloroform	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chloromethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethane	16.		0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethene	42.		5.0	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Ethyl Benzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Methylene Chloride	ND	<	1.0	ug/L	22-APR-94	22-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Tetrachloroethene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Toluene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Trichloroethene	2.1		0.50	ug/L	22-APR-94	22-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Vinyl Chloride	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Xylenes (Total)	ND	<	0.50	ug/L	22-APR-94	22-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	99.0	-		%	22-APR-94	22-APR-94
4-Bromofluorobenzene (8020)	83.0	-		%	22-APR-94	22-APR-94
-	-					
Comments:	None					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: FB-1
Lab Id: L9404108-9

Collected: 13-APR-94
Received: 14-APR-94
Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromodichloromethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromoform	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromomethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chloroethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Chloroform	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chloromethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Ethyl Benzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Methylene Chloride	ND	<	1.0	ug/L	21-APR-94	21-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Tetrachloroethene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Toluene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trichloroethene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Vinyl Chloride	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Xylenes (Total)	ND	<	0.50	ug/L	21-APR-94	21-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	99.0		-	%	21-APR-94	21-APR-94
4-Bromofluorobenzene (8020)	90.0		-	%	21-APR-94	21-APR-94
-	-					
Comments:	None					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: R8-1
Lab Id: L9404108-10

Collected: 13-APR-94
Received: 14-APR-94
Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromodichloromethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromoform	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Bromomethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chloroethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Chloroform	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Chloromethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Ethyl Benzene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Methylene Chloride	ND	<	1.0	ug/L	21-APR-94	21-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Tetrachloroethene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Toluene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trichloroethene	ND	<	0.50	ug/L	21-APR-94	21-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Vinyl Chloride	ND	<	1.0	ug/L	21-APR-94	21-APR-94
Xylenes (Total)	ND	<	0.50	ug/L	21-APR-94	21-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	100.	-		%	21-APR-94	21-APR-94
4-Bromofluorobenzene (8020)	90.0	-		%	21-APR-94	21-APR-94
-	-					
Comments:	None					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: Method Blank
Lab Id: WG4527-4

Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Bromodichloromethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Bromoform	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Bromomethane	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Chlorobenzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Chloroethane	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Chloroform	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Chloromethane	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,1-Dichloroethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloroethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,1-Dichloroethene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Ethyl Benzene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Methylene Chloride	ND	<	1.0	ug/L	20-APR-94	20-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Tetrachloroethene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Toluene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Trichloroethene	ND	<	0.50	ug/L	20-APR-94	20-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Vinyl Chloride	ND	<	1.0	ug/L	20-APR-94	20-APR-94
Xylenes (Total)	ND	<	0.50	ug/L	20-APR-94	20-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	101.	-		%	20-APR-94	20-APR-94
4-Bromofluorobenzene (8020)	94.0	-		%	20-APR-94	20-APR-94
-	-					
Comments:	None					

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Method Blank Spike
Lab Id: WG4527-5

Reported: 29-APR-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8010/8020W-QC							
1,1-Dichloroethene	23.4	ug/L	20	ug/L	117 %	20-APR-94	20-APR-94
Trichloroethene	22.9	ug/L	20	ug/L	114 %	20-APR-94	20-APR-94
Chlorobenzene-601	23.0	ug/L	20	ug/L	115 %	20-APR-94	20-APR-94
Benzene	18.8	ug/L	20	ug/L	94 %	20-APR-94	20-APR-94
Toluene	18.7	ug/L	20	ug/L	94 %	20-APR-94	20-APR-94
Chlorobenzene-602	18.8	ug/L	20	ug/L	94 %	20-APR-94	20-APR-94
-	-						
Surrogate:	-						
4-Bromofluorobenzene (8010)	112.	%				20-APR-94	20-APR-94
4-Bromofluorobenzene (8020)	95.0	%				20-APR-94	20-APR-94
-	-						
Comments:	None						

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: Method Blank
Lab Id: WG4527-6

Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Bromodichloromethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Bromoform	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Bromomethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chloroethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Chloroform	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chloromethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Ethyl Benzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Methylene Chloride	ND	<	1.0	ug/L	22-APR-94	22-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Tetrachloroethene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Toluene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Trichloroethene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Vinyl Chloride	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Xylenes (Total)	ND	<	0.50	ug/L	22-APR-94	22-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	97.0		-	%	22-APR-94	22-APR-94
4-Bromofluorobenzene (8020)	82.0		-	%	22-APR-94	22-APR-94
-	-					
Comments:	None					

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Method Blank Spike
Lab Id: WG4527-7

Reported: 02-MAY-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8010/8020W-QC							
1,1-Dichloroethene	23.6	ug/L	20	ug/L	118 %	22-APR-94	22-APR-94
Trichloroethene	22.5	ug/L	20	ug/L	112 %	22-APR-94	22-APR-94
Chlorobenzene-601	23.7	ug/L	20	ug/L	118 %	22-APR-94	22-APR-94
Benzene	17.6	ug/L	20	ug/L	88 %	22-APR-94	22-APR-94
Toluene	17.2	ug/L	20	ug/L	86 %	22-APR-94	22-APR-94
Chlorobenzene-602	17.3	ug/L	20	ug/L	86 %	22-APR-94	22-APR-94
-	-						
Surrogate:	-						
4-Bromofluorobenzene (8010)	106.	%				22-APR-94	22-APR-94
4-Bromofluorobenzene (8020)	84.0	%				22-APR-94	22-APR-94
-	-						
Comments:	None						

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: MX
Lab Id: WG4527-1

Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Bromodichloromethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Bromoform	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Bromomethane	ND	<	1.00	ug/L	21-APR-94	21-APR-94
Carbon Tetrachloride	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Chlorobenzene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Chloroethane	ND	<	1.00	ug/L	21-APR-94	21-APR-94
Chloroform	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Chloromethane	ND	<	1.00	ug/L	21-APR-94	21-APR-94
Dibromochloromethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,2-Dichlorobenzene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,3-Dichlorobenzene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,4-Dichlorobenzene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethene (Total)	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,2-Dichloropropane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Cis-1,3-Dichloropropene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Trans-1,3-Dichloropropene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Ethyl Benzene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Methylene Chloride	ND	<	1.00	ug/L	21-APR-94	21-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Tetrachloroethene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Toluene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,1,1-Trichloroethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,1,2-Trichloroethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Trichloroethene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Trichlorofluoromethane	ND	<	1.00	ug/L	21-APR-94	21-APR-94
Vinyl Chloride	ND	<	1.00	ug/L	21-APR-94	21-APR-94
Xylenes (Total)	ND	<	0.500	ug/L	21-APR-94	21-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	96.0		-	%	21-APR-94	21-APR-94
4-Bromofluorobenzene (8020)	88.0		-	%	21-APR-94	21-APR-94
-	-					
Comments:	MX=L9404108-6 (MW-41)					

