Detects
Dayton

MP ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
MIP-01	08-Apr-03	Iron	10.6	MG/L	SW-846 6010B
MIP-07	10-Apr-03	Iron	47.4	MG/L	SW-846 6010B
MIP-10	10-Apr-03	Iron	275	MG/L	SW-846 6010B
MIP-10	10-Apr-03	Iron	0.863	MG/L	SW-846 6010B
MIP-07	10-Apr-03	Iron	3.27	MG/L	SW-846 6010B
MIP-03	11-Apr-03	Iron	42.9	MG/L	SW-846 6010B
MIP-03	11-Apr-03	Iron	5.45	MG/L	SW-846 6010B
MIP-09	16-Apr-03	Iron	16.6	MG/L	SW-846 6010B
MIP-05	16-Apr-03	Iron	127	MG/L	SW-846 6010B
MIP-06	16-Apr-03	Iron	5.4	MG/L	SW-846 6010B
PZ032D	16-Apr-03	Iron	11	MG/L	SW-846 6010B
MIP-05	16-Apr-03	Iron	3	MG/L	SW-846 6010B
PZ032D	16-Apr-03	Iron	2.6	MG/L	SW-846 6010B
PZ034I	16-Apr-03	Iron	1.9	MG/L	SW-846 6010B
PZ040D	16-Apr-03	Iron	2.5	MG/L	SW-846 6010B
MW037S	16-Apr-03	Iron	32	MG/L	SW-846 6010B
PZ040D	16-Apr-03	Iron	2.6	MG/L	SW-846 6010B
MIP-06	16-Apr-03	Iron	1.1	MG/L	SW-846 6010B
MIP-09	16-Apr-03	Iron	0.65	MG/L	SW-846 6010B
PZ034I	16-Apr-03	Iron	1.8	MG/L	SW-846 6010B
PZ025I	17-Apr-03	Iron	0.211	MG/L	SW-846 6010B
PZ025I	17-Apr-03	Iron	0.106	MG/L	SW-846 6010B
MIP-04	17-Apr-03	Iron	1.53	MG/L	SW-846 6010B
MW027S	17-Apr-03	Iron	0.364	MG/L	SW-846 6010B
EB-001	17-Apr-03	Iron	0.169	MG/L	SW-846 6010B
MIP-04	17-Apr-03	Iron	396	MG/L	SW-846 6010B
MW027S	17-Apr-03	Iron	0.814	MG/L	SW-846 6010B
MIP-08	17-Apr-03	Iron	134	MG/L	SW-846 6010B
MIP-08	17-Apr-03	Iron	3.24	MG/L	SW-846 6010B
MIP-02	18-Apr-03	Iron	50.5	MG/L	SW-846 6010B
MW030S	18-Apr-03	Iron	1.24	MG/L	SW-846 6010B
PZ024I	18-Apr-03	Iron	1.3	MG/L	SW-846 6010B
MIP-02	18-Apr-03	Iron	1.6	MG/L	SW-846 6010B
MWB004	21-Apr-03	Iron	0.2	MG/L	SW-846 6010B
PZ019I	21-Apr-03	Iron	5.7	MG/L	SW-846 6010B
MWC001	22-Apr-03	Iron	2680	UG/L	SW-846 6010B
PZ022I	22-Apr-03	Iron	300	UG/L	SW-846 6010B
MWC001	22-Apr-03	Iron	5110	UG/L	SW-846 6010B
PZ022I	22-Apr-03	Iron	342	UG/L	SW-846 6010B
MWC002	22-Apr-03	Iron	3150	UG/L	SW-846 6010B
MW007S	22-Apr-03	Iron	50.9 J	UG/L	SW-846 6010B
MWC002	22-Apr-03	Iron	3430	UG/L	SW-846 6010B
PZ012D	23-Apr-03	Iron	1.01	MG/L	SW-846 6010B
MW011S	23-Apr-03	Iron	0.107	MG/L	SW-846 6010B
PZ008I	23-Apr-03	Iron	0.851	MG/L	SW-846 6010B
MW011S	23-Apr-03	Iron	0.313	MG/L	SW-846 6010B
PZ015I	23-Apr-03	Iron	0.4	MG/L	SW-846 6010B
MWA004	23-Apr-03	Iron	0.282	MG/L	SW-846 6010B
PZ012D	23-Apr-03	Iron	1.07	MG/L	SW-846 6010B

Detects
Dayton

MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
MWA004	23-Apr-03	Iron	1.69	MG/L	SW-846 6010B
MIP-42	14-May-03	Iron	180	MG/L	SW-846 6010B
MIP-60	15-May-03	Iron	39.3	MG/L	SW-846 6010B
MIP-66	15-May-03	Iron	146	MG/L	SW-846 6010B
MIP-34	05-Jun-03	Iron	80.7	MG/L	SW-846 6010B
MIP-40	05-Jun-03	Iron	124	MG/L	SW-846 6010B
MIP-26	17-Jun-03	Iron	59.2	MG/L	SW-846 6010B
MIP-46	17-Jun-03	Iron	290	MG/L	SW-846 6010B
MIP-18	18-Jun-03	Iron	84.9	MG/L	SW-846 6010B
MIP-31	18-Jun-03	Iron	82.7	MG/L	SW-846 6010B
MIP-44	19-Jun-03	Iron	20	MG/L	SW-846 6010B
MIP-43	19-Jun-03	Iron	37.2	MG/L	SW-846 6010B
MIP-42	14-May-03	Iron, dissolved	0.147	MG/L	SW-846 6010B
MIP-60	15-May-03	Iron, dissolved	2.33	MG/L	SW-846 6010B
MIP-66	15-May-03	Iron, dissolved	2.59	MG/L	SW-846 6010B
MIP-34	05-Jun-03	Iron, dissolved	1.45	MG/L	SW-846 6010B
MIP-40	05-Jun-03	Iron, dissolved	0.25	MG/L	SW-846 6010B
MIP-46	17-Jun-03	Iron, dissolved	1.68	MG/L	SW-846 6010B
MIP-26	17-Jun-03	Iron, dissolved	1.13	MG/L	SW-846 6010B
MIP-31	18-Jun-03	Iron, dissolved	5.22	MG/L	SW-846 6010B
MIP-18	18-Jun-03	Iron, dissolved	0.61	MG/L	SW-846 6010B
MIP-43	19-Jun-03	Iron, dissolved	2.69	MG/L	SW-846 6010B
MWB005	14-Dec-94	Lead	1.1	UG/L	
MWB002	14-Dec-94	Lead	1.1	UG/L	
MWB003	15-Dec-94	Lead	1.4	UG/L	
MWC003	15-Dec-94	Lead	1	UG/L	
WL00002	03-Oct-98	Lead	527	UG/L	CLP3-90METALS
WL49011	22-Nov-99	Lead	428	UG/L	SW-846 6010B
WL0004	22-Nov-99	Lead	140	UG/L	SW-846 6010B
WL41011	23-Nov-99	Lead	113	UG/L	SW-846 6010B
WL33511	29-Nov-99	Lead	25	UG/L	SW-846 6010B
WL0006	30-Nov-99	Lead	37	UG/L	SW-846 6010B
WL0008	09-Dec-99	Lead	228	UG/L	SW-846 6010B
WL41092	13-Dec-99	Lead	264	UG/L	SW-846 6010B
WL41141	20-Dec-99	Lead	72	UG/L	SW-846 6010B
WL2611	20-Dec-99	Lead	252	UG/L	SW-846 6010B
WL41171	06-Jan-00	Lead	1260	UG/L	SW-846 6010B
WL0009	07-Jan-00	Lead	338	UG/L	SW-846 6010B
WL0010	11-Jan-00	Lead	12	UG/L	SW-846 6010B
WL0011	11-Jan-00	Lead	127	UG/L	SW-846 6010B
WL0012	16-Jan-00	Lead	9.1 J	UG/L	SW-846 6010B
WL40J1	28-Jan-00	Lead	60	UG/L	SW-846 6010B
WL3191	28-Feb-00	Lead	18	UG/L	SW-846 6010B
DC001	09-May-00	Lead	120	UG/L	7420
WL40J2	18-May-00	Lead	210	UG/L	SW-846 6010B
DrumPad-Rinse	30-Jun-00	Lead	144	UG/L	7420
WL41131	30-Mar-01	Lead	13500	UG/L	SW-846 6010B
PZ021I	22-Apr-03	Lead	18.5 J	UG/L	SW-846 6010B
PZ008D	23-Apr-03	Lead	0.0108 J	MG/L	SW-846 6010B

Detects
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MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
PZ37D-051502-BE	15-May-02	Manganese	0.14	MG/L	SW-846 6010B
PZ37I-051502-BE	15-May-02	Manganese	0.489	MG/L	SW-846 6010B
PZ37S-051502-BE	15-May-02	Manganese	0.0344	MG/L	SW-846 6010B
PZ34D-051502-BE	15-May-02	Manganese	0.161	MG/L	SW-846 6010B
PZ34I-051502-BE	15-May-02	Manganese	0.156	MG/L	SW-846 6010B
PZ34S-051502-BE	15-May-02	Manganese	0.346	MG/L	SW-846 6010B
PZ29I-051602-BE	16-May-02	Manganese	0.191	MG/L	SW-846 6010B
PZ27S-051602-BE	16-May-02	Manganese	0.255	MG/L	SW-846 6010B
PZ29S-051602-BE	16-May-02	Manganese	0.0901	MG/L	SW-846 6010B
PZ27D-051602-BE	16-May-02	Manganese	0.199	MG/L	SW-846 6010B
PZ27I-051602-BE	16-May-02	Manganese	0.29	MG/L	SW-846 6010B
PZ29-051602-BE	16-May-02	Manganese	0.0823	MG/L	SW-846 6010B
PZ29D-051602-BE	16-May-02	Manganese	0.248	MG/L	SW-846 6010B
MWA6-052002-BE	20-May-02	Manganese	0.0553	MG/L	SW-846 6010B
PZ8D-052002-BE	20-May-02	Manganese	0.0929	MG/L	SW-846 6010B
PZ8S-052002-BE	20-May-02	Manganese	0.0128	MG/L	SW-846 6010B
PZ8I-052002-BE	20-May-02	Manganese	0.104	MG/L	SW-846 6010B
PZ12I-052002-BE	20-May-02	Manganese	0.15	MG/L	SW-846 6010B
PZ12D-052002-BE	20-May-02	Manganese	0.0891	MG/L	SW-846 6010B
MWB2-052102-BE	21-May-02	Manganese	0.119	MG/L	SW-846 6010B
PZ16D-052102-BE	21-May-02	Manganese	0.116	MG/L	SW-846 6010B
MWA5-052102-BE	21-May-02	Manganese	0.0102	MG/L	SW-846 6010B
MWB1-052102-BE	21-May-02	Manganese	0.0841	MG/L	SW-846 6010B
PZ13D-052102-BE	21-May-02	Manganese	0.143	MG/L	SW-846 6010B
MWA2-052102-BE	21-May-02	Manganese	0.0108	MG/L	SW-846 6010B
MWC2-052102-BE	21-May-02	Manganese	0.045	MG/L	SW-846 6010B
MWBB2-052102-BE	21-May-02	Manganese	0.121	MG/L	SW-846 6010B
MWC1-052102-BE	21-May-02	Manganese	0.0538	MG/L	SW-846 6010B
PZ13I-052102-BE	21-May-02	Manganese	0.14	MG/L	SW-846 6010B
MIP-01	08-Apr-03	Manganese	3.5	MG/L	SW-846 6010B

Detects
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MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
MIP-07	10-Apr-03	Manganese	2.6	MG/L	SW-846 6010B
MIP-10	10-Apr-03	Manganese	24.8	MG/L	SW-846 6010B
MIP-03	11-Apr-03	Manganese	2.9	MG/L	SW-846 6010B
MIP-05	16-Apr-03	Manganese	3.2	MG/L	SW-846 6010B
MIP-09	16-Apr-03	Manganese	0.42	MG/L	SW-846 6010B
PZ034I	16-Apr-03	Manganese	0.15	MG/L	SW-846 6010B
MW037S	16-Apr-03	Manganese	0.072	MG/L	SW-846 6010B
PZ032D	16-Apr-03	Manganese	0.29	MG/L	SW-846 6010B
PZ040D	16-Apr-03	Manganese	0.14	MG/L	SW-846 6010B
MIP-06	16-Apr-03	Manganese	0.34	MG/L	SW-846 6010B
EB-001	17-Apr-03	Manganese	0.0052 J	MG/L	SW-846 6010B
MIP-04	17-Apr-03	Manganese	17.2	MG/L	SW-846 6010B
MIP-08	17-Apr-03	Manganese	6.87	MG/L	SW-846 6010B
PZ025I	17-Apr-03	Manganese	0.51	MG/L	SW-846 6010B
MW027S	17-Apr-03	Manganese	0.202	MG/L	SW-846 6010B
MIP-02	18-Apr-03	Manganese	2.96	MG/L	SW-846 6010B
PZ024I	18-Apr-03	Manganese	0.144	MG/L	SW-846 6010B
MW030S	18-Apr-03	Manganese	0.0461	MG/L	SW-846 6010B
MWB004	21-Apr-03	Manganese	0.013	MG/L	SW-846 6010B
PZ019I	21-Apr-03	Manganese	0.33	MG/L	SW-846 6010B
PZ022I	22-Apr-03	Manganese	199	UG/L	SW-846 6010B
MWC001	22-Apr-03	Manganese	102	UG/L	SW-846 6010B
MW007S	22-Apr-03	Manganese	34.2	UG/L	SW-846 6010B
MWC002	22-Apr-03	Manganese	53.1	UG/L	SW-846 6010B
PZ022I	22-Apr-03	Manganese	208	UG/L	SW-846 6010B
PZ008I	23-Apr-03	Manganese	0.145	MG/L	SW-846 6010B
MWA005	23-Apr-03	Manganese	0.129	MG/L	SW-846 6010B
PZ015I	23-Apr-03	Manganese	0.101	MG/L	SW-846 6010B
PZ012D	23-Apr-03	Manganese	0.0944	MG/L	SW-846 6010B
MWA004	23-Apr-03	Manganese	0.0857	MG/L	SW-846 6010B
MW011S	23-Apr-03	Manganese	0.249	MG/L	SW-846 6010B
MIP-42	14-May-03	Manganese	18.8	MG/L	SW-846 6010B
MIP-66	15-May-03	Manganese	4.41	MG/L	SW-846 6010B
MIP-60	15-May-03	Manganese	1.4	MG/L	SW-846 6010B
MIP-34	05-Jun-03	Manganese	3.08	MG/L	SW-846 6010B
MIP-40	05-Jun-03	Manganese	4.68	MG/L	SW-846 6010B
MIP-26	17-Jun-03	Manganese	2.18	MG/L	SW-846 6010B
MIP-46	17-Jun-03	Manganese	7.07	MG/L	SW-846 6010B
MIP-31	18-Jun-03	Manganese	1.6	MG/L	SW-846 6010B
MIP-18	18-Jun-03	Manganese	7.26	MG/L	SW-846 6010B
MIP-44	19-Jun-03	Manganese	1.56	MG/L	SW-846 6010B
MIP-43	19-Jun-03	Manganese	1.63	MG/L	SW-846 6010B
MWB001	13-Dec-94	Mercury	0.28	UG/L	
MWC002	14-Dec-94	Mercury	0.58	UG/L	
MWA004	20-Feb-95	Mercury	0.22	UG/L	
WL00002	03-Oct-98	Mercury	0.1 B	UG/L	CLP3-90METALS
WL0004	22-Nov-99	Mercury	0.4	UG/L	SW-846 7470A
WL41092	13-Dec-99	Mercury	0.2	UG/L	SW-846 7470A
WL2611	20-Dec-99	Mercury	3.2	UG/L	SW-846 7470A

Detects
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MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
WL41141	20-Dec-99	Mercury	0.2	UG/L	SW-846 7470A
WL41171	06-Jan-00	Mercury	1.5	UG/L	SW-846 7470A
WL0009	07-Jan-00	Mercury	0.3	UG/L	SW-846 7470A
WL0011	11-Jan-00	Mercury	0.1 J	UG/L	SW-846 7470A
WL40K1	31-Jan-00	Mercury	1.4 J	UG/L	SW-846 7470A
WL40J2	18-May-00	Mercury	0.1 J	UG/L	SW-846 7470A
WL41131	30-Mar-01	Mercury	0 J	UG/L	SW-846 7470A
WL49011	22-Nov-99	Naphthalene	1 J	UG/L	SW-846 8270C
WL41011	23-Nov-99	Naphthalene	1 J	UG/L	SW-846 8270C
WL0006	30-Nov-99	Naphthalene	10 J	UG/L	SW-846 8270C
WL0010	11-Jan-00	Naphthalene	4100	UG/L	SW-846 8270C
WL0011	11-Jan-00	Naphthalene	3 J	UG/L	SW-846 8270C
WL40J1	28-Jan-00	Naphthalene	1900	UG/L	SW-846 8270C
WL40K1	31-Jan-00	Naphthalene	36 J	UG/L	SW-846 8270C
WL3191	28-Feb-00	Naphthalene	38	UG/L	SW-846 8270C
PZ37S-051502-BE	15-May-02	Nitrate Nitrogen	3.87	MG/L	EPA 353.2
PZ37D-051502-BE	15-May-02	Nitrate Nitrogen	1.98	MG/L	EPA 353.2
PZ37I-051502-BE	15-May-02	Nitrate Nitrogen	0.081 J	MG/L	EPA 353.2
PZ27I-051602-BE	16-May-02	Nitrate Nitrogen	0.23	MG/L	EPA 353.2
PZ29-051602-BE	16-May-02	Nitrate Nitrogen	2.11	MG/L	EPA 353.2
PZ29S-051602-BE	16-May-02	Nitrate Nitrogen	2.09	MG/L	EPA 353.2
PZ8S-052002-BE	20-May-02	Nitrate Nitrogen	4.66	MG/L	EPA 353.2
MWA6-052002-BE	20-May-02	Nitrate Nitrogen	6.61	MG/L	EPA 353.2
MW18S-052102-BE	21-May-02	Nitrate Nitrogen	0.26	MG/L	EPA 353.2
MWA2-052102-BE	21-May-02	Nitrate Nitrogen	0.047 J	MG/L	EPA 353.2
PZ13I-052102-BE	21-May-02	Nitrate Nitrogen	0.42	MG/L	EPA 353.2
PZ13D-052102-BE	21-May-02	Nitrate Nitrogen	0.42	MG/L	EPA 353.2
MWA5-052102-BE	21-May-02	Nitrate Nitrogen	3.75	MG/L	EPA 353.2
MIP-10	10-Apr-03	Nitrate Nitrogen	3.4	MG/L	EPA 353.2
MIP-07	10-Apr-03	Nitrate Nitrogen	2.9	MG/L	EPA 353.2
MIP-03	11-Apr-03	Nitrate Nitrogen	3.8	MG/L	EPA 353.2
MW037S	16-Apr-03	Nitrate Nitrogen	3.1	MG/L	EPA 353.2
MIP-06	16-Apr-03	Nitrate Nitrogen	6.8	MG/L	EPA 353.2
MIP-09	16-Apr-03	Nitrate Nitrogen	6.6	MG/L	EPA 353.2
PZ025I	17-Apr-03	Nitrate Nitrogen	0.38	MG/L	EPA 353.2
MIP-04	17-Apr-03	Nitrate Nitrogen	2.8	MG/L	EPA 353.2
EB-001	17-Apr-03	Nitrate Nitrogen	1.1	MG/L	EPA 353.2
MW027S	17-Apr-03	Nitrate Nitrogen	0.18	MG/L	EPA 353.2
PZ024I	18-Apr-03	Nitrate Nitrogen	1.9	MG/L	EPA 353.2
MW030S	18-Apr-03	Nitrate Nitrogen	2.9	MG/L	EPA 353.2
PZ019I	21-Apr-03	Nitrate Nitrogen	0.23	MG/L	EPA 353.2

Detects
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MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
MWB004	21-Apr-03	Nitrate Nitrogen	2.8	MG/L	EPA 353.2
PZ022I	22-Apr-03	Nitrate Nitrogen	1.4	MG/L	EPA 353.2
MW007S	22-Apr-03	Nitrate Nitrogen	14.4	MG/L	EPA 353.2
PZ008I	23-Apr-03	Nitrate Nitrogen	0.69	MG/L	EPA 353.2
MWA004	23-Apr-03	Nitrate Nitrogen	0.041 J	MG/L	EPA 353.2
MWA005	23-Apr-03	Nitrate Nitrogen	5.6	MG/L	EPA 353.2
MW011S	23-Apr-03	Nitrate Nitrogen	4.8	MG/L	EPA 353.2
MIP-42	14-May-03	Nitrate Nitrogen	2.6	MG/L	EPA 353.2
MIP-60	15-May-03	Nitrate Nitrogen	1.1	MG/L	EPA 353.2
MIP-40	05-Jun-03	Nitrate Nitrogen	3.8	MG/L	EPA 353.2
MIP-34	05-Jun-03	Nitrate Nitrogen	0.55	MG/L	EPA 353.2
MIP-46	17-Jun-03	Nitrate Nitrogen	6.3	MG/L	EPA 353.2
MIP-18	18-Jun-03	Nitrate Nitrogen	0.24	MG/L	EPA 353.2
MIP-44	19-Jun-03	Nitrate Nitrogen	1.1	MG/L	EPA 353.2
MIP-43	19-Jun-03	Nitrate Nitrogen	0.055 J	MG/L	EPA 353.2
PZ37I-051502-BE	15-May-02	Nitrite Nitrogen	0.018 J	MG/L	EPA 353.2
PZ37D-051502-BE	15-May-02	Nitrite Nitrogen	0.165	MG/L	EPA 353.2
PZ37S-051502-BE	15-May-02	Nitrite Nitrogen	0.202	MG/L	EPA 353.2
PZ29I-051602-BE	16-May-02	Nitrite Nitrogen	0.016 J	MG/L	EPA 353.2
PZ29-051602-BE	16-May-02	Nitrite Nitrogen	0.021 J	MG/L	EPA 353.2
PZ27D-051602-BE	16-May-02	Nitrite Nitrogen	0.016 J	MG/L	EPA 353.2
PZ29S-051602-BE	16-May-02	Nitrite Nitrogen	0.02 J	MG/L	EPA 353.2
PZ27S-051602-BE	16-May-02	Nitrite Nitrogen	0.016 J	MG/L	EPA 353.2
PZ29D-051602-BE	16-May-02	Nitrite Nitrogen	0.019 J	MG/L	EPA 353.2
PZ27I-051602-BE	16-May-02	Nitrite Nitrogen	0.022 J	MG/L	EPA 353.2
MWA6-052002-BE	20-May-02	Nitrite Nitrogen	0.016 J	MG/L	EPA 353.2
MIP-10	10-Apr-03	Nitrite Nitrogen	0.061	MG/L	EPA 353.2
MIP-03	11-Apr-03	Nitrite Nitrogen	0.1	MG/L	EPA 353.2
MIP-09	16-Apr-03	Nitrite Nitrogen	0.022 J	MG/L	EPA 353.2
MIP-06	16-Apr-03	Nitrite Nitrogen	0.038 J	MG/L	EPA 353.2
MW027S	17-Apr-03	Nitrite Nitrogen	0.031 J	MG/L	EPA 353.2
PZ025I	17-Apr-03	Nitrite Nitrogen	0.033 J	MG/L	EPA 353.2
MIP-04	17-Apr-03	Nitrite Nitrogen	0.028 J	MG/L	EPA 353.2
PZ024I	18-Apr-03	Nitrite Nitrogen	0.04 J	MG/L	EPA 353.2
MW011S	23-Apr-03	Nitrite Nitrogen	0.032 J	MG/L	EPA 353.2
PZ008I	23-Apr-03	Nitrite Nitrogen	0.037 J	MG/L	EPA 353.2
MWA004	23-Apr-03	Nitrite Nitrogen	0.018 J	MG/L	EPA 353.2
MIP-42	14-May-03	Nitrite Nitrogen	0.081	MG/L	EPA 353.2
MIP-60	15-May-03	Nitrite Nitrogen	0.019 J	MG/L	EPA 353.2
MIP-46	17-Jun-03	Nitrite Nitrogen	0.12	MG/L	EPA 353.2
WL41011	23-Nov-99	N-Nitrosodiphenylamine	1 J	UG/L	SW-846 8270C

Detects
Dayton

MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
WL0006	30-Nov-99	N-Nitrosodiphenylamine	2 J	UG/L	SW-846 8270C
WL0011	11-Jan-00	N-Nitrosodiphenylamine	2 J	UG/L	SW-846 8270C
WL40J1	28-Jan-00	N-Nitrosodiphenylamine	730	UG/L	SW-846 8270C
WL3191	28-Feb-00	N-Nitrosodiphenylamine	9 J	UG/L	SW-846 8270C
WL00002	03-Oct-98	Organic Halides	14700	UG/L	OTHER
WL0004	22-Nov-99	Phenanthrene	25	UG/L	SW-846 8270C
WL49011	22-Nov-99	Phenanthrene	7 J	UG/L	SW-846 8270C
WL41011	23-Nov-99	Phenanthrene	17	UG/L	SW-846 8270C
WL33511	29-Nov-99	Phenanthrene	2 J	UG/L	SW-846 8270C
WL0006	30-Nov-99	Phenanthrene	2 J	UG/L	SW-846 8270C
WL41092	13-Dec-99	Phenanthrene	3 J	UG/L	SW-846 8270C
WL2611	20-Dec-99	Phenanthrene	4 J	UG/L	SW-846 8270C
WL0009	07-Jan-00	Phenanthrene	2 J	UG/L	SW-846 8270C
WL40J1	28-Jan-00	Phenanthrene	560	UG/L	SW-846 8270C
WL40K1	31-Jan-00	Phenanthrene	27 J	UG/L	SW-846 8270C
WL3191	28-Feb-00	Phenanthrene	9 J	UG/L	SW-846 8270C
WL49011	22-Nov-99	Phenol	2 J	UG/L	SW-846 8270C
WL33511	29-Nov-99	Phenol	3 J	UG/L	SW-846 8270C
WL2611	20-Dec-99	Phenol	130	UG/L	SW-846 8270C
WL0011	11-Jan-00	Phenol	1100	UG/L	SW-846 8270C
WL0010	11-Jan-00	Phenol	17 J	UG/L	SW-846 8270C
WL40J1	28-Jan-00	Phenol	4900	UG/L	SW-846 8270C
WL40K1	31-Jan-00	Phenol	1100	UG/L	SW-846 8270C
WL3191	28-Feb-00	Phenol	240	UG/L	SW-846 8270C
WL40J2	18-May-00	Phenol	290 J	UG/L	SW-846 8270C
WL41131	30-Mar-01	Phenol	18	UG/L	SW-846 8270C
WL0004	22-Nov-99	Pyrene	15	UG/L	SW-846 8270C
WL49011	22-Nov-99	Pyrene	10	UG/L	SW-846 8270C
WL41011	23-Nov-99	Pyrene	22	UG/L	SW-846 8270C
WL41092	13-Dec-99	Pyrene	3 J	UG/L	SW-846 8270C
WL2611	20-Dec-99	Pyrene	4 J	UG/L	SW-846 8270C
WL0009	07-Jan-00	Pyrene	2 J	UG/L	SW-846 8270C
WL40J1	28-Jan-00	Pyrene	130 J	UG/L	SW-846 8270C
WL3191	28-Feb-00	Pyrene	3 J	UG/L	SW-846 8270C
WL41131	30-Mar-01	Pyrene	3 J	UG/L	SW-846 8270C
SP01SB01-4-6	15-Sep-98	Reactive cyanide	125000	UG/KG	
SP01SB01-4-6	15-Sep-98	Reactive sulfide	125000	UG/KG	
WL49011	22-Nov-99	Selenium	5 J	UG/L	SW-846 6010B
WL0004	22-Nov-99	Selenium	4.9 J	UG/L	SW-846 6010B
WL0006	30-Nov-99	Selenium	52	UG/L	SW-846 6010B
WL40J1	28-Jan-00	Selenium	38 J	UG/L	SW-846 6010B
WL40J2	18-May-00	Selenium	437	UG/L	SW-846 6010B
WL41131	30-Mar-01	Selenium	3.3 J	UG/L	SW-846 7740
MW007S	22-Apr-03	Selenium	4.8 J	UG/L	SW-846 6010B
MWA001	13-Dec-94	Silver	45	UG/L	

Detects
Dayton

MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
MWA002	13-Dec-94	Silver	34	UG/L	
MWA003	13-Dec-94	Silver	38	UG/L	
MWC001	13-Dec-94	Silver	47	UG/L	
MWA005 DUP	14-Dec-94	Silver	34	UG/L	
MWB006	14-Dec-94	Silver	45	UG/L	
MWB005	14-Dec-94	Silver	36	UG/L	
MWB004	14-Dec-94	Silver	33	UG/L	
MWC002	14-Dec-94	Silver	44	UG/L	
MWA005	14-Dec-94	Silver	50	UG/L	
MWC002	20-Feb-95	Silver	40	UG/L	
MWB005	20-Feb-95	Silver	36	UG/L	
MWC001	20-Feb-95	Silver	46	UG/L	
MWB002	20-Feb-95	Silver	37	UG/L	
WL00002	03-Oct-98	Silver	0.7 B	UG/L	CLP3-90METALS
WL49011	22-Nov-99	Silver	3.2 J	UG/L	SW-846 6010B
WL0004	22-Nov-99	Silver	2.9 J	UG/L	SW-846 6010B
WL41011	23-Nov-99	Silver	1.9 J	UG/L	SW-846 6010B
WL2611	20-Dec-99	Silver	2.1 J	UG/L	SW-846 6010B
WL41171	06-Jan-00	Silver	18.7	UG/L	SW-846 6010B
WL40K1	31-Jan-00	Silver	8.9	UG/L	SW-846 6010B
WL41131	30-Mar-01	Silver	23.1	UG/L	SW-846 6010B
MW008S	23-Apr-03	Silver	0.003 J	MG/L	SW-846 6010B
PZ008D	23-Apr-03	Silver	0.0027 J	MG/L	SW-846 6010B
MWB001	13-Dec-94	Sodium	56000	UG/L	
MWA003	13-Dec-94	Sodium	96000	UG/L	
MWA002	13-Dec-94	Sodium	72000	UG/L	
MWC001	13-Dec-94	Sodium	21000	UG/L	
MWA001	13-Dec-94	Sodium	73000	UG/L	
MWB006	14-Dec-94	Sodium	53000	UG/L	
MWA005	14-Dec-94	Sodium	100000	UG/L	
MWA005 DUP	14-Dec-94	Sodium	110000	UG/L	
MWA006	14-Dec-94	Sodium	81000	UG/L	
MWB005	14-Dec-94	Sodium	150000	UG/L	
MWB004	14-Dec-94	Sodium	78000	UG/L	
MWB002	14-Dec-94	Sodium	180000	UG/L	
MWC002	14-Dec-94	Sodium	32000	UG/L	
MWC003	15-Dec-94	Sodium	57000	UG/L	
MWB003	15-Dec-94	Sodium	120000	UG/L	
MWA004	15-Dec-94	Sodium	85000	UG/L	
MWC003	20-Feb-95	Sodium	43000	UG/L	
MWB005	20-Feb-95	Sodium	130000	UG/L	
MWB002	20-Feb-95	Sodium	140000	UG/L	
MWC001	20-Feb-95	Sodium	7900	UG/L	
MWB003	20-Feb-95	Sodium	100000	UG/L	
MWC002	20-Feb-95	Sodium	20000	UG/L	
MWA004	20-Feb-95	Sodium	83000	UG/L	
MWB001	20-Feb-95	Sodium	40000	UG/L	
MWA002	20-Feb-95	Sodium	63000	UG/L	
MWB004	21-Feb-95	Sodium	59000	UG/L	

Detects
Dayton

MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
MWA003	21-Feb-95	Sodium	80000	UG/L	
MWB006	21-Feb-95	Sodium	80000	UG/L	
MWA006	21-Feb-95	Sodium	68000	UG/L	
MWA001	21-Feb-95	Sodium	59000	UG/L	
MWA005	21-Feb-95	Sodium	120000	UG/L	
PZ37D-051502-BE	15-May-02	Sulfate (turbidimetric)	72	MG/L	EPA 375.4
PZ34S-051502-BE	15-May-02	Sulfate (turbidimetric)	136	MG/L	EPA 375.4
PZ34I-051502-BE	15-May-02	Sulfate (turbidimetric)	97	MG/L	EPA 375.4
PZ34D-051502-BE	15-May-02	Sulfate (turbidimetric)	91	MG/L	EPA 375.4
PZ37I-051502-BE	15-May-02	Sulfate (turbidimetric)	117	MG/L	EPA 375.4
PZ37S-051502-BE	15-May-02	Sulfate (turbidimetric)	51	MG/L	EPA 375.4
PZ27I-051602-BE	16-May-02	Sulfate (turbidimetric)	146	MG/L	EPA 375.4
PZ27D-051602-BE	16-May-02	Sulfate (turbidimetric)	79	MG/L	EPA 375.4
PZ29D-051602-BE	16-May-02	Sulfate (turbidimetric)	86	MG/L	EPA 375.4
PZ29I-051602-BE	16-May-02	Sulfate (turbidimetric)	152	MG/L	EPA 375.4
PZ29-051602-BE	16-May-02	Sulfate (turbidimetric)	87	MG/L	EPA 375.4
PZ29S-051602-BE	16-May-02	Sulfate (turbidimetric)	94	MG/L	EPA 375.4
PZ27S-051602-BE	16-May-02	Sulfate (turbidimetric)	135	MG/L	EPA 375.4
PZ8I-052002-BE	20-May-02	Sulfate (turbidimetric)	83	MG/L	EPA 375.4
PZ8D-052002-BE	20-May-02	Sulfate (turbidimetric)	94	MG/L	EPA 375.4
MWA6-052002-BE	20-May-02	Sulfate (turbidimetric)	83	MG/L	EPA 375.4
PZ8S-052002-BE	20-May-02	Sulfate (turbidimetric)	53	MG/L	EPA 375.4
PZ12I-052002-BE	20-May-02	Sulfate (turbidimetric)	90	MG/L	EPA 375.4
PZ12D-052002-BE	20-May-02	Sulfate (turbidimetric)	107	MG/L	EPA 375.4
PZ13D-052102-BE	21-May-02	Sulfate (turbidimetric)	79	MG/L	EPA 375.4
MWB1-052102-BE	21-May-02	Sulfate (turbidimetric)	59	MG/L	EPA 375.4
PZ16D-052102-BE	21-May-02	Sulfate (turbidimetric)	95	MG/L	EPA 375.4
MWB2-052102-BE	21-May-02	Sulfate (turbidimetric)	131	MG/L	EPA 375.4
MWA2-052102-BE	21-May-02	Sulfate (turbidimetric)	35.3	MG/L	EPA 375.4
MWBB2-052102-BE	21-May-02	Sulfate (turbidimetric)	129	MG/L	EPA 375.4
MW18S-052102-BE	21-May-02	Sulfate (turbidimetric)	26.3	MG/L	EPA 375.4

Detects
Dayton

MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
MWC2-052102-BE	21-May-02	Sulfate (turbidimetric)	72	MG/L	EPA 375.4
MWC1-052102-BE	21-May-02	Sulfate (turbidimetric)	59	MG/L	EPA 375.4
MWA5-052102-BE	21-May-02	Sulfate (turbidimetric)	70	MG/L	EPA 375.4
PZ13I-052102-BE	21-May-02	Sulfate (turbidimetric)	78	MG/L	EPA 375.4
PZ032D	16-Apr-03	Sulfate (turbidimetric)	97	MG/L	EPA 375.4
MIP-09	16-Apr-03	Sulfate (turbidimetric)	52.8	MG/L	EPA 375.4
PZ034I	16-Apr-03	Sulfate (turbidimetric)	130	MG/L	EPA 375.4
PZ040D	16-Apr-03	Sulfate (turbidimetric)	81	MG/L	EPA 375.4
MIP-06	16-Apr-03	Sulfate (turbidimetric)	47.8	MG/L	EPA 375.4
MW037S	16-Apr-03	Sulfate (turbidimetric)	60	MG/L	EPA 375.4
PZ025I	17-Apr-03	Sulfate (turbidimetric)	143	MG/L	EPA 375.4
EB-001	17-Apr-03	Sulfate (turbidimetric)	71.2	MG/L	EPA 375.4
MW027S	17-Apr-03	Sulfate (turbidimetric)	128	MG/L	EPA 375.4
MW030S	18-Apr-03	Sulfate (turbidimetric)	101	MG/L	EPA 375.4
PZ024I	18-Apr-03	Sulfate (turbidimetric)	87.6	MG/L	EPA 375.4
PZ019I	21-Apr-03	Sulfate (turbidimetric)	65.7	MG/L	EPA 375.4
MWB004	21-Apr-03	Sulfate (turbidimetric)	66.4	MG/L	EPA 375.4
PZ022I	22-Apr-03	Sulfate (turbidimetric)	64.7	MG/L	EPA 375.4
MW007S	22-Apr-03	Sulfate (turbidimetric)	109	MG/L	EPA 375.4
MWC001	22-Apr-03	Sulfate (turbidimetric)	57.3	MG/L	EPA 375.4
MWC002	22-Apr-03	Sulfate (turbidimetric)	82.6	MG/L	EPA 375.4
PZ022I	22-Apr-03	Sulfate (turbidimetric)	70.6	MG/L	EPA 375.4
MWA005	23-Apr-03	Sulfate (turbidimetric)	77.7	MG/L	EPA 375.4
MWA004	23-Apr-03	Sulfate (turbidimetric)	38.4	MG/L	EPA 375.4
PZ012D	23-Apr-03	Sulfate (turbidimetric)	106	MG/L	EPA 375.4
PZ015I	23-Apr-03	Sulfate (turbidimetric)	67.7	MG/L	EPA 375.4
PZ008I	23-Apr-03	Sulfate (turbidimetric)	69.3	MG/L	EPA 375.4
MW011S	23-Apr-03	Sulfate (turbidimetric)	77.9	MG/L	EPA 375.4
MIP-60	15-May-03	Sulfate (turbidimetric)	80.6	MG/L	EPA 375.4
MIP-31	18-Jun-03	Sulfate (turbidimetric)	35.4 J	MG/L	EPA 375.4
MIP-18	18-Jun-03	Sulfate (turbidimetric)	47.6 J	MG/L	EPA 375.4
MWB001	13-Dec-94	Thallium	13	UG/L	
MWA003	13-Dec-94	Thallium	21	UG/L	
MWC001	13-Dec-94	Thallium	4.8	UG/L	
MWA002	13-Dec-94	Thallium	15	UG/L	
MWA001	13-Dec-94	Thallium	13	UG/L	
MWB005	14-Dec-94	Thallium	26	UG/L	
MWA005	14-Dec-94	Thallium	11	UG/L	
MWB006	14-Dec-94	Thallium	4.7	UG/L	
MWB004	14-Dec-94	Thallium	15	UG/L	
MWA006	14-Dec-94	Thallium	8.4	UG/L	
MWC002	14-Dec-94	Thallium	5.7	UG/L	
MWB002	14-Dec-94	Thallium	42	UG/L	
MWA005 DUP	14-Dec-94	Thallium	13	UG/L	
MWA004	15-Dec-94	Thallium	17	UG/L	
MWB003	15-Dec-94	Thallium	23	UG/L	

Detects
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MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
MWC003	15-Dec-94	Thallium	11	UG/L	
MWA002	20-Feb-95	Thallium	9	UG/L	
MWB001	20-Feb-95	Thallium	11	UG/L	
MWB003	20-Feb-95	Thallium	15	UG/L	
MWB005	20-Feb-95	Thallium	25	UG/L	
MWA004	20-Feb-95	Thallium	12	UG/L	
MWC002	20-Feb-95	Thallium	5.4	UG/L	
MWC001	20-Feb-95	Thallium	4.5	UG/L	
MWC003	20-Feb-95	Thallium	7	UG/L	
MWB002	20-Feb-95	Thallium	29	UG/L	
MWB004	21-Feb-95	Thallium	13	UG/L	
MWB006	21-Feb-95	Thallium	10	UG/L	
MWA003	21-Feb-95	Thallium	14	UG/L	
MWA005	21-Feb-95	Thallium	21	UG/L	
MWA001	21-Feb-95	Thallium	11	UG/L	
MWA006	21-Feb-95	Thallium	14	UG/L	
PZ37S-051502-BE	15-May-02	Total Hardness	402	MG/L	EPA 130.2 (modified)
PZ34S-051502-BE	15-May-02	Total Hardness	533	MG/L	EPA 130.2 (modified)
PZ34D-051502-BE	15-May-02	Total Hardness	499	MG/L	EPA 130.2 (modified)
PZ37D-051502-BE	15-May-02	Total Hardness	490	MG/L	EPA 130.2 (modified)
PZ34I-051502-BE	15-May-02	Total Hardness	502	MG/L	EPA 130.2 (modified)
PZ37I-051502-BE	15-May-02	Total Hardness	505	MG/L	EPA 130.2 (modified)
PZ27S-051602-BE	16-May-02	Total Hardness	399	MG/L	EPA 130.2 (modified)
PZ27I-051602-BE	16-May-02	Total Hardness	442	MG/L	EPA 130.2 (modified)
PZ29D-051602-BE	16-May-02	Total Hardness	503	MG/L	EPA 130.2 (modified)
PZ29-051602-BE	16-May-02	Total Hardness	580	MG/L	EPA 130.2 (modified)
PZ29S-051602-BE	16-May-02	Total Hardness	567	MG/L	EPA 130.2 (modified)
PZ29I-051602-BE	16-May-02	Total Hardness	537	MG/L	EPA 130.2 (modified)
PZ27D-051602-BE	16-May-02	Total Hardness	377	MG/L	EPA 130.2 (modified)
PZ12D-052002-BE	20-May-02	Total Hardness	596	MG/L	EPA 130.2 (modified)
MWA6-052002-BE	20-May-02	Total Hardness	551	MG/L	EPA 130.2 (modified)
PZ12I-052002-BE	20-May-02	Total Hardness	505	MG/L	EPA 130.2 (modified)

Detects
Dayton

MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
PZ8S-052002-BE	20-May-02	Total Hardness	555	MG/L	EPA 130.2 (modified)
PZ8D-052002-BE	20-May-02	Total Hardness	567	MG/L	EPA 130.2 (modified)
PZ8I-052002-BE	20-May-02	Total Hardness	336	MG/L	EPA 130.2 (modified)
PZ13D-052102-BE	21-May-02	Total Hardness	460	MG/L	EPA 130.2 (modified)
PZ13I-052102-BE	21-May-02	Total Hardness	464	MG/L	EPA 130.2 (modified)
MWB2-052102-BE	21-May-02	Total Hardness	559	MG/L	EPA 130.2 (modified)
MW18S-052102-BE	21-May-02	Total Hardness	397	MG/L	EPA 130.2 (modified)
MWC2-052102-BE	21-May-02	Total Hardness	446	MG/L	EPA 130.2 (modified)
PZ16D-052102-BE	21-May-02	Total Hardness	580	MG/L	EPA 130.2 (modified)
MWB1-052102-BE	21-May-02	Total Hardness	450	MG/L	EPA 130.2 (modified)
MWC1-052102-BE	21-May-02	Total Hardness	454	MG/L	EPA 130.2 (modified)
MWA2-052102-BE	21-May-02	Total Hardness	397	MG/L	EPA 130.2 (modified)
MWBB2-052102-BE	21-May-02	Total Hardness	553	MG/L	EPA 130.2 (modified)
MWA5-052102-BE	21-May-02	Total Hardness	509	MG/L	EPA 130.2 (modified)
MIP-01	08-Apr-03	Total Hardness	3360	MG/L AS CACO3	EPA 130.2 (modified)
MIP-10	10-Apr-03	Total Hardness	3060	MG/L AS CACO3	EPA 130.2 (modified)
MIP-07	10-Apr-03	Total Hardness	1560	MG/L AS CACO3	EPA 130.2 (modified)
MIP-03	11-Apr-03	Total Hardness	2150	MG/L AS CACO3	EPA 130.2 (modified)
MIP-06	16-Apr-03	Total Hardness	449	MG/L AS CACO3	EPA 130.2 (modified)
MW037S	16-Apr-03	Total Hardness	475	MG/L AS CACO3	EPA 130.2 (modified)
PZ040D	16-Apr-03	Total Hardness	404	MG/L AS CACO3	EPA 130.2 (modified)
MIP-05	16-Apr-03	Total Hardness	2210	MG/L AS CACO3	EPA 130.2 (modified)
MIP-09	16-Apr-03	Total Hardness	585	MG/L AS CACO3	EPA 130.2 (modified)
PZ032D	16-Apr-03	Total Hardness	569	MG/L AS CACO3	EPA 130.2 (modified)

Detects
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MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
PZ034I	16-Apr-03	Total Hardness	555	MG/L AS CACO3	EPA 130.2 (modified)
MIP-08	17-Apr-03	Total Hardness	2110	MG/L AS CACO3	EPA 130.2 (modified)
MW027S	17-Apr-03	Total Hardness	457	MG/L AS CACO3	EPA 130.2 (modified)
PZ025I	17-Apr-03	Total Hardness	650	MG/L AS CACO3	EPA 130.2 (modified)
MIP-04	17-Apr-03	Total Hardness	2260	MG/L AS CACO3	EPA 130.2 (modified)
EB-001	17-Apr-03	Total Hardness	148	MG/L AS CACO3	EPA 130.2 (modified)
PZ024I	18-Apr-03	Total Hardness	536	MG/L AS CACO3	EPA 130.2 (modified)
MW030S	18-Apr-03	Total Hardness	488	MG/L AS CACO3	EPA 130.2 (modified)
MIP-02	18-Apr-03	Total Hardness	1950	MG/L AS CACO3	EPA 130.2 (modified)
PZ019I	21-Apr-03	Total Hardness	469	MG/L AS CACO3	EPA 130.2 (modified)
MWB004	21-Apr-03	Total Hardness	413	MG/L AS CACO3	EPA 130.2 (modified)
PZ022I	22-Apr-03	Total Hardness	380	MG/L AS CACO3	EPA 130.2 (modified)
MW007S	22-Apr-03	Total Hardness	438	MG/L AS CACO3	EPA 130.2 (modified)
MWC002	22-Apr-03	Total Hardness	433	MG/L AS CACO3	EPA 130.2 (modified)
PZ022I	22-Apr-03	Total Hardness	382	MG/L AS CACO3	EPA 130.2 (modified)
MWC001	22-Apr-03	Total Hardness	464	MG/L AS CACO3	EPA 130.2 (modified)
PZ012D	23-Apr-03	Total Hardness	582	MG/L AS CACO3	EPA 130.2 (modified)
MWA005	23-Apr-03	Total Hardness	529	MG/L AS CACO3	EPA 130.2 (modified)
MW011S	23-Apr-03	Total Hardness	437	MG/L AS CACO3	EPA 130.2 (modified)
PZ008I	23-Apr-03	Total Hardness	444	MG/L AS CACO3	EPA 130.2 (modified)
PZ015I	23-Apr-03	Total Hardness	505	MG/L AS CACO3	EPA 130.2 (modified)
MWA004	23-Apr-03	Total Hardness	268	MG/L AS CACO3	EPA 130.2 (modified)
MIP-42	14-May-03	Total Hardness	2940	MG/L AS CACO3	EPA 130.2 (modified)
MIP-66	15-May-03	Total Hardness	2470	MG/L AS CACO3	EPA 130.2 (modified)

Detects
Dayton

MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
MIP-60	15-May-03	Total Hardness	922	MG/L AS CACO3	EPA 130.2 (modified)
MIP-40	05-Jun-03	Total Hardness	2000	MG/L AS CACO3	EPA 130.2 (modified)
MIP-34	05-Jun-03	Total Hardness	1410	MG/L AS CACO3	EPA 130.2 (modified)
MIP-26	17-Jun-03	Total Hardness	1440	MG/L AS CACO3	EPA 130.2 (modified)
MIP-46	17-Jun-03	Total Hardness	3120	MG/L AS CACO3	EPA 130.2 (modified)
MIP-18	18-Jun-03	Total Hardness	1960	MG/L AS CACO3	EPA 130.2 (modified)
MIP-31	18-Jun-03	Total Hardness	2510	MG/L AS CACO3	EPA 130.2 (modified)
MIP-43	19-Jun-03	Total Hardness	2160	MG/L AS CACO3	EPA 130.2 (modified)
MIP-44	19-Jun-03	Total Hardness	1930	MG/L AS CACO3	EPA 130.2 (modified)
PZ37S-051502-BE	15-May-02	Total Organic Carbon	1.24 J	MG/L	EPA 415.1
PZ37D-051502-BE	15-May-02	Total Organic Carbon	1.69 J	MG/L	EPA 415.1
PZ34D-051502-BE	15-May-02	Total Organic Carbon	1.61 J	MG/L	EPA 415.1
PZ34S-051502-BE	15-May-02	Total Organic Carbon	1.48 J	MG/L	EPA 415.1
PZ37I-051502-BE	15-May-02	Total Organic Carbon	1.79 J	MG/L	EPA 415.1
PZ34I-051502-BE	15-May-02	Total Organic Carbon	1.54 J	MG/L	EPA 415.1
PZ29-051602-BE	16-May-02	Total Organic Carbon	4.3	MG/L	EPA 415.1
PZ27S-051602-BE	16-May-02	Total Organic Carbon	1.06 J	MG/L	EPA 415.1
PZ29S-051602-BE	16-May-02	Total Organic Carbon	4.6	MG/L	EPA 415.1
PZ27D-051602-BE	16-May-02	Total Organic Carbon	1.29 J	MG/L	EPA 415.1
PZ29I-051602-BE	16-May-02	Total Organic Carbon	2.7	MG/L	EPA 415.1
PZ29D-051602-BE	16-May-02	Total Organic Carbon	1.85 J	MG/L	EPA 415.1
PZ27I-051602-BE	16-May-02	Total Organic Carbon	1.07 J	MG/L	EPA 415.1
PZ8I-052002-BE	20-May-02	Total Organic Carbon	2.5	MG/L	EPA 415.1
PZ8S-052002-BE	20-May-02	Total Organic Carbon	1.87 J	MG/L	EPA 415.1
PZ8D-052002-BE	20-May-02	Total Organic Carbon	1.9 J	MG/L	EPA 415.1
PZ12I-052002-BE	20-May-02	Total Organic Carbon	1.67 J	MG/L	EPA 415.1
MWA6-052002-BE	20-May-02	Total Organic Carbon	3.3	MG/L	EPA 415.1
PZ12D-052002-BE	20-May-02	Total Organic Carbon	2.2	MG/L	EPA 415.1
PZ16D-052102-BE	21-May-02	Total Organic Carbon	2.1	MG/L	EPA 415.1

Detects
Dayton

MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
MWA5-052102-BE	21-May-02	Total Organic Carbon	2.8	MG/L	EPA 415.1
MWBB2-052102-BE	21-May-02	Total Organic Carbon	2.7	MG/L	EPA 415.1
MWB2-052102-BE	21-May-02	Total Organic Carbon	2.1	MG/L	EPA 415.1
MWC2-052102-BE	21-May-02	Total Organic Carbon	1.4 J	MG/L	EPA 415.1
PZ13I-052102-BE	21-May-02	Total Organic Carbon	2.3	MG/L	EPA 415.1
MWA2-052102-BE	21-May-02	Total Organic Carbon	3	MG/L	EPA 415.1
MW18S-052102-BE	21-May-02	Total Organic Carbon	3.1	MG/L	EPA 415.1
MWB1-052102-BE	21-May-02	Total Organic Carbon	2	MG/L	EPA 415.1
MWC1-052102-BE	21-May-02	Total Organic Carbon	1.72 J	MG/L	EPA 415.1
PZ13D-052102-BE	21-May-02	Total Organic Carbon	2.2	MG/L	EPA 415.1
MIP-01	08-Apr-03	Total Organic Carbon	41.3	MG/L	EPA 415.1
MIP-10	10-Apr-03	Total Organic Carbon	1.8 J	MG/L	EPA 415.1
MIP-07	10-Apr-03	Total Organic Carbon	1.8 J	MG/L	EPA 415.1
MIP-03	11-Apr-03	Total Organic Carbon	4.8	MG/L	EPA 415.1
PZ032D	16-Apr-03	Total Organic Carbon	1.8 J	MG/L	EPA 415.1
PZ040D	16-Apr-03	Total Organic Carbon	0.74 J	MG/L	EPA 415.1
MIP-09	16-Apr-03	Total Organic Carbon	1 J	MG/L	EPA 415.1
MIP-06	16-Apr-03	Total Organic Carbon	0.9 J	MG/L	EPA 415.1
MIP-05	16-Apr-03	Total Organic Carbon	2.1	MG/L	EPA 415.1
MW037S	16-Apr-03	Total Organic Carbon	0.86 J	MG/L	EPA 415.1
PZ034I	16-Apr-03	Total Organic Carbon	1.8 J	MG/L	EPA 415.1
MW027S	17-Apr-03	Total Organic Carbon	0.89 J	MG/L	EPA 415.1
MIP-08	17-Apr-03	Total Organic Carbon	1.8 J	MG/L	EPA 415.1
MIP-04	17-Apr-03	Total Organic Carbon	2.2	MG/L	EPA 415.1
EB-001	17-Apr-03	Total Organic Carbon	0.93 J	MG/L	EPA 415.1
PZ025I	17-Apr-03	Total Organic Carbon	1.8 J	MG/L	EPA 415.1
PZ024I	18-Apr-03	Total Organic Carbon	2.1	MG/L	EPA 415.1
MW030S	18-Apr-03	Total Organic Carbon	1.3 J	MG/L	EPA 415.1
MIP-02	18-Apr-03	Total Organic Carbon	1.9 J	MG/L	EPA 415.1
PZ019I	21-Apr-03	Total Organic Carbon	0.82 J	MG/L	EPA 415.1
MWB004	21-Apr-03	Total Organic Carbon	0.82 J	MG/L	EPA 415.1
PZ022I	22-Apr-03	Total Organic Carbon	1.1 J	MG/L	EPA 415.1
MWC002	22-Apr-03	Total Organic Carbon	0.67 J	MG/L	EPA 415.1
MWC001	22-Apr-03	Total Organic Carbon	0.84 J	MG/L	EPA 415.1
MW007S	22-Apr-03	Total Organic Carbon	0.74 J	MG/L	EPA 415.1
PZ022I	22-Apr-03	Total Organic Carbon	0.94 J	MG/L	EPA 415.1
PZ012D	23-Apr-03	Total Organic Carbon	1.3 J	MG/L	EPA 415.1
MW011S	23-Apr-03	Total Organic Carbon	1 J	MG/L	EPA 415.1
PZ008I	23-Apr-03	Total Organic Carbon	6.8	MG/L	EPA 415.1
PZ015I	23-Apr-03	Total Organic Carbon	0.8 J	MG/L	EPA 415.1

Detects
Dayton

MP_ID	Date Sampled	PARAMETER	Result	UNITS	METHOD
MWA004	23-Apr-03	Total Organic Carbon	3.4	MG/L	EPA 415.1
MWA005	23-Apr-03	Total Organic Carbon	1.4 J	MG/L	EPA 415.1
MIP-42	14-May-03	Total Organic Carbon	3.2	MG/L	EPA 415.1
MIP-60	15-May-03	Total Organic Carbon	2.2	MG/L	EPA 415.1
MIP-66	15-May-03	Total Organic Carbon	2.8	MG/L	EPA 415.1
MIP-40	05-Jun-03	Total Organic Carbon	2.3	MG/L	EPA 415.1
MIP-34	05-Jun-03	Total Organic Carbon	1.6 J	MG/L	EPA 415.1
MIP-26	17-Jun-03	Total Organic Carbon	2.6	MG/L	EPA 415.1
MIP-46	17-Jun-03	Total Organic Carbon	1.5 J	MG/L	EPA 415.1
MIP-18	18-Jun-03	Total Organic Carbon	1.6 J	MG/L	EPA 415.1
MIP-31	18-Jun-03	Total Organic Carbon	1.7 J	MG/L	EPA 415.1
MIP-43	19-Jun-03	Total Organic Carbon	2.1	MG/L	EPA 415.1
MIP-44	19-Jun-03	Total Organic Carbon	1.6 J	MG/L	EPA 415.1
MWB004	14-Dec-94	Vanadium	30	UG/L	
MWA005 DUP	14-Dec-94	Vanadium	49	UG/L	
MWB002	14-Dec-94	Vanadium	36	UG/L	
MWC002	14-Dec-94	Vanadium	75	UG/L	
MWB005	14-Dec-94	Vanadium	41	UG/L	
MWB003	15-Dec-94	Vanadium	42	UG/L	
MWA004	15-Dec-94	Vanadium	29	UG/L	
MWC003	15-Dec-94	Vanadium	31	UG/L	
MWA003	21-Feb-95	Vanadium	20	UG/L	
WL0004	22-Nov-99	Zinc	5420	UG/L	SW-846 6010B
WL49011	22-Nov-99	Zinc	45200	UG/L	SW-846 6010B
WL41011	23-Nov-99	Zinc	450	UG/L	SW-846 6010B
WL33511	29-Nov-99	Zinc	75	UG/L	SW-846 6010B
WL0006	30-Nov-99	Zinc	3320	UG/L	SW-846 6010B
WL0008	09-Dec-99	Zinc	982	UG/L	SW-846 6010B
WL41092	13-Dec-99	Zinc	456	UG/L	SW-846 6010B
WL41141	20-Dec-99	Zinc	843	UG/L	SW-846 6010B
WL2611	20-Dec-99	Zinc	962	UG/L	SW-846 6010B
WL41171	06-Jan-00	Zinc	13100	UG/L	SW-846 6010B
WL0009	07-Jan-00	Zinc	398	UG/L	SW-846 6010B
WL0010	11-Jan-00	Zinc	311	UG/L	SW-846 6010B
WL0011	11-Jan-00	Zinc	5740	UG/L	SW-846 6010B
WL0012	16-Jan-00	Zinc	151	UG/L	SW-846 6010B
WL40J1	28-Jan-00	Zinc	410	UG/L	SW-846 6010B
WL40K1	31-Jan-00	Zinc	220	UG/L	SW-846 6010B
WL3191	28-Feb-00	Zinc	270	UG/L	SW-846 6010B
WL40J2	18-May-00	Zinc	1820	UG/L	SW-846 6010B
WL41131	30-Mar-01	Zinc	4250	UG/L	SW-846 6010B

Heat up. Cool down.

BEHR

June 18, 2003

Mr. James Simpson, Manager
Division of Surface Water
Lazarus Government Center
122 South Front Street
Columbus, OH 43215

Re: Resubmittal of NPDES Permit Modification Application

Dear Mr. Simpson:

BEHR Dayton Thermal Products is in receipt of your letter (copy attached) dated May 21, 2003. In your letter you state that OEPA is unable to review our application for a modification to our NPDES Permit at this time due to a dispute in authority between OEPA and the State Board of Registration for Professional Engineers and Surveyors. You enclosed the application being returned for the stated reason.

We believe this puts BEHR Dayton Thermal Products at severe disadvantage due to being in effect "caught in the middle" of a controversy involving two parties not related to Behr Dayton Thermal Products. Our goal is to comply with all existing OEPA regulations and we as such filed the Permit Modification Application to update our existing NPDES Permit to reflect a discharge flow increase anticipated later this year. The application was filed in compliance with existing EPA protocol as of the filing date of January 21, 2003. These regulations did not then and do not now require a PE Stamp on Plans and Specifications and such a stamp has not been required under OEPA Regulations dating back to at least 1972.

In the spirit of keeping our Permit in full compliance Behr Dayton Thermal Products has obtained a review and PE certification stamp and is herewith resubmitting the said Permit Modification Application for your review and action. This should not be interpreted in any way as our acceptance that a PE stamp should be required on Plans and Specifications. This is merely our good faith action to keep our Application on-going in the review process.

We further request that our official application filing date be January 21, 2003 as stamped on the original documents when you received them, so that our permit modification may be issued on a timely basis.

Behr America, Inc.
2700 Daley Drive
Troy, MI 48083
Tel: (248) 743-3700

Behr America, Inc.
1307 Highview Drive
Webberville, MI 48892
Tel: (517) 521-1910

Behr Climate Systems, Inc.
5020 Augusta Drive
Fort Worth, TX 76106
Tel: (817) 624-7273

Behr Heat Transfer Systems, Inc.
4500 Leeds Avenue
Charleston, SC 29405
Tel: (843) 745-1233

47920 5th Street
Canton, SD 57013
Tel: (605) 764-2347

Behr Dayton Thermal Products, LLC
1600 Webster Street
Dayton, OH 45404
Tel: (937) 224-2900

Member of the Behr Group

If you should have any questions, or need any additional information, please let me know.

Sincerely,

Bill Huston

Bill Huston
Environmental Engineer

Cc to: John Spitler – OEPA Southwest District Office
Katja Knupfer – BEHR Legal Department

OhioEPA

State of Ohio Environmental Protection Agency

Street Address
Lazarus Government Center
122 South Front Street
Columbus, Ohio 43215

Mailing Address
P.O. Box 1049
Columbus, Ohio 43216-1049

May 21, 2003

CERTIFIED MAIL

Mr. Bill Huston
Behr Dayton Thermal Products
1600 Webster Street
Dayton, OH 45404

RE: REQUIREMENTS FOR PROFESSIONAL ENGINEER STAMP ON ALL WASTEWATER PLANS

Dear Mr. Huston:

On May 11, 1999, Director Jones requested a formal Attorney General Opinion in order to receive clarification as to whether Ohio EPA has the regulatory authority to review and approve engineering plans that have not been prepared by a Professional Engineer. On November 17, 1999 the Attorney General issued a formal Opinion No. 99-053 in response to the request. The Opinion contained the following legal conclusion:

"Absent a statute or validly adopted rule that authorizes the Director of Environmental Protection to reject plans that have been submitted to the Ohio Environmental Protection Agency for review under R.C. Chapter 6109 or R.C. Chapter 6111 on the basis that such plans have not been prepared by a registered engineer, the Director is with out authority to reject such plans on that basis".

Currently, Ohio EPA does not have any existing rules in its surface water, drinking water, air, or solid waste programs that authorize the Director to reject engineering plans on the basis that they have not been prepared by a professional engineer.

After receiving this Opinion, Ohio EPA was preparing to move forward and process all pending plans. As part of those preparations, on December 14, 1999, Ohio EPA met with the State Board of Registration for Professional Engineers and Surveyors to ensure the Board was comfortable with Ohio EPA engineers approving plans that were not prepared by a professional engineer.

On February 4, 2000 the State Board of Registration for Professional Engineers and Surveyors sent a letter to Ohio EPA indicating its opinion that Ohio EPA engineers should not process any plans that have not been prepared by a professional engineer. In its letter, the Board states that any Ohio EPA engineer that would approve such plans would not only be subject to professional discipline, but the Board believes that the engineer could be guilty of aiding and abetting in the unregistered practice of engineering, a criminal offense.

Obviously, the Board's statement have placed Ohio EPA in an impossible position. If the Agency approves plans that lack a PE Stamp in accordance with the Attorney General's Opinion, Ohio EPA engineers are faced with professional discipline as well as the threat of criminal charges. Therefore, it is Ohio EPA belief that the only appropriate action at the present time is to not approve any pending engineering plans that were not prepared by a professional engineer.

Ohio EPA will be attempting to resolve this issue by drafting rules and seeking guidance from the Board as to which plans the Board believes can be approved without a PE stamp. However, there are no assurances that Ohio EPA will receive interim guidance that will enable it to process plans prior to promulgation of rules.

You have submitted plans to our Office for the Division of Surface Water. Our review of those plans indicates that they do not have a PE Stamp. Because of the circumstances noted above, Ohio EPA is not able to complete its review of your plans at this time. Your options are as follows: 1) Request return of the plans and other application materials with the associated fee; or 2) Resubmit plans that do have a PE Stamp.

In developing rules on this issue, Ohio EPA will seek input from all interested parties. You will have an opportunity to comment on the draft rule requirements for plans at that time. You should also be aware that H.B. 560 has been introduced on behalf of the Board. An excerpt from H.B. 560 is as follows:

"No Public Authority...shall accept or use any engineering or surveying plan from any person not registered as a professional engineer or professional surveyor under this Chapter."

Passage of this legislation, as currently written, would impact Ohio EPA's promulgation of rules on this issue.

Enclosed you will find your check #101396 in the amount of $864.30 and your application with your plans. Also you will find your NPDES Modification Permit which was received without the required $200.00 fee.

We regret any problems that this may cause for you or your project. Thank you for you patience in this matter. Ohio EPA hopes that a resolution is reached on this issue in the near future.

Sincerely,

James Simpson, Manager
Division of Surface Water

Enclosures

Heat up. Cool down.

BEHR

Mr. John Spitler
OEPA
Division of Surface Water
Southwest District Office
401 East Fifth Street
Dayton, OH 45402

Re: Modification of NPDES Permit for BEHR Dayton Thermal Products

Dear Mr. Spitler:

Enclosed is a completed permit modification and PTI for the expanded SVE system at the BEHR Dayton Thermal Products plant. You will recall we discussed the system and the permit modification at a recent meeting held here at the Plant.

If you should have any additional questions, or need any additional information, please give me a call at 224-2467.