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike
Lab Id: WG4527-2

Reported: 29-APR-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8010/8020W-QC							
1,1-Dichloroethene	25.0	ug/L	20	ug/L	125 %	21-APR-94	21-APR-94
Trichloroethene	25.1	ug/L	20	ug/L	126 %	21-APR-94	21-APR-94
Chlorobenzene-601	25.5	ug/L	20	ug/L	128 %	21-APR-94	21-APR-94
Benzene	19.7	ug/L	20	ug/L	98 %	21-APR-94	21-APR-94
Toluene	19.4	ug/L	20	ug/L	97 %	21-APR-94	21-APR-94
Chlorobenzene-602	19.5	ug/L	20	ug/L	97 %	21-APR-94	21-APR-94
-	-						
Surrogate:	-						
4-Bromofluorobenzene (8010)	104.	%				21-APR-94	21-APR-94
4-Bromofluorobenzene (8020)	88.0	%				21-APR-94	21-APR-94
-	-						
Comments:	None						

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike Dup
Lab Id: WG4527-3

Reported: 29-APR-94

Parameter	Value	Units	% Rec	RPD	Extracted	Analyzed
8010/8020W-QC						
1,1-Dichloroethene	24.8	ug/L	124 %	0.80	21-APR-94	21-APR-94
Trichloroethene	24.4	ug/L	122 %	2.8	21-APR-94	21-APR-94
Chlorobenzene-601	24.7	ug/L	124 %	3.2	21-APR-94	21-APR-94
Benzene	18.7	ug/L	94 %	5.2	21-APR-94	21-APR-94
Toluene	18.5	ug/L	92 %	4.7	21-APR-94	21-APR-94
Chlorobenzene-602	18.6	ug/L	93 %	4.7	21-APR-94	21-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	107.	%			21-APR-94	21-APR-94
4-Bromofluorobenzene (8020)	90.0	%			21-APR-94	21-APR-94
-	-					
Comments:	None					

QUALITY CONTROL REPORT

In order to provide you with the means of assessing the quality of the data in our report, **D&M Laboratories** reports the results of Quality Control samples analyzed with your samples.

The Quality Control samples provide the following QC information:

The Method Blank (**MB**) monitors the level of contamination introduced by reagents or glassware. A minimum of one MB is run per batch of 20 samples or less.

The Method Blank Spike (**MBS**) measures the accuracy of analytical techniques and is not subject to matrix effects. A minimum of one MBS is run per batch of 20 samples or less.

The Matrix Spike (**MS**) measures the accuracy of the method for a matrix type. Due to the high variability within matrix types and the necessity of batching samples from varied sources, matrix spike information from one sample is not necessarily relevant to other samples on the batch. A minimum of two matrix spikes, MS and MSD, are run per batch of 20 samples or less. The sample selected for the matrix spike is designated **MX**, and may or may not have been submitted by the recipient of this report.

The Matrix Spike Duplicate (**MSD**), along with the MS, is used to monitor the precision (**RPD**) of the method and to indicate possible non homogeneity of the sample matrix.

Equations used for determining percent recovery and relative percent difference (RPD) are as follows:

MBS % Recovery = (MBS result / MBS spike level) x 100
MS % Recovery = [(MS result - MX result) / MS spike level] x 100
RPD ={ | MS result - MSD result | / [(MS result + MSD result) / 2]} x 100

We continue to strive to improve the quality of service to our clients. We welcome any questions or comments you may have about this information, or about **D&M Laboratories** in general. Please contact a Project Manager for further information.

L9404108

D&M LABORATORIES
3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 Fax: (707) 763-4085

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name Dames & Moore Phone (916) 387-8800
Address 8801 Folsom Blvd
City, State, Zip SAC, Ca. 95826
Client's or Representative's Signature Jim Beake
(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO. 00173-080 044 | PROJECT NAME UP SACRAMENTO
SAMPLERS (Signature) Greg Jemald

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	601	602	REMARKS	LAB USE ONLY LAB NO.
TB-2	4-13-94	0745		✓	Travel Blank	2	X	X		
11		0835		✓	MW-11	3	X			
33		0906		✓	MW-33	3	X			
13		1005		✓	MW-13	4	X	X		
14		1058		✓	MW-14	~~3~~ 4	X	X		
41		1209		✓	MW-41	~~3~~ 4	X			
141		1215		✓	MW-141	3	X			
12		1312		✓	MW-12	4	X	X		
FB-1		1325		✓	Field blank	4	X	X		
RB-1		1340		✓	Rinse Blank	4	X	X		

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐ N/A
COOLER TEMPERATURE _____ °C

RECEIVED
APR 14 1994

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
Greg Jemald	4-13-94	1700	UPS# 0197 2121 9
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
			K. Powell
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)

General Remarks: 601/602 Samples preserved w/ HCl to pH<2

PART ONE - CLIENT COPY

D&M LABORATORIES
ENVIRONMENTAL AND INDUSTRIAL HYGIENE SERVICES

3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245
FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

May 3, 1994

Customer Project: 00173-080-044 UPRR Sacto
Laboratory Job: L9404127

On April 15, 1994 we received 6 sample(s) for analysis. Samples were analyzed by the following method(s):

Halogenated Volatile Organics (EPA 8010A)

Project Manager

Laboratory Director
Robert Peak

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: TRAVEL BLANK
Lab Id: L9404127-1

Collected: 14-APR-94
Received: 15-APR-94
Reported: 29-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Bromoform	ND <	0.50	ug/L	22-APR-94	22-APR-94
Bromomethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Carbon Tetrachloride	ND <	0.50	ug/L	22-APR-94	22-APR-94
Chlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Chloroethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Chloroform	ND <	0.50	ug/L	22-APR-94	22-APR-94
Chloromethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Dibromochloromethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Methylene Chloride	ND <	1.0	ug/L	22-APR-94	22-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Tetrachloroethene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trichloroethene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Vinyl Chloride	ND <	1.0	ug/L	22-APR-94	22-APR-94
Surrogate:					
4-Bromofluorobenzene	107.	-	%	22-APR-94	22-APR-94

Comments: None

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-16
Lab Id: L9404127-2

Collected: 14-APR-94
Received: 15-APR-94
Reported: 29-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Bromoform	ND <	0.50	ug/L	22-APR-94	22-APR-94
Bromomethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Carbon Tetrachloride	ND <	0.50	ug/L	22-APR-94	22-APR-94
Chlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Chloroethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Chloroform	ND <	0.50	ug/L	22-APR-94	22-APR-94
Chloromethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Dibromochloromethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Methylene Chloride	ND <	1.0	ug/L	22-APR-94	22-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Tetrachloroethene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trichloroethene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Vinyl Chloride	ND <	1.0	ug/L	22-APR-94	22-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	102.	-	%	22-APR-94	22-APR-94
-	-				
Comments:	None				

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-18
Lab Id: L9404127-3

Collected: 14-APR-94
Received: 15-APR-94
Reported: 29-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Bromoform	ND <	0.50	ug/L	22-APR-94	22-APR-94
Bromomethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Carbon Tetrachloride	ND <	0.50	ug/L	22-APR-94	22-APR-94
Chlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Chloroethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Chloroform	ND <	0.50	ug/L	22-APR-94	22-APR-94
Chloromethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Dibromochloromethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethene	3.7	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Methylene Chloride	ND <	1.0	ug/L	22-APR-94	22-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Tetrachloroethene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trichloroethene	0.52	0.50	ug/L	22-APR-94	22-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Vinyl Chloride	ND <	1.0	ug/L	22-APR-94	22-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	99.0	-	%	22-APR-94	22-APR-94
-	-				
Comments:	None				