Sincerely,

Bill Huston

Bill Huston
Environmental Engineer

Behr America, Inc.
2700 Daley Drive
Troy, MI 48083
Tel: (248) 743-3700

Behr America, Inc.
1307 Highview Drive
Webberville, MI 48892
Tel: (517) 521-1910

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Behr Heat Transfer Systems, Inc.
4500 Leeds Avenue
Charleston, SC 29405
Tel: (843) 745-1233
47920 5th Street
Canton, SD 57013
Tel: (605) 764-2347

Behr Dayton Thermal Products, LLC
1600 Webster Street
Dayton, OH 45404
Tel: (937) 224-2900

Behr DTP, LLC
1600 Webster St.
Dayton, OH 45404

Stub 1 of 1
Check Date:

NO. 00101396

INVOICE NO.	DATE	DESCRIPTION	GROSS	DEDUCTIONS	AMOUNT PAID
	01/14/03	OHIO EPA PERMIT APPLICATION FEE			$ 864.30
		TREASURER, STATE OF OHIO			

VENDOR

THIS CHECK IS VOID WITHOUT A COLORED BACKGROUND AND AN ARTIFICIAL FINGERPRINT & CERTIFICATION SEAL WATERMARK ON THE BACK - HOLD AT ANGLE TO VIEW

BEHR AMERICA

Behr DTP, LLC
1600 Webster St.
Dayton, OH 45404

32-2/1110
NATIONAL CITY BANK - OH
DAYTON, OH
OPERATING ACCOUNT

NO. 101396

VENDOR	DATE	AMOUNT
	01/14/03	$ 864.30

PAY EIGHT HUNDRED SIXTY-FOUR AND 30/100 DOLLARS

TO THE ORDER OF TREASURER, STATE OF OHIO

AUTHORIZED SIGNATURES
SIGNATURE HAS A COLORED BACKGROUND © BORDER CONTAINS MICROPRINTING

U.S. PATENT NO 5538290;5575508;5641183;5758253

⑈ 101396 ⑈ ⑆044000011⑆ ⑈657387617⑈

SEE ENDORSEMENT AREA ON BACK FOR U.S. PATENT 5538290;5575508;5641183

A

OhioEPA

Ohio Environmental Protection Agency

Permit to Install/Plan Approval Application

FOR AGENCY USE ONLY

Date Received: / / Application Number: _____ Basin Code: _____

Check Date: / / Check Number: _____ Check Amount: _____

1. **Project Name:** Dayton Thermal Products Groundwater Remediation

2. **Applicant:**
   Name: Behr Dayton Thermal Products
   Mailing Address: 1600 Webster Street
   City: Dayton State: Ohio Zip: 45404
   Contact Name: Bill Huston Title: Environmental Engineer
   Phone: (937) 224 - 2467 Fax: (937) 224 - 2571

3. **Application/Plans Prepared by:**
   Name: Earth Tech
   Mailing Address: 4135 Technology Parkway
   City: Sheboygan State: WI Zip: 53083
   Contact Name: Rob Stenson Title: Project Manager
   Phone: (937) 458-8711 Fax: (937) 458-0550

4. **Billing Address (if different than Applicant):**
   Name: * SAME *
   Mailing Address: _____
   City: _____ State: _____ Zip: _____
   Contact Name: _____ Title: _____
   Phone: ( ) - Fax: ( ) -

5. **Owner (if different than Applicant):**
   Name: *SAME *
   Mailing Address: _____
   City: _____ State: _____ Zip: _____
   Contact Name: _____ Title: _____
   Phone: ( ) - Fax: ( ) -

6. **Project Location:**
   Street Address or Location Description: 1600 Webster Street
   County: Montgomery Township/Municipality: _____
   Latitude: 39° 47' 05" Longitude: 84° 10' 50" Method of Determination: USGS MAP

A

7. Brief Project Description:
Installation of two (2) air strippers for the treatment of up to 400 gallons per minute of groundwater and 600 feet of 4" HDPE discharge piping.

Will five acres or more be disturbed during construction of this project? ____ Yes X No

8. a. Is this application part of a combined permit to install application? (e.g. Air + Water) ___ Yes X No
b. Has an application for a Class V injection well Permit to Install been submitted? X Yes ___ No
If yes, date submitted: _____

9. **Is this application for the construction or installation of a private sewage disposal system as specified by Ohio Revised Code (ORC) 6112.02?** ___ Yes X No
If yes, have you applied for and obtained a certificate of public convenience and necessity from PUCO as specified by ORC 6112.03? ___ Yes ___ No

10. **Compliance Status**
a. Does this facility have a NPDES permit? X Yes ___ No
If yes, permit numbers: OH 0009199 _____
b. Is this application filed in compliance with findings and orders, a consent decree, and/or NPDES permit schedule?
___ Yes Effective Date of the document containing the schedule: ___/___/___
X No

11. **Have pollution prevention concepts been considered for this project?** X Yes ___ No
If yes, please describe (*attach additional pages if necessary*):
All piping will be pressure tested at 150% of process pressure. All treatment equipment will be housed in a bermed building with a sump. sensors will shut down the system if rapid pressure loss is detected.

12. **Estimated Project Schedule:**
Beginning construction date: 3 / 31 / 03
Ending construction date: 6 / 30 / 03
Beginning operation date: 7 / 1 / 03

13. Project Cost:
Installation/Construction Cost: $ 102,000.00
(Mark one): Actual_____ Bid_____ Estimate X
Annual Operation/Maintenance Cost (if applicable - this project only) $ 4,000.00
Are Water Pollution Control Loan Funds going to be used for this project? ___ Yes X No
If no, Funding Source: Behr

A

14. **Attachments.** The following are included in this application package (indicate how many copies of each are provided):

____ Detail Plans
____ Engineering Report
_4_ Engineering Specifications
____ Management Plan
____ Hydrogeologic Site Investigation Report
____ Other (describe): _____

15. **Form B Submission** (check all that apply):

	Form
☐ Sewer and Pump Station Construction	B1
☐ On-Site Sanitary Wastewater Disposal	B2
☐ Wastewater Treatment Plants Less Than 100,000 GPD	B3
☐ Wastewater Treatment Plants Greater Than or Equal to 100,000 GPD and all Pond Systems	B4
☒ Industrial Direct Discharge Facility	B5
☐ Industrial Indirect Discharge Facility	B6
☐ Underground Storage Tank Remediation	B7
☐ Livestock Waste	B8
☐ Land Application or Sludge Management Plan	B9

16. **Fee Calculations:**

Permit to Install (maximum total fee $15,100)

a. Application fee:	$ 100.00
b. Plan review fee:	$ 100.00
c. Plan review fee (installation/construction cost x .0065):	$ 664.30
d. Total Fee (a + b + c):	$ 864.30

Land Application*/Livestock Plan Approval

a. Application fee:	$ 100.00
b. Plan review fee:	$ 100.00
c. Total fee (a + b):	$ 200.00

* No separate fee is needed for land application of treated wastewater if the management plan is submitted as part of the PTI application for system installation.

17. **Signature of the Applicant:** (see Ohio Administrative Code 3745-31-04)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that all the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are substantial penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Typed name: Wilhelm Baum
Title: Operations Manager
Signature: [signature]
Date: 14/01/03

Ohio Environmental Protection Agency
Application for Modification of
Ohio NPDES Permit

For Agency Use	Application Number
	Date Received
	Year Month Day

1. Number of permit for which modification is being requested OH 0009199

2. Name of organization responsible for facility Behr Dayton Thermal Prod.

3. Address, location, and telephone number of facility producing discharge:

   A. Name Behr Dayton Thermal Products

   B. Mailing Address:

      1. Street Address 1600 Webster Street

      2. City Dayton

      3. State Ohio 4. Zip Code 45404

   C. Location:

      1. Street ** SAME **

      2. City 3. County Montgomery

   D. Telephone No. 937 224-2467
      Area Code

4. Describe in detail the provision(s) of the permit the applicant wishes to modify.
   Daily average flow to outfall will increase by approximitely 200,000 gallons per day

5. Describe in detail the reason a modification is desired. (See Regulation OAC 3745-33-06 for grounds for modification.)

   Ground water removal of contaminants is to be discharged to existing storm water out fall 002.

6. Name of receiving water or waters Great Miami River

7. Describe requested modification in sufficient detail to allow Ohio Environmental Protection Agency to process your request. If a Permit to Install is required under Regulation OAC 3745-31 attach a completed application for a Permit to Install and make no other entries in this section. If a Permit to Install is not required and additional space is needed provide the additional information on 8-1/2 by 11 bond paper and mark item 7 continued in the upper left hand corner of each extra sheet.

Under OEPA's Vap program, a ground water remediation project is being initiated at Behr Dayton Thermal Products. A SVE system is to be installed to pump the groundwater in the affected area and remove the contaminates by a combination of air purging and activated carbon absorption, cleaned water of equal quality to the non-contact cooling water in storm water outfall 002 will then be discharged via outfall 002.

(This application must be signed by the person who applied for the original permit or some other person eligible under OAC 3745-33-03.)

I certify that I am familiar with the information contained in the application and that to the best of my knowledge and belief such information is true, complete, and accurate.

Wilhelm Baum
Printed Name of Person Signing

Operations Manager
Title

14/01/03
Date Application Signed

Signature of Applicant

Mail or take this form to the Ohio EPA District Office to which you send monitoring reports.

Supplement to Form A

B5

OhioEPA

Ohio Environmental Protection Agency

Permit to Install/Plan Approval Application

Industrial Direct Discharger Facility

AGENCY USE ONLY

Application Number

Date Submitted

Applicant: Behr Dayton Thermal Products

Facility Owner:

Application/Plans Prepared by: Bill Huston

Project Name:

1. **Effluent quality of discharge from proposed treatment facility or project (concentration and loadings required)**

	30 Day Average		Daily Maximum	
Parameter	Concentration (units)	Load* (kg/day)	Concentration (units)	Load* (kg/day)
I,I, I, TCA	<1 PPb	0	<1 PPb	0
PERC	<1 PPb	0	<1 PPb	0
TCE	<1 PPb	0	<1 PPb	0
CIS 1, 2 DCE	3 PPb	2.8×10^{-5}	<3 PPb	2.8×10^{-5}
1, 1 DCE	<1 PPb	0	<1 PPb	0
Vinyl Chloride	<1 PPb	0	<1 PPb	0

* Load calculations completed by using 0.58 MGD flow.

2. **List the hydraulic design capacity of the major components of the wastewater treatment system:**

Component	gpm

Component	gpm

3. **List the sequence of receiving streams from the initial discharge point up to the first named stream:**

A. City of Dayton Storm sewer at webster street
B. Great Miami River

4. **Is this facility regulated by an NPDES permit?** ☒ Yes ☐ No

If yes, permit numbers: OH 0009199

Supplement to Form A **B5**

5. **Contact person responsible for the technical aspects of this project:**

Name: Bill Huston Phone No.: (937) 224-2467
Title: Env. Engineer Company: Behr

6. **If the proposed wastewater treatment system is for a new facility or operation, has a site inspection been conducted by an Ohio EPA, Division of Surface Water representative?** ☐ Yes ☐ No

If no, contact your Ohio EPA district office

7. **Submittals**

This application must include the following unless otherwise directed by the Ohio EPA district office:

- ☒ Four copies of the detail plans which include site plans, vicinity map, schematic diagrams, plan views, elevation views and cross-sectional views necessary to evaluate the processes
- ☒ Two copies of complete technical specifications
- ☒ Two copies of the Permit to Install/Plan Approval Application including Form A and the appropriate B forms
- ☒ Fee check made payable to "Treasurer, State of Ohio"

8. The foregoing data is a true statement of facts pertaining to this proposed industrial direct discharge installation.

Date: 1-13-03 Signed: Bill Huston
Engineer preparing plans

OhioEPA
State of Ohio Environmental Protection Agency

DIVISION OF SURFACE WATER

Antidegradation Addendum

In accordance with Ohio Administrative Code 3745-1-05 (Antidegradation), additional information may be required to complete your application for a permit to install or NPDES permit. For any application that may result in an increase in the level of pollutants being discharged (NPDES and/or PTI)or for which there might be activity taking place within a stream bed, the processing of the permit(s) may be required to go through procedures as outlined in the antidegradation rule. The rule outlines procedures for public notification and participation as well as procedures pertaining to the levels of review necessary. The levels of review necessary depend on the degradation being considered/requested. The rule also outlines exclusions from portions of the application and review requirements and waivers that the Director may grant as specified in Section 3745-1-05(D) of the rule. Please complete the following questions. The answers provided will allow the Ohio EPA to determine if additional information is needed. **All projects that require both an NPDES and PTI should submit both applications simultaneously to avoid going through the antidegradation process separately for each permit.**

A. **Applicant:** Behr Dayton Thermal Products

Facility Owner: (SAME)

Facility Location (city and county): Dayton - Montgomery County

Application or Plans Prepared By: Bill Huston

Project Name: SVE Discharge to existing storm water outfall 002

NPDES Permit Number (if applicable): OH 0009199

B. **Antidegradation Applicability**

Is the application for? (check as many as apply):

____ Application with no direct surface water discharge (Projects that do not meet the applicability section of 3745-1-05(B)1, i.e., on-site disposal, extensions of sanitary sewers, spray irrigation, indirect discharger to POTW, etc.). (Complete Section E)

X Renewal NPDES application or PTI application with no requested increase in loading of currently permitted pollutants. (Complete Section E, Do not complete Sections C or D).

____ PTI and NPDES application for a new wastewater treatment works that will discharge to a surface water. (Complete Sections C and E)

____ An expansion/modification of an existing wastewater treatment works discharging to a surface water that will result in any of the following (PTI and NPDES):(Complete Section C and E)

- addition of any pollutant not currently in the discharge, or
- an increase in mass or concentration of any pollutant currently in the discharge, or
- an increase in any current pollutant limitation in terms of mass or concentration.

_____ PTI that involves placement of fill or installation of any portion of a sewerage system (i.e., sanitary sewers, pump stations, WWTP, etc.)within 150 feet of a stream bed. Please provide information requested on the stream evaluation addendum (i.e., number of stream crossings, fill placement, etc.) and complete section E.

_____ Initial NPDES permit for an existing treatment works with a wastewater discharge prior to October 1, 1996. (Complete Sections D and E)

_____ Renewal NPDES permit or modification to an effective NPDES permit that will result in any of the following:(Complete Section C and E)

- a new permit limitation for a pollutant that previously had no limitation, or
- an increase in any mass or concentration limitation of any pollutant that currently has a limitation.

C. Antidegradation Information

1. Does the PTI and/or NPDES permit application meet an exclusion as outlined by OAC 3745-1-05(D)(1) of the Antidegradation rule?

   _____ Yes (Complete Question C.2)

   _____ No (Complete Questions C.3 and C.4)

2. For projects that would be eligible for exclusions provide the following information:

   a. Provide justification for the exclusion.

   b. Identify the substances to be discharged, including the amount of regulated pollutants to be discharged in terms of mass and concentration.

   c. A description of any construction work, fill or other structures to occur or be placed in or near a stream bed.

3. Are you requesting a waiver as outlined by OAC 3745-1-05(D)(2-7) of the Antidegradation rule?

   _____ No

   _____ Yes

   If you wish to pursue one of the waivers, please identify the waiver and submit the necessary information to support the request. Depending on the waiver requested, the information required under question C.4 may be required to complete the application.

4. For all projects that do <u>not</u> qualify for an exclusion a report must accompany this application evaluating the preferred design alternative, non-degradation alternatives, minimal degradation alternatives, and mitigative techniques/measures for the design and operation of the activity. The information outlined below should be addressed in this report. If a waiver is requested, this section is still required.

a. Describe the availability, cost effectiveness and technical feasibility of connecting to existing central or regional sewage collection and treatment facilities, including long range plans for sewer service outlined in state or local water quality management planning documents and applicable facility planning documents.

b. List and describe all government and/or privately sponsored conservation projects that may have been or will be specifically targeted to improve water quality or enhance recreational opportunities on the effected water resource.

c. Provide a brief description below of all treatment/disposal alternatives evaluated for this application and there respective operational and maintenance needs. (If additional space is needed please attach additional sheets to the end of this addendum).

Preferred design alternative: _____

_____

_____

Non-degradation alternative'(s): _____

_____

_____

Minimal degradation alternative'(s): _____

_____

_____

Mitigative technique/measure'(s): _____

_____

_____

_____

At a minimum, the following information must be included in the report for each alternative evaluated.

d. Outline of the treatment/disposal system evaluated, including the costs associated with the equipment, installation, and continued operation and maintenance.

e. Identify the substances to be discharged, including the amount of regulated pollutants to be discharged in terms of mass and concentration.

f. Describe the reliability of the treatment/disposal system, including but not limited to the possibility of recurring operation and maintenance difficulties that would lead to increased degradation.

g. Describe any impacts to human health and the overall quality and value of the water resource.

h. Describe and provide an estimate of the important social and economic benefits to be realized through this proposed project. Include the number and types of jobs created and tax revenues generated.

i. Describe environmental benefits to be realized through this proposed project.

j. Describe and provide an estimate of the social and economic benefits that may be lost as a result of this project. Include the impacts on commercial and recreational use of the water resource.

k. Describe the environmental benefits lost as a result of this project. Include the impact on the aquatic life, wildlife, threatened or endangered species.

l. A description of any construction work, fill or other structures to occur or be placed in or near a stream bed.

m. Provide any other information that may be useful in evaluating this application.

D. Discharge Information

1. For treatment/disposal systems constructed pursuant to a previously issued Ohio EPA PTI, provide the following information:

PTI Number _____
PTI Issuance Date _____
Initial Date of Discharge _____

2. Has the appropriate NPDES permit application form been submitted including representative effluent data?

_____ Yes (go to E)

_____ No (see below)

If no, submit the information as applicable under a OR b as follows:

a. For entities discharging process wastewater attach a completed 2C form.

b. For entities discharging wastewater of domestic origin attach the results of at least one chemical analysis of the wastestream for all pollutants for which authorization to discharge is being requested and a measurement of the daily volume (gallons per day) of wastewaters being discharged.

E. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete.

This section must be signed by the same responsible person who signed the accompanying permit application or certification as per 40 CFR 122.22.

Signature _____

Date 14/01/03

Stream Evaluation Addendum

1. Are there any sewer line stream crossings as part of this PTI? Yes____ No X
2. Will there be any other activity in the stream bed (i.e. channelization, relocation, rip-rap)? Yes____ No X
3. Is the drainage area of the stream (at the location of the project) less than 20 square miles? Yes X No____
4. Will there be any construction activity within 2.5 times the width of the streambed (measured from each side)? Yes____ No X
5. Is the stream designated one of the following uses? Coldwater Habitat, Seasonal Salmonid Habitat, Exceptional Warmwater Habitat, State Resource Water. Yes X No____

If you answered "no" to all five questions, do not complete sections I and II of this addendum. If you answered yes to any of the questions, please complete sections I and II.

I. Fill in the number of sewer line stream crossings for the appropriate use designation of the stream that is being crossed. If more than 2 stream crossings in any one mile segment the amount of points should be doubled for this section. (NOT APPLICABLE)

Use Designation	Points		Total # Crossings		Points		Total Points
LRW, NP	10	x	____	=	____		
MWH	15	x	____	=	____		
WWH	20	x	____	=	____		
EWH	25	x	____	=	____		
CWH	50	x	____	=	____		
SRW or SSH	10	x	____	=	____		
TOTAL					____	X2 (if >2 crossings/mile ave)	____

II. Tabulate the conversion factor column for the appropriate use designation and stream width adding the appropriate factor for any streams that are state resource waters. Multiply the conversion factor by the total lineal footage parallel to but not crossing the stream bed.

(NOT APPLICABLE)

Use Designation	Stream Width (Average) <10'	10'<100'	>100'		Lineal footage of Construction Activity	
LRW, NP	.1	.07	.04		x(total within 25')	
MWH	.12	.09	.06		x(total within 35')	
WWH	.14	.11	.08		x(total within 100')	
EWH	.16	.13	.1		x(total within 100')	
CWH	.2	.17	.14		x(total within 150')	
SRW or SSH	+.04	+.03	+.02		x(total within 150')	
TOTAL	____	____	____	X	____(Lineal ft)=	____

Total Points I + II ____

0	40	60	100
Low Impact Project	Intermediate		High Impact Project

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

DRAWN BY: JRD	EDITED BY: JRD	PROJECT NUMBER: 55465	FILE NAME:
CHECKED BY: JE	DATE: DEC. 20, 2002	SCALE: ------	WELL PLACEMENT REV1

FIGURE 1
VICINITY MAP
DAYTON THERMAL PRODUCTS SITE
DAYTON, OHIO

Fax Number:	(937) 224-2571
Email Address:	Billy.huston@us.behrgroup.com
Date:	9-Jul-03
No. Pages:	23

Subject: NPDES Permit Modification Application

Behr America, Inc.
2700 Daley Drive
Troy, MI 48083
Tel: (248) 743-3700

Behr America, Inc.
1307 Highview Drive
Webberville, MI 48892
Tel: (517) 521-1910

Behr Climate Systems, Inc.
5020 Augusta Drive
Fort Worth, TX 76106
Tel: (817) 624-7273

Behr Heat Transfer Systems, Inc.
4500 Leeds Avenue
Charleston, SC 29405
Tel: (843) 745-1233

47920 5th St.
Canton, SD 57013
Tel: (605) 764-2347

Behr Dayton Thermal Products LLC
1600 Webster Street
Dayton, OH 45404
Tel: (937) 224-2900

Member of the Behr Group
www.behrgroup.com

Heat up. Cool down.

BEHR

Fax

To:	Rob Stenson	**From:**	Bill Huston
Fax Number:	(920) 458-0550	Department:	Environmental
Company:	Earth Tech	Telephone Number:	(937) 224-2467
		Fax Number:	(937) 224-2571

FAX

Date: 7-9-03

To: Mary Waters

Fax #: 248-512-~~1658~~ 4196

Company: DCX

From: Rob Stenson

Ext. #:

Address: **Sheboygan, WI**
4135 Technology Parkway
Sheboygan, WI 53083

Sending From Fax #:

__ (920) 458-0537
__ (920) 458-3644
__ (920) 458-0550
__ (920) 458-8771
__ (920) 458-0948

Project #:

Subject: Dayton Thermal NPDES Permit

Comments: Mary - Attached is the Behr Permit Modification. I plan to email you a link to the OEPA regs
Thanks Rob

If you do not receive 22 Pages (including cover page),
please call us as soon as possible at (920) 458-8711

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

FAX

Date: 7-9-03

To: Mike Curry

Fax #: 248-576-7369

Company: DCX

From: Rob Stenson

Ext. #:

Address: **Sheboygan, WI**
4135 Technology Parkway
Sheboygan, WI 53083

Sending From Fax #:
__ (920) 458-0537
__ (920) 458-0550
__ (920) 458-8771
__ (920) 458-0948
__ (920) 458-3644

Project #:

Subject: Dayton Thermal NPDES Permit

Comments: Mike - Attached is the Behr NPDES Permit Mod. Application
Thanks, Rob

If you do not receive 22 Pages (including cover page),
please call us as soon as possible at (920) 458-8711

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

MCL Exceedances
Dayton

MP_ID	DATESAMP	PARAMETER	RESULT	imitNumbe	QUAL	ictable_wate	andards U	METHOD
WL33511	29-Nov-99	2,4-D	185	70		UG/L	ug/L	SW-846 8151A
MWA001	13-Dec-94	Antimony	6.6	6		UG/L	ug/L	
WL00002	03-Oct-98	Aroclor 1254	43	0.5	P	UG/L	ug/L	CLP3-90PEST
WL41141	20-Dec-99	Aroclor 1254	2.19	0.5	J	UG/L	ug/L	SW-846 8081A/8082
WL41011	23-Nov-99	Aroclor 1254	52.7	0.5		UG/L	ug/L	SW-846 8081A/8082
WL41092	13-Dec-99	Aroclor 1254	5.2	0.5		UG/L	ug/L	SW-846 8081A/8082
WL2611	20-Dec-99	Aroclor 1254	3.3	0.5		UG/L	ug/L	SW-846 8081A/8082
WL33511	29-Nov-99	Aroclor 1254	13.9	0.5		UG/L	ug/L	SW-846 8081A/8082
WL0004	22-Nov-99	Aroclor 1254	32.9	0.5		UG/L	ug/L	SW-846 8081A/8082
WL41171	06-Jan-00	Aroclor 1254	370	0.5	J	UG/L	ug/L	SW-846 8081A/8082
WL49011	22-Nov-99	Aroclor 1254	0.92	0.5		UG/L	ug/L	SW-846 8081A/8082
WL40K1	31-Jan-00	Aroclor 1254	874	0.5		UG/L	ug/L	SW-846 8081A/8082
WL40J1	28-Jan-00	Aroclor 1254	9290	0.5		UG/L	ug/L	SW-846 8081A/8082
WL0006	30-Nov-99	Aroclor 1254	57	0.5		UG/L	ug/L	SW-846 8081A/8082
WL40J2	18-May-00	Aroclor 1254	9600	0.5		UG/L	ug/L	SW-846 8081A/8082
WL3191	28-Feb-00	Aroclor 1254	240	0.5		UG/L	ug/L	SW-846 8081A/8082
WL0006	30-Nov-99	Arsenic	62	10		UG/L	ug/L	SW-846 6010B
MWC001	22-Apr-03	Arsenic	10.4	10		UG/L	ug/L	SW-846 6010B
WL40K1	31-Jan-00	Arsenic	14	10		UG/L	ug/L	SW-846 6010B
WL0008	09-Dec-99	Arsenic	20	10		UG/L	ug/L	SW-846 6010B
WL40J2	18-May-00	Arsenic	65	10		UG/L	ug/L	SW-846 6010B
PZ021I	22-Apr-03	Arsenic	15.5	10		UG/L	ug/L	SW-846 6010B
WL40J1	28-Jan-00	Barium	3510	2000		UG/L	ug/L	SW-846 6010B
WL40K1	31-Jan-00	Barium	5340	2000		UG/L	ug/L	SW-846 6010B
WL2611	20-Dec-99	Benzo(a)pyrene	2	0.2	J	UG/L	ug/L	SW-846 8270C
WL0004	22-Nov-99	Benzo(a)pyrene	4	0.2	J	UG/L	ug/L	SW-846 8270C
WL49011	22-Nov-99	Benzo(a)pyrene	6	0.2	J	UG/L	ug/L	SW-846 8270C
WL41011	23-Nov-99	Benzo(a)pyrene	10	0.2		UG/L	ug/L	SW-846 8270C
WL00002	03-Oct-98	Benzo(a)pyrene	8	0.2	J	UG/L	ug/L	CLP3-90SVOA
WL0004	22-Nov-99	bis(2-Ethylhexyl)phthalate	46	6		UG/L	ug/L	SW-846 8270C
WL0006	30-Nov-99	bis(2-Ethylhexyl)phthalate	17	6		UG/L	ug/L	SW-846 8270C
WL00002	03-Oct-98	bis(2-Ethylhexyl)phthalate	23	6	B	UG/L	ug/L	CLP3-90SVOA
WL41131	30-Mar-01	bis(2-Ethylhexyl)phthalate	39	6		UG/L	ug/L	SW-846 8270C
WL41171	06-Jan-00	bis(2-Ethylhexyl)phthalate	830	6	J	UG/L	ug/L	SW-846 8270C
WL3191	28-Feb-00	bis(2-Ethylhexyl)phthalate	12	6		UG/L	ug/L	SW-846 8270C

MCL Exceedances
Dayton

MP_ID	DATESAMP	PARAMETER	RESULT	imitNumbe	QUAL	ictable wate	ndards Ur	METHOD
WL40J1	28-Jan-00	bis(2-Ethylhexyl)phthalate	240	6	J	UG/L	ug/L	SW-846 8270C
WL40J2	18-May-00	bis(2-Ethylhexyl)phthalate	1700	6	J	UG/L	ug/L	SW-846 8270C
WL0006	30-Nov-99	Cadmium	41	5		UG/L	ug/L	SW-846 6010B
WL41092	13-Dec-99	Cadmium	7	5		UG/L	ug/L	SW-846 6010B
WL2611	20-Dec-99	Cadmium	6.3	5		UG/L	ug/L	SW-846 6010B
WL40J1	28-Jan-00	Cadmium	7.1	5	J	UG/L	ug/L	SW-846 6010B
WL40J2	18-May-00	Cadmium	11.6	5		UG/L	ug/L	SW-846 6010B
WL41171	06-Jan-00	Cadmium	10.5	5		UG/L	ug/L	SW-846 6010B
WL49011	22-Nov-99	Cadmium	39.1	5		UG/L	ug/L	SW-846 6010B
WL0004	22-Nov-99	Cadmium	7	5		UG/L	ug/L	SW-846 6010B
WL00002	03-Oct-98	Cadmium	48.4	5		UG/L	ug/L	CLP3-90METALS
WL00002	03-Oct-98	Chromium	207	100		UG/L	ug/L	CLP3-90METALS
WL2611	20-Dec-99	Chromium	214	100		UG/L	ug/L	SW-846 6010B
WL0006	30-Nov-99	Chromium	135	100		UG/L	ug/L	SW-846 6010B
DC001	09-May-00	Chromium	103	100		UG/L	ug/L	7190
WL40J1	28-Jan-00	Chromium	167	100		UG/L	ug/L	SW-846 6010B
WL41171	06-Jan-00	Chromium	787	100		UG/L	ug/L	SW-846 6010B
WL0004	22-Nov-99	Chromium	131	100		UG/L	ug/L	SW-846 6010B
WL0006	30-Nov-99	Copper	1460	1300		UG/L	ug/L	SW-846 6010B
WL0004	22-Nov-99	Endrin	5.24	2		UG/L	ug/L	SW-846 8081A/8082
WL2611	20-Dec-99	Lead	252	15		UG/L	ug/L	SW-846 6010B
PZ021I	22-Apr-03	Lead	18.5	15	J	UG/L	ug/L	SW-846 6010B
WL0006	30-Nov-99	Lead	37	15		UG/L	ug/L	SW-846 6010B
WL33511	29-Nov-99	Lead	25	15		UG/L	ug/L	SW-846 6010B
WL41011	23-Nov-99	Lead	113	15		UG/L	ug/L	SW-846 6010B
WL41092	13-Dec-99	Lead	264	15		UG/L	ug/L	SW-846 6010B
WL41131	30-Mar-01	Lead	13500	15		UG/L	ug/L	SW-846 6010B
WL0004	22-Nov-99	Lead	140	15		UG/L	ug/L	SW-846 6010B
WL00002	03-Oct-98	Lead	527	15		UG/L	ug/L	CLP3-90METALS
WL0009	07-Jan-00	Lead	338	15		UG/L	ug/L	SW-846 6010B
WL49011	22-Nov-99	Lead	428	15		UG/L	ug/L	SW-846 6010B
WL41141	20-Dec-99	Lead	72	15		UG/L	ug/L	SW-846 6010B
WL0008	09-Dec-99	Lead	228	15		UG/L	ug/L	SW-846 6010B
WL0011	11-Jan-00	Lead	127	15		UG/L	ug/L	SW-846 6010B
WL41171	06-Jan-00	Lead	1260	15		UG/L	ug/L	SW-846 6010B

MCL Exceedances
Dayton

MP_ID	DATESAMP	PARAMETER	RESULT	limitNumbe	QUAL	ictable wate	ndards Ur	METHOD
WL40J1	28-Jan-00	Lead	60	15		UG/L	ug/L	SW-846 6010B
DrumPad-Rinse	30-Jun-00	Lead	144	15		UG/L	ug/L	7420
WL40J2	18-May-00	Lead	210	15		UG/L	ug/L	SW-846 6010B
DC001	09-May-00	Lead	120	15		UG/L	ug/L	7420
WL3191	28-Feb-00	Lead	18	15		UG/L	ug/L	SW-846 6010B
WL2611	20-Dec-99	Mercury	3.2	2		UG/L	ug/L	SW-846 7470A
MW007S	22-Apr-03	Nitrate Nitrogen	14.4	10		MG/L	mg/L	EPA 353.2
WL0006	30-Nov-99	Selenium	52	50		UG/L	ug/L	SW-846 6010B
WL40J2	18-May-00	Selenium	437	50		UG/L	ug/L	SW-846 6010B
MWB001	20-Feb-95	Thallium	11	2		UG/L	ug/L	
MWB002	14-Dec-94	Thallium	42	2		UG/L	ug/L	
MWB002	20-Feb-95	Thallium	29	2		UG/L	ug/L	
MWB003	15-Dec-94	Thallium	23	2		UG/L	ug/L	
MWB003	20-Feb-95	Thallium	15	2		UG/L	ug/L	
MWB004	21-Feb-95	Thallium	13	2		UG/L	ug/L	
MWB005	14-Dec-94	Thallium	26	2		UG/L	ug/L	
MWB004	14-Dec-94	Thallium	15	2		UG/L	ug/L	
MWB001	13-Dec-94	Thallium	13	2		UG/L	ug/L	
MWA006	21-Feb-95	Thallium	14	2		UG/L	ug/L	
MWA006	14-Dec-94	Thallium	8.4	2		UG/L	ug/L	
MWA005 DUP	14-Dec-94	Thallium	13	2		UG/L	ug/L	
MWA005	21-Feb-95	Thallium	21	2		UG/L	ug/L	
MWA005	14-Dec-94	Thallium	11	2		UG/L	ug/L	
MWA004	20-Feb-95	Thallium	12	2		UG/L	ug/L	
MWA004	15-Dec-94	Thallium	17	2		UG/L	ug/L	
MWA003	21-Feb-95	Thallium	14	2		UG/L	ug/L	
MWB005	20-Feb-95	Thallium	25	2		UG/L	ug/L	
MWA002	20-Feb-95	Thallium	9	2		UG/L	ug/L	
MWA001	21-Feb-95	Thallium	11	2		UG/L	ug/L	
MWA002	13-Dec-94	Thallium	15	2		UG/L	ug/L	
MWA001	13-Dec-94	Thallium	13	2		UG/L	ug/L	
MWA003	13-Dec-94	Thallium	21	2		UG/L	ug/L	
MWC001	20-Feb-95	Thallium	4.5	2		UG/L	ug/L	

MCL Exceedances
Dayton

MP_ID	DATESAMP	PARAMETER	RESULT	imitNumbe	QUAL	ctable_wate	andards Ur	METHOD
MWC003	20-Feb-95	Thallium	7	2		UG/L	ug/L	
MWB006	14-Dec-94	Thallium	4.7	2		UG/L	ug/L	
MWC003	15-Dec-94	Thallium	11	2		UG/L	ug/L	
MWC002	20-Feb-95	Thallium	5.4	2		UG/L	ug/L	
MWC002	14-Dec-94	Thallium	5.7	2		UG/L	ug/L	
MWC001	13-Dec-94	Thallium	4.8	2		UG/L	ug/L	
MWB006	21-Feb-95	Thallium	10	2		UG/L	ug/L	

PARAMETER	UNITS	MW007S 4/22/2003	MW008S 4/23/2003	MWA004 4/23/2003	MWB004 4/22/2003	MWB005 4/22/2003
1,2,4-Trichlorobenzene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
1,2-Dichlorobenzene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
1,3-Dichlorobenzene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
1,4-Dichlorobenzene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
2,2'-oxybis(1-Chloropropane)	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
2,4,5-Trichlorophenol	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
2,4,6-Trichlorophenol	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
2,4-Dichlorophenol	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
2,4-Dimethylphenol	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
2,4-Dinitrophenol	UG/L	19 U	19 U	19 U	19 U	19 U
2,4-Dinitrotoluene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
2,6-Dinitrotoluene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
2-Chloronaphthalene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
2-Chlorophenol	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
2-Methylnaphthalene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
2-Methylphenol	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
2-Nitroaniline	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
2-Nitrophenol	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
3,3'-Dichlorobenzidine	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
3-Nitroaniline	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
4,6-Dinitro-2-methylphenol	UG/L	5 U	5 U	5 U	5 U	5 U
4-Bromophenyl phenyl ether	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
4-Chloro-3-methylphenol	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
4-Chloroaniline	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
4-Chlorophenyl phenyl ether	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
4-Methylphenol	UG/L	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
4-Nitrophenol	UG/L	9 U	10 U	9 U	10 U	10 U
Acenaphthene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Acenaphthylene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Anthracene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Benzo(a)anthracene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U

PARAMETER	UNITS	MW007S 4/22/2003	MW008S 4/23/2003	MWA004 4/23/2003	MWB004 4/22/2003	MWB005 4/22/2003
Benzo(a)pyrene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Benzo(b)fluoranthene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Benzo(g,h,i)perylene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Benzo(k)fluoranthene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
bis(2-Chloroethoxy)methane	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
bis(2-Chloroethyl)ether	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
bis(2-Ethylhexyl)phthalate	UG/L	2 U	2 U	2 U	2 U	2 U
Butylbenzylphthalate	UG/L	2 U	2 U	2 U	2 U	2 U
Carbazole	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Chrysene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Dibenzo(a,h)anthracene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Dibenzofuran	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Diethylphthalate	UG/L	2 U	2 U	2 U	2 U	2 U
Dimethylphthalate	UG/L	2 U	2 U	2 U	2 U	2 U
Di-n-butylphthalate	UG/L	2 U	2 U	2 U	2 U	2 U
Di-n-octylphthalate	UG/L	2 U	2 U	2 U	2 U	2 U
Fluoranthene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Fluorene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Hexachlorobenzene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Hexachlorobutadiene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Hexachlorocyclopentadiene	UG/L	5 U	5 U	5 U	5 U	5 U
Hexachloroethane	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Indeno(1,2,3-cd)pyrene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Isophorone	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Naphthalene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Nitrobenzene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
N-Nitroso-di-n-propylamine	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
N-Nitrosodiphenylamine	UG/L	2 U	2 U	2 U	2 U	2 U
Pentachlorophenol	UG/L	3 U	3 U	3 U	3 U	3 U
Phenanthrene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Phenol	UG/L	0.9 U	1 U	0.9 U	1 U	1 U
Pyrene	UG/L	0.9 U	1 U	0.9 U	1 U	1 U

PARAMETER	UNITS	MW007S 4/22/2003	MW008S 4/23/2003	MWA004 4/23/2003	MWB004 4/22/2003	MWB005 4/22/2003
Arsenic	MG/L	0.0049 U	0.0049 U	0.0049 U	0.0049 U	0.0049 U
Barium	MG/L	0.0807 J	0.239	0.196	0.167	0.162
Cadmium	MG/L	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U
Chromium	MG/L	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.003 J
Iron	MG/L	0.0509 J		1.69		
Lead	MG/L	0.0093 U	0.0093 U	0.0093 U	0.0093 U	0.0093 U
Manganese	MG/L	0.0342		0.0857		
Selenium	MG/L	0.0048 J	0.0047 U	0.0047 U	0.0047 U	0.0047 U
Silver	MG/L	0.0018 U	0.003 J	0.0018 U	0.0018 U	0.0018 U
Ferric Iron	MG/L	0.0509 J				
Ferric Iron	MG/L			1.5		
Mercury	MG/L	0.000079 U	0.000079 U	0.000079 U	0.000079 U	0.000079 U

PARAMETER	UNITS	MWC001 4/22/2003	PZ007I 4/22/2003	PZ008D 4/23/2003	PZ008I 4/23/2003	PZ009D 4/23/2003
1,2,4-Trichlorobenzene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
1,2-Dichlorobenzene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
1,3-Dichlorobenzene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
1,4-Dichlorobenzene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
2,2'-oxybis(1-Chloropropane)	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
2,4,5-Trichlorophenol	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
2,4,6-Trichlorophenol	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
2,4-Dichlorophenol	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
2,4-Dimethylphenol	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
2,4-Dinitrophenol	UG/L	19 U	19 U	19 U	19 U	19 U
2,4-Dinitrotoluene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
2,6-Dinitrotoluene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
2-Chloronaphthalene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
2-Chlorophenol	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
2-Methylnaphthalene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
2-Methylphenol	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
2-Nitroaniline	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
2-Nitrophenol	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
3,3'-Dichlorobenzidine	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
3-Nitroaniline	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
4,6-Dinitro-2-methylphenol	UG/L	5 U	5 U	5 U	5 U	5 U
4-Bromophenyl phenyl ether	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
4-Chloro-3-methylphenol	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
4-Chloroaniline	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
4-Chlorophenyl phenyl ether	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
4-Methylphenol	UG/L	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
4-Nitrophenol	UG/L	9 U	9 U	10 U	10 U	9 U
Acenaphthene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Acenaphthylene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Anthracene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Benzo(a)anthracene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U

PARAMETER	UNITS	MWC001 4/22/2003	PZ007I 4/22/2003	PZ008D 4/23/2003	PZ008I 4/23/2003	PZ009D 4/23/2003
Benzo(a)pyrene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Benzo(b)fluoranthene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Benzo(g,h,i)perylene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Benzo(k)fluoranthene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
bis(2-Chloroethoxy)methane	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
bis(2-Chloroethyl)ether	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
bis(2-Ethylhexyl)phthalate	UG/L	2 U	2 U	2 U	2 U	2 U
Butylbenzylphthalate	UG/L	2 U	2 U	2 U	2 U	2 U
Carbazole	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Chrysene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Dibenzo(a,h)anthracene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Dibenzofuran	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Diethylphthalate	UG/L	2 U	2 U	2 U	2 U	2 U
Dimethylphthalate	UG/L	2 U	2 U	2 U	2 U	2 U
Di-n-butylphthalate	UG/L	2 U	2 U	2 U	2 U	2 U
Di-n-octylphthalate	UG/L	2 U	2 U	2 U	2 U	2 U
Fluoranthene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Fluorene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Hexachlorobenzene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Hexachlorobutadiene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Hexachlorocyclopentadiene	UG/L	5 U	5 U	5 U	5 U	5 U
Hexachloroethane	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Indeno(1,2,3-cd)pyrene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Isophorone	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Naphthalene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Nitrobenzene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
N-Nitroso-di-n-propylamine	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
N-Nitrosodiphenylamine	UG/L	2 U	2 U	2 U	2 U	2 U
Pentachlorophenol	UG/L	3 U	3 U	3 U	3 U	3 U
Phenanthrene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Phenol	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U
Pyrene	UG/L	0.9 U	0.9 U	1 U	1 U	0.9 U

PARAMETER	UNITS	MWC001 4/22/2003	PZ007I 4/22/2003	PZ008D 4/23/2003	PZ008I 4/23/2003	PZ009D 4/23/2003
Arsenic	MG/L	0.0104	0.0049 U	0.0082 J	0.0049 U	0.0049 U
Barium	MG/L	0.212	0.113	0.161	0.0948 J	0.139
Cadmium	MG/L	0.00087 U	0.00087 U	0.0014 J	0.00087 U	0.0013 J
Chromium	MG/L	0.0022 U	0.0022 U	0.0081 J	0.0022 U	0.0051 J
Iron	MG/L	5.11			0.851	
Lead	MG/L	0.0093 U	0.0093 U	0.0108 J	0.0093 U	0.0093 U
Manganese	MG/L	0.102			0.145	
Selenium	MG/L	0.0047 U	0.0047 U	0.0047 U	0.0047 U	0.0047 U
Silver	MG/L	0.0018 U	0.0018 U	0.0027 J	0.0018 U	0.0018 U
Ferric Iron	MG/L					
Ferric Iron	MG/L	1.9 J			0.85	
Mercury	MG/L	0.000079 U	0.000079 U	0.000079 U	0.000079 U	0.000079 U

PARAMETER	UNITS	PZ0211 4/22/2003
1,2,4-Trichlorobenzene	UG/L	1 U
1,2-Dichlorobenzene	UG/L	1 U
1,3-Dichlorobenzene	UG/L	1 U
1,4-Dichlorobenzene	UG/L	1 U
2,2'-oxybis(1-Chloropropane)	UG/L	1 U
2,4,5-Trichlorophenol	UG/L	1 U
2,4,6-Trichlorophenol	UG/L	1 U
2,4-Dichlorophenol	UG/L	1 U
2,4-Dimethylphenol	UG/L	1 U
2,4-Dinitrophenol	UG/L	19 U
2,4-Dinitrotoluene	UG/L	1 U
2,6-Dinitrotoluene	UG/L	1 U
2-Chloronaphthalene	UG/L	1 U
2-Chlorophenol	UG/L	1 U
2-Methylnaphthalene	UG/L	1 U
2-Methylphenol	UG/L	1 U
2-Nitroaniline	UG/L	1 U
2-Nitrophenol	UG/L	1 U
3,3'-Dichlorobenzidine	UG/L	1 U
3-Nitroaniline	UG/L	1 U
4,6-Dinitro-2-methylphenol	UG/L	5 U
4-Bromophenyl phenyl ether	UG/L	1 U
4-Chloro-3-methylphenol	UG/L	1 U
4-Chloroaniline	UG/L	1 U
4-Chlorophenyl phenyl ether	UG/L	1 U
4-Methylphenol	UG/L	2 U
4-Nitroaniline	UG/L	1 U
4-Nitrophenol	UG/L	10 U
Acenaphthene	UG/L	1 U
Acenaphthylene	UG/L	1 U
Anthracene	UG/L	1 U
Benzo(a)anthracene	UG/L	1 U

PARAMETER	UNITS	PZ021I 4/22/2003
Benzo(a)pyrene	UG/L	1 U
Benzo(b)fluoranthene	UG/L	1 U
Benzo(g,h,i)perylene	UG/L	1 U
Benzo(k)fluoranthene	UG/L	1 U
bis(2-Chloroethoxy)methane	UG/L	1 U
bis(2-Chloroethyl)ether	UG/L	1 U
bis(2-Ethylhexyl)phthalate	UG/L	2 U
Butylbenzylphthalate	UG/L	2 U
Carbazole	UG/L	1 U
Chrysene	UG/L	1 U
Dibenzo(a,h)anthracene	UG/L	1 U
Dibenzofuran	UG/L	1 U
Diethylphthalate	UG/L	2 U
Dimethylphthalate	UG/L	2 U
Di-n-butylphthalate	UG/L	2 U
Di-n-octylphthalate	UG/L	2 U
Fluoranthene	UG/L	1 U
Fluorene	UG/L	1 U
Hexachlorobenzene	UG/L	1 U
Hexachlorobutadiene	UG/L	1 U
Hexachlorocyclopentadiene	UG/L	5 U
Hexachloroethane	UG/L	1 U
Indeno(1,2,3-cd)pyrene	UG/L	1 U
Isophorone	UG/L	1 U
Naphthalene	UG/L	1 U
Nitrobenzene	UG/L	1 U
N-Nitroso-di-n-propylamine	UG/L	1 U
N-Nitrosodiphenylamine	UG/L	2 U
Pentachlorophenol	UG/L	3 U
Phenanthrene	UG/L	1 U
Phenol	UG/L	1 U
Pyrene	UG/L	1 U

PARAMETER	UNITS	PZ021I 4/22/2003
Arsenic	MG/L	0.0155
Barium	MG/L	0.244
Cadmium	MG/L	0.00087 U
Chromium	MG/L	0.0073 J
Iron	MG/L	
Lead	MG/L	0.0185 J
Manganese	MG/L	
Selenium	MG/L	0.0047 U
Silver	MG/L	0.0018 U
Ferric Iron	MG/L	
Ferric Iron	MG/L	
Mercury	MG/L	0.000079 U

Heat up. Cool down.

EPA Region 5 Records Ctr.
349417

Fax

BEHR

To:	Rob Stenson	**From:**	Bill Huston
Fax Number:	(920) 458-0550	Department:	Environmental
Company:	Earth Tech	Telephone Number:	(937) 224-2467
		Fax Number:	(937) 224-2571
		Email Address:	Billy.huston@us.behrgroup.com
		Date:	17-Jul-03
		No. Pages:	6

Subject: Historic Document on Solvent use at DTP

Rob,

This is the Document Britt found the files and thought it might be of use to you in the SVE Project.

Bill Huston

Behr America, Inc.
2700 Daley Drive
Troy, MI 48083
Tel: (248) 743-3700

Behr America, Inc.
1307 Highview Drive
Webberville, MI 48892
Tel: (517) 521-1910

Behr Climate Systems, Inc.
5020 Augusta Drive
Fort Worth, TX 76106
Tel: (817) 624-7273

Behr Heat Transfer Systems, Inc.
4500 Leeds Avenue
Charleston, SC 29405
Tel: (843) 745-1233
47920 5th St.
Canton, SD 57013
Tel: (605) 764-2347

Behr Dayton Thermal Products LLC
1600 Webster Street
Dayton, OH 45404
Tel: (937) 224-2900

Member of the Behr Group
www.behrgroup.com

ACUSTAR
A CHRYSLER MOTORS COMPANY

JIM:
Per your request to DICK BECK
Individuals may be able to provide info
on some of the missing dates
Also, can you help me on (3) issues?

. Some of the holes from the soil/gas study inside Bldg 40-B were not filled in. Could be a problem if something is spilled. → Wed & Thurs Jerry will be here

. The soil/gas crew left behind 55 gallon drums of "slurry", some cement, test bottles, gloves, etc. What should be done with these?

. The tarp covering the TPH pile has blown off a portion of the pile thereby exposing the soil to the elements. Who handles these situations?

Doug

DAM
on
4/30

Pinta called Beck
on
4/29/91
with answers

FACSIMILE MESSAGE

TO FAX NO.: 412-824-0200

ATTENTION OF: JIM PINTA

COMPANY NAME: MATHES

FROM FAX NO.: [513] 224-2915

CHRYSLER TIE LINE NO: 8-848-2915

NAME: DOUG ORF

COMPANY: ACUSTAR DAYTON
DAYTON OHIO

PAGE # 1 OF 5

DATE: 4/29/91

DAYTON THERMAL PRODUCTS DIVISION

MGS:vkr
11/86
Rev. 07/87

P O BOX 1205 DAYTON, OHIO 45401

4/29/91

LISTING OF SOLVENT SOURCES AT ACUSTAR DAYTON THERMAL

MANPRO DEGREASER - installed 1964 in Bldg 3 BAY J-14
used TRICHLOROETHYLENE in 1974
used 1,1,1 TRICHLOROETHANE in 1981
Moved to Bldg 40A BAY H-12 on 1/24/84
Remains in-use

Detrex Freon TF degreaser installed in Bldg 40 B East wall section in July 1986
Remains in use

Plate/FIN EVAPORATOR degreaser installed in Bldg 40A, BAY H6 + H7 in July 1988 uses Freon TF
Remains in use

Parts degreaser installed Bldg 40B BAY I-5 in 1959
1974 used TRICHLOROETHYLENE
1977 + 1971 used PERCHLOROETHYLENE
1981 used TRICHLOROETHANE
REMOVED AUG. 1983

COMPRESSOR PARTS DEGREASER installed Bldg 40, BAY C-8 in 1956
used TRICHLOROETHYLENE initially AND 1974
OUT OF SERVICE 1976

DIP TANK installed 1960 in Bldg 3 BAY I-14 used TRICHLOROETHYLENE + records show trichloroethylene still in 1972
OUT OF SERVICE JAN. 1984

GREASER installed BLDG. 50 BAY A-2, 3, 4,
RECORDS show Perchloroethylene used in 1977 and some time TRICHLOROETHYLENE was used
OUT OF SERVICE APRIL 1981

TREX DEGREASER installed Bldg 40, BAY F-11 in 1969 used 1,1,1 Trichloroethane
MOVED to BLDG 50, BAY B-12 in OCT 1983
Appears that 1,1,1 TRICHLOROETHANE was always used??
OUT OF SERVICE MARCH 1991

SMALL FREON TF DEGREASERS in Bldg 40 installed in 1984
REMAIN in USE ORIGINALLY used Freon TMC
Changed to FREON TF in 1988

SOL BASED PAINT SPRAY BOOTH installed 2ND FLR. BLDG. 53 in 1966
TRIED EXEMPT SOLVENT OCT. 1974
OUT OF SERVICE 1981

TANKS

3,000 GALLON TANK installed 1962 - HELD 1,1,1 TRICHLOROETHANE
located outside Bldg 3 MAXWELL COMPLEX
UNKNOWN IF OTHER MATERIALS were held
TAKEN OUT OF SERVICE

(3) 5200 GALLON PERCHLOROETHANE TANKS INSTALLED 1968 OUTSIDE
BLDG. 53
CONVERTED TO 1,1,1 TRICHLOROETHANE TANKS
(2) TANKS IN CURRENT OPERATION

DEGREASER SLUDGE STORAGE FOR 1,1,1 TRICHLOROETHANE installed
IN 1971 OUT OF SERVICE DEC. 1987
MIXTURE OF 1,1,1 TRICHLOROETHANE AND FREON TF SLUDGE
TANK INSTALLED IN SAME LOCATION DEC. 1988
LOCATION - OUTSIDE BLDG. 40 NORTH SIDE
REMAIN IN SERVICE

(Date UNKNOWN)

Process	Exhaust Number	Building	No. of Stacks	Approx. Stack Size	Gas Flow scfm	Gas Flow lb/hr	Gas Temp. °F	$CHCl:CCl_2$ lb/hr	$CHCl:CCl_2$ ppm.*
Paint Flow Coater	BT115696	53	1	30"x20"	4788	21548	95		1201
Flow Coater Paint Bake Oven	BT115699	53	1	22"x29"	5102	22960	250		1538
#1 Paint Spray Booth in F.C. Line	BT115697	53	1	42" dia.	21348	96069	80		3252
#2 Paint Spray Booth in F.C. Line	BT115698	53	1	42" dia.	22545	101454	85		2402
#1 Paint Spray Booth in Red Line	115693	53	2	#2 42" dia. #1 42" dia.	23134 25604	104103 115220	75 76		2420 2670
#2 Paint Spray Booth in Red Line	115694	53	2	#2 42" dia. #1 42" dia.	21073 23002	94830 103512	74 74		2198 2410
Red Line Paint Bake Oven	115695	53	1	22"x29"	4052	18235	250		1221
V2 Comp. Paint Spray Booth	BT114014	40	1	36" dia.	14350	64577	77		2050
#1 and #2 Cond. Coil Paint Spray Booths	137559 137512	40B	2	48" dia. 48" dia.	21001 14735	94504 66310	88 77		1721 1173
Coil Degreaser	BT104186	40B	2	12" dia.E 12" dia.W	389 1152	1750 5187	95 97	0.12 6.9	713 2215
Coil Degreaser	BT137402	50	1	14"x10" 12" dia.	1761 2114	7925 9516	96 93	14.7 9.7	1894 2801
Comp. Parts Degreaser	AIR5122	40	1	10" dia.	1884	8482	81	6.0	3519
Tubing Degreaser	BT104279	3	1	10" dia.	911	4100	81	7.0	1701
Trichlor Dip Tank	no number	3	1	24" dia.	8399	37798	95	70.	2791

TABLE 1

*TAKEN FROM FINAL REPORT

TOWN ROAD SCHENECTADY, NEW YORK 12309 TELEPHONE 518 346 6161

JUL 17 '03 10:09 FR UNITION THERMAL PROD 937 224 2571 TO 8-19204580550-06 P.05/06
UNITION CORPORATION
PROTECTING MAN'S ENVIRONMENT

*OHIO DEPT. OF NATURAL RESOURCES SAYS THERE IS NO WELL LOG FOR BLDG. 39

WELL LOG FOR BLDG. 50

Drilled 1954 by Don Roe (Information per Ed Wagner, President, Moody's Inc.)

0- 28 ft. - Dirty Gravel

28- 37 ft. - Coarse SAND

37- 50 ft. - Coarse Gravel

50- 54 ft. - Dirty Gravel

54- 55 ft. - Yellow Till

55- 60 ft. - Blue Till

60- 65 ft. - Good Gravel

65- 70 ft. - Coarse Sand

70- 82 ft. - Coarse Sand and Gravel

82- 84 ft. - Red and Blue Clay

84- 85 ft. - Dirty Gravel

85-100 ft. - Blue Till

100-128 ft. - Medium gravel and Sand

128-129 ft. - Blue Till

129-133 ft. - Coarse Sand

133-136 ft. - Medium Gravel

Depth 136-137 ft.

029/0

3.0 EFFECTIVENESS OF THE GROUND-WATER MONITORING SYSTEM

3.1 Number of Wells

A total of eleven wells and six piezometers have been installed at Gem City Chemicals, Inc. as part of the ground-water monitoring system. Ten monitor wells have been installed at six sites at Gem City Chemicals, Inc. A single, large diameter recovery well has also been installed, and a piezometer is located adjacent to the recovery well, in order to monitor the potentiometric surface level. An additional five piezometers were installed in January 1993 to further delineate the extent of the ground-water cone of depression and demonstrate that no further off-property migration of contaminants is occurring.

3.2 Well and Piezometer Locations

The location of the monitor wells, recovery well and piezometers are shown in Figure 5. Four single wells are located surrounding the portion of the site used for chemicals storage and transfer, and two clusters of three wells each are located to the northeast and southwest of the active portion of the site. A single recovery well is located near the center of the site, and a piezometer has been installed adjacent to the recovery well in order to monitor the drawdown induced by the recovery well. Additional piezometers are located to the west, north and east of the recovery well in order to provide additional potentiometric surface data. A single piezometer is located near the recovery well, and screened at the base of the aquifer, to demonstrate that the recovery well is withdrawing water from the base of the aquifer.

3.3 Well and Piezometer Construction

As-built diagrams for the monitor wells, the recovery well and the piezometers are included in Exhibit G and M. Figure 10 shows the typical construction details for the monitor wells, the recovery well and the vapor extraction wells installed at the site. Table 5 is a summary of the relevant information concerning each of the wells installed on the site, including the elevation of the top of casing, the total depth and screened interval, and the date installed.

3.4 Potentiometric Maps

As part of the ongoing monitoring program instituted by Gem City Chemicals, Inc., the depth to water and potentiometric surface elevation measurements have been determined weekly since March 1990. These levels are tabulated in Exhibit C. Potentiometric maps have been constructed from this data, using the potentiometric surface elevation data from piezometer P-1, monitor wells MW-1 through MW-4, and MW-5m and MW-6m. The potentiometric surface elevation determined from the intermediate well at each cluster was chosen for contouring because the screened interval at these two wells most closely approximates the screened interval at the other monitor wells, and because the ground water appears to flow horizontally.

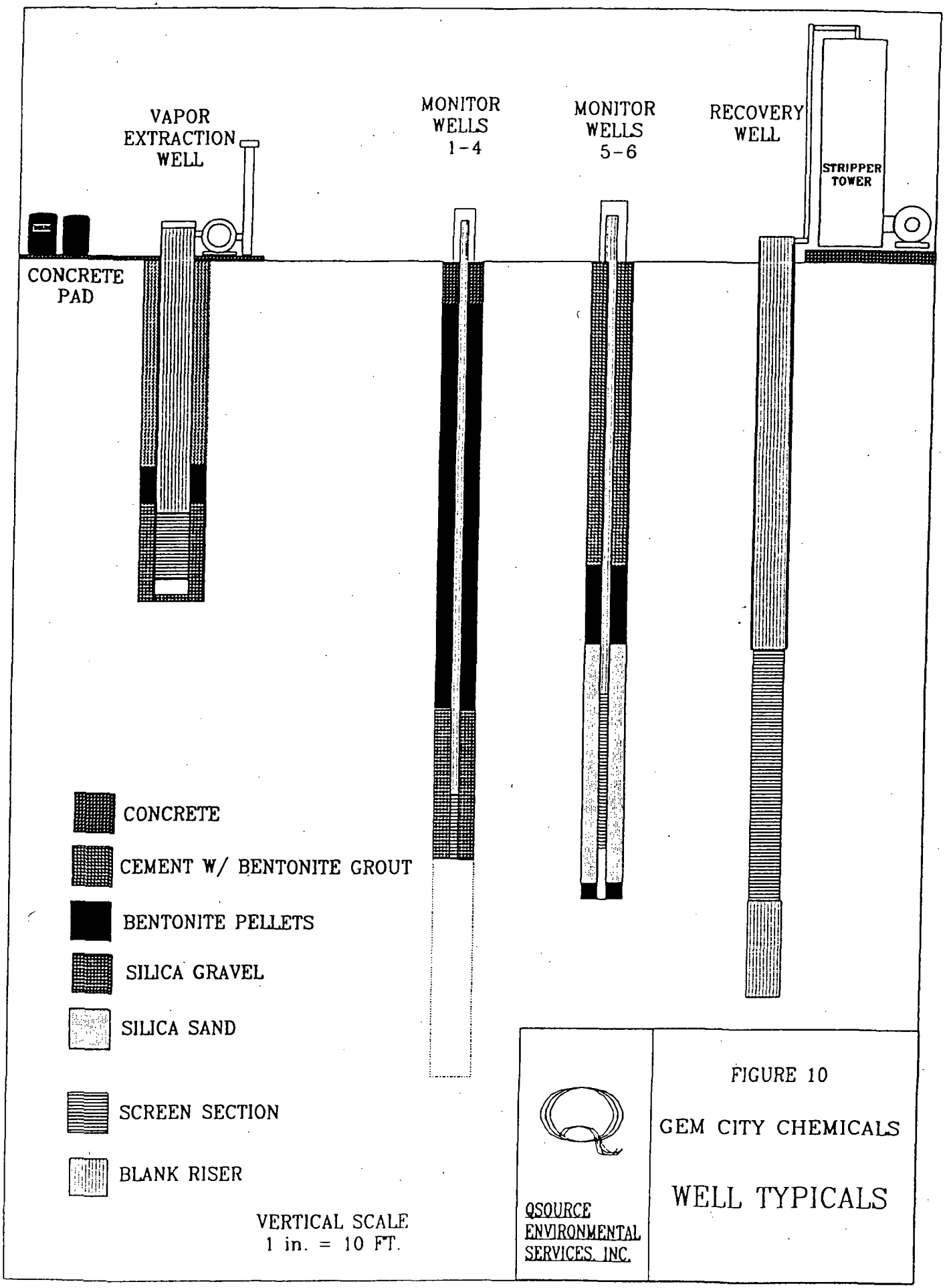


FIGURE 10

GEM CITY CHEMICALS

WELL TYPICALS

A comparison between potentiometric surface data for each of the wells in the two well clusters shows that there is little difference in the potentiometric surface elevations, and no difference in the resulting potentiometric surface maps.

The potentiometric surface maps and supporting data have been submitted to the Ohio EPA for review on a monthly basis since early 1990. Selected examples of the 120 maps submitted to the OEPA are included as Exhibit D. Figure 7 is a potentiometric surface map prepared using data from the existing monitoring well network and the newly-installed piezometers.

3.5 Effectiveness of the Ground-Water Recovery System

The effectiveness of the control of off-site migration is evaluated using potentiometric surface maps. The newly-compiled potentiometric map, shown as Figure 7, the example maps included as Exhibit D and the 120 potentiometric maps, compiled weekly and submitted to the Ohio EPA, demonstrate that the recovery well installed on-site has induced a cone of depression that extends beneath a substantial portion of Gem City Chemicals, Inc., including all areas of past and current chemical storage and transfer. A plot of potentiometric surface elevations with time, included as Figure 6, shows that the water level in P-1, adjacent to the pumping well has consistently been as much as one foot lower than levels measured in other wells on-site. This demonstrates that the cone of depression beneath the site has been consistently maintained for over two years, independent of the natural fluctuations in ground-water levels during that period of time. The potentiometric maps, the ground-water flow directions determined from these maps, and the plot of potentiometric surface elevations with time demonstrate that the ground-water control system is successful in preventing the off-site migration of ground water.

3.6 Ground Water Chemical Monitoring Effectiveness

The ground-water quality beneath Gem City Chemicals, Inc. is monitored by periodic sampling of all of the monitor wells and analysis of the samples for VOCs. The four then existing monitor wells were initially sampled in May 1988. All ten monitor wells were sampled in September 1988, following installation of the MW-5 and MW-6 well clusters. All wells were resampled in August 1989. Quarterly sampling and analysis was initiated in 1990 and continued for one year. All wells are currently sampled on a semi-annual basis, with one sample taken in late winter/early spring, when ground water levels are highest, and another sample taken in late autumn, when ground water levels are lowest. The analytical results obtained to date are summarized in Table 2. Copies of all laboratory results have been submitted to the OEPA for review, attached to the monthly progress reports. Based on the distribution of the monitor wells, these data adequately monitor the water quality for the entire area beneath the past and currently-active chemical storage and transfer areas.

In order to evaluate the changes in water quality with time across the site, charts have been prepared showing the concentrations of the chlorinated ethane family (1,1,1-trichloroethane and its' breakdown products) and the chlorinated ethene family (tetrachloroethene, trichloroethene and their breakdown products) in each well with time. For the sake of clarity, three separate charts have been prepared for each chemical family. The first chart for each chemical family shows the concentrations in water samples from wells located upgradient from the actively-used portion of the site, and regionally upgradient from the recovery well (MW-1 and the three wells

in the MW-6 cluster). The second chart for each chemical family shows the concentrations in water samples from the two wells within the actively-used portion of the site, and regionally upgradient from the recovery well (MW-3 and MW-4). The third chart for each chemical family shows the concentrations in water samples from wells regionally downgradient from the facility, and regionally downgradient from the recovery well (MW-2 and the three wells in the MW-5 cluster). As shown by the potentiometric surface mapping in Figure 7, all of the monitoring wells are now "upgradient" from the recovery well, due to the size of the cone of depression and zone of capture induced by the recovery well. An arrow on each of these charts indicates the time that the recovery well and treatment system began operations. In order to facilitate comparisons, the vertical scale on all three of the charts is the same.

Figure 11 shows the charts for concentrations of chlorinated ethanes, while Figure 12 includes the charts for concentrations of chlorinated ethenes. In addition, similar charts were prepared for each of the major chlorinated compounds that are typically found. A line representing the Maximum Contaminant Level (if established) in Figures 13, 14 and 15 show the concentrations with time of 1,1,1-trichloroethane, 1,2-dichloroethane and 1,1-dichloroethane. Figures 16, 17, 18 and 19 show the concentrations of tetrachloroethene, trichloroethene, total 1,2-dichloroethene and 1,1-dichloroethene. Total 1,2-dichloroethene was plotted instead of plotting the two separate isomers of 1,2-dichloroethene, because much of the historic data were reported as total values. Inspection of the more recent analytical data suggests that over 90% of the total 1,2-dichloroethene is composed of the cis-1,2-dichloroethene isomer. However, for comparison purposes only, the total 1,2-dichloroethene value is compared to the MCL for trans-1,2-dichloroethene, the isomer with the lower MCL.

These charts of concentrations of solvents with time clearly indicate that the ground-water recovery and treatment system at the Gem City Chemicals, Inc. facility is effectively preventing the further off-property migration of VOCs and has made progress in remediating the ground water beneath the facility.

The data also indicate that remediation efforts may be hampered by the presence of elevated levels of VOCs detected in the upgradient wells, and presumed to be flowing under the Gem City Chemicals, Inc. facility from unknown, upgradient sources. These conclusions are supported by the following evidence.

1) The concentrations of chlorinated ethanes and ethenes were originally highest in the shallow well of the MW-5 cluster, prior to the onset of remediation. These levels were falling, which may have been due to the monitoring the passing of a high concentration slug that was moving through the site in the aquifer. Following installation of the recovery well, ground water flow has locally been reversed at the MW-5 cluster and is now flowing towards the recovery well, as shown by the potentiometric surface maps. Following the start of remediation, the chlorinated ethane and ethene levels initially rose in samples from both MW-5s and MW-5m, and then fell. This may have been evidence that the recovery system was able to pull back part of the slug that has passed. The water now entering the site has lower concentrations of chlorinated solvents than are present in wells on-site and have concentrations comparable with, or lower than concentrations found in the upgradient wells. The chlorinated solvent

concentrations are now typically lower in samples from MW-5s than in samples from MW-5m. The most likely explanations for this pattern of continuing decrease in concentration with time are 1) a steady dilution due to the inflow of regionally downgradient and sidegradient ground water into the recovery system, and 2) dilution and downward flushing of VOCs in the shallow ground water due to infiltration within the zone of capture at and beyond MW-5 cluster.