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-26
Lab Id: L9404127-4

Collected: 14-APR-94
Received: 15-APR-94
Reported: 29-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Bromoform	ND <	0.50	ug/L	22-APR-94	22-APR-94
Bromomethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Carbon Tetrachloride	ND <	0.50	ug/L	22-APR-94	22-APR-94
Chlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Chloroethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Chloroform	2.4	0.50	ug/L	22-APR-94	22-APR-94
Chloromethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Dibromochloromethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethane	10.	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethene	16.	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethene (Total)	0.76	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Methylene Chloride	ND <	1.0	ug/L	22-APR-94	22-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Tetrachloroethene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1,1-Trichloroethane	1.9	0.50	ug/L	22-APR-94	22-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trichloroethene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Vinyl Chloride	ND <	1.0	ug/L	22-APR-94	22-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	103.	-	%	22-APR-94	22-APR-94
-	-				
Comments:	None				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-7
Lab Id: L9404127-5

Collected: 14-APR-94
Received: 15-APR-94
Reported: 29-APR-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Bromoform	ND <	0.50	ug/L	22-APR-94	22-APR-94
Bromomethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Carbon Tetrachloride	ND <	0.50	ug/L	22-APR-94	22-APR-94
Chlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Chloroethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Chloroform	2.4	0.50	ug/L	22-APR-94	22-APR-94
Chloromethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Dibromochloromethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethane	0.59	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethene	3.7	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Methylene Chloride	ND <	1.0	ug/L	22-APR-94	22-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Tetrachloroethene	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trichloroethene	ND <	0.50	ug/L	22-APR-94	22-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	22-APR-94	22-APR-94
Vinyl Chloride	ND <	1.0	ug/L	22-APR-94	22-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	90.0	-	%	22-APR-94	22-APR-94
-	-				
Comments:	None				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-20
Lab Id: L9404127-6

Collected: 14-APR-94
Received: 15-APR-94
Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010W						
Bromodichloromethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Bromoform	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Bromomethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chloroethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Chloroform	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chloromethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Methylene Chloride	ND	<	1.0	ug/L	22-APR-94	22-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Tetrachloroethene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Trichloroethene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Vinyl Chloride	ND	<	1.0	ug/L	22-APR-94	22-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene	96.0		-	%	22-APR-94	22-APR-94
-	-					
Comments:	None					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: Method Blank
Lab Id: WG4527-6

Reported: 02-MAY-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Bromodichloromethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Bromoform	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Bromomethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Carbon Tetrachloride	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chloroethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Chloroform	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Chloromethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Dibromochloromethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1-Dichloroethene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,2-Dichloropropane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Ethyl Benzene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Methylene Chloride	ND	<	1.0	ug/L	22-APR-94	22-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Tetrachloroethene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Toluene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Trichloroethene	ND	<	0.50	ug/L	22-APR-94	22-APR-94
Trichlorofluoromethane	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Vinyl Chloride	ND	<	1.0	ug/L	22-APR-94	22-APR-94
Xylenes (Total)	ND	<	0.50	ug/L	22-APR-94	22-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	97.0		-	%	22-APR-94	22-APR-94
4-Bromofluorobenzene (8020)	82.0		-	%	22-APR-94	22-APR-94
-	-					
Comments:	None					

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Method Blank Spike
Lab Id: WG4527-7

Reported: 02-MAY-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8010/8020W-QC							
1,1-Dichloroethene	23.6	ug/L	20	ug/L	118 %	22-APR-94	22-APR-94
Trichloroethene	22.5	ug/L	20	ug/L	112 %	22-APR-94	22-APR-94
Chlorobenzene-601	23.7	ug/L	20	ug/L	118 %	22-APR-94	22-APR-94
Benzene	17.6	ug/L	20	ug/L	88 %	22-APR-94	22-APR-94
Toluene	17.2	ug/L	20	ug/L	86 %	22-APR-94	22-APR-94
Chlorobenzene-602	17.3	ug/L	20	ug/L	86 %	22-APR-94	22-APR-94
-	-						
Surrogate:	-						
4-Bromofluorobenzene (8010)	106.	%				22-APR-94	22-APR-94
4-Bromofluorobenzene (8020)	84.0	%				22-APR-94	22-APR-94
-	-						
Comments:	None						

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: MX
Lab Id: WG4527-1

Reported: 29-APR-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Bromodichloromethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Bromoform	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Bromomethane	ND	<	1.00	ug/L	21-APR-94	21-APR-94
Carbon Tetrachloride	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Chlorobenzene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Chloroethane	ND	<	1.00	ug/L	21-APR-94	21-APR-94
Chloroform	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Chloromethane	ND	<	1.00	ug/L	21-APR-94	21-APR-94
Dibromochloromethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,2-Dichlorobenzene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,3-Dichlorobenzene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,4-Dichlorobenzene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,1-Dichloroethene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,2-Dichloroethene (Total)	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,2-Dichloropropane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Cis-1,3-Dichloropropene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Trans-1,3-Dichloropropene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Ethyl Benzene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Methylene Chloride	ND	<	1.00	ug/L	21-APR-94	21-APR-94
1,1,2,2-Tetrachloroethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Tetrachloroethene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Toluene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,1,1-Trichloroethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
1,1,2-Trichloroethane	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Trichloroethene	ND	<	0.500	ug/L	21-APR-94	21-APR-94
Trichlorofluoromethane	ND	<	1.00	ug/L	21-APR-94	21-APR-94
Vinyl Chloride	ND	<	1.00	ug/L	21-APR-94	21-APR-94
Xylenes (Total)	ND	<	0.500	ug/L	21-APR-94	21-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	96.0	-		%	21-APR-94	21-APR-94
4-Bromofluorobenzene (8020)	88.0	-		%	21-APR-94	21-APR-94
-	-					
Comments:	MX=L9404108-6 (MW-41)					

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike
Lab Id: WG4527-2

Reported: 02-MAY-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8010/8020W-QC							
1,1-Dichloroethene	25.0	ug/L	20	ug/L	125 %	21-APR-94	21-APR-94
Trichloroethene	25.1	ug/L	20	ug/L	126 %	21-APR-94	21-APR-94
Chlorobenzene-601	25.5	ug/L	20	ug/L	128 %	21-APR-94	21-APR-94
Benzene	19.7	ug/L	20	ug/L	98 %	21-APR-94	21-APR-94
Toluene	19.4	ug/L	20	ug/L	97 %	21-APR-94	21-APR-94
Chlorobenzene-602	19.5	ug/L	20	ug/L	97 %	21-APR-94	21-APR-94
-	-						
Surrogate:	-						
4-Bromofluorobenzene (8010)	104.	%				21-APR-94	21-APR-94
4-Bromofluorobenzene (8020)	88.0	%				21-APR-94	21-APR-94
-	-						
Comments:	None						

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike Dup
Lab Id: WG4527-3

Reported: 29-APR-94

Parameter	Value	Units	% Rec	RPD	Extracted	Analyzed
8010/8020W-QC						
1,1-Dichloroethene	24.8	ug/L	124 %	0.80	21-APR-94	21-APR-94
Trichloroethene	24.4	ug/L	122 %	2.8	21-APR-94	21-APR-94
Chlorobenzene-601	24.7	ug/L	124 %	3.2	21-APR-94	21-APR-94
Benzene	18.7	ug/L	94 %	5.2	21-APR-94	21-APR-94
Toluene	18.5	ug/L	92 %	4.7	21-APR-94	21-APR-94
Chlorobenzene-602	18.6	ug/L	93 %	4.7	21-APR-94	21-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	107.	%			21-APR-94	21-APR-94
4-Bromofluorobenzene (8020)	90.0	%			21-APR-94	21-APR-94
-	-					
Comments:	None					

QUALITY CONTROL REPORT

In order to provide you with the means of assessing the quality of the data in our report, **D&M Laboratories** reports the results of Quality Control samples analyzed with your samples.