2) Moderate concentrations of 1,1,1-trichloroethane and trichloroethene, at levels above the MCLs, have been present in samples from the upgradient wells, MW-1, and shallow and intermediate level wells in the MW-6 cluster. However, the concentrations of these compounds have risen substantially then fallen over the course of the last three sampling events. In addition, tetrachloroethene and several breakdown products (dichloroethenes and dichloroethanes) have also been detected in samples from these wells. These wells are regionally upgradient from the actively-used portion of the site, and the MW-6 cluster is located only 50 feet from the southwestern property limit. The best explanation for the observed pattern of VOC concentrations with time is that the chlorinated solvents detected in these wells originate from an unknown, upgradient source. During these sampling events, the ground water quality in these upgradient wells is worse than that in the regionally downgradient wells.

3) The chlorinated solvent concentrations measured in samples from MW-3 and MW-4 have fluctuated with time, with neither an increasing or decreasing trend apparent until recently. Historically, the solvent content in samples from MW-4 have been below the MCLs for all compounds except for trichloroethene. Over the past two sampling periods, the VOC concentrations in samples from both wells has risen, with an especially noticeable rise in the content of chlorinated ethanes (1,1,1-TCA) in samples from MW-4. As was the case for the regionally upgradient wells, the increase in concentrations was also characterized by increases in the concentration of tetrachloroethene and breakdown products (dichloroethenes and dichloroethanes). While these two wells are located within the portion of the facility where solvents are, or have been stored, they are also located between the regionally upgradient wells and the recovery well. It is likely that the same upgradient source is responsible for the increase in VOC content in MW-3 and MW-4, as well as in MW-1 and the MW-6 cluster.

4.0 EFFECTIVENESS OF THE GROUND WATER TREATMENT SYSTEM

4.1 Methods Used to Determine the Effectiveness of the Treatment System

The ground-water treatment system at Gem City Chemicals, Inc. includes: a pumping well on-site that prevents the off-site migration of ground water containing VOCs and recovers that ground water, an air stripper tower for the treatment of the pumped water, and discharge of the treated water in the storm sewer, pursuant to an NPDES permit. The effectiveness of the recovery well in preventing off-site migration has been evaluated through the use of potentiometric maps, constructed on a weekly basis and submitted to OEPA for review on a monthly basis since early 1990. The pumping rate has been monitored on a daily basis. The removal of VOCs by the air stripper and discharge of the treated water to the storm sewer system has been monitored by weekly sampling of the air stripper effluent for pH, temperature, total dissolved solids and total organic carbon, monthly monitoring of VOCs, and semi-annual monitoring for semi-volatile compounds since December 1989. The level of VOCs in the monitor wells was initially measured quarterly and is now measured semi-annually. Monthly reports describing the monitoring and remediation activities at Gem City Chemicals, Inc. have been forwarded to the Ohio EPA for review since early 1990.

4.2 Location and Depth of the Recovery Well

The location of the recovery well is near the center of the actively-used portion of the site, as is shown on Figures 5 and 7. The depth of the recovery well is 50 feet. The well log is included in Exhibit F. The as-built diagram is included in Exhibit G.

4.3 Aquifer Parameters

A single aquifer test was performed on February 21, 1990, following installation of the recovery well, in order to determine the aquifer parameters and the pumping rate necessary to ensure that the actively-used portion of Gem City Chemicals, Inc. was underlain by the cone of depression that would be induced. This test was performed by measuring the static water levels at a pumping well and at observation wells prior to pumping, then removing water from the pumping well at a measured rate, and monitoring the lowering of the water level in the wells over time, until a new, stable level was reached. Based on the pumping rate, the total drawdown in the observation well, the distance between the pumping well and the drawdown well, the transmissivity and hydraulic conductivity of the aquifer material was calculated.

During the pump test, the recovery well was pumped at a rate of 340 gallons per minute, and the water level in a piezometer installed 3.5 feet away from the pumping well was monitored. The drawdown was 0.75 feet after 450 minutes of pumping. This gives a value for transmissivity of 52,848 ft^2/day or 395,365 gpd/ft. and conductivity of 0.226 cm/sec. The details of the aquifer test are included as Exhibit H.

4.4 Area of Capture

The area of capture for the recovery well can be documented from the weekly potentiometric surface mapping and from Figure 7, based on the newly-installed piezometers. According to these maps, the best estimate of the radius of influence is approximately 300 feet. The resulting zone of capture underlies the entire actively-operated area of Gem City Chemicals, Inc. The area beyond the zone of capture, in the westernmost portion of the Gem City Chemicals, Inc. property, that was not used by Gem City Chemicals Inc. for VOC storage, shows no evidence of VOCs in the soil and is therefore not a potential source for the VOCs present in the ground water.

4.5 Prevention of Off-Site Migration

As shown by the potentiometric mapping, shown in Figure 7 and Exhibit C, both the best estimate for the zone of capture and the minimum estimate for the zone of capture underlie the entire actively-operated area of Gem City Chemicals, Inc. and extends to or beyond the facility boundaries to the north and east of the site. This zone of capture causes all ground-water flow to converge toward the recovery well. This effectively prevents the migration of contaminants off-site, as no ground water from within the area influenced by the cone of depression can flow off-site. A plot of potentiometric surface elevations with time, included as Figure 6, shows that the water level in P-1, adjacent to the pumping well has consistently been as much as one foot lower than levels measured in other wells on-site. This demonstrates that the cone of depression beneath the site has been consistently maintained for over two years, independent of the natural fluctuations in ground-water levels during that period of time. The potentiometric maps, the ground-water flow directions determined from these maps, and the plot of potentiometric surface elevations with time demonstrate that the ground-water control system is successful in preventing the off-site migration of ground water.

4.6 Air Stripper Design and Installation

The air stripper at the site is located adjacent to the recovery well. The tower was manufactured by Duall Industries, Inc. The tower design selected was a 42 inch diameter, 32 foot tower, filled with 24 feet of select packing material. The pump, with a rated capacity of 250 to 300 gpm, supplies water to the top of the column, and an air blower supplies 1500 cubic feet per minute of air to the bottom of the tower. An access port allows for sampling of the air stripper effluent and influent water. Flow is monitored with influent pressure and flow gages. The system was installed and tested in December 1989, and began full operation in early 1990. Operational records are included as Exhibit I. Effluent from the system flows into a City of Dayton storm sewer. OEPA's letter of November 3, 1989 permitted the interim operation of the stripping tower and the discharge of the treated waters to the city storm sewer. Discharge to the city storm sewer was applied for on September 22, 1989 and permitted by a Special Privilege Permit granted by the City on November 17, 1989. Discharge is to a catch basin on the north side of the site, near the drum washing shed. The storm sewer runs along Stanley Avenue to the Mad River, where it outfalls. Permit to Install (PTI) for air emissions from the stripping tower (application No. 08-1900) was issued by the OEPA on December 6, 1989. Permit to Install (PTI) the ground-water treatment system (application No. 05-3994) was issued by the OEPA on January 29, 1991. A draft of the final NPDES discharge permit for the treated

TABLE 5

SUMMARY OF MONITOR WELL INFORMATION

WELL ID	TOC ELEVATION	GROUND ELEVATION	ELEVATION PROTECTIVE STEEL RISER	COLLECTION ZONE	DRILL DEPTH	AV.DEPTH TO WATER FROM TOC	AVERAGE WATER ELEVATION	WELL CONSTR. MATERIAL	CASING DIA.	DATE INSTALLED	DRILLER
MW-1	754.87	752.63	756.28	42' - 47'	89'	30.01	725.47	GS & SS	2"	11/87	Ohio Drill
MW-2	753.69	751.28	754.82	42.3'- 47.3'	81'	29.91	725.32	GS & SS	2"	12/87	Ohio Drill
MW-3	755.88	753.94	757.25	43.5'- 48.5'	85'	31.22	725.34	GS & SS	2"	12/87	Ohio Drill
MW-4	754.95	753.05	756.22	42' - 47'	45'	30.16	725.41	GS & SS	2"	1/88	Ohio Drill
MW-5s	751.20	748.51	751.37	27' - 42'	50'	25.91	725.29	PVC & SS	2"	8/88	G.J.Thelen
MW-5m	751.53	748.68	751.61	40.5'- 62.5'	60'	26.22	725.31	PVC	2"	8/88	G.J.Thelen
MW-5d	751.16	748.47	751.31	63.5'- 79'	85'	25.90	725.26	PVC & SS	2"	9/88	Moody's
MW-6s	754.97	753.04	755.75	29.5'- 44'	48'	29.42	725.55	PVC	2"	9/88	G.J.Thelen
MW-6m	755.55	752.86	755.54	40' - 56'	60'	29.38	725.67	PVC	2"	8/88	G.J.Thelen
MW-6d	755.77	753.15	756.09	70' - 84'	90'	30.11	725.66	PVC	2"	9/89	Moody's
RW-1	753.47	n/a	n/a	30' - 50'	65'	n/a	n/a	GS	8"	9/89	Moody's
P-1	754.51	n/a	none	34' - 50'	n/a	29.81	724.70	PVC	2"	1/89	Moody's
P-2	754.57	n/a	n/a	48.0'-50.2'	50'	23.18*	731.39*	PVC	1 1/4"	1/93	Moody's
P-3	754.29	n/a	n/a	46.6'-48.8'	50'	22.92*	731.37*	PVC	1 1/4"	1/93	Moody's
P-4	753.56	n/a	n/a	47.6'-49.8'	82'	22.39*	731.17*	PVC	2"	1/93	Moody's
P-5	749.93	n/a	n/a	76.0'-81.0'	50'	18.71*	731.22*	PVC	1 1/4"	1/93	Moody's
P-6	752.91	n/a	n/a	47.6'-49.8'	50'	21.70*	731.21*	PVC	1 1/4"	1/93	Moody's
VE-1	752.90	n/a	none	19.5' - 22'	22.3'	20.792**	732.108**	PVC	4"	10/88	Mathes
VE-2	752.85	n/a	none	19.5' - 22'	22'	20.146**	732.704**	PVC	4"	10/88	Mathes
VE-3	753.75	n/a	none	19.5' - 22'	22.5'	21.333**	732.417**	PVC	4"	10/88	Mathes
VE-4	753.98	n/a	none	19.5' - 22'	22'	20.833**	733.147**	PVC	4"	10/88	Mathes
VE-5	754.33	n/a	none	19.5' - 22'	n/a	21.146**	733.184**	PVC	4"	10/88	Mathes

* on 02-08-93
** on 06-30-89
n/a = not available

QSOURCE

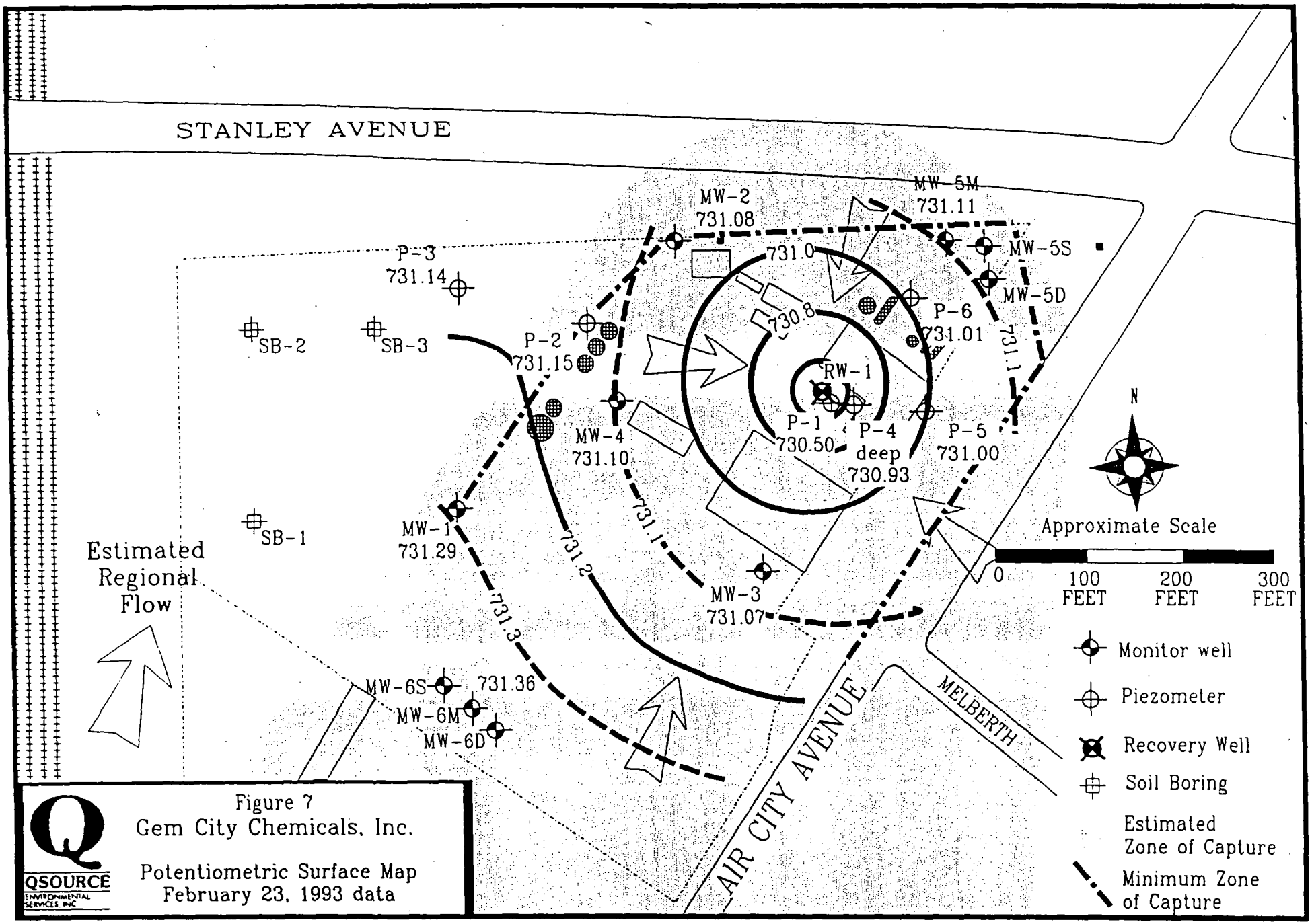


Figure 7
Gem City Chemicals, Inc.

Potentiometric Surface Map
February 23, 1993 data

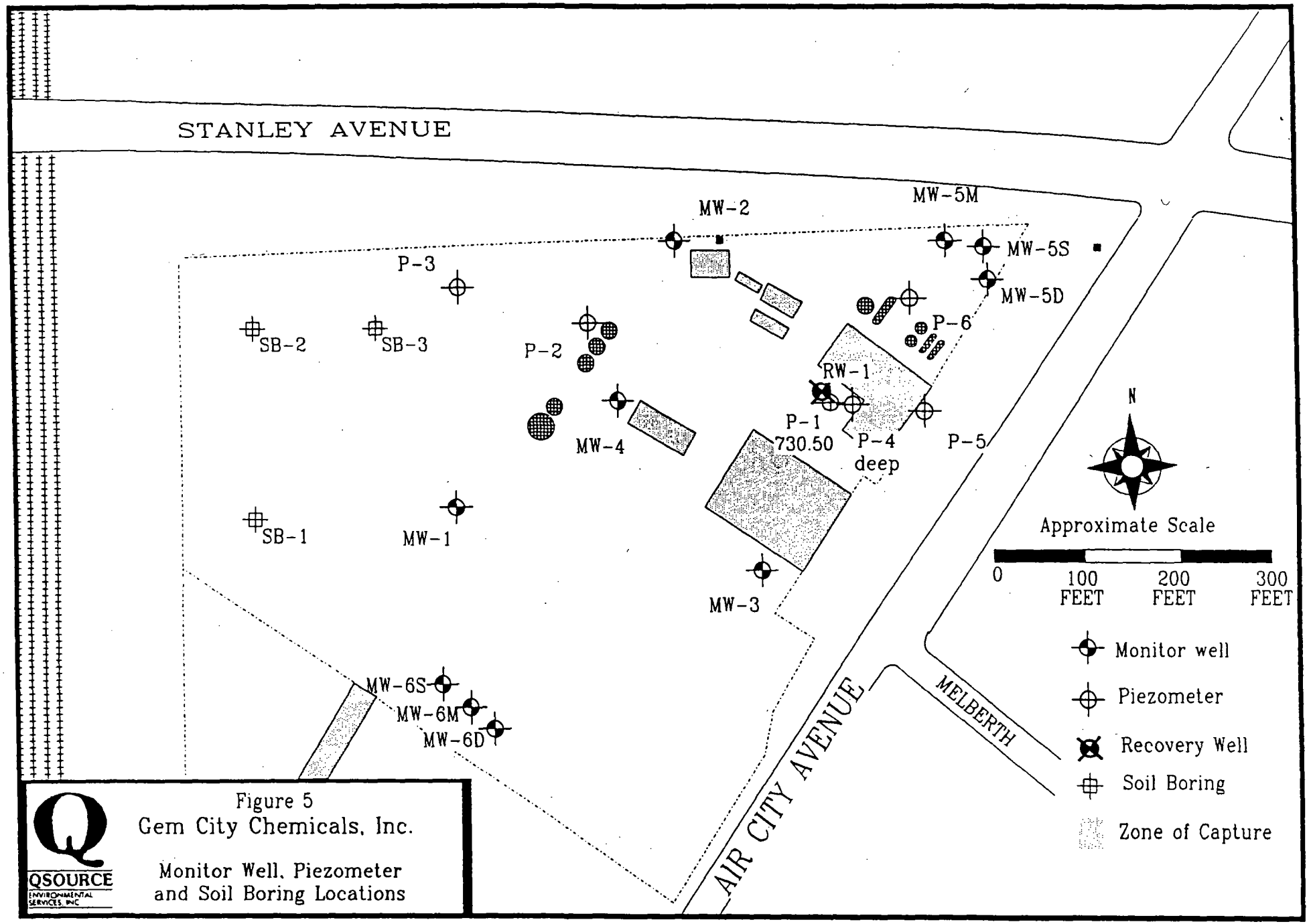


Figure 5
Gem City Chemicals, Inc.

Monitor Well, Piezometer and Soil Boring Locations

water from the stripper tower was issued on March 19, 1991. The final permit was issued on May 30, 1991.

4.7 Design and Construction of the Recovery System

The design of the system was based on the volume of water to be pumped from the recovery well, the VOC content of the influent water, and the effluent VOC limits. The recovery well was installed in October 1989 by Moody's of Dayton. It has an 8 inch diameter, galvanized steel casing and is screened from 30 to 50 feet below grade. A 20 horsepower, 230 volt, 3 phase Franklin motor and a Goulds 300L30 pump, with 5 stages and a rated capacity of 300 gpm was installed at a depth of 50 feet.

4.8 Efficiency of the Air Stripper

Although the efficiency was checked during start-up of the system, no regularly-scheduled monitoring information is available to determine the efficiency of the air stripper system on a regular basis. Weekly monitoring of the effluent is required for the NPDES permit, and analytical values have consistently been well below the discharge limits. Based on the assumed high values for VOCs detected in the initial ground-water sampling, and the consistently low values in the air stripper effluent, the system has been operating properly, and the efficiency has been assumed to be high. This is supported by the limited efficiency data, for three time periods, that have been obtained. The stripper efficiency estimates for these three occasions is presented below. Samples were taken from both the stripper influent and effluent on December 13, 1989 for the start-up efficiency calculation. A sample was inadvertently taken from the air stripper influent, instead of from the effluent port, on October 11, 1990. For comparison purposes, these values were compared to the effluent sample obtained on October 19, 1990. Finally, in order to estimate the efficiency of VOC removal, the influent to the stripper was sampled on June 9, 1992 and analyzed. These values were compared to those for the effluent sample, taken on June 5, 1992. Tables 6, 7 and 8 are comparisons of the influent to effluent analytical values, and the efficiency of the stripper, as measured by the percentage of VOC removed. The efficiency value could not be calculated directly for several of the compounds detected in the influent sample, as the corresponding value in the effluent sample was below detection limits. For the remaining compounds, the air stripper efficiency varied between 95% and 99%. Estimates for the overall system efficiency were made by comparing the sum of the concentrations of all detected VOCs from the influent sample to the sum of all detected in the effluent sample. In order to account for the non-detect data for the effluent samples, a value of 1/2 the detection limit was used for the non-detect effluent data. The calculated efficiency of the system for these three dates using this approach is between 97 and 98%. Recent cleaning should improve this efficiency.

Table 6 - Comparison of Air Stripper Influent vs. Effluent Water Quality

Gem City Chemicals, Inc. - December 1989

PARAMETER ($\mu g/\ell$)	Influent	Effluent	Efficiency
1,1-Dichloroethane	10	<5	>50.%
1,1-Dichloroethene	21	<5	>75.%
1,2-Dichloroethene (total)	66	<5	>92.%
Tetrachloroethene	13	<5	>62.%
1,1,1-Trichloroethane	237	<5	>98.%
Trichloroethene	124	<5	>96.%
Total VOCs	481	15	97.%

Table 7 - Comparison of Air Stripper Influent vs. Effluent Water Quality

Gem City Chemicals, Inc. - October, 1990

PARAMETER ($\mu g/\ell$)	Influent	Effluent	Efficiency
1,1-Dichloroethane	9	<5	8>50.%
1,1-Dichloroethene	33	<5	>85.%
1,2-Dichloroethene (total)	53	<5	>90.%
Tetrachloroethene	130	<5	>96.%
1,1,1-Trichloroethane	349	6	98.3.%
Trichloroethene	246	<5	>98.%
Total VOCs	820	15.5	98.%

Table 8 - Comparison of Air Stripper Influent vs. Effluent Water Quality

Gem City Chemicals, Inc. - June, 1992

PARAMETER ($\mu g/\ell$)	Influent	Effluent	Efficiency
Chloroform	1.0	<0.5	>50.%
4-Chlorotoluene	3.7	<1.0	>73.%
1,1-Dichloroethane	15	<1.0	>93.%
1,2-Dichloroethane	7.9	<0.5	>94.%
1,1-Dichloroethene	18	<1.0	>94.%
cis-1,2-Dichloroethene	72	3.5	**95.%**
trans-1,2-Dichloroethene	3.1	<1.0	>68.%
Tetrachloroethene	98	1.5	**97.5%**
1,1,1-Trichloroethane	163	2.1	**99.%**
1,1,2-Trichloroethane	0.4	<0.2	>50.%
Trichloroethene	121	2.7	**98.%**
Vinyl Chloride	3.0	<1.0	>67.%
Total VOCs	506	12.9	**97.5%**

4.9 Effectiveness in Removal of VOCs from the Ground Water

The removal of volatile organic compounds by the recovery well and air stripper system is estimated by the difference between the VOC content of ground water at the site and the concentration in the effluent, times the amount of water pumped from the ground during the time the well system has been operating. The system, operating for 40 months between November 1989 and February 1993, has been pumping about 300 gallons of water per minute during that time period, for a total of about 525,000,000 gallons of water, or 4,381,000,000 pounds of water. The total VOC concentration in the water pumped from the recovery well over the span of this project is not known but is estimated to be between 500 ppb and 2,000 ppb on the basis of the VOC content for samples from other monitor wells on the site. A value of 1,000 ppb is assumed for the purposes of this estimate. The VOC content in the effluent is consistently below the 10 ppb discharge limits, and a value of 0 is assumed for this calculation. Based on these numbers, approximately 4,400 pounds of VOCs have been removed from the ground water, with the range estimated to be between 2,200 and 8,800 pounds. The three influent samples, which may or may not be representative of ground water being pumped through the system, contain between 480 and 820 ppb of total VOCs. The full calculation, showing all assumptions is included in Exhibit J. Based on these limited data, the total amount of VOCs removed is

probably less than the calculated value, and is estimated to be between 2,200 and 4,400 pounds, with a most likely value of 3,300 pounds.

5.0 EFFECTIVENESS OF THE VAPOR EXTRACTION SYSTEM

5.1 Design and Installation

To remove the volatile organic compounds from the vadose zone (the soil zone above the water table), five vapor extraction wells were installed in October 1988. Locations of the vapor extraction wells are shown in Figure 20. Figure 10 shows the typical design of these installations. Well construction details are provided in Table 4. The five vapor extraction wells were installed in shallow borings and are constructed from 4" diameter PVC casing, with a 2.5 foot screen, installed at a nominal depth of 19.5 to 22 feet below the ground surface. This depth was at to slightly above the ground-water table at the time the wells were installed. Air is extracted from each well with a Regenair Model R6325A blower, with a rated maximum flow rate of 206 cubic feet of air per minute. Discharge of the extracted air is from a PVC stack, at an elevation of 8 feet above the ground surface. Permit to Install (PTI) for air emissions from the five vapor extraction wells (application No. 08-1681) was issued February 8, 1989.

5.2 Emissions Testing

Emissions from the vapor extraction wells were measured monthly and has been summarized in Table 8. Through August 1990, effluent air was tested with a organic vapor analyzer (OVA) calibrated to and reported as methane. After that date a photoionization detector (PID) calibrated to and reported as benzene was used.

5.3 Removal Efficiency

Initial removal of VOCs by the soil vapor extraction wells was very high. Extraction rates had to be reduced initially to remain within discharge limits. Concentration of VOCs in the discharged air dropped and all blowers rates were set back to design rates. Vapor extraction wells were shut down during the aquifer evaluation testing. Blowers on several of the wells had to be replaced during the first year. After a year and a half of operation, concentrations of VOCs in the discharge air had fallen below detection levels and four of the five vapor extraction wells were turned off. All vapor extraction wells were restarted in July of 1991 but concentrations fell below detection levels within a week. The radius of influence was not determined at the time of installation. Vapor extraction well VE-3 was decommissioned (the below ground well was abandoned by removal and grouting) in July 1992, to allow for additional paving of the chemical storage and handling area. The remaining vapor extraction wells were briefly restarted in August, 1992 and the discharges were measured after a day of operation. No significant concentrations of VOCs were detected. Three of the four remaining vapor extraction wells were then decommissioned.

Figure 6 - Gem City Chemicals, Inc.
Potentiometric Surface Values

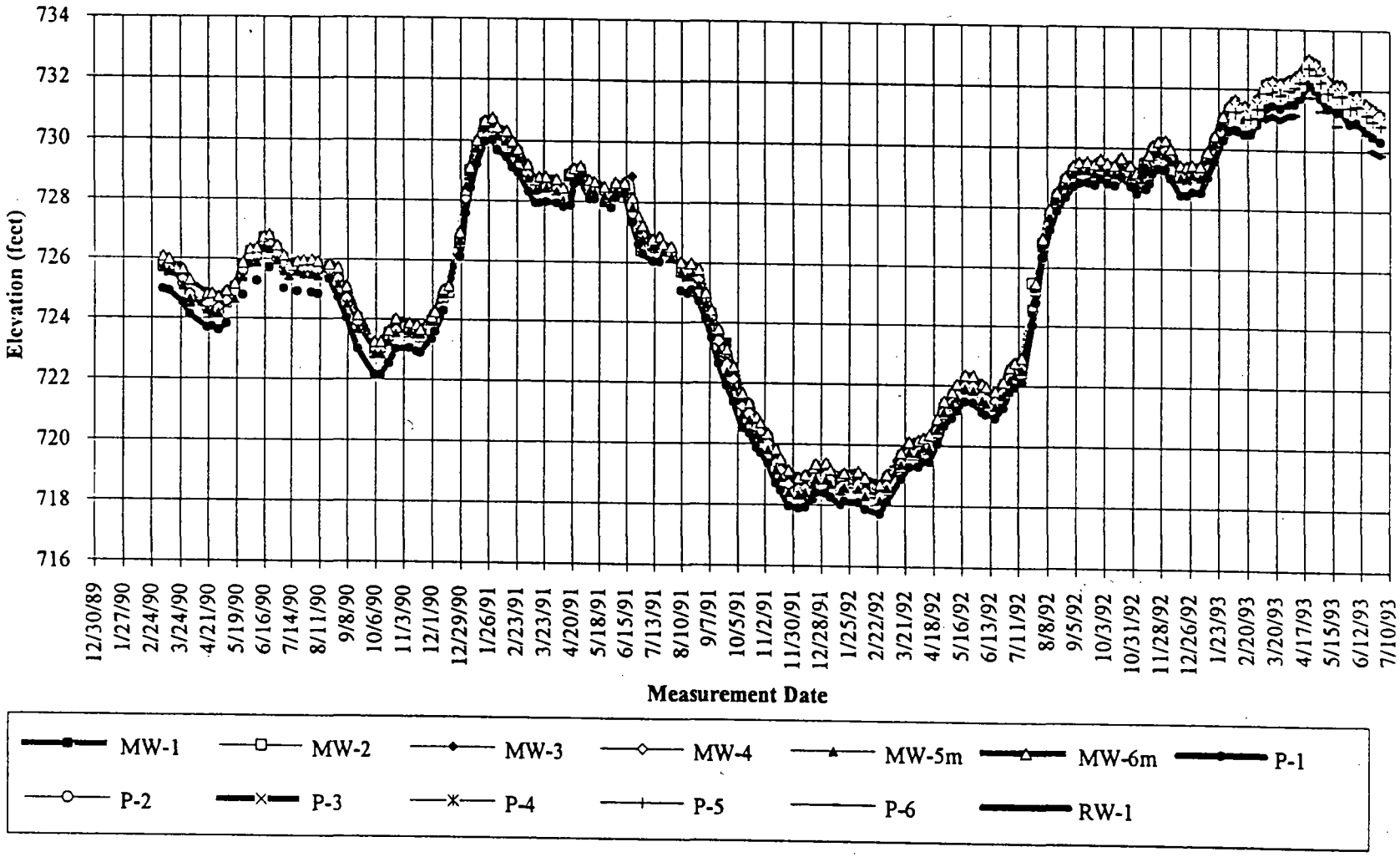


EXHIBIT H

AQUIFER TEST DATA

PUMP TEST DATA

Location: Gem City Chemicals
Date: 2/21/90
Technition: T. Farrel/ G. Clyburn
Start Up Time: 096:15
Duration Time: 8 hours
Flow Rate: 340 gpm
Test Point: P1 - pizometer 3~~4~~ feet from pumping well
Total Drop 0.75 ft.

TIME (MINUTES)	DEPTH (FEET)		t/r squared
	GC-P1		
0.0	28.62		0.00
0.5	NA		0.06
1.0	29.12		0.11
1.5	29.15	19.43	0.17
2.0	29.16	14.58	0.22
2.5	29.16	11.66	0.28
3.0	29.17	9.72	0.33
3.5	29.18	8.34	0.39
4.0	29.18	7.30	0.44
4.5	29.18	6.48	0.50
5.0	29.18	5.84	0.56
5.5	29.19	5.31	0.61
6.0	29.19	4.87	0.67
6.5	29.19	4.49	0.72
7.0	29.19	4.17	0.78
7.5	29.19	3.89	0.83
8.0	29.20	3.65	0.89
8.5	29.20	3.44	0.94
9.0	29.20	3.24	1.00
9.5	29.20	3.07	1.06
10.0	29.20	2.92	1.11
10.5	29.20	2.78	1.17
11.0	29.20	2.65	1.22
11.5	29.20	2.54	1.28
12.0	29.20	2.43	1.33
12.5	29.21	2.34	1.39
13.0	29.21	2.25	1.44
13.5	29.21	2.16	1.50
14.0	29.21	2.09	1.56
14.5	29.21	2.01	1.61
15.0	29.22	1.95	1.67
15.5	29.22	1.89	1.72
16.0	29.22	1.83	1.78
16.5	29.22	1.77	1.83
17.0	29.22	1.72	1.89
17.5	29.22	1.67	1.94
18.0	29.22	1.62	2.00
18.5	29.22	1.58	2.06
19.0	29.22	1.54	2.11

EXHIBIT I

19.5	29.22	1.50	2.17
20.0	29.22	1.46	2.22
20.5	29.22	1.43	2.28
21.0	29.22	1.39	2.33
21.5	29.22	1.36	2.39
22.0	29.21	1.33	2.44
22.5	29.21	1.30	2.50
23.0	29.21	1.27	2.56
23.5	29.20	1.24	2.61
24.0	29.20	1.22	2.67
24.5	29.20	1.19	2.72
25.0	29.23	1.17	2.78
25.5	29.23	1.15	2.83
26.0	29.23	1.12	2.89
26.5	29.23	1.10	2.94
27.0	29.23	1.08	3.00
27.5	29.23	1.06	3.06
28.0	29.23	1.04	3.11
28.5	29.23	1.03	3.17
29.0	29.23	1.01	3.22
29.5	29.24	0.99	3.28
30.0	29.24	0.97	3.33
30.5	29.24	0.96	3.39
31.0	29.24	0.94	3.44
31.5	29.24	0.93	3.50
32.0	29.24	0.91	3.56
32.5	29.24	0.90	3.61
33.0	29.24	0.89	3.67
33.5	29.24	0.87	3.72
34.0	29.24	0.86	3.78
34.5	29.24	0.85	3.83
35.0	29.25	0.84	3.89
35.5	29.25	0.82	3.94
40.0	29.26	0.73	4.44
45.0	29.27	0.65	5.00
50.0	29.27	0.59	5.56
55.0	29.28	0.53	6.11
60.0	29.28	0.49	6.67
65.0	29.29	0.45	7.22
70.0	29.29	0.42	7.78
75.0	29.29	0.39	8.33
80.0	29.30	0.37	8.89
85.0	29.30	0.34	9.44
90.0	29.30	0.33	10.00
95.0	29.31	0.31	10.56
100.0	29.31	0.29	11.11
105.0	29.31	0.28	11.67
110.0	29.31	0.27	12.22
115.0	29.32	0.25	12.78
120.0	29.32	0.24	13.33
135.0	29.33	0.22	15.00
150.0	29.34	0.20	16.67
165.0	29.34	0.18	18.33
180.0	29.34	0.16	20.00

EXHIBIT I

195.0	29.34	0.15	21.67
210.0	29.34	0.14	23.33
225.0	29.34	0.13	25.00
240.0	29.34	0.12	26.67
255.0	29.35	0.12	28.33
270.0	29.35	0.11	30.00
285.0	29.35	0.10	31.67
300.0	29.36	0.10	33.33
315.0	29.36	0.09	35.00
330.0	29.36	0.09	36.67
345.0	29.37	0.09	38.33
360.0	29.37	0.08	40.00
375.0	29.37	0.08	41.67
390.0	29.37	0.08	43.33
405.0	29.37	0.07	45.00
520.0	29.37	0.06	57.78
435.0	29.37	0.07	48.33
450.0	29.37	0.07	50.00

Gem City Chi icals - Pump Test | G. Clyburn

$$S_w = \frac{Q}{4\pi(T)}[2 S_p]$$

$$\boxed{T = \frac{Q}{4\pi(S_w)}[2 S_p]}$$

S_w = drawdown (ft.) .75 ft

T = transmissivity

Q = Flow rate 340 gpm or 45.5 ft^3/min

h = saturated thickness of aquifer (ft.)

r_w = radius between pumping well + test well (ft.)

h' = length of screen (ft.)