The Quality Control samples provide the following QC information:

The Method Blank (**MB**) monitors the level of contamination introduced by reagents or glassware. A minimum of one MB is run per batch of 20 samples or less.

The Method Blank Spike (**MBS**) measures the accuracy of analytical techniques and is not subject to matrix effects. A minimum of one MBS is run per batch of 20 samples or less.

The Matrix Spike (**MS**) measures the accuracy of the method for a matrix type. Due to the high variability within matrix types and the necessity of batching samples from varied sources, matrix spike information from one sample is not necessarily relevant to other samples on the batch. A minimum of two matrix spikes, MS and MSD, are run per batch of 20 samples or less. The sample selected for the matrix spike is designated **MX**, and may or may not have been submitted by the recipient of this report.

The Matrix Spike Duplicate (**MSD**), along with the MS, is used to monitor the precision (**RPD**) of the method and to indicate possible non homogeneity of the sample matrix.

Equations used for determining percent recovery and relative percent difference (RPD) are as follows:

MBS % Recovery = (MBS result / MBS spike level) x 100
MS % Recovery = [(MS result - MX result) / MS spike level] x 100
RPD ={ | MS result - MSD result | / [(MS result + MSD result) / 2]} x 100

We continue to strive to improve the quality of service to our clients. We welcome any questions or comments you may have about this information, or about **D&M Laboratories** in general. Please contact a Project Manager for further information.

L 9404127

3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 Fax: (707) 763-4085

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name Dames & Moore Phone (916) 387-8800
Address 8801 FOLSOM BLVD
City, State, Zip SAC, Ca 95826
Client's or Representative's Signature Jim Beale
(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO. 00173-080 044 | PROJECT NAME UP SACRAMENTO
SAMPLERS (Signature) Greg Gerrald

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CON-TAINERS	601	REMARKS / LAB USE ONLY LAB NO.
TB-3	4-14-91	0745			Travel Blank	1	X	
16	"	0910			MW-16	3	X	
18	"	0945			MW-18	3	X	
26	"	1042			MW-26	3	X	
7	"	1122			MW-7	3	X	
20	"	1200			MW-20	3	X	

SAMPLES RECEIVED IN GOOD CONDITION
NO BROKEN OR LEAKING CONTAINERS

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐ N/A
COOLER TEMPERATURE COLD °C

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
Greg Gerrald	4-14-91	1500	UPS # 097-2121-89
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)

General Remarks:
Samples preserved w/ HCl to pH<2
16 VOAS - UPS Red.

DAMES & MOORE RECEIVED APR 15 1991

PART ONE - CLIENT COPY

D&M LABORATORIES
ENVIRONMENTAL AND INDUSTRIAL HYGIENE SERVICES

3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245
FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

May 3, 1994

Customer Project: 00173-080-044 UPRR Sacto
Laboratory Job: L9404149

On April 18, 1994 we received 5 sample(s) for analysis. Samples were analyzed by the following method(s):

Halogenated Volatile Organics (EPA 8010A)

Project Manager

Laboratory Director
Robert Peak

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: TRAVEL BLANK-4
Lab Id: L9404149-1

Collected: 15-APR-94
Received: 18-APR-94
Reported: 02-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
Bromoform	ND <	0.50	ug/L	25-APR-94	25-APR-94
Bromomethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
Carbon Tetrachloride	ND <	0.50	ug/L	25-APR-94	25-APR-94
Chlorobenzene	ND <	0.50	ug/L	25-APR-94	25-APR-94
Chloroethane	ND <	1.0	ug/L	25-APR-94	25-APR-94
Chloroform	ND <	0.50	ug/L	25-APR-94	25-APR-94
Chloromethane	ND <	1.0	ug/L	25-APR-94	25-APR-94
Dibromochloromethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,1-Dichloroethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,2-Dichloroethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,1-Dichloroethene	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	25-APR-94	25-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	25-APR-94	25-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	25-APR-94	25-APR-94
Methylene Chloride	ND <	1.0	ug/L	25-APR-94	25-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
Tetrachloroethene	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
Trichloroethene	ND <	0.50	ug/L	25-APR-94	25-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	25-APR-94	25-APR-94
Vinyl Chloride	ND <	1.0	ug/L	25-APR-94	25-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	113.	-	%	25-APR-94	25-APR-94
-	-				
Comments:	None				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-44
Lab Id: L9404149-2

Collected: 15-APR-94
Received: 18-APR-94
Reported: 02-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Bromoform	ND <	0.50	ug/L	26-APR-94	26-APR-94
Bromomethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Carbon Tetrachloride	6.1	0.50	ug/L	26-APR-94	26-APR-94
Chlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Chloroethane	ND <	1.0	ug/L	26-APR-94	26-APR-94
Chloroform	4.4	0.50	ug/L	26-APR-94	26-APR-94
Chloromethane	ND <	1.0	ug/L	26-APR-94	26-APR-94
Dibromochloromethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,1-Dichloroethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichloroethane	2.5	0.50	ug/L	26-APR-94	26-APR-94
1,1-Dichloroethene	1.1	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Methylene Chloride	ND <	1.0	ug/L	26-APR-94	26-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Tetrachloroethene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Trichloroethene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	26-APR-94	26-APR-94
Vinyl Chloride	ND <	1.0	ug/L	26-APR-94	26-APR-94
Surrogate:					
4-Bromofluorobenzene	109.	-	%	26-APR-94	26-APR-94

Comments: None

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-144
Lab Id: L9404149-3

Collected: 15-APR-94
Received: 18-APR-94
Reported: 02-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Bromoform	ND <	0.50	ug/L	26-APR-94	26-APR-94
Bromomethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Carbon Tetrachloride	5.8	0.50	ug/L	26-APR-94	26-APR-94
Chlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Chloroethane	ND <	1.0	ug/L	26-APR-94	26-APR-94
Chloroform	4.3	0.50	ug/L	26-APR-94	26-APR-94
Chloromethane	ND <	1.0	ug/L	26-APR-94	26-APR-94
Dibromochloromethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,1-Dichloroethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichloroethane	2.1	0.50	ug/L	26-APR-94	26-APR-94
1,1-Dichloroethene	1.0	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Methylene Chloride	ND <	1.0	ug/L	26-APR-94	26-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Tetrachloroethene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Trichloroethene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	26-APR-94	26-APR-94
Vinyl Chloride	ND <	1.0	ug/L	26-APR-94	26-APR-94
Surrogate:					
4-Bromofluorobenzene	116.	-	%	26-APR-94	26-APR-94

Comments: None

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-38
Lab Id: L9404149-4

Collected: 15-APR-94
Received: 18-APR-94
Reported: 02-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Bromoform	ND <	0.50	ug/L	26-APR-94	26-APR-94
Bromomethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Carbon Tetrachloride	0.85	0.50	ug/L	26-APR-94	26-APR-94
Chlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Chloroethane	ND <	1.0	ug/L	26-APR-94	26-APR-94
Chloroform	2.1	0.50	ug/L	26-APR-94	26-APR-94
Chloromethane	ND <	1.0	ug/L	26-APR-94	26-APR-94
Dibromochloromethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,1-Dichloroethane	6.6	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichloroethane	0.89	0.50	ug/L	26-APR-94	26-APR-94
1,1-Dichloroethene	130	5.0	ug/L	26-APR-94	26-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Methylene Chloride	ND <	1.0	ug/L	26-APR-94	26-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Tetrachloroethene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,1,1-Trichloroethane	6.2	0.50	ug/L	26-APR-94	26-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Trichloroethene	7.7	0.50	ug/L	26-APR-94	26-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	26-APR-94	26-APR-94
Vinyl Chloride	ND <	1.0	ug/L	26-APR-94	26-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	123.	-	%	26-APR-94	26-APR-94
-	-				
Comments:	None				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-39
Lab Id: L9404149-5

Collected: 15-APR-94
Received: 18-APR-94
Reported: 02-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Bromoform	ND <	0.50	ug/L	26-APR-94	26-APR-94
Bromomethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Carbon Tetrachloride	1.8	0.50	ug/L	26-APR-94	26-APR-94
Chlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Chloroethane	ND <	1.0	ug/L	26-APR-94	26-APR-94
Chloroform	2.6	0.50	ug/L	26-APR-94	26-APR-94
Chloromethane	ND <	1.0	ug/L	26-APR-94	26-APR-94
Dibromochloromethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,1-Dichloroethane	2.8	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichloroethane	1.2	0.50	ug/L	26-APR-94	26-APR-94
1,1-Dichloroethene	34.	5.0	ug/L	26-APR-94	26-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	26-APR-94	26-APR-94
Methylene Chloride	ND <	1.0	ug/L	26-APR-94	26-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Tetrachloroethene	ND <	0.50	ug/L	26-APR-94	26-APR-94
1,1,1-Trichloroethane	2.5	0.50	ug/L	26-APR-94	26-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	26-APR-94	26-APR-94
Trichloroethene	1.4	0.50	ug/L	26-APR-94	26-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	26-APR-94	26-APR-94
Vinyl Chloride	ND <	1.0	ug/L	26-APR-94	26-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	119.	-	%	26-APR-94	26-APR-94
-	-				
Comments:	None				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: Method Blank
Lab Id: WG4573-4

Reported: 02-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
Bromoform	ND <	0.50	ug/L	25-APR-94	25-APR-94
Bromomethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
Carbon Tetrachloride	ND <	0.50	ug/L	25-APR-94	25-APR-94
Chlorobenzene	ND <	0.50	ug/L	25-APR-94	25-APR-94
Chloroethane	ND <	1.0	ug/L	25-APR-94	25-APR-94
Chloroform	ND <	0.50	ug/L	25-APR-94	25-APR-94
Chloromethane	ND <	1.0	ug/L	25-APR-94	25-APR-94
Dibromochloromethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,1-Dichloroethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,2-Dichloroethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,1-Dichloroethene	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,2-Dichloropropane	ND <	0.50	ug/L	25-APR-94	25-APR-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	25-APR-94	25-APR-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	25-APR-94	25-APR-94
Methylene Chloride	ND <	1.0	ug/L	25-APR-94	25-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
Tetrachloroethene	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	25-APR-94	25-APR-94
Trichloroethene	ND <	0.50	ug/L	25-APR-94	25-APR-94
Trichlorofluoromethane	ND <	1.0	ug/L	25-APR-94	25-APR-94
Vinyl Chloride	ND <	1.0	ug/L	25-APR-94	25-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	105.	-	%	25-APR-94	25-APR-94
-	-				
Comments:	None				

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Method Blank Spike
Lab Id: WG4573-5

Reported: 02-MAY-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8010W-QC							
1,1-Dichloroethene	22.9	ug/L	20	ug/L	114 %	25-APR-94	25-APR-94
Trichloroethene	23.1	ug/L	20	ug/L	116 %	25-APR-94	25-APR-94
Chlorobenzene	21.7	ug/L	20	ug/L	108 %	25-APR-94	25-APR-94
Surrogate:							
4-Bromofluorobenzene	111.	%				25-APR-94	25-APR-94
Comments:							

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: MX
Lab Id: WG4573-1

Reported: 02-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.500	ug/L	26-APR-94	26-APR-94
Bromoform	ND <	0.500	ug/L	26-APR-94	26-APR-94
Bromomethane	ND <	0.500	ug/L	26-APR-94	26-APR-94
Carbon Tetrachloride	5.8	0.500	ug/L	26-APR-94	26-APR-94
Chlorobenzene	ND <	0.500	ug/L	26-APR-94	26-APR-94
Chloroethane	ND <	1.00	ug/L	26-APR-94	26-APR-94
Chloroform	4.3	0.500	ug/L	26-APR-94	26-APR-94
Chloromethane	ND <	1.00	ug/L	26-APR-94	26-APR-94
Dibromochloromethane	ND <	0.500	ug/L	26-APR-94	26-APR-94
1,2-Dichlorobenzene	ND <	0.500	ug/L	26-APR-94	26-APR-94
1,3-Dichlorobenzene	ND <	0.500	ug/L	26-APR-94	26-APR-94
1,4-Dichlorobenzene	ND <	0.500	ug/L	26-APR-94	26-APR-94
1,1-Dichloroethane	ND <	0.500	ug/L	26-APR-94	26-APR-94
1,2-Dichloroethane	2.1	0.500	ug/L	26-APR-94	26-APR-94
1,1-Dichloroethene	1.0	0.500	ug/L	26-APR-94	26-APR-94
1,2-Dichloroethene (Total)	ND <	0.500	ug/L	26-APR-94	26-APR-94
1,2-Dichloropropane	ND <	0.500	ug/L	26-APR-94	26-APR-94
Cis-1,3-Dichloropropene	ND <	0.500	ug/L	26-APR-94	26-APR-94
Trans-1,3-Dichloropropene	ND <	0.500	ug/L	26-APR-94	26-APR-94
Methylene Chloride	ND <	1.00	ug/L	26-APR-94	26-APR-94
1,1,2,2-Tetrachloroethane	ND <	0.500	ug/L	26-APR-94	26-APR-94
Tetrachloroethene	ND <	0.500	ug/L	26-APR-94	26-APR-94
1,1,1-Trichloroethane	ND <	0.500	ug/L	26-APR-94	26-APR-94
1,1,2-Trichloroethane	ND <	0.500	ug/L	26-APR-94	26-APR-94
Trichloroethene	ND <	0.500	ug/L	26-APR-94	26-APR-94
Trichlorofluoromethane	ND <	1.00	ug/L	26-APR-94	26-APR-94
Vinyl Chloride	ND <	1.00	ug/L	26-APR-94	26-APR-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	116.	-	%	26-APR-94	26-APR-94
-	-				
Comments:	MX=L9404149-3 (MW-144)				