$b = \frac{h'}{h}$ = penetration ratio

S_p = drawdown factor due to partial penetration

$$\frac{h}{r_w} = \frac{70 \text{ ft}}{3.5 \text{ ft}} = 20$$

$$b = \frac{h'}{h} = \frac{(20')}{(70')} = .29 \cong .3$$

S_p (from graph) = 3.8

$$T(ft^2/min) = \frac{45.5 \text{ ft}^3/\text{min}}{4\pi\ (.75 \text{ ft})}[2(3.8)]$$

$T(ft^2/min)$ = 36.7 ft^2/min or 52,848 ft^2/day

or 395,356 gpd/ft

Gem City Chem. | Pump Test | G Clyburn

$\boxed{T = K b}$

$\boxed{K = T / b}$

T = transmissivity 52,848 ft²/day

K = conductivity

b_1 = saturated thickness of aquifer effected 70 ft

$$K = \frac{52,848 \text{ ft}^2/\text{day}}{70 \text{ ft}}$$

K = 754 97 ft / day ≅ 755 ft/day

or .1049"/sec

or .266 cm/sec

EXHIBIT J

VOC REMOVAL CALCULATIONS

REMOVAL EFFICIENCY OF THE RECOVERY WELL

The removal of volatile organic compounds by the recovery well and air stripper system is estimated by the difference between the VOC content of groundwater at the site and the concentration in the effluent, times the amount of water pumped from the ground during the time the well system has been operating. The calculations, and the assumptions behind these calculations are listed below.

1) **QUANTITY OF WATER PUMPED** - Estimated as the average pumping rate times the duration of pumping

Average pumping rate = 300 gallons/minute
Duration of pumping = 2.75 years (Nov. 1989 - July 1992)

Volume of pumped water = 300 gpm * 1440 min/day * 365 days/year * 2.75 years

Volume of pumped water = 433,620,000 gallons pumped

Weight of water pumped = volume pumped * 8.34 pounds/gallon

Weight of water pumped = 3,616,390,800 pounds

2) **CONCENTRATION OF PRODUCT IN GROUNDWATER**

Limited monitoring of the influent water to the recovery well has been done. In order to calculate the amount of product removal, a range of alternative estimates, based on data from the monitoring wells has been used.

- A MINIMUM CONCENTRATION is based on the sum of the visual estimates of the average values of the seven Volatile Organic Compounds with permitted discharge limits, for which tests are being conducted in water samples from the monitor wells. This may be too low, due to the presence of small amounts of other VOC's. For computational purposes, this is estimated at 0.5 parts per million.

- A MAXIMUM CONCENTRATION value is based on the highest reading for VOC's in any monitor well, prior to the operation of the recovery well system. The value used for computational purposes is 2.0 parts per million. This value was also used for the groundwater flow model, computed earlier. The value is probably too high, as it is based on a maximum concentration, not on average values.

- AN AVERAGE CONCENTRATION value is estimated as 1.0 part per million, chosen as a mid-range between the maximum and minimum values.

3) CONCENTRATION OF PRODUCT IN STRIPPER TOWER EFFLUENT

The air stripper system has been successful in removing over 98% of the volatile organic compounds from the pumped groundwater. The concentration of volatiles in the stripper tower effluent has consistently been below 10 parts per billion (0.010 ppm), or only 0.5 to 2% of the estimated concentration of volatiles in the groundwater. Therefore, since other values in this analysis have much greater uncertainties, this value is assumed to be zero, for computational purposes.

4) WEIGHT OF PRODUCT REMOVED

The weight of product removed is computed by multiplying the estimated concentration in the groundwater by the weight of groundwater removed.

GROUNDWATER. VOC CONCENTRATION	WEIGHT OF GROUNDWATER PUMPED	WEIGHT OF PRODUCT REMOVED
2.0 ppm	3,616,390,000 lb.	7,230 lb
1.0 ppm	3,616,390,000 lb.	3,620 lb
0.5 ppm	3,616,390,000 lb.	1,810 lb.

County Permit No. _____

NO CARBON PAPER NECESSARY– SELF-TRANSCRIBING

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Fountain Square
Columbus, Ohio 43224

ORIGINAL

557913

RW-1

COUNTY Montgomery TOWNSHIP _____ SECTION OF TOWNSHIP _____

OWNER Gem City Chemical ADDRESS 1287 Air City Drive, Dayton, Ohio

LOCATION OF PROPERTY Same

CONSTRUCTION DETAILS

Casing diameter 8" Length of casing 30'

Type of screen Galvanized Length of screen 20'

Type of pump Goulds 300L30

Capacity of pump 300 GPM

Depth of pump setting 50'

Date of completion 3/89

BAILING OR PUMPING TEST
(specify one by circling)

Test rate N/A gpm Duration of test _____

Drawdown _____ ft Date _____

Static level (depth to water) 30'

Quality (clear, cloudy, taste, odor) _____

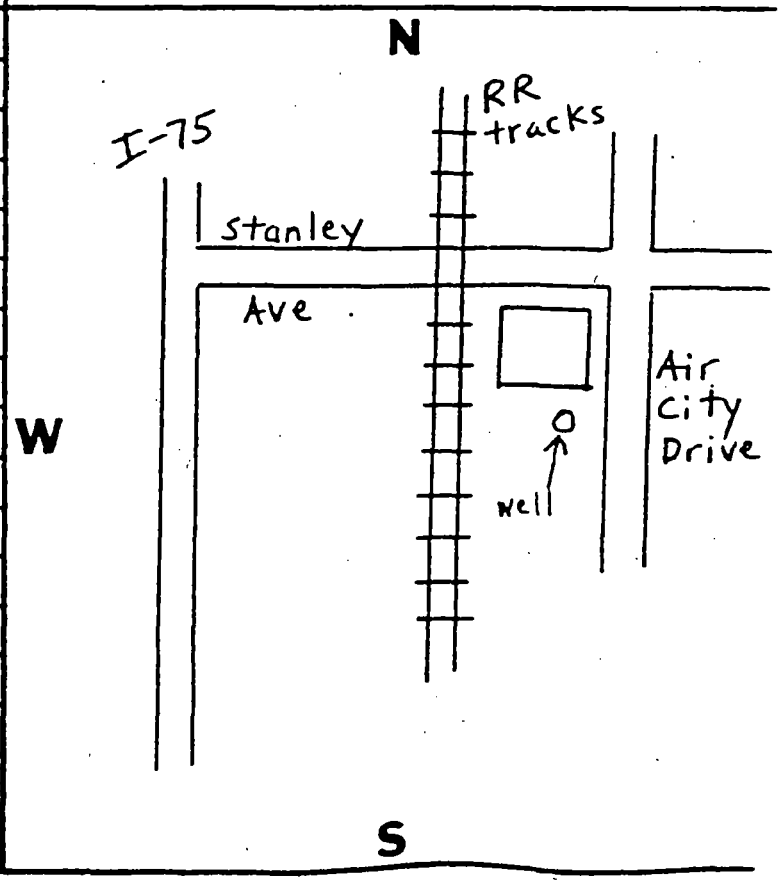
Pump installed by Moody's of Dayton, Inc.

WELL LOG*

Formations: sandstone, shale, limestone, gravel, clay	From	To
Concrete	0 ft	1 ft
Clay and gravel	1	8
Sand and gravel	8	19
Clay streak	19	21
Sand and gravel	21	60
Coarse sand, few gravel	60	65
Set 8" telescoping screen		
(30 slot) from 30'-50'.		
7" sump set from 50'-57'.		
Air developed 9 hours.		

SKETCH SHOWING LOCATION

Locate in reference to numbered state highways, street intersections, county roads, etc.



DRILLING FIRM Moody's of Dayton, Inc. DATE 9/21/89

ADDRESS P.O. Box 509, Miamisburg, OH 45343 SIGNED Doug Wagner

*If additional space is needed to complete well log, use next consecutive numbered form.

DUDY'S of Dayton, Inc.

P.O. DRAWER 509 • MIAMISBURG, OHIO 45342 • 513-859-4482

FILE 162.89009

RW-1

JOB NO. 49114

DATE 4/13/89

City Chemical CITY Dayton STATE Ohio

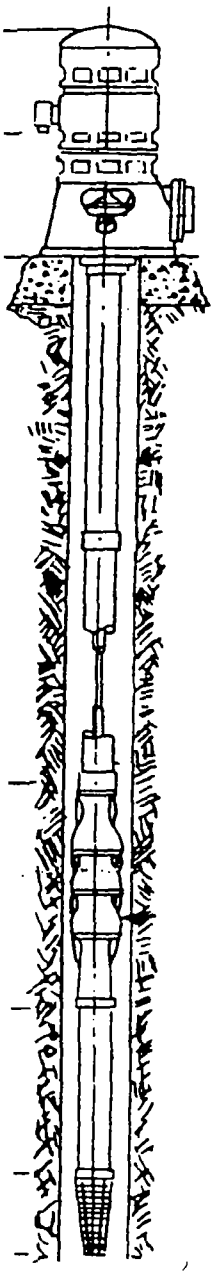
covery LOCATION OF WELL Back left corner of building

ulds SERIAL NO. 300L20

Franklin DIAMETER 5.5 FRAME SERIAL NUMBER S14971

OWER 20 VOLTS 230 PHASE 3 CYCLES 60 RPM 3450

AD AMPS 53.8 SERVICE FACTOR 1.15 S. F. AMPS 60.6



PUMP INFORMATION

DISCHARGE SIZE 4 "

AIRLINE LENGTH N/A '

TOP SHAFT LENGTH N/A

BLACK

COL. SIZE 4 " GALV. 50

CHECK VALVE TYPE inline SIZE 3"
Drilled hole in it.

SHAFT SIZE " C.S. S.S.

OIL TUBING SIZE "

POWER CABLE SIZE 8 awg

LENGTH 69'

PUMP BOWL: TYPE Goulds 300L30

DIA. 5.75 STAGES 5

SUCTION SIZE LENGTH

STRAINER SIZE LENGTH
Pump shroud-machined steel & exopied.

WELL INFORMATION

WELL NO. 1 TYPE Tubular

DEPTH 60' SCREEN LENGTH 20'

DIAMETER 8" S.W.L. 30'

REMARKS: Static level and well depth measured at top of casing.

Pump went in tight because of shroud. 8" x 4" well seal on top of well.

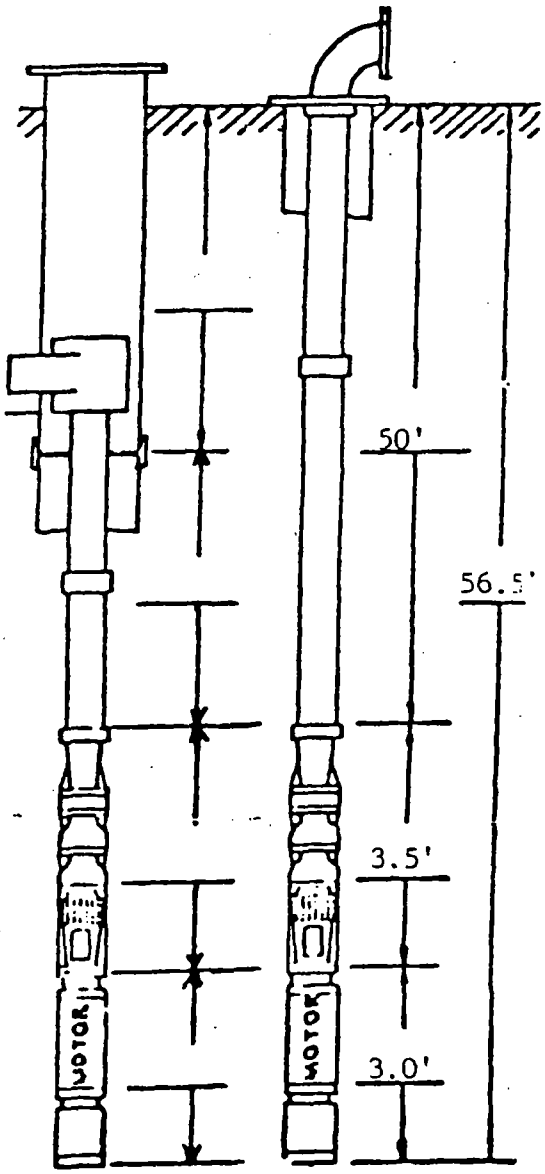


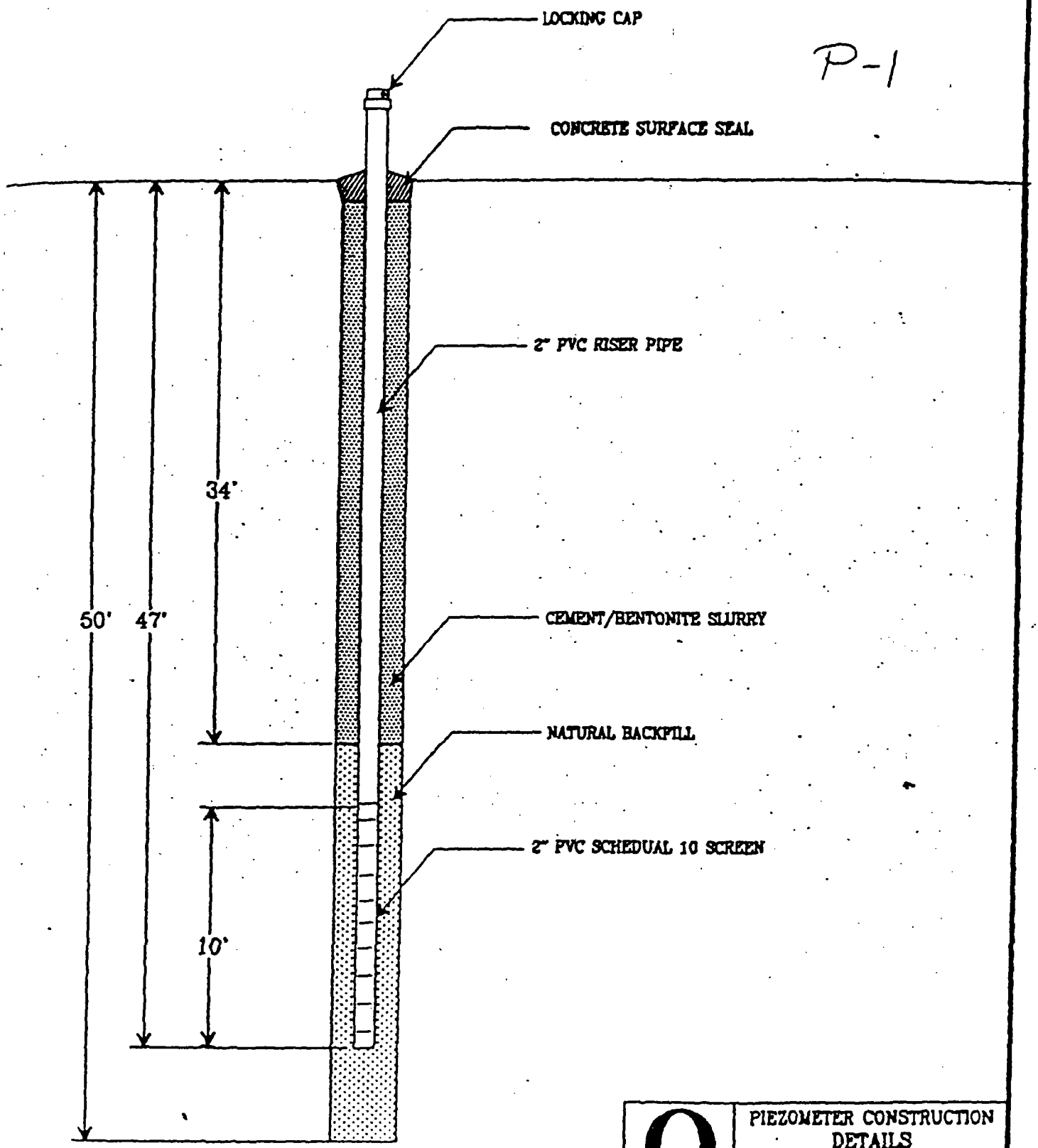
EXHIBIT H

EXHIBIT I

Shawn Jones

Piezometer Installed
Jan. 4, 1989

P-1



QSOURCE
ENVIRONMENTAL SERVICES, INC.

PIEZOMETER CONSTRUCTION DETAILS
GEM CITY CHEMICALS
DAYTON, OHIO

Drawn By: GEC Proj. No. [illegible]
Date: 1/19/89 Page: ____

Deep Adjacent Boring

QSOURCE ENVIRONMENTAL SERVICES, INC.

SUBSURFACE EXPLORATION LOG

PIT OR BORING # P-4, P-4A
PAGE 1 OF 5

PROJECT Gem City Chemicals, Inc. PROJECT # 193004

GENERAL SITE LOCATION 1287 Air City Avenue

STATE Ohio COUNTY Montgomery CITY/TWP Dayton SEC

LOCATION ON THE SITE 35 feet southeast of recovery well, behind office building

METHOD(S) 6 1/4" HSA RIG CME-75 HOLE DIA. 12" SAMPLER & SIZE 2"x24" Split Spoon

DRILLING CO. Moody's of Dayton DRILLERS P. Ridder, J. D. Hobbs LOGGED BY J. Michael Clinch

DATE STARTED 1/19/93 DATE FINISHED 1/27/93

x BORING COMPLETED AS A piezometer, P-4 OR _ BACKFILLED DATE / / MATERIAL

DEPTH TO WATER: Encountered at 22 ', At completion N.A. ', On 2/8/93 water was at 22.39' (TOC)

DEPTH	SAMPLE INFORMATION #	TYPE	FROM / TO	REC	BLOW CT ADV RATE	ELEV.	MATERIAL / DRILLING AND OTHER NOTES
							surface: 1 1/2" gravel fill
0							
1	1	SS	0'-2'	1.7'	19 4 7 10		3" GRAVEL FILL 11" COAL DUST and SILT 6" BRICK FRAGMENTS PID = 0.15
3	2	SS	2'-4'	0.9'	5 5 7 10		SILT, little angular pebbles, little fine sand, moist, 10 YR 4/4, PID = 0.20
5	3	SS	4'-6'	1.3'	10 14 16 21		SAND, medium to coarse, and PEBBLES (to 1 1/2") some granules, trace silt, moist, 10 YR 6/6 PID = 0
7	4	SS	6'-8'	1.4'	20 21 25 29		SAND, coarse, and PEBBLES, some granules, little fine to medium sand, trace silt, 10 YR 7/6 moist to dry, PID = 0.5 (Cobbles to 4.5" in flight return)
9	5	SS	8'-10'	1.2'	13 90 26 27		SAND, coarse, PEBBLES and broken pebble fragments (to 3"), some granules, little silt as pebble coatings, little fine to medium sand moist, PID = 0

2490 Technical Drive · Miamisburg, Ohio 45343 · (513) 866-1711 · (800) 356-9039 · FAX (513) 866-7473

QSOURCE ENVIRONMENTAL SERVICES, INC.

SUBSURFACE EXPLORATION LOG

PROJECT Gem City Chemicals, Inc. PROJECT # 193004

PIT OR BORING # P-4, P-4A

PAGE 2 OF 5

DEPTH	SAMPLE INFORMATION #	TYPE	FROM / TO	REC	BLOW CT ADV RATE	ELEV	MATERIAL / DRILLING AND OTHER NOTES
10					25		PEBBLES, PEBBLE FRAGMENTS(to 2") and SAND,
	6	SS	10'-12'	1.4'	34		medium, some granules, little fine sand,
					52		trace silt, dry, 2.5 Y 6/4, PID = 0.07
12					40		
					22		PEBBLES and GRANULES, some medium to fine sand,
	7	SS	12'-14'	1.4'	22		trace silt in interstices, moist, 2.5 Y 6/4
					16		PID = 0
14					16		
					11		GRANULES, some pebbles, little sand, trace
	8	SS	14'-16'	1.3'	9		silt, wet, PID = 0
					16		
16					27		
					30		PEBBLES and GRANULES, some medium to fine
	9	SS	16'-18'	1.4'	25		sand and silt (interstitial), 2.5 Y 6/3
					30		PID = 0
18					30		
					23		0.5' same as above
	10	SS	18'-20'	1.4'	22		0.25' SAND, very fine, little silt, oxidized
					26		0.7' SAND, medium, well-sorted, moist
20					30		PID = 0.3
					13		SAND, medium, faint planar bedding, moist,
	11	SS	20'-22'	1.4'	14		saturated in tip, 2.5 Y 6/6,
					20		PID = 0.5
22					26		
					16		0.9' SAME AS ABOVE, fining upward, saturated
	12	SS	22'-24'	1.9'	21		
					30		1.0' SAND, coarse to very coarse, little f.-m.
24					30		sand, few pebbles, trace silt, PID = 0.27
					23		SAND, very coarse, some granules, little
	13	SS	24'-26'	1.7'	23		pebbles, few fine to medium sand, trace silt
					29		saturated, PID = 0.5
26					29		-- coarsening downward to --
					27		0.7' GRANULES, some very coarse sand, few
	14	SS	26'-28'	1.7'	40		pebbles, little silt, PID = 0.35
					30		1.0 SAND, medium to coarse, few pebbles, trace
28					30		silt, saturated
					25		SAND, medium, few granules, few pebbles, trace
	15	SS	28'-30'	1.9'	25		silt, with one 5" bed of PEBBLES, little
					21		interstitial silt, 2.5 Y 5/4, saturated
30					22		PID = 0.30

NOTES:

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QSOURCE ENVIRONMENTAL SERVICES, INC.

SUBSURFACE EXPLORATION LOG

PROJECT Gem City Chemicals PROJECT # 193004

PIT OR BORING # P-4, P-4A

PAGE 3 OF 5

DEPTH	SAMPLE INFORMATION #	TYPE	FROM / TO	REC	BLOW CT ADV RATE	ELEV	MATERIAL / DRILLING AND OTHER NOTES
30							
					11		SAND, medium, trace fine to coarse sand, trace
	16	SS	30'-32'	1.5'	25		silt, one bed of coarse sand and pebbles,
					21		saturated, 2.5 Y 5/3, PID = 0.38
32					20		
					18		SAND, medium, little coarse sand and granules,
	17	SS	32'-34'	1.6'	25		few pebbles, trace silt, two thin pebble
					33		zones (with interstitial silt), PID =0.50
34					36		
					22		SAND, very coarse, some granules, little
	18	SS	34'-36'	1.8'	28		pebbles, few fine to coarse sand, trace silt
					29		PID = 0.50
36					33		
					10		SAME AS ABOVE, minor pebble-rich beds
	19	SS	36'-38'	1.9'	20		PIID = 0.3
					25		
38					40		
					25		SAND, coarse to medium, little granules,
	20	SS	38'-40'	1.9'	40		little pebbles, few fine sand, trace silt,
					30		coarsening to SAND and PEBBLES downward
40					35		PID = 0.75
					20		0.3' SAND and PEBBLES
	21	SS	40'-42'	1.8'	27		1.5' PEBBLES, little granules, little fine to
					27		coarse sand, few silt, 2.5 Y 6/4
42					25		PID = 0.55
					22		SAME AS ABOVE, PID = 0.7
	22	SS	42'-44'	1.6'	35		
					33		
44					35		
					15		GRANULES, some very coarse sand, little fine
	23	SS	44'-46'	1.6'	27		to medium sand, trace silt, minor siltier
					27		intervals, saturated, 2.5 Y 6/6, PID = 0.5
46					32		
					15		GRANULES and PEBBLES, little medium to coarse
	24	SS	46'-48'	1.3'	10		sand, few silt, PID = 0.8
					11		
48					20		
					28		GRANULES, some pebbles, some very coarse sand,
	25	SS	48'-50'	1.2'	21		little fine to medium sand, few silt
					20		PID = 0.25
50					23		

NOTES:

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QSOURCE ENVIRONMENTAL SERVICES, INC.

SUBSURFACE EXPLORATION LOG

PROJECT Gem City Chemicals PROJECT # 193004

PIT OR BORING # P-4, P-4A

PAGE 4 OF 5

DEPTH	SAMPLE INFORMATION #	TYPE	FROM / TO	REC	BLOW CT ADV RATE	ELEV	MATERIAL / DRILLING AND OTHER NOTES
50							
					19		GRANULES and PEBBLES, some very coarse sand
	26	SS	50'-52'	1.3'	18		little fine to medium sand, trace silt,
					22		more interstitial silt in discrete zones,
52					23		saturated, 2.5 Y 6/6, PID = 0.35
					80		(COBBLE - NOT RECOVERED)
	27	SS	52'-54'	1.3'	40		PEBBLES, some medium sand, little granules,
					24		few silt, 2.5 Y 6/6, PID = 0.31
54					30		
					30		SAND, medium to coarse, little granules,
	28	SS	54'-56'	1.9'	45		little pebbles, few silt, 2.5 Y 6/6
					37		oxidized zones (10 YR 6/8), saturated
56					40		PID = 0.2
					60		SAME AS ABOVE, with some broken pebble
	29	SS	56'-58'	1.4'	50		and cobble fragments, PID = 0.2
					60		
58					50		
					19		SAND, coarse, well-sorted, few 1" diameter
	30	SS	58'-60'	1.7'	24		pebbles at tip and in one thin zone, trace
					50		silt with pebbles, PID = 0.25
60					40		
					22		SAND, coarse to very coarse, few granules,
	31	SS	60'-62'	1.6'	25		trace silt, trace fine pebbles in SS tip,
					40		2.5 Y 6/6, saturated, PID = 0.20
62					30		
					16		PEBBLES, and broken fragments, little coarse
	32	SS	62'-64'	1.3'	40		to very coarse sand, little granules, few
					55		silt - coarsening downward -
64					50		PID = 0.2
					15		SAND, very coarse, little fine to medium sand,
	33	SS	64'-66'	1.4'	33		trace granules, trace silt
					33		
66					33		
					20		1.0' SAND, very coarse, and GRANULES, little
	34	SS	66'-68'	1.7'	19		fine to medium sand, trace silt
					36		0.7' GRANULES and PEBBLES, little sand, few
68					30		silt (minor blowin prior to sampling)
					27		SAND, very coarse, some pebbles, little
	35	SS	68'-70'	1.6'	50		granules, little fine to medium sand, trace
					50		silt, 2.5 Y 6/6, PID = 0.6
70					80		

NOTES:

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QSOURCE ENVIRONMENTAL SERVICES, INC.

SUBSURFACE EXPLORATION LOG

PROJECT Gem City Chemicals PROJECT # 193004

PIT OR BORING # P-4, P-4A

PAGE 5 OF 5

DEPTH	SAMPLE INFORMATION #	TYPE	FROM / TO	REC	BLOW CT ADV RATE	ELEV	MATERIAL / DRILLING AND OTHER NOTES
70							
					75		1.0' SAND, very coarse, little granules, little pebbles, trace silt
	36	3" SS	70'-72'	1.6'	65		
					65		0.6' GRANULES and PEBBLES (to 2"), little sand few silt, PID = 1.0
72					90		
							AUGERS LOCKED AT 72', DUE TO BLOWIN AND SAND LOCKING AROUND FLIGHTS DURING SAMPLING - AUGERS REVERSED OUT OF HOLE TO 50 FEET, AND HOLE REDRILLED TO 78' - BLOWIN MATERIAL FROM THIS INTERVAL SAMPLED BY SAND BAILER
74							
							BLOWIN SAMPLE - SAND, very coarse, and PEBBLES (to 1.5"), trace silt
76							
78							spoon full - blowin of sand and gravel
	37	3"SS	78'-78.5'	0.5'	250/6"		SAND, very coarse, and PEBBLES (to 1.5"), some granules, little fine to medium sand, tr. silt
							END OF BORING P-4 - AUGERS SAND-LOCKED HOLE ABANDONED, AND REDRILLED 5' SOUTH AS BORING P-4A - AUGER REFUSAL AT 81.25'
80							
81							
	38	3"SS	81.3'-82'	0.7'	60		SILT, little fine to medium sand, trace granules, compact, sheared, moist, 5 Y 4/3 (interpretation - LODGMENT TILL)
82					100/3"		
							END OF BORING P-4A AT 81.25'
84							
86							
88							
90							

NOTES: P-4 backfilled by natural collapse to a depth of 15', and by cuttings and cement to the ground surface

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SPECTRUM LABS INC
301 West County Road E2 • St. Paul, MN 55112-6859
651.633.0101 • FAX 651.633.1402
www.spectrum-labs.com

NOV 30 1999

EPA Region 5 Records Ctr.
349418

LABORATORY ANALYSIS REPORT

DATE:	*November 10, 1999*	***PAGE:***	*1 Of 1*
CLIENT:	*LBG* *1210 West County Rd. E* *Suite 700* *St. Paul, MN 55112*	***PROJECT NO.:*** ***COLLECTION DATE:*** ***COLLECTED BY:*** ***RECEIVED DATE:*** ***PROJECT DESCRP.:***	*101899-201638* *10/12-15/99* *Precision Env.* *10/18/99* *Dayton Thermal Products*
CONTACT:	*Kristin Yahnke*		

		Sample No.:	***27812-1***	
		Sample ID.:	***Catox Tube 1***	***ANALYSIS***
ANALYSIS	***UNITS***	***PQL***	***RESULT***	***DATE***
Chloride (300.0)	*mg*	*0.01*	*ND*	*11/05/99*

		Sample No.:	***27812-2***	
		Sample ID.:	***Catox Tube 2***	***ANALYSIS***
ANALYSIS	***UNITS***	***PQL***	***RESULT***	***DATE***
Chloride (300.0)	*mg*	*0.01*	*ND*	*11/05/99*

		Sample No.:	***27812-3***	
		Sample ID.:	***Scrubber Tube 1***	
				ANALYSIS
ANALYSIS	***UNITS***	***PQL***	***RESULT***	***DATE***
Chloride (300.0)	*mg*	*0.01*	*ND*	*11/05/99*

		Sample No.:	***27812-4***	
		Sample ID.:	***Scrubber Tube 2***	
				ANALYSIS
ANALYSIS	***UNITS***	***PQL***	***RESULT***	***DATE***
Chloride (300.0)	*mg*	*0.01*	*ND*	*11/05/99*

ND *means Not Detected or below reported PQL*
PQL *means Practical Quantification Limit*
mg *means Milligrams*

This report has been reviewed by me for technical accuracy and completeness. The analyses were performed using EPA or other approved methodologies and the results were reported on an "as received" basis unless otherwise noted. The results reported relate only to the items tested. Please contact me if you have any questions or comments regarding this report. Spectrum Labs, Inc. appreciates the opportunity to provide this analytical service for you.

Report Submitted By,

TZ for GH

Gerard Herro
Laboratory Manager

GJH:wmc
lbg314-1

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DECISION ENVIRONMENTAL
Field Monitoring and Testing Services

CHAIN OF CUSTODY RECORD

Record Number: 1061 99124

Client Name: Leggette, Brashears & Graham, Inc.	Project Title: DAYTON THERMAL PRODUCTS
Address: 1210 West Co. Rd E. Ste 700	Project Number: 3CHRY41DAYTON
City, State Zip: St. Paul MN	Contact: KRISTIN YAHNKE

Item No.	Sample No.	Sample Description		Matrix	Date Collected	Containers
1	CATOX EFF TUBE1	Tube 1	27812-1	Solid	10/15/99	1
2	CATOX EFF TUBE2	Tube 2	-2	Solid	10/15/99	1
3	SCRUBBER EFF TUBE1	Tube 1	-3	Solid	10/15/99	1
4	SCRUBBER EFF TUBE2	Tube 2	-4	Solid	10/15/99	1
5	SVE EFF	Summa		Air	10/12/99	1
6	SVE EFF	Summa		Air	10/15/99	1
7	CATOX EFF	Summa		Air	10/15/99	1
8						
9						
10						

Samples Collected by: KSY	Delivered by:	Date Delivered:

Destination:	Send Original Report To:	Send Copy Report To:
Contact:	~~KRISTIN YAHNKE, LBG~~	Bruce Nasser Prec. Env
Date Due:	NA	NA
Analysis Cost:		

Analysis	Units	1	2	3	4	5	6	7	8	9	10
HCl	ppmv	X	X	X	X						
8015/8020,						X	X	X			
Complete											
List -											
Call w/ ??											