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike
Lab Id: WG4573-2

Reported: 02-MAY-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8010W-QC							
1,1-Dichloroethene	23.6	ug/L	20	ug/L	113 %	26-APR-94	26-APR-94
Trichloroethene	23.2	ug/L	20	ug/L	116 %	26-APR-94	26-APR-94
Chlorobenzene	23.0	ug/L	20	ug/L	115 %	26-APR-94	26-APR-94
Surrogate:							
4-Bromofluorobenzene	114.	%				26-APR-94	26-APR-94
Comments:							

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike Dup
Lab Id: WG4573-3

Reported: 02-MAY-94

Parameter	Value	Units	% Rec	RPD	Extracted	Analyzed
8010W-QC						
1,1-Dichloroethene	23.8	ug/L	114 %	0.80	26-APR-94	26-APR-94
Trichloroethene	23.1	ug/L	116 %	0.40	26-APR-94	26-APR-94
Chlorobenzene	22.9	ug/L	114 %	0.40	26-APR-94	26-APR-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene	115.	%			26-APR-94	26-APR-94
-	-					
Comments:	-					

QUALITY CONTROL REPORT

In order to provide you with the means of assessing the quality of the data in our report, **D&M Laboratories** reports the results of Quality Control samples analyzed with your samples.

The Quality Control samples provide the following QC information:

The Method Blank (**MB**) monitors the level of contamination introduced by reagents or glassware. A minimum of one MB is run per batch of 20 samples or less.

The Method Blank Spike (**MBS**) measures the accuracy of analytical techniques and is not subject to matrix effects. A minimum of one MBS is run per batch of 20 samples or less.

The Matrix Spike (**MS**) measures the accuracy of the method for a matrix type. Due to the high variability within matrix types and the necessity of batching samples from varied sources, matrix spike information from one sample is not necessarily relevant to other samples on the batch. A minimum of two matrix spikes, MS and MSD, are run per batch of 20 samples or less. The sample selected for the matrix spike is designated **MX**, and may or may not have been submitted by the recipient of this report.

The Matrix Spike Duplicate (**MSD**), along with the MS, is used to monitor the precision (**RPD**) of the method and to indicate possible non homogeneity of the sample matrix.

Equations used for determining percent recovery and relative percent difference (RPD) are as follows:

MBS % Recovery = (MBS result / MBS spike level) x 100
MS % Recovery = [(MS result - MX result) / MS spike level] x 100
RPD ={ | MS result - MSD result | / [(MS result + MSD result) / 2]} x 100

We continue to strive to improve the quality of service to our clients. We welcome any questions or comments you may have about this information, or about **D&M Laboratories** in general. Please contact a Project Manager for further information.

L 9404127

D&M LABORATORIES
3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 Fax: (707) 763-4085

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name Dames & Moore Phone (916) 387-8800
Address 8801 FOLSOM BLVD
City, State, Zip SAC, Ca 95826
Client's or Representative's Signature Jim Beale
(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO. 00173-080 044 | PROJECT NAME UP SACRAMENTO
SAMPLERS (Signature) Greg Demald

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	REMARKS	LAB USE ONLY LAB NO.
TB-3	4-14-94	0745			Travel Blank	1	X		
16		0910			MW-16	3	X		
18		0945			MW-18	3	X		
26		1042			MW-26	3	X		
7		1122			MW-7	3	X		
20	↓	1200			MW-20	3	X		

SAMPLES RECEIVED IN GOOD CONDITION
NO BROKEN OR LEAKING CONTAINERS

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐ N/A
COOLER TEMPERATURE COLD °C

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
Greg Demald	4-14-94	1600	UPS# 097-262-884
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)

General Remarks:
Samples preserved w/ HCl to pH<2
16 VOAS - UPS Red.

PART ONE - CLIENT COPY

D&M LABORATORIES
ENVIRONMENTAL AND INDUSTRIAL HYGIENE SERVICES

3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245
FAX (707) 763-4065

Jim Brake
Dames & Moore-Sacramento
8801 Folsom Blvd - Suite 200
Sacramento, CA 95826

May 9, 1994

Customer Project: 00173-080-044 UPRR Sacto
Laboratory Job: L9404261

On April 27, 1994 we received 9 sample(s) for analysis. Samples were analyzed by the following method(s):

Halogenated Volatile Organics (EPA 8010A)

Halog. & Aromatic Volatiles (EPA 8010A/8020A)

Project Manager

Laboratory Director
Robert Peak

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: TB-6
Lab Id: L9404261-1

Collected: 26-APR-94
Received: 27-APR-94
Reported: 06-MAY-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Bromodichloromethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Bromoform	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Bromomethane	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Carbon Tetrachloride	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Chlorobenzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Chloroethane	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Chloroform	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Chloromethane	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Dibromochloromethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloropropane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Ethyl Benzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Methylene Chloride	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Tetrachloroethene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Toluene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Trichloroethene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Trichlorofluoromethane	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Vinyl Chloride	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Xylenes (Total)	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	89.0		-	%	04-MAY-94	04-MAY-94
4-Bromofluorobenzene (8020)	99.0		-	%	04-MAY-94	04-MAY-94
-	-					
Comments:	None					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: FB-3
Lab Id: L9404261-2

Collected: 26-APR-94
Received: 27-APR-94
Reported: 06-MAY-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Bromodichloromethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Bromoform	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Bromomethane	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Carbon Tetrachloride	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Chlorobenzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Chloroethane	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Chloroform	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Chloromethane	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Dibromochloromethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloropropane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Ethyl Benzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Methylene Chloride	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Tetrachloroethene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Toluene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Trichloroethene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Trichlorofluoromethane	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Vinyl Chloride	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Xylenes (Total)	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	85.0	-		%	04-MAY-94	04-MAY-94
4-Bromofluorobenzene (8020)	90.0	-		%	04-MAY-94	04-MAY-94
-	-					
Comments:	None					

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: RB-3
Lab Id: L9404261-3

Collected: 26-APR-94
Received: 27-APR-94
Reported: 06-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010/8020W					
Benzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromodichloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromoform	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromomethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Carbon Tetrachloride	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chloroethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Chloroform	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chloromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Dibromochloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloropropane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Ethyl Benzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Methylene Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Tetrachloroethene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Toluene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trichloroethene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trichlorofluoromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Vinyl Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Xylenes (Total)	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene (8010)	106.	-	%	04-MAY-94	04-MAY-94
4-Bromofluorobenzene (8020)	109.	-	%	04-MAY-94	04-MAY-94
-	-				
Comments:	None				