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1-7	Kristin Yahnke	[illegible]	[illegible]	
1-4	[illegible]	[illegible]	[illegible]	

White- Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: KSY	Date Completed: 10/15/99	Present on Site: [illegible]

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Uan-Fuhr

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 15-Sep-98

Analytical Report No: 98-202

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 9/9/98 - 9/10/98

Sample I.D.:	DTP-S-4	DTP-S-4	DTP-S-6	DTP-S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**5.0**	**1.1**	ND	ND
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**32**	**7.4**	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**24**	**4.0**	ND	ND
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**360**	**61**	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**400**	**54**	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 15-Sep-98

Analytical Report No: 98-202

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 9/9/98 - 9/10/98

Sample I.D.:	DTP-S-4	DTP-S-4	DTP-S-6	DTP-S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

CHAIN OF CUSTODY RECORD

202

Record Number: 1 of 1

Client Name: Chrysler Corporation	Project Title: Dayton Thermal Products
Address: 1600 Webster Street	Project Number: 3CHRY4/DAYTON
City, State Zip: Dayton, OH 45404	Contact: Kristin Yahnke

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
202 - 1	DTP-S-4	serial #14263 PID= 781	Air (0893)	9-9-98	1
202 - 2	DTP-S-6	serial #14264 PID = 1.7	Air (0893)	9-9-98	1
3					
4					
5					
6					
7					
8					
9					
10					

Samples Collected by: CCU	Delivered by:	Date Delivered:

Destination:	Send Original Report To:	Send Copy Report To:
Contact:	Kristin Yahnke LBG 1210 W. County Rd E. St. Paul, MN 55112 (P) 651-490-1405 X218 (F) 651-490-1006	
Date Due:		
Analysis Cost:	NA	NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs-TO12	ug/L	X	X								

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1,2	Cindy Vanderhoot	[illegible] DE	9-10-98 1500	806180004267

White- Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: CCU	Date Completed: 9-9-98	Present on Site: yes

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

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Post-it® Fax Note 7671	Date 11/16/98	# of pages ▶ 3
To Kristin Hahnke	From Bruce Nasser	
Co./Dept. CBG	Co. Prec. Env.	
Phone # 651-490 1405	Phone # 612-780-9787	
Fax # 651-490-1006	Fax # 612-780-7157	

Report Date:	16-Nov-98
Analytical Report No:	98-259
Client Name:	Leggette Brashears & Graham, Inc.
Address:	1210 W County Road E
City, State Zip:	St. Paul, Minnesota 55112
Project Name:	Dayton Thermal Products
Sample collection/analysis date:	11/10/98 - 11/11/98

ENTERED IN DATABASE
BY/DATE RAC 11-17-98
CHECKED BY DVS
DATE 12/11/98

Sample I.D.:	DTP-S-4	DTP-S-4	DTP-S-6	DTP-S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1 Dichloroethene	ND	ND	ND	ND
(F113) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**3.0**	**0.7**	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**6.5**	**1.1**	ND	ND
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2 Dichloroethane	ND	ND	ND	ND
Trichloroethene	**39**	**6.6**	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**46**	**6.2**	ND	ND
1,3 Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

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Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 16-Nov-98

Analytical Report No: 98-259

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 11/10/98 - 11/11/98

Sample I.D.:	DTP-S-4	DTP-S-4	DTP-S-6	DTP-S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3 Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

259

CHAIN OF CUSTODY RECORD

Record Number: 1 of 1

Client Name: Chrysler Corporation
Address: 1600 Webster St.
City, State Zip: Dayton OH 45404

Project Title: Dayton Thermal Products
Project Number: 3Chry4/Dayton
Contact: Kristin Yahnke

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	DTP-S-4	Serial # 14240 PID=809	Air	11-10-98	1
2	DTP-S-6	Serial # 14241 PID=33	Air	11-10-98	1
3					
4					
5					
6					
7					
8					
9					
10					

Samples Collected by: CCV
Delivered by:
Date Delivered:

Destination:
Contact:
Date Due:
Analysis Cost:

Send Original Report To:
Kristin Yahnke
LBG
1210 W. County Rd. E.
St. Paul, MN 55112
(P) 6514901405 x218
(F) 651 490 1006
NA

Send Copy Report To:
NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs - TO12	ug/L	X	X								

Item No?	Relinquished by	Received by	Date	Airbill or Manifest No.
1,2	Cindy Vanderhoof	[illegible] PE	11/11/98 1400	

White - Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: CCV
Date Completed: 11-10-98
Present on Site: yes

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REV-030993

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

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Minneapolis, Minnesota 55432-1845
(612) 780-9787 • FAX (612) 780-7157

ENTERED IN DATABASE
BY/DATE DXL 9-15-98
CHECKED BY DVS
DATE 9/17/98

Report Date: 15-Sep-98

Analytical Report No: 98-202

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 9/9/98 - 9/10/98

Sample I.D.:	DTP-S-4	DTP-S-4	DTP-S-6	DTP-S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**5.0**	**1.1**	ND	ND
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**32**	**7.4**	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**24**	**4.0**	ND	ND
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**360**	**61**	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**400**	**54**	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

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Minneapolis, Minnesota 55432-1[illegible]
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ENTERED IN DATABASE
BY/DATE FAC 9-15-98
CHECKED BY DVS
DATE 9/19/98

Report Date: 15-Sep-98

Analytical Report No: 98-202

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 9/9/98 - 9/10/98

Sample I.D.:	DTP-S-4	DTP-S-4	DTP-S-6	DTP-S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,

Bruce J. Nasser
Analytical Services

Approved by,

David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

202

CHAIN OF CUSTODY RECORD

Record Number: 1 of 1

Client Name: Chrysler Corporation	Project Title: Dayton Thermal Products
Address: 1600 Webster Street	Project Number: 3CHRY4/DAYTON
City, State Zip: Dayton, OH 45404	Contact: Kristin Yahnke

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	DTP-S-4	serial #14263 PID= 781	Air (0593)	9-9-98	1
2	DTP-S-6	serial #14264 PID= 1.7	Air (0593)	9-9-98	1
3					
4					
5					
6					
7					
8					
9					
10					

Samples Collected by: CCU | Delivered by: | Date Delivered:

Destination:
Contact:
Date Due:
Analysis Cost:

Send Original Report To:
Kristin Yahnke
LBG
1210 W. County Rd E.
St. Paul, MN 55112
(P) 651-490-1405 X218
(F) 651-490-1006
NA

Send Copy Report To:
NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs-TO12	ug/L	X	X								

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1, 2	Cindy Vanderhoot	[illegible]	9-10-98	806180004267
		DE	1500	

White- Samples | Yellow - Field Data | Pink - Data Processing | Gold - Client

Form Completed by: CCU | Date Completed: 9-9-98 | Present on Site: yes

8251 Main Street Northeast • Minneapolis, Minnesota 55432-1849 • (612) 780-9787 • FAX (612) 780-7157 REV-030993

PRECISION ENVIRONMENTAL *Field Monitoring and Testing Services*	FACSIMILE TRANSMITTAL	Pages to follow: 3

Fax Number: 651-490-1006

Date: 9-15-98

Company: LBG

Attention: Kristen Yahnke

From: Lori (for Bruce Nasser)

Subject:

Message:

Please call (612) 780-9787 if problems occur during transmission.

8251 Main Street Northeast • Minneapolis, Minnesota 55432-1849 • (612) 780-9787 • FAX (612) 780-7157 REV-060090

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

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ENTERED IN DATABASE
BY/DATE RAC
CHECKED BY DAS
DATE 12/11/98

Report Date: 16-Nov-98

Analytical Report No: 98-259

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 11/10/98 - 11/11/98

Sample I.D.:	DTP-S-4	DTP-S-4	DTP-S-6	DTP-S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**3.0**	**0.7**	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**6.5**	**1.1**	ND	ND
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**39**	**6.6**	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**46**	**6.2**	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 16-Nov-98

Analytical Report No: 98-259

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 11/10/98 - 11/11/98

Sample I.D.:	DTP-S-4	DTP-S-4	DTP-S-6	DTP-S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,

Bruce J. Nasser
Analytical Services

Approved by,

David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

259

CHAIN OF CUSTODY RECORD

Record Number: 1 of 1

Client Name: Chrysler Corporation	Project Title: Dayton Thermal Products
Address: 1600 Webster St.	Project Number: 3Chry4/Dayton
City, State Zip: Dayton OH 45404	Contact: Kristin Yahnke

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	DTP-S-4	Serial # 14240 PID=809	Air	11-10-98	1
2	DTP-S-6	Serial # 14241 PID=33	Air	11-10-98	1
3					
4					
5					
6					
7					
8					
9					
10					

Samples Collected by: CCV	Delivered by:	Date Delivered:

Destination:	Send Original Report To:	Send Copy Report To:
Contact:	Kristin Yahnke LBG 1210 W. County Rd. E. ST. PAUL, MN 55112 (P) 651 490 1405 x 218 (F) 651 490 1006	
Date Due:		
Analysis Cost:	NA	NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs - TO12	ug/L	X	X								

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1,2	Cindy Vanderhoot	[illegible] PE	11/11/98 1400	

White- Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: CCV	Date Completed: 11-10-98	Present on Site: yes

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ENTERED IN DATABASE
BY/DATE RAC 2-11-99
CHECKED BY DVS
DATE 2/10/99

Report Date: 7-Dec-98

Analytical Report No: 98-283

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 12/3/98 - 12/4/98

Sample I.D.:	DTP-S-6	DTP-S-6
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD		
(F12) Dichlorodifluoromethane	ND	ND
Chloromethane	ND	ND
Vinyl Chloride	ND	ND
Bromomethane	ND	ND
Chloroethane	ND	ND
(F21) Dichlorofluoromethane	ND	ND
(F11) Trichlorofluoromethane	ND	ND
Ethyl Ether	ND	ND
1,1- Dichloroethene	**2.3**	**0.53**
(F13) Trichlorotrifluoroethane	ND	ND
Acetone	ND	ND
Allyl Chloride	ND	ND
Methylene Chloride	ND	ND
trans-1,2-Dichloroethene	ND	ND
Methyl tert-butyl ether	ND	ND
1,1-Dichloroethane	ND	ND
2,2-Dichloropropane	ND	ND
cis-1,2-Dichloroethene	**43**	**9.9**
Methyl Ethyl Ketone	ND	ND
Bromochloromethane	ND	ND
Tetrahydrofuran	ND	ND
Chloroform	ND	ND
1,1,1-Trichloroethane	**78**	**13**
1,1-Dichloropropene	ND	ND
Carbon tetrachloride	ND	ND
Benzene	ND	ND
1,2-Dichloroethane	ND	ND
Trichloroethene	**180**	**31**
1,2-Dichloropropane	ND	ND
Dibromomethane	ND	ND
Bromodichloromethane	ND	ND
cis-1,3-Dichloropropene	ND	ND
Methyl Isobutyl Ketone	ND	ND
Toluene	ND	ND
trans-1,3-Dichloropropene	ND	ND
1,1,2-Trichloroethane	ND	ND
Tetrachloroethene	ND	ND
1.3-Dichloropropane	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 7-Dec-98

Analytical Report No: 98-283

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 12/3/98 - 12/4/98

Sample I.D.:	DTP-S-6	DTP-S-6
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)		
Dibromochloromethane	ND	ND
1,2-Dibromoethane	ND	ND
Chlorobenzene	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND
Ethylbenzene	ND	ND
Xylenes	ND	ND
Styrene	ND	ND
Bromoform	ND	ND
Isopropylbenzene	ND	ND
Bromobenzene	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND
1,2,3-Trichloropropane	ND	ND
n-Propylbenzene	ND	ND
2-Chlorotoluene	ND	ND
1,3,5-Trimethylbenzene	ND	ND
4-Chlorotoluene	ND	ND
tert-Butylbenzene	ND	ND
1,2,4-Trimethylbenzene	ND	ND
sec-Butylbenzene	ND	ND
1,3-Dichlorobenzene	ND	ND
p-Isopropyltoluene	ND	ND
1,4-Dichlorobenzene	ND	ND
1,2-Dichlorobenzene	ND	ND
n-Butylbenzene	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND
1,2,4-Trichlorobenzene	ND	ND
Hexachlorobutadiene	ND	ND
Naphthalene	ND	ND
1,2,3-Trichlorobenzene	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

CHAIN OF CUSTODY RECORD

Record Number: 283 1 of 1

Client Name: Chrysler Corporation	Project Title: Dayton Thermal Products
Address: 1600 Webster St.	Project Number: 3CHRY4/DAYTON
City, State Zip: Dayton OH 45404	Contact: Kristin Yahnke

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	DTP-S-6	Serial# 14264	Air	12-3-98	1
2					
3					
4					
5					
6					
7					
8					
9					
10					

Samples Collected by: CCU	Delivered by:	Date Delivered:

Destination:	Send Original Report To: Kristin Yahnke - LBG, 1210 W. County Rd. E, St. Paul, MN 55112, (P) 651-490-1405 x218, (F) 651-490-1006	Send Copy Report To:
Contact:		
Date Due:		
Analysis Cost:	NA	NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs- TO12	ug/L	X									

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1	Cindy Vandehoed	Bonny Lunne PE	12-4-98	808933467206
			1020	

White- Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: CCU	Date Completed: 12-3-98	Present on Site: Yes

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

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Minneapolis, Minnesota 55432-1849
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ENTERED IN DATABASE
BY/DATE RC 6-11-99
CHECKED BY DVS
DATE 2/11/99

Report Date: 10-Feb-99

Analytical Report No: 99-024

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112
Attention: Kristin Yahnke
Project Name: Dayton Thermal Products
Sample collection/analysis date: 2/3/99-2/8/99

Sample I.D.:	SVE-4S	SVE-4D	SVE-5S	SVE-5D
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	1.0 µg/L	1.0 µg/L	1.0 µg/L
Total VOC's by GC-PID/ELCD/FID				
(F12) Dichlorodifluoromethane	NR	NR	NR	NR
Chloromethane	NR	NR	NR	NR
Vinyl Chloride	NR	NR	NR	NR
Bromomethane	NR	NR	NR	NR
Chloroethane	NR	NR	NR	NR
(F21) Dichlorofluoromethane	NR	NR	NR	NR
(F11) Trichlorofluoromethane	NR	NR	NR	NR
Ethyl Ether	NR	NR	NR	NR
1,1- Dichloroethene	NR	NR	NR	NR
(F13) Trichlorotrifluoroethane	NR	NR	NR	NR
Acetone	NR	NR	NR	NR
Allyl Chloride	NR	NR	NR	NR
Methylene Chloride	NR	NR	NR	NR
trans-1,2-Dichloroethene	NR	NR	NR	NR
Methyl tert-butyl ether	NR	NR	NR	NR
1,1-Dichloroethane	**1.1**	**1.6**	**1.3**	**3.6**
2,2-Dichloropropane	NR	NR	NR	NR
cis-1,2-Dichloroethene	**8.2**	**4.4**	**19**	**56**
Methyl Ethyl Ketone	NR	NR	NR	NR
Bromochloromethane	NR	NR	NR	NR
Tetrahydrofuran	NR	NR	NR	NR
Chloroform	NR	NR	NR	NR
1,1,1-Trichloroethane	**11**	**6.3**	**8.0**	**7.2**
1,1-Dichloropropene	NR	NR	NR	NR
Carbon tetrachloride	NR	NR	NR	NR
Benzene	NR	NR	NR	NR
1,2-Dichloroethane	NR	NR	NR	NR
Trichloroethene	**79**	**6.4**	**68**	**27**
1,2-Dichloropropane	NR	NR	NR	NR
Dibromomethane	NR	NR	NR	NR
Bromodichloromethane	NR	NR	NR	NR
cis-1,3-Dichloropropene	NR	NR	NR	NR
Methyl Isobutyl Ketone	NR	NR	NR	NR
Toluene	NR	NR	NR	NR
trans-1,3-Dichloropropene	NR	NR	NR	NR
1,1,2-Trichloroethane	NR	NR	NR	NR
Tetrachloroethene	**7.9**	**9.1**	**75**	**160**
1,3-Dichloropropane	NR	NR	NR	NR

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 10-Feb-99

Analytical Report No: 99-024

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 2/3/99-2/8/99

Sample I.D.:	SVE-4S	SVE-4D	SVE-5S	SVE-5D
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	1.0 µg/L	1.0 µg/L	1.0 µg/L
Total VOC's by GC-PID/ELCD/FID (continued)				
Dibromochloromethane	NR	NR	NR	NR
1,2-Dibromoethane	NR	NR	NR	NR
Chlorobenzene	NR	NR	NR	NR
1,1,1,2-Tetrachloroethane	NR	NR	NR	NR
Ethylbenzene	NR	NR	NR	NR
Xylenes	NR	NR	NR	NR
Styrene	NR	NR	NR	NR
Bromoform	NR	NR	NR	NR
Isopropylbenzene	NR	NR	NR	NR
Bromobenzene	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	NR	NR	NR	NR
1,2,3-Trichloropropane	NR	NR	NR	NR
n-Propylbenzene	NR	NR	NR	NR
2-Chlorotoluene	NR	NR	NR	NR
1,3,5-Trimethylbenzene	NR	NR	NR	NR
4-Chlorotoluene	NR	NR	NR	NR
tert-Butylbenzene	NR	NR	NR	NR
1,2,4-Trimethylbenzene	NR	NR	NR	NR
sec-Butylbenzene	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR
p-Isopropyltoluene	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR
n-Butylbenzene	NR	NR	NR	NR
1,2-Dibromo-3-chloropropane	NR	NR	NR	NR
1,2,4-Trichlorobenzene	NR	NR	NR	NR
Hexachlorobutadiene	NR	NR	NR	NR
Naphthalene	NR	NR	NR	NR
1,2,3-Trichlorobenzene	NR	NR	NR	NR

Analysis by GC-PID/ELCD/FID (EPA Method 18)
NR = analyte not requested

Approved by,

Paul J. Spreitzer
Analytical Services

Approved by,

Bruce J. Nasser
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 10-Feb-99

Analytical Report No: 99-024

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112
Attention: Kristin Yahnke
Project Name: Dayton Thermal Products
Sample collection/analysis date: 2/3/99-2/8/99

Sample I.D.:	SVE-6S	SVE-6D	SVE-3S	SVE-1D
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	1.0 µg/L	1.0 µg/L	1.0 µg/L
Total VOC's by GC-PID/ELCD/FID				
(F12) Dichlorodifluoromethane	NR	NR	NR	NR
Chloromethane	NR	NR	NR	NR
Vinyl Chloride	NR	NR	NR	NR
Bromomethane	NR	NR	NR	NR
Chloroethane	NR	NR	NR	NR
(F21) Dichlorofluoromethane	NR	NR	NR	NR
(F11) Trichlorofluoromethane	NR	NR	NR	NR
Ethyl Ether	NR	NR	NR	NR
1,1- Dichloroethene	NR	NR	NR	NR
(F13) Trichlorotrifluoroethane	NR	NR	NR	NR
Acetone	NR	NR	NR	NR
Allyl Chloride	NR	NR	NR	NR
Methylene Chloride	NR	NR	NR	NR
trans-1,2-Dichloroethene	NR	NR	NR	NR
Methyl tert-butyl ether	NR	NR	NR	NR
1,1-Dichloroethane	**1.2**	**2.5**	**ND**	**1.3**
2,2-Dichloropropane	NR	NR	NR	NR
cis-1,2-Dichloroethene	**17**	**8.7**	**4.3**	**6.8**
Methyl Ethyl Ketone	NR	NR	NR	NR
Bromochloromethane	NR	NR	NR	NR
Tetrahydrofuran	NR	NR	NR	NR
Chloroform	NR	NR	NR	NR
1,1,1-Trichloroethane	**12**	**2.0**	**1.1**	**15**
1,1-Dichloropropene	NR	NR	NR	NR
Carbon tetrachloride	NR	NR	NR	NR
Benzene	NR	NR	NR	NR
1,2-Dichloroethane	NR	NR	NR	NR
Trichloroethene	**160**	**36**	**13**	**120**
1,2-Dichloropropane	NR	NR	NR	NR
Dibromomethane	NR	NR	NR	NR
Bromodichloromethane	NR	NR	NR	NR
cis-1,3-Dichloropropene	NR	NR	NR	NR
Methyl Isobutyl Ketone	NR	NR	NR	NR
Toluene	NR	NR	NR	NR
trans-1,3-Dichloropropene	NR	NR	NR	NR
1,1,2-Trichloroethane	NR	NR	NR	NR
Tetrachloroethene	**160**	**380**	**71**	**25**
1,3-Dichloropropane	NR	NR	NR	NR

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 10-Feb-99

Analytical Report No: 99-024

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 2/3/99-2/8/99

Sample I.D.:	SVE-6S	SVE-6D	SVE-3S	SVE-1D
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	1.0 µg/L	1.0 µg/L	1.0 µg/L
Total VOC's by GC-PID/ELCD/FID (continued)				
Dibromochloromethane	NR	NR	NR	NR
1,2-Dibromoethane	NR	NR	NR	NR
Chlorobenzene	NR	NR	NR	NR
1,1,1,2-Tetrachloroethane	NR	NR	NR	NR
Ethylbenzene	NR	NR	NR	NR
Xylenes	NR	NR	NR	NR
Styrene	NR	NR	NR	NR
Bromoform	NR	NR	NR	NR
Isopropylbenzene	NR	NR	NR	NR
Bromobenzene	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	NR	NR	NR	NR
1,2,3-Trichloropropane	NR	NR	NR	NR
n-Propylbenzene	NR	NR	NR	NR
2-Chlorotoluene	NR	NR	NR	NR
1,3,5-Trimethylbenzene	NR	NR	NR	NR
4-Chlorotoluene	NR	NR	NR	NR
tert-Butylbenzene	NR	NR	NR	NR
1,2,4-Trimethylbenzene	NR	NR	NR	NR
sec-Butylbenzene	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR
p-Isopropyltoluene	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR
n-Butylbenzene	NR	NR	NR	NR
1,2-Dibromo-3-chloropropane	NR	NR	NR	NR
1,2,4-Trichlorobenzene	NR	NR	NR	NR
Hexachlorobutadiene	NR	NR	NR	NR
Naphthalene	NR	NR	NR	NR
1,2,3-Trichlorobenzene	NR	NR	NR	NR

Analysis by GC-PID/ELCD/FID (EPA Method 18)
NR = analyte not requested
ND = not detected

Approved by,

Paul J. Spreitzer
Analytical Services

Approved by,

Bruce J. Nasser
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 10-Feb-99

Analytical Report No: 99-024

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112
Attention: Kristin Yahnke
Project Name: Dayton Thermal Products
Sample collection/analysis date: 2/3/99-2/8/99

Sample I.D.:	SVE-1S	SVE-7S	SVE-8S	SVE-8D
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	1.0 µg/L	1.0 µg/L	1.0 µg/L
Total VOC's by GC-PID/ELCD/FID				
(F12) Dichlorodifluoromethane	NR	NR	NR	NR
Chloromethane	NR	NR	NR	NR
Vinyl Chloride	NR	NR	NR	NR
Bromomethane	NR	NR	NR	NR
Chloroethane	NR	NR	NR	NR
(F21) Dichlorofluoromethane	NR	NR	NR	NR
(F11) Trichlorofluoromethane	NR	NR	NR	NR
Ethyl Ether	NR	NR	NR	NR
1,1- Dichloroethene	NR	NR	NR	NR
(F13) Trichlorotrifluoroethane	NR	NR	NR	NR
Acetone	NR	NR	NR	NR
Allyl Chloride	NR	NR	NR	NR
Methylene Chloride	NR	NR	NR	NR
trans-1,2-Dichloroethene	NR	NR	NR	NR
Methyl tert-butyl ether	NR	NR	NR	NR
1,1-Dichloroethane	**ND**	**ND**	**ND**	**1.1**
2,2-Dichloropropane	NR	NR	NR	NR
cis-1,2-Dichloroethene	**4.8**	**3.6**	**6.7**	**5.4**
Methyl Ethyl Ketone	NR	NR	NR	NR
Bromochloromethane	NR	NR	NR	NR
Tetrahydrofuran	NR	NR	NR	NR
Chloroform	NR	NR	NR	NR
1,1,1-Trichloroethane	**5.2**	**19**	**ND**	**ND**
1,1-Dichloropropene	NR	NR	NR	NR
Carbon tetrachloride	NR	NR	NR	NR
Benzene	NR	NR	NR	NR
1,2-Dichloroethane	NR	NR	NR	NR
Trichloroethene	**50**	**59**	**31**	**60**
1,2-Dichloropropane	NR	NR	NR	NR
Dibromomethane	NR	NR	NR	NR
Bromodichloromethane	NR	NR	NR	NR
cis-1,3-Dichloropropene	NR	NR	NR	NR
Methyl Isobutyl Ketone	NR	NR	NR	NR
Toluene	NR	NR	NR	NR
trans-1,3-Dichloropropene	NR	NR	NR	NR
1,1,2-Trichloroethane	NR	NR	NR	NR
Tetrachloroethene	**6.6**	**16**	**24**	**130**
1,3-Dichloropropane	NR	NR	NR	NR

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 10-Feb-99

Analytical Report No: 99-024

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 2/3/99-2/8/99

Sample I.D.:	SVE-1S	SVE-7S	SVE-8S	SVE-8D
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	1.0 µg/L	1.0 µg/L	1.0 µg/L
Total VOC's by GC-PID/ELCD/FID (continued)				
Dibromochloromethane	NR	NR	NR	NR
1,2-Dibromoethane	NR	NR	NR	NR
Chlorobenzene	NR	NR	NR	NR
1,1,1,2-Tetrachloroethane	NR	NR	NR	NR
Ethylbenzene	NR	NR	NR	NR
Xylenes	NR	NR	NR	NR
Styrene	NR	NR	NR	NR
Bromoform	NR	NR	NR	NR
Isopropylbenzene	NR	NR	NR	NR
Bromobenzene	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	NR	NR	NR	NR
1,2,3-Trichloropropane	NR	NR	NR	NR
n-Propylbenzene	NR	NR	NR	NR
2-Chlorotoluene	NR	NR	NR	NR
1,3,5-Trimethylbenzene	NR	NR	NR	NR
4-Chlorotoluene	NR	NR	NR	NR
tert-Butylbenzene	NR	NR	NR	NR
1,2,4-Trimethylbenzene	NR	NR	NR	NR
sec-Butylbenzene	NR	NR	NR	NR
1,3-Dichlorobenzene	NR	NR	NR	NR
p-Isopropyltoluene	NR	NR	NR	NR
1,4-Dichlorobenzene	NR	NR	NR	NR
1,2-Dichlorobenzene	NR	NR	NR	NR
n-Butylbenzene	NR	NR	NR	NR
1,2-Dibromo-3-chloropropane	NR	NR	NR	NR
1,2,4-Trichlorobenzene	NR	NR	NR	NR
Hexachlorobutadiene	NR	NR	NR	NR
Naphthalene	NR	NR	NR	NR
1,2,3-Trichlorobenzene	NR	NR	NR	NR

Analysis by GC-PID/ELCD/FID (EPA Method 18)
NR = analyte not requested
ND = not detected

Approved by,
Paul J. Spreitzer
Analytical Services

Approved by,
Bruce J. Nasser
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Stréet N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date:	10-Feb-99
Analytical Report No:	99-024
Client Name:	Leggette Brashears & Graham, Inc.
Address:	1210 W County Road E
City, State Zip:	St. Paul, Minnesota 55112
Attention:	Kristin Yahnke
Project Name:	Dayton Thermal Products
Sample collection/analysis date:	2/3/99-2/8/99

Sample I.D.:	SVE-EFFLUENT
Matrix:	Air
Detection Limit / Units	1.0 µg/L

Total VOC's by GC-PID/ELCD/FID	
(F12) Dichlorodifluoromethane	NR
Chloromethane	NR
Vinyl Chloride	NR
Bromomethane	NR
Chloroethane	NR
(F21) Dichlorofluoromethane	NR
(F11) Trichlorofluoromethane	NR
Ethyl Ether	NR
1,1- Dichloroethene	NR
(F13) Trichlorotrifluoroethane	NR
Acetone	NR
Allyl Chloride	NR
Methylene Chloride	NR
trans-1,2-Dichloroethene	NR
Methyl tert-butyl ether	NR
1,1-Dichloroethane	**10**
2,2-Dichloropropane	NR
cis-1,2-Dichloroethene	**21**
Methyl Ethyl Ketone	NR
Bromochloromethane	NR
Tetrahydrofuran	NR
Chloroform	NR
1,1,1-Trichloroethane	**9.6**
1,1-Dichloropropene	NR
Carbon tetrachloride	NR
Benzene	NR
1,2-Dichloroethane	NR
Trichloroethene	**78**
1,2-Dichloropropane	NR
Dibromomethane	NR
Bromodichloromethane	NR
cis-1,3-Dichloropropene	NR
Methyl Isobutyl Ketone	NR
Toluene	NR
trans-1,3-Dichloropropene	NR
1,1,2-Trichloroethane	NR
Tetrachloroethene	**92**
1,3-Dichloropropane	NR

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date:	10-Feb-99
Analytical Report No:	99-024
Client Name:	Leggette Brashears & Graham, Inc.
Address:	1210 W County Road E
City, State Zip:	St. Paul, Minnesota 55112
Project Name:	Dayton Thermal Products
Sample collection/analysis date:	

Sample I.D.:	SVE-EFFLUENT
Matrix:	Air
Detection Limit / Units	1.0 µg/L

Total VOC's by GC-PID/ELCD/FID (continued)

Dibromochloromethane	NR
1,2-Dibromoethane	NR
Chlorobenzene	NR
1,1,1,2-Tetrachloroethane	NR
Ethylbenzene	NR
Xylenes	NR
Styrene	NR
Bromoform	NR
Isopropylbenzene	NR
Bromobenzene	NR
1,1,2,2-Tetrachloroethane	NR
1,2,3-Trichloropropane	NR
n-Propylbenzene	NR
2-Chlorotoluene	NR
1,3,5-Trimethylbenzene	NR
4-Chlorotoluene	NR
tert-Butylbenzene	NR
1,2,4-Trimethylbenzene	NR
sec-Butylbenzene	NR
1,3-Dichlorobenzene	NR
p-Isopropyltoluene	NR
1,4-Dichlorobenzene	NR
1,2-Dichlorobenzene	NR
n-Butylbenzene	NR
1,2-Dibromo-3-chloropropane	NR
1,2,4-Trichlorobenzene	NR
Hexachlorobutadiene	NR
Naphthalene	NR
1,2,3-Trichlorobenzene	NR

Analysis by GC-PID/ELCD/FID (EPA Method 18)
NR = analyte not requested
ND = not detected

Approved by,

Paul J. Spreitzer
Analytical Services

Approved by,

Bruce J. Nasser
Analytical Services

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

024
CHAIN OF CUSTODY RECORD

Record Number: 102

Client Name: Chrysler Corporation	Project Title: DAYTON THERMAL PRODUCTS
Address: 1600 Webster Street	Project Number: 3CHRY4 / DAYTON
City, State Zip: DAYTON, OH 45404	Contact: KRISTIN Yahnke

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	SVE-4S	Serial #14265	AIR	2/3/99 9:32	1
2	SVE-4D	Serial #14245	AIR	2/3/99 9:33	1
3	SVE-5S	Serial # 14263	AIR	2/3/99 9:56	1
4	SVE-5D	Serial # 14238	AIR	2/3/99 9:58	1
5	SVE-6S	Serial # 14236	AIR	2/3/99 10:22	1
6	SVE-6D	Serial # 14248	AIR	2/3/99 10:24	1
7	SVE-3S	Serial # 13396	AIR	2/3/99 10:41	1
8	SVE-1D	Serial # 14252	AIR	2/3/99 10:02	1
9	SVE-1S	Serial # 14254	AIR	2/3/99 10:59	1
10	SVE-7S	Serial #14259	AIR	2/3/99 11:14	1

Samples Collected by: Kay / RAC	Delivered by:	Date Delivered:

Destination:	Send Original Report To: KRISTIN YAHNKE-LBG, 1210 WEST COUNTY ROE, ST. PAUL, MN 55112, (P) 651-490-1405, (F) 651-490-1006	Send Copy Report To:
Contact:		
Date Due:		
Analysis Cost:	NA	NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
PCE, TCE, 1,1,1-TCE, cis-1,2-DCE & 1,1-DCA	ug/L	X	X	X	X	X	X	X	X	X	X

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1-10	R Carlson	[illegible]	2/5/99	
		PE	1030	

White- Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by:	Date Completed:	Present on Site:

PRECISION ENVIRONMENTAL *Field Monitoring and Testing Services*	024 CHAIN OF CUSTODY RECORD	Record Number 2 of 2