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-37
Lab Id: L9404261-4

Collected: 26-APR-94
Received: 27-APR-94
Reported: 06-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromoform	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromomethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Carbon Tetrachloride	0.55	0.50	ug/L	04-MAY-94	04-MAY-94
Chlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chloroethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Chloroform	2.5	0.50	ug/L	04-MAY-94	04-MAY-94
Chloromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Dibromochloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethane	3.1	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethane	7.7	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethene	20.	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloropropane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Methylene Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Tetrachloroethene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trichloroethene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trichlorofluoromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Vinyl Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	94.0	-	%	04-MAY-94	04-MAY-94
-	-				
Comments:	None				

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-137
Lab Id: L9404261-5

Collected: 26-APR-94
Received: 27-APR-94
Reported: 06-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromoform	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromomethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Carbon Tetrachloride	0.58	0.50	ug/L	04-MAY-94	04-MAY-94
Chlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chloroethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Chloroform	2.4	0.50	ug/L	04-MAY-94	04-MAY-94
Chloromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Dibromochloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethane	3.0	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethane	7.4	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethene	20.	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloropropane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Methylene Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Tetrachloroethene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trichloroethene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trichlorofluoromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Vinyl Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	101.	-	%	04-MAY-94	04-MAY-94
-	-				
Comments:	None				

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-36
Lab Id: L9404261-6

Collected: 26-APR-94
Received: 27-APR-94
Reported: 06-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromoform	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromomethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Carbon Tetrachloride	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chloroethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Chloroform	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chloromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Dibromochloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethane	2.0	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethene	76.	5.0	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloropropane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Methylene Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Tetrachloroethene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,1-Trichloroethane	1.2	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trichloroethene	4.5	0.50	ug/L	04-MAY-94	04-MAY-94
Trichlorofluoromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Vinyl Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	95.0	-	%	04-MAY-94	04-MAY-94
-	-				
Comments:	None				

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-31
Lab Id: L9404261-7

Collected: 26-APR-94
Received: 27-APR-94
Reported: 06-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010/8020W					
Benzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromodichloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromoform	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromomethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Carbon Tetrachloride	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chloroethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Chloroform	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chloromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Dibromochloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethane	2.5	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethene	53.	5.0	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloropropane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Ethyl Benzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Methylene Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Tetrachloroethene	0.89	0.50	ug/L	04-MAY-94	04-MAY-94
Toluene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,1-Trichloroethane	0.65	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trichloroethene	11.	0.50	ug/L	04-MAY-94	04-MAY-94
Trichlorofluoromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Vinyl Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Xylenes (Total)	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene (8010)	99.0	-	%	04-MAY-94	04-MAY-94
4-Bromofluorobenzene (8020)	100.	-	%	04-MAY-94	04-MAY-94
-	-				
Comments:	None				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-35
Lab Id: L9404261-8

Collected: 26-APR-94
Received: 27-APR-94
Reported: 06-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromoform	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromomethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Carbon Tetrachloride	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chloroethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Chloroform	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chloromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Dibromochloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethene	10.	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloropropane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Methylene Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Tetrachloroethene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,1-Trichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trichloroethene	2.2	0.50	ug/L	04-MAY-94	04-MAY-94
Trichlorofluoromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Vinyl Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	96.0	-	%	04-MAY-94	04-MAY-94
-	-				
Comments:	None				

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ANALYTICAL DATA REPORT

Prepared for: Dames & Moore-Sacramento
Project Id: 00173-080-044 UPRR Sacto
Sample Id: MW-34
Lab Id: L9404261-9

Collected: 26-APR-94
Received: 27-APR-94
Reported: 06-MAY-94

Parameter	Value	Limit	Units	Extracted	Analyzed
8010W					
Bromodichloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromoform	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Bromomethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Carbon Tetrachloride	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chloroethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Chloroform	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Chloromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Dibromochloromethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,3-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,4-Dichlorobenzene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethane	6.2	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethene	120	5.0	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethene (Total)	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloropropane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Cis-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trans-1,3-Dichloropropene	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Methylene Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
1,1,2,2-Tetrachloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Tetrachloroethene	0.84	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,1-Trichloroethane	1.4	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,2-Trichloroethane	ND <	0.50	ug/L	04-MAY-94	04-MAY-94
Trichloroethene	16.	0.50	ug/L	04-MAY-94	04-MAY-94
Trichlorofluoromethane	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
Vinyl Chloride	ND <	1.0	ug/L	04-MAY-94	04-MAY-94
-	-				
Surrogate:	-				
4-Bromofluorobenzene	85.0	-	%	04-MAY-94	04-MAY-94
-	-				
Comments:	None				

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: Method Blank
Lab Id: WG4629-6

Reported: 06-MAY-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Bromodichloromethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Bromoform	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Bromomethane	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Carbon Tetrachloride	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Chlorobenzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Chloroethane	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Chloroform	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Chloromethane	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Dibromochloromethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,1-Dichloroethene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,2-Dichloropropane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Ethyl Benzene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Methylene Chloride	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Tetrachloroethene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Toluene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Trichloroethene	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
Trichlorofluoromethane	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Vinyl Chloride	ND	<	1.0	ug/L	04-MAY-94	04-MAY-94
Xylenes (Total)	ND	<	0.50	ug/L	04-MAY-94	04-MAY-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	106.		-	%	04-MAY-94	04-MAY-94
4-Bromofluorobenzene (8020)	104.		-	%	04-MAY-94	04-MAY-94
-	-					
Comments:	None					

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Method Blank Spike
Lab Id: WG4629-7

Reported: 06-MAY-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8010/8020W-QC							
1,1-Dichloroethene	22.0	ug/L	20	ug/L	110 %	04-MAY-94	04-MAY-94
Trichloroethene	21.6	ug/L	20	ug/L	108 %	04-MAY-94	04-MAY-94
Chlorobenzene-601	23.7	ug/L	20	ug/L	118 %	04-MAY-94	04-MAY-94
Benzene	20.4	ug/L	20	ug/L	102 %	04-MAY-94	04-MAY-94
Toluene	20.7	ug/L	20	ug/L	104 %	04-MAY-94	04-MAY-94
Chlorobenzene-602	22.0	ug/L	20	ug/L	110 %	04-MAY-94	04-MAY-94
-	-						
Surrogate:	-						
4-Bromofluorobenzene (8010)	112.	%				04-MAY-94	04-MAY-94
4-Bromofluorobenzene (8020)	106.	%				04-MAY-94	04-MAY-94
-	-						
Comments:	None						

D&M Laboratories

ANALYTICAL DATA REPORT

Prepared for:
Project Id:
Sample Id: MX
Lab Id: WG4629-1

Reported: 06-MAY-94

Parameter	Value		Limit	Units	Extracted	Analyzed
8010/8020W						
Benzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromodichloromethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromoform	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Bromomethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Carbon Tetrachloride	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chloroethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Chloroform	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Chloromethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Dibromochloromethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,3-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,4-Dichlorobenzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethane	10.1		0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1-Dichloroethene	17.2		0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloroethene (Total)	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,2-Dichloropropane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Cis-1,3-Dichloropropene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trans-1,3-Dichloropropene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Ethyl Benzene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Methylene Chloride	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
1,1,2,2-Tetrachloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Tetrachloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Toluene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,1-Trichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
1,1,2-Trichloroethane	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trichloroethene	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
Trichlorofluoromethane	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Vinyl Chloride	ND	<	1.0	ug/L	03-MAY-94	03-MAY-94
Xylenes (Total)	ND	<	0.50	ug/L	03-MAY-94	03-MAY-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	90.0		-	%	03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	94.0		-	%	03-MAY-94	03-MAY-94
-	-					
Comments:	MX=L9404245-6 (MW-28)					

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike
Lab Id: WG4629-2

Reported: 06-MAY-94

Parameter	Value	Units	Spike	Units	% Rec	Extracted	Analyzed
8010/8020W-QC							
1,1-Dichloroethene	35.2	ug/L	20	ug/L	90 %	03-MAY-94	03-MAY-94
Trichloroethene	21.9	ug/L	20	ug/L	110 %	03-MAY-94	03-MAY-94
Chlorobenzene-601	22.1	ug/L	20	ug/L	110 %	03-MAY-94	03-MAY-94
Benzene	19.5	ug/L	20	ug/L	98 %	03-MAY-94	03-MAY-94
Toluene	19.4	ug/L	20	ug/L	97 %	03-MAY-94	03-MAY-94
Chlorobenzene-602	19.7	ug/L	20	ug/L	98 %	03-MAY-94	03-MAY-94
-	-						
Surrogate:	-						
4-Bromofluorobenzene (8010)	98.0	%				03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	90.0	%				03-MAY-94	03-MAY-94
-	-						
Comments:	None						

D&M Laboratories

QUALITY CONTROL REPORT

Prepared for:
Project Id:
Sample Id: Matrix Spike Dup
Lab Id: WG4629-3

Reported: 06-MAY-94

Parameter	Value	Units	% Rec	RPD	Extracted	Analyzed
8010/8020W-QC						
1,1-Dichloroethene	35.9	ug/L	94 %	2.0	03-MAY-94	03-MAY-94
Trichloroethene	22.3	ug/L	112 %	1.8	03-MAY-94	03-MAY-94
Chlorobenzene-601	23.2	ug/L	116 %	4.9	03-MAY-94	03-MAY-94
Benzene	20.8	ug/L	104 %	6.4	03-MAY-94	03-MAY-94
Toluene	20.8	ug/L	104 %	7.0	03-MAY-94	03-MAY-94
Chlorobenzene-602	21.6	ug/L	108 %	9.2	03-MAY-94	03-MAY-94
-	-					
Surrogate:	-					
4-Bromofluorobenzene (8010)	98.0	%			03-MAY-94	03-MAY-94
4-Bromofluorobenzene (8020)	95.0	%			03-MAY-94	03-MAY-94
-	-					
Comments:	None					

QUALITY CONTROL REPORT

In order to provide you with the means of assessing the quality of the data in our report, **D&M Laboratories** reports the results of Quality Control samples analyzed with your samples.

The Quality Control samples provide the following QC information:

The Method Blank (**MB**) monitors the level of contamination introduced by reagents or glassware. A minimum of one MB is run per batch of 20 samples or less.

The Method Blank Spike (**MBS**) measures the accuracy of analytical techniques and is not subject to matrix effects. A minimum of one MBS is run per batch of 20 samples or less.

The Matrix Spike (**MS**) measures the accuracy of the method for a matrix type. Due to the high variability within matrix types and the necessity of batching samples from varied sources, matrix spike information from one sample is not necessarily relevant to other samples on the batch. A minimum of two matrix spikes, MS and MSD, are run per batch of 20 samples or less. The sample selected for the matrix spike is designated **MX**, and may or may not have been submitted by the recipient of this report.

The Matrix Spike Duplicate (**MSD**), along with the MS, is used to monitor the precision (**RPD**) of the method and to indicate possible non homogeneity of the sample matrix.

Equations used for determining percent recovery and relative percent difference (RPD) are as follows:

MBS % Recovery = (MBS result / MBS spike level) x 100
MS % Recovery = [(MS result - MX result) / MS spike level] x 100
RPD = { | MS result - MSD result | / [(MS result + MSD result) / 2]} x 100

We continue to strive to improve the quality of service to our clients. We welcome any questions or comments you may have about this information, or about **D&M Laboratories** in general. Please contact a Project Manager for further information.

L9404261

D&M LABORATORIES
3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 Fax: (707) 763-4065

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name Dames & Moore Phone (916) 387-8800
Address 8801 FOLSOM BLVD
City, State, Zip SAC, Ca.
Client's or Representative's Signature Jim Bragg
(signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO. 00173-080 044 | PROJECT NAME UP SACRAMENTO
SAMPLERS (Signature) Greg Jemald

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	601	602					REMARKS / LAB USE ONLY LAB NO.
TB-6	3-26-94	0600		✓	Travel Blank	3	✓	✓					
FB-3		1100		✓	Field Blank	4	✓	✓					
RB-3		1130		✓	Rinse Blank	4	✓	✓					
37		0659		✓	MW-37	3	✓						
137		0705		✓	MW-137	3	✓						
36		0737		✓	MW-36	3	✓						
31		0900		✓	MW-31	4	✓	✓					
35		0950		✓	MW-35	3	✓						
34		1011		✓	MW-34	3	✓						

RECEIVED
APR 27 11:15

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐ N/A
COOLER TEMPERATURE COOL °C

SAMPLES RECEIVED IN GOOD CONDITION
NO BROKEN OR LEAKING CONTAINERS

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	General Remarks:
Greg Jemald	4-26-94	1500	Fed X # 148384873	Samples preserved w/ HCl to pH<2
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	30 VOAs (Fed Ex)
			Christy Cockerham	
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	

PART ONE - CLIENT COPY

L9404261

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DAMES & MOORE
ENVIRONMENTAL AND INDUSTRIAL HYGIENE SERVICES

700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 Fax: (707) 763-4065

SAMPLE CHAIN OF CUSTODY / WORK ORDER

Client's Name Dames & Moore Phone (916) 387-8800
Address 880 FOLSOM BLVD
City, State, Zip SAC, Ca.
Client's or Representative's Signature Jim Brame
(Signature authorizes the work and terms listed below)

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pick up samples.

PROJ. NO. 00173-080 044 | PROJECT NAME UP SACRAMENTO
SAMPLERS (Signature) Greg Jemald

DATA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	601	602					REMARKS / LAB USE ONLY LAB NO.
TB-6	9-26-94	0600		✓	TRAVEL Blank	3	✓	✓					
FB-3		1100		✓	Field Blank	4	✓	✓					
RB-3		1130		✓	Rinse Blank	4	✓	✓					
37		0659		✓	MW-37	3	✓						
137		0705		✓	MW-137	3	✓						
36		0737		✓	MW-36	3	✓						
31		0900		✓	MW-31	4	✓	✓					
35		0950		✓	MW-35	3	✓						
34		1011		✓	MW-34	3	✓						

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐ N/A
COOLER TEMPERATURE COOL °C

SAMPLES RECEIVED IN GOOD CONDITION
NO BROKEN OR LEAKING CONTAINERS

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	General Remarks:
Greg Jemald	4-26-94	1500	Fed X # 1483618773	Samples preserved w/ HCl to pH<2
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	30 VOAs (Fed Ex)
			Christy Cockerham	
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	

PART ONE - CLIENT COPY