Client Name: Chrysler Corporation	Project Title: DAYTON THERMAL PRODUCTS
Address: 1600 Webster Street	Project Number: 3CHRY4 / DAYTON
City, State Zip: DAYTON, OH 45404	Contact: KRISTIN YAHNKE

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	SVE-8S	Serial No 14247	AIR	2/3/99 11:29	1
2	SVE-8D	Serial # 14242	AIR	2/3/99 11:31	1
3	SVE-EFFLUENT	Serial #14239	AIR	2/3/99 11:30	1
4					
5					
6					
7					
8					
9					
10					

Samples Collected by: KSY / RAC	Delivered by: —	Date Delivered: —

Destination:	Send Original Report To:	Send Copy Report To:
Contact:	Kristin Yahnke (P) 651-490-1405 (F) 651-490-1006	
Date Due:	LBG 1210 West County Rd E	
Analysis Cost:	St. Paul, MN 55112 NA	NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
PCE, TCE, 1,1,1-TCA, Cis-1,2DCE & 1,1-DCA	ug/L	X	X	X							

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1-3	R Carlson	Bob Nausee	2/5/99	
		PE	1030	

White- Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by:	Date Completed:	Present on Site:

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

ENTERED IN DATABASE
BY/DATE Pearson
CHECKED BY MCP 4-13-99
DATE _____

Report Date:	10-Mar-99
Analytical Report No:	99-047
Client Name:	Leggette Brashears & Graham, Inc.
Address:	1210 W County Road E
City, State Zip:	St. Paul, Minnesota 55112
Attention:	Kristin Yahnke
Project Name:	Dayton Thermal Products
Sample collection/analysis date:	3/5/99-3/9/99

Sample I.D.:	SVE-S4
Matrix:	Air
Detection Limit / Units	1.0 µg/L

Total VOC's by GC-PID/ELCD/FID	
(F12) Dichlorodifluoromethane	NR
Chloromethane	NR
Vinyl Chloride	**ND**
Bromomethane	NR
Chloroethane	NR
(F21) Dichlorofluoromethane	NR
(F11) Trichlorofluoromethane	NR
Ethyl Ether	NR
1,1- Dichloroethene	**1.5**
(F13) Trichlorotrifluoroethane	NR
Acetone	NR
Allyl Chloride	NR
Methylene Chloride	NR
trans-1,2-Dichloroethene	NR
Methyl tert-butyl ether	NR
1,1-Dichloroethane	**ND**
2,2-Dichloropropane	NR
cis-1,2-Dichloroethene	**4.5**
Methyl Ethyl Ketone	NR
Bromochloromethane	NR
Tetrahydrofuran	NR
Chloroform	NR
1,1,1-Trichloroethane	**9.1**
1,1-Dichloropropene	NR
Carbon tetrachloride	NR
Benzene	NR
1,2-Dichloroethane	NR
Trichloroethene	**65**
1,2-Dichloropropane	NR
Dibromomethane	NR
Bromodichloromethane	NR
cis-1,3-Dichloropropene	NR
Methyl Isobutyl Ketone	NR
Toluene	NR
trans-1,3-Dichloropropene	NR
1,1,2-Trichloroethane	NR
Tetrachloroethene	**74**
1,3-Dichloropropane	NR

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date:	10-Mar-99
Analytical Report No:	99-047
Client Name:	Leggette Brashears & Graham, Inc.
Address:	1210 W County Road E
City, State Zip:	St. Paul, Minnesota 55112
	Kristin Yahnke
Project Name:	Dayton Thermal Products
Sample collection/analysis date:	3/5/99-3/9/99

Sample I.D.:	SVE-S4
Matrix:	Air
Detection Limit / Units	1.0 µg/L

Total VOC's by GC-PID/ELCD/FID (continued)	
Dibromochloromethane	NR
1,2-Dibromoethane	NR
Chlorobenzene	NR
1,1,1,2-Tetrachloroethane	NR
Ethylbenzene	NR
Xylenes	NR
Styrene	NR
Bromoform	NR
Isopropylbenzene	NR
Bromobenzene	NR
1,1,2,2-Tetrachloroethane	NR
1,2,3-Trichloropropane	NR
n-Propylbenzene	NR
2-Chlorotoluene	NR
1,3,5-Trimethylbenzene	NR
4-Chlorotoluene	NR
tert-Butylbenzene	NR
1,2,4-Trimethylbenzene	NR
sec-Butylbenzene	NR
1,3-Dichlorobenzene	NR
p-Isopropyltoluene	NR
1,4-Dichlorobenzene	NR
1,2-Dichlorobenzene	NR
n-Butylbenzene	NR
1,2-Dibromo-3-chloropropane	NR
1,2,4-Trichlorobenzene	NR
Hexachlorobutadiene	NR
Naphthalene	NR
1,2,3-Trichlorobenzene	NR

Analysis by GC-PID/ELCD/FID (EPA Method 18)
NR = analyte not requested
ND = not detected

Approved by,

Paul J. Spreitzer
Analytical Services

Approved by,

Bruce J. Nasser
Analytical Services

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

CHAIN OF CUSTODY RECORD

Record Number 047
1 OF 1

Client Name: Chrysler Corporation	Project Title: Dayton Thermal Products
Address: 1600 Webster St	Project Number: 3CHRY4/DAYTON
City, State Zip: Dayton, OH 45404	Contact: Kristin Yahnke

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	SVE-S4	Ser # 14238 PID=15.3	Air	3-5-99	1
2					
3					
4					
5					
6					
7					
8					
9					
10					

Samples Collected by: CCV	Delivered by:	Date Delivered:

Destination:	Send Original Report To: Kristin Yahnke LBG 1210 West County Rd E St. Paul, MN 55112 (P) 651-490-1405 (F) 651-490-1006 NA	Send Copy Report To: NA
Contact:		
Date Due:		
Analysis Cost:		

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs-TO12	ug/L	X									

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1	Cindy Vandelhoot	[illegible]	3/9/99	8089334666 22
		PE	1500	Form IDH 0210

White- Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: CCV	Date Completed: 3-5-99	Present on Site: yes

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

ENTERED IN DATABASE
BY/DATE KC 4-13-99
CHECKED BY MCP 4-13-99
DATE

Report Date:	7-Apr-99
Analytical Report No:	99-071
Client Name:	Leggette Brashears & Graham, Inc.
Address:	1210 W County Road E
City, State Zip:	St. Paul, Minnesota 55112
Attention:	Kristin Yahnke
Project Name:	Dayton Thermal Products
Sample collection/analysis date:	4/5/99-4/6/99

Sample I.D.:	SVE-S4
Matrix:	Air
Detection Limit / Units	1.0 µg/L
Total VOC's by GC-PID/ELCD/FID	
(F12) Dichlorodifluoromethane	NR
Chloromethane	NR
Vinyl Chloride	NR
Bromomethane	NR
Chloroethane	NR
(F21) Dichlorofluoromethane	NR
(F11) Trichlorofluoromethane	NR
Ethyl Ether	NR
1,1- Dichloroethene	NR
(F13) Trichlorotrifluoroethane	NR
Acetone	NR
Allyl Chloride	NR
Methylene Chloride	NR
trans-1,2-Dichloroethene	NR
Methyl tert-butyl ether	NR
1,1-Dichloroethane	ND
2,2-Dichloropropane	NR
cis-1,2-Dichloroethene	3.7
Methyl Ethyl Ketone	NR
Bromochloromethane	NR
Tetrahydrofuran	NR
Chloroform	NR
1,1,1-Trichloroethane	6.6
1,1-Dichloropropene	NR
Carbon tetrachloride	NR
Benzene	NR
1,2-Dichloroethane	NR
Trichloroethene	43
1,2-Dichloropropane	NR
Dibromomethane	NR
Bromodichloromethane	NR
cis-1,3-Dichloropropene	NR
Methyl Isobutyl Ketone	NR
Toluene	NR
trans-1,3-Dichloropropene	NR
1,1,2-Trichloroethane	NR
Tetrachloroethene	49
1,3-Dichloropropane	NR

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
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(612) 780-9787 • FAX (612) 780-7157

Report Date:	7-Apr-99
Analytical Report No:	99-071
Client Name:	Leggette Brashears & Graham, Inc.
Address:	1210 W County Road E
City, State Zip:	St. Paul, Minnesota 55112
Project Name:	Dayton Thermal Products
Sample collection/analysis date:	4/5/99-4/6/99

Sample I.D.:	SVE-S4
Matrix:	Air
Detection Limit / Units	1.0 µg/L

Total VOC's by GC-PID/ELCD/FID (continued)

Dibromochloromethane	NR
1,2-Dibromoethane	NR
Chlorobenzene	NR
1,1,1,2-Tetrachloroethane	NR
Ethylbenzene	NR
Xylenes	NR
Styrene	NR
Bromoform	NR
Isopropylbenzene	NR
Bromobenzene	NR
1,1,2,2-Tetrachloroethane	NR
1,2,3-Trichloropropane	NR
n-Propylbenzene	NR
2-Chlorotoluene	NR
1,3,5-Trimethylbenzene	NR
4-Chlorotoluene	NR
tert-Butylbenzene	NR
1,2,4-Trimethylbenzene	NR
sec-Butylbenzene	NR
1,3-Dichlorobenzene	NR
p-Isopropyltoluene	NR
1,4-Dichlorobenzene	NR
1,2-Dichlorobenzene	NR
n-Butylbenzene	NR
1,2-Dibromo-3-chloropropane	NR
1,2,4-Trichlorobenzene	NR
Hexachlorobutadiene	NR
Naphthalene	NR
1,2,3-Trichlorobenzene	NR

Analysis by GC-PID/ELCD/FID (EPA Method 18)
NR = analyte not requested
ND = not detected

Approved by,
Paul J. Spreitzer
Analytical Services

Approved by,
Bruce J. Nasser
Analytical Services

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

CHAIN OF CUSTODY RECORD

Record Number: 1 of 1

Client Name: Chrysler Corporation	Project Title: Dayton Thermal Products
Address: 1600 Webster St.	Project Number: 3CHRY4/Dayton
City, State Zip: Dayton, OH 45404	Contact: Kristin Yahnke

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	SVE-S4	Ser# 14256 [redacted]	Air	4-5-99	1
2					
3					
4					
5					
6					
7					
8					
9					
10					

Samples Collected by: CCV	Delivered by:	Date Delivered:

Destination:	Send Original Report To:	Send Copy Report To:
Contact:	Kristin Yahnke - LBG 1210 W. County Rd E ST. PAUL, MN 55112 (P) 651-490-1405 (F) 651-490-1006	
Date Due:		
Analysis Cost:	NA	NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs - TO12	ug/L	X									

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1	Cindy Vanderhoot	Paul J Grant	4/6/99 1200	812286574848

White- Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: CCV	Date Completed: 4-5-99	Present on Site: yes

PRECISION ENVIRONMENTAL

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ENTERED IN DATABASE
BY/DATE RC 9-15-99
CHECKED BY DVS
DATE 9/16/99

Report Date:	19-May-99
Analytical Report No:	99-105
Client Name:	Leggette Brashears & Graham, Inc.
Address:	1210 W County Road E
City, State Zip:	St. Paul, Minnesota 55112
Attention:	Kristin Yahnke
Project Name:	Dayton Thermal Products
Sample collection/analysis date:	5/13/99-5/14/99

Sample I.D.:	SVE-S4 Should be DTP-24
Matrix:	Air
Detection Limit / Units	1.0 µg/L

Total VOC's by GC-PID/ELCD/FID	
(F12) Dichlorodifluoromethane	NR
Chloromethane	NR
Vinyl Chloride	NR
Bromomethane	NR
Chloroethane	NR
(F21) Dichlorofluoromethane	NR
(F11) Trichlorofluoromethane	NR
Ethyl Ether	NR
1,1- Dichloroethene	NR
(F13) Trichlorotrifluoroethane	NR
Acetone	NR
Allyl Chloride	NR
Methylene Chloride	NR
trans-1,2-Dichloroethene	NR
Methyl tert-butyl ether	NR
1,1-Dichloroethane	**ND**
2,2-Dichloropropane	NR
cis-1,2-Dichloroethene	**1.6**
Methyl Ethyl Ketone	NR
Bromochloromethane	NR
Tetrahydrofuran	NR
Chloroform	NR
1,1,1-Trichloroethane	**2.8**
1,1-Dichloropropene	NR
Carbon tetrachloride	NR
Benzene	NR
1,2-Dichloroethane	NR
Trichloroethene	**25**
1,2-Dichloropropane	NR
Dibromomethane	NR
Bromodichloromethane	NR
cis-1,3-Dichloropropene	NR
Methyl Isobutyl Ketone	NR
Toluene	NR
trans-1,3-Dichloropropene	NR
1,1,2-Trichloroethane	NR
Tetrachloroethene	**25**
1,3-Dichloropropane	NR

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date:	19-May-99
Analytical Report No:	99-105
Client Name:	Leggette Brashears & Graham, Inc.
Address:	1210 W County Road E
City, State Zip:	St. Paul, Minnesota 55112
Attention:	Kristin Yahnke
Project Name:	Dayton Thermal Products
Sample collection/analysis date:	5/13/99-5/14/99

Sample I.D.:	SVE-S4
Matrix:	Air
Detection Limit / Units	1.0 µg/L

Total VOC's by GC-PID/ELCD/FID (continued)	
Dibromochloromethane	NR
1,2-Dibromoethane	NR
Chlorobenzene	NR
1,1,1,2-Tetrachloroethane	NR
Ethylbenzene	NR
Xylenes	NR
Styrene	NR
Bromoform	NR
Isopropylbenzene	NR
Bromobenzene	NR
1,1,2,2-Tetrachloroethane	NR
1,2,3-Trichloropropane	NR
n-Propylbenzene	NR
2-Chlorotoluene	NR
1,3,5-Trimethylbenzene	NR
4-Chlorotoluene	NR
tert-Butylbenzene	NR
1,2,4-Trimethylbenzene	NR
sec-Butylbenzene	NR
1,3-Dichlorobenzene	NR
p-Isopropyltoluene	NR
1,4-Dichlorobenzene	NR
1,2-Dichlorobenzene	NR
n-Butylbenzene	NR
1,2-Dibromo-3-chloropropane	NR
1,2,4-Trichlorobenzene	NR
Hexachlorobutadiene	NR
Naphthalene	NR
1,2,3-Trichlorobenzene	NR

Analysis by GC-PID/ELCD/FID (EPA Method 18)
NR = analyte not requested
ND = not detected

Approved by,

Paul J. Spreitzer
Analytical Services

Approved by,

Bruce J. Nasser
Analytical Services

10:10

PRECISION ENVIRONMENTAL *Field Monitoring and Testing Services*	99105 CHAIN OF CUSTODY RECORD	Record Number 1 of 1

Client Name: Chrysler Corporation	Project Title: Dayton Thermal Products
Address: 1600 Webster St.	Project Number: 3CHRY4/DAYTON
City, State Zip: Dayton OH 45404	Contact: Kristin Yahnke

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	SVE-S4	ser# 14236 PID=24.6	Air	5-13-99	1
2		This is an Eff Sample			
3		& Should be labeled DTP-S4			
4					
5					
6					
7					
8					
9					
10					

Samples Collected by: CCV	Delivered by:	Date Delivered:

Destination:	Send Original Report To:	Send Copy Report To:
Contact:	KRISTIN YAHNKE - LBG 1210 W. County Rd E ST. PAUL, MN 55112 (P) 651-490-1405 (F) 651-490-1006	
Date Due:		
Analysis Cost:	NA	NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs-TO12	ug/L	X									

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1	Cindy Vandahoff	[signature]	5/14/99	8105766 95019
		PE	1030	

White- Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: CCV	Date Completed: 5-13-99	Present on Site: yes

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PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date:	21-Oct-99
Analytical Report No:	99-229
Client Name:	Leggette Brashears & Graham, Inc.
Address:	1210 W County Road E
City, State Zip:	St. Paul, Minnesota 55112
Attention:	Kristin Yahnke
Project Name:	Dayton Thermal Products
Sample collection/analysis date:	10/12/99-10/20/99

Sample I.D.:	SVE-EFF	CATOX-EFF
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	1.0 µg/L
Total VOC's by GC-PID/ELCD/FID		
(F12) Dichlorodifluoromethane	NR	NR
Chloromethane	NR	NR
Vinyl Chloride	**ND**	**ND**
Bromomethane	NR	NR
Chloroethane	NR	NR
(F21) Dichlorofluoromethane	NR	NR
(F11) Trichlorofluoromethane	NR	NR
Ethyl Ether	NR	NR
1,1- Dichloroethene	**1.6**	**ND**
(F13) Trichlorotrifluoroethane	NR	NR
Acetone	NR	NR
Allyl Chloride	NR	NR
Methylene Chloride	NR	NR
trans-1,2-Dichloroethene	NR	NR
Methyl tert-butyl ether	NR	NR
1,1-Dichloroethane	**ND**	**ND**
2,2-Dichloropropane	NR	NR
cis-1,2-Dichloroethene	**2.8**	**ND**
Methyl Ethyl Ketone	NR	NR
Bromochloromethane	NR	NR
Tetrahydrofuran	NR	NR
Chloroform	NR	NR
1,1,1-Trichloroethane	**5.8**	**ND**
1,1-Dichloropropene	NR	NR
Carbon tetrachloride	NR	NR
Benzene	NR	NR
1,2-Dichloroethane	NR	NR
Trichloroethene	**26**	**1.1**
1,2-Dichloropropane	NR	NR
Dibromomethane	NR	NR
Bromodichloromethane	NR	NR
cis-1,3-Dichloropropene	NR	NR
Methyl Isobutyl Ketone	NR	NR
Toluene	NR	NR
trans-1,3-Dichloropropene	NR	NR
1,1,2-Trichloroethane	NR	NR
Tetrachloroethene	**24**	**3.8**
1,3-Dichloropropane	NR	NR

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
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Report Date:	21-Oct-99
Analytical Report No:	99-229
Client Name:	Leggette Brashears & Graham, Inc.
Address:	1210 W County Road E
City, State Zip:	St. Paul, Minnesota 55112
Attention:	Kristin Yahnke
Project Name:	Dayton Thermal Products
Sample collection/analysis date:	10/12/99-10/20/99

Sample I.D.:	SVE-EFF	CATOX-EFF
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	1.0 µg/L
Total VOC's by GC-PID/ELCD/FID (continued)		
Dibromochloromethane	NR	NR
1,2-Dibromoethane	NR	NR
Chlorobenzene	NR	NR
1,1,1,2-Tetrachloroethane	NR	NR
Ethylbenzene	NR	NR
Xylenes	NR	NR
Styrene	NR	NR
Bromoform	NR	NR
Isopropylbenzene	NR	NR
Bromobenzene	NR	NR
1,1,2,2-Tetrachloroethane	NR	NR
1,2,3-Trichloropropane	NR	NR
n-Propylbenzene	NR	NR
2-Chlorotoluene	NR	NR
1,3,5-Trimethylbenzene	NR	NR
4-Chlorotoluene	NR	NR
tert-Butylbenzene	NR	NR
1,2,4-Trimethylbenzene	NR	NR
sec-Butylbenzene	NR	NR
1,3-Dichlorobenzene	NR	NR
p-Isopropyltoluene	NR	NR
1,4-Dichlorobenzene	NR	NR
1,2-Dichlorobenzene	NR	NR
n-Butylbenzene	NR	NR
1,2-Dibromo-3-chloropropane	NR	NR
1,2,4-Trichlorobenzene	NR	NR
Hexachlorobutadiene	NR	NR
Naphthalene	NR	NR
1,2,3-Trichlorobenzene	NR	NR

Analysis by GC-PID/ELCD/FID (EPA Method 18)
NR = analyte not requested
ND = not detected

Approved by,

Bruce J. Nasser
Analytical Services

Approved by,

David J. Yalch
Analytical Services

651 490 1405 ext. 218

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

CHAIN OF ~~CUSTODY~~ 229 RECORD

Record Number: 1 of 1 — 99124

Client Name: Leggette, Brashears & Graham, Inc.	Project Title: DAYTON THERMAL PRODUCTS
Address: 1210 West Co. Rd E, Ste 700	Project Number: 3CHRY41DAYTON
City, State Zip: St. Paul MN	Contact: KRISTIN YAHNKE

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	CATOX EFF TUBE 1	Tube 1	Solid	10/15/99	1
2	CATOX EFF TUBE 2	Tube 2	Solid	10/15/99	1
3	SCRUBBER EFF TUBE 1	Tube 1	Solid	10/15/99	1
4	SCRUBBER EFF TUBE 2	Tube 2	Solid	10/15/99	1
5	SVE EFF	Summa	Air	10/12/99	1
6	SVE EFF	Summa	Air	10/15/99	1
7	CATOX EFF	Summa	Air	10/15/99	1
8					
9					
10					

Samples Collected by: KSY	Delivered by:	Date Delivered:

Destination:	Send Original Report To:	Send Copy Report To:
Contact:	KRISTIN YAHNKE, LBG	
Date Due:		
Analysis Cost:	NA	NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
HCl	ppmv	X	X	X	X						
8015/8020						X	X	X			
Complete											
List -											
Call w/ ??											

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1	Kristin S Yahnke	Boon Nunez	10/18/99	
		PE	1413	

White- Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: KSY	Date Completed: 10/15/99	Present on Site: Yes

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Pace Analytical

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

JAN 04 2000

December 27, 1999

Ms. Kristin Yahnke
Leggette, Brashears & Graham
1210 W. County Rd. E Suite 700
St. Paul, MN 55112

RE: Pace Project Number: 1028212
Client Project ID: DAYTON THERMAL PRODUCTS

Dear Ms. Yahnke:

Enclosed are the results of analyses for sample(s)received by the laboratory on December 16, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Diane J. Anderson

Diane J. Anderson
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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JAN 04 2000

Pace Analytical

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

DATE: 12/27/99
PAGE: 1

Leggette, Brashears & Graham
1210 W. County Rd. E Suite 700
St. Paul, MN 55112

Pace Project Number: 1028212
Client Project ID: DAYTON THERMAL PRODUCTS

Attn: Ms. Kristin Yahnke
Phone: (651)490-1405

Solid results are reported on a dry weight basis

Pace Sample No: 101764793 Date Collected: 12/15/99 Matrix: Air
Client Sample ID: CVE SYS EFF Date Received: 12/16/99

GC/MS Volatiles

GC/MS VOCs, in Air — Method: TO-14 Source — Prep Method: TO-14 Source

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Dichlorodifluoromethane	ND	ppmv	0.14	12/17/99	RJS	75-71-8	
Chloromethane	ND	ppmv	0.14	12/17/99	RJS	74-87-3	
Dichlorotetrafluoroethane-F114	ND	ppmv	0.14	12/17/99	RJS	76-14-2	
Vinyl Chloride	1.6	ppmv	0.56	12/17/99	RJS	75-01-4	
Bromomethane	ND	ppmv	0.14	12/17/99	RJS	74-83-9	
Chloroethane	ND	ppmv	0.14	12/17/99	RJS	75-00-3	
Trichlorofluoromethane	ND	ppmv	0.14	12/17/99	RJS	75-69-4	
1,1-Dichloroethene	0.64	ppmv	0.14	12/17/99	RJS	75-35-4	
1,1,2-Trichlorotrifluoroethane	11	ppmv	5.6	12/17/99	RJS	76-13-1	
Methylene Chloride	ND	ppmv	0.14	12/17/99	RJS	75-09-2	
1,1-Dichloroethane	0.93	ppmv	0.14	12/17/99	RJS	75-34-3	
cis-1,2-Dichloroethene	3.5	ppmv	0.56	12/17/99	RJS	156-59-2	
Chloroform	ND	ppmv	0.14	12/17/99	RJS	67-66-3	
1,1,1-Trichloroethane	4.5	ppmv	0.56	12/17/99	RJS	71-55-6	
1,2-Dichloroethane	ND	ppmv	0.14	12/17/99	RJS	107-06-2	
Benzene	ND	ppmv	0.14	12/17/99	RJS	71-43-2	
Carbon Tetrachloride	ND	ppmv	0.14	12/17/99	RJS	56-23-5	
1,2-Dichloropropane	ND	ppmv	0.14	12/17/99	RJS	78-87-5	
Trichloroethene	15	ppmv	5.6	12/17/99	RJS	79-01-6	
cis-1,3-Dichloropropene	ND	ppmv	0.14	12/17/99	RJS	10061-01-5	
trans-1,3-Dichloropropene	ND	ppmv	0.14	12/17/99	RJS	10061-02-6	
Toluene	ND	ppmv	0.14	12/17/99	RJS	108-88-3	
1,1,2-Trichloroethane	ND	ppmv	0.14	12/17/99	RJS	79-00-5	
1,2-Dibromoethane	ND	ppmv	0.14	12/17/99	RJS	106-93-4	
Tetrachloroethene	14	ppmv	5.6	12/17/99	RJS	127-18-4	
Chlorobenzene	ND	ppmv	0.14	12/17/99	RJS	108-90-7	

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Minneapolis, MN 55414
Tel: 612-607-1700
Fax: 612-607-6444

Pace Analytical

Pace Project Number: 1028212
Client Project ID: DAYTON THERMAL PRODUCTS

Pace Sample No: 101764793 | Date Collected: 12/15/99 | Matrix: Air
Client Sample ID: CVE SYS EFF | Date Received: 12/16/99

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
Ethylbenzene	ND	ppmv	0.14	12/17/99	RJS	100-41-4	
M&P-Xylene	ND	ppmv	0.14	12/17/99	RJS	7816-60-0	
O-Xylene (1,2-Dimethylbenzene)	ND	ppmv	0.14	12/17/99	RJS	95-47-6	
Styrene	ND	ppmv	1.4	12/17/99	RJS	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppmv	0.14	12/17/99	RJS	79-34-5	
1,3,5-Trimethylbenzene	ND	ppmv	0.14	12/17/99	RJS	108-67-8	
1,2,4-Trimethylbenzene	ND	ppmv	0.14	12/17/99	RJS	95-63-6	
1,3-Dichlorobenzene	ND	ppmv	0.14	12/17/99	RJS	541-73-1	
1,4-Dichlorobenzene	ND	ppmv	0.14	12/17/99	RJS	106-46-7	
1,2-Dichlorobenzene	ND	ppmv	0.14	12/17/99	RJS	95-50-1	
1,2,4-Trichlorobenzene	ND	ppmv	0.14	12/17/99	RJS	120-82-1	
Hexachlorobutadiene	ND	ppmv	0.14	12/17/99	RJS	87-68-3	

51.17
w/o 113
40.1

Pace Sample No: 101764801 | Date Collected: 12/15/99 | Matrix: Air
Client Sample ID: CATOX EFF | Date Received: 12/16/99

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
GC/MS Volatiles							
GC/MS VOCs, in Air	Method: TO-14 Source				Prep Method: TO-14 Source		
Dichlorodifluoromethane	ND	ppmv	0.13	12/17/99	RJS	75-71-8	
Chloromethane	ND	ppmv	0.13	12/17/99	RJS	74-87-3	
Dichlorotetrafluoroethane-F114	ND	ppmv	0.13	12/17/99	RJS	76-14-2	
Vinyl Chloride	ND	ppmv	0.13	12/17/99	RJS	75-01-4	
Bromomethane	ND	ppmv	0.13	12/17/99	RJS	74-83-9	
Chloroethane	ND	ppmv	0.13	12/17/99	RJS	75-00-3	
Trichlorofluoromethane	ND	ppmv	0.13	12/17/99	RJS	75-69-4	
1,1-Dichloroethene	ND	ppmv	0.13	12/17/99	RJS	75-35-4	
1,1,2-Trichlorotrifluoroethane	5.4	ppmv	1	12/17/99	RJS	76-13-1	
Methylene Chloride	ND	ppmv	0.13	12/17/99	RJS	75-09-2	
1,1-Dichloroethane	ND	ppmv	0.13	12/17/99	RJS	75-34-3	
cis-1,2-Dichloroethene	0.13	ppmv	0.13	12/17/99	RJS	156-59-2	
Chloroform	ND	ppmv	0.13	12/17/99	RJS	67-66-3	
1,1,1-Trichloroethane	0.14	ppmv	0.13	12/17/99	RJS	71-55-6	
1,2-Dichloroethane	ND	ppmv	0.13	12/17/99	RJS	107-06-2	
Benzene	ND	ppmv	0.13	12/17/99	RJS	71-43-2	
Carbon Tetrachloride	ND	ppmv	0.13	12/17/99	RJS	56-23-5	

9.44
w/o 113
4.44

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Minneapolis, MN 55414
Tel: 612-607-1700
Fax: 612-607-6444

Pace Analytical

Pace Project Number: 1028212
Client Project ID: DAYTON THERMAL PRODUCTS

Pace Sample No: 101764801 Date Collected: 12/15/99 Matrix: Air
Client Sample ID: CATOX EFF Date Received: 12/16/99

Parameters	Results	Units	PRL	Analyzed	Analyst	CAS#	Footnotes
1,2-Dichloropropane	ND	ppmv	0.13	12/17/99	RJS	78-87-5	
Trichloroethene	0.57	ppmv	0.13	12/17/99	RJS	79-01-6	
cis-1,3-Dichloropropene	ND	ppmv	0.13	12/17/99	RJS	10061-01-5	
trans-1,3-Dichloropropene	ND	ppmv	0.13	12/17/99	RJS	10061-02-6	
Toluene	ND	ppmv	0.13	12/17/99	RJS	108-88-3	
1,1,2-Trichloroethane	ND	ppmv	0.13	12/17/99	RJS	79-00-5	
1,2-Dibromoethane	ND	ppmv	0.13	12/17/99	RJS	106-93-4	
Tetrachloroethene	3.2	ppmv	1	12/17/99	RJS	127-18-4	
Chlorobenzene	ND	ppmv	0.13	12/17/99	RJS	108-90-7	
Ethylbenzene	ND	ppmv	0.13	12/17/99	RJS	100-41-4	
M&P-Xylene	ND	ppmv	0.13	12/17/99	RJS	7816-60-0	
O-Xylene (1,2-Dimethylbenzene)	ND	ppmv	0.13	12/17/99	RJS	95-47-6	
Styrene	ND	ppmv	1.3	12/17/99	RJS	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppmv	0.13	12/17/99	RJS	79-34-5	
1,3,5-Trimethylbenzene	ND	ppmv	0.13	12/17/99	RJS	108-67-8	
1,2,4-Trimethylbenzene	ND	ppmv	0.13	12/17/99	RJS	95-63-6	
1,3-Dichlorobenzene	ND	ppmv	0.13	12/17/99	RJS	541-73-1	
1,4-Dichlorobenzene	ND	ppmv	0.13	12/17/99	RJS	106-46-7	
1,2-Dichlorobenzene	ND	ppmv	0.13	12/17/99	RJS	95-50-1	
1,2,4-Trichlorobenzene	ND	ppmv	0.13	12/17/99	RJS	120-82-1	
Hexachlorobutadiene	ND	ppmv	0.13	12/17/99	RJS	87-68-3	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Pace Project Number: 1028212
Client Project ID: DAYTON THERMAL PRODUCTS

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit

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Minneapolis, MN 55414

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Fax: 612-607-6444

QUALITY CONTROL DATA

DATE: 12/27/99

Leggette, Brashears & Graham
1210 W. County Rd. E Suite 700
St. Paul, MN 55112

Pace Project Number: 1028212
Client Project ID: DAYTON THERMAL PRODUCTS

Attn: Ms. Kristin Yahnke
Phone: (651)490-1405

QC Batch ID: 39933
Analysis Method: TO-14 Source
Associated Pace Samples: 101764793 101764801

QC Batch Method: TO-14 Source
Analysis Description: GC/MS VOCs, in Air

METHOD BLANK: 101770139
Associated Pace Samples:
101764793 101764801

Parameter	Units	Method Blank Result	PRL	Footnotes
Dichlorodifluoromethane	ppmv	ND	0.1	
Chloromethane	ppmv	ND	0.1	
Dichlorotetrafluoroethane-F114	ppmv	ND	0.1	
Vinyl Chloride	ppmv	ND	0.1	
Bromomethane	ppmv	ND	0.1	
Chloroethane	ppmv	ND	0.1	
Trichlorofluoromethane	ppmv	ND	0.1	
1,1-Dichloroethene	ppmv	ND	0.1	
1,1,2-Trichlorotrifluoroethane	ppmv	ND	0.1	
Methylene Chloride	ppmv	ND	0.1	
1,1-Dichloroethane	ppmv	ND	0.1	
cis-1,2-Dichloroethene	ppmv	ND	0.1	
Chloroform	ppmv	ND	0.1	
1,1,1-Trichloroethane	ppmv	ND	0.1	
1,2-Dichloroethane	ppmv	ND	0.1	
Benzene	ppmv	ND	0.1	
Carbon Tetrachloride	ppmv	ND	0.1	
1,2-Dichloropropane	ppmv	ND	0.1	
Trichloroethene	ppmv	ND	0.1	
cis-1,3-Dichloropropene	ppmv	ND	0.1	
trans-1,3-Dichloropropene	ppmv	ND	0.1	
Toluene	ppmv	ND	0.1	
1,1,2-Trichloroethane	ppmv	ND	0.1	
1,2-Dibromoethane	ppmv	ND	0.1	
Tetrachloroethene	ppmv	ND	0.1	

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

QUALITY CONTROL DATA

Pace Project Number: 1028212
Client Project ID: DAYTON THERMAL PRODUCTS

METHOD BLANK: 101770139
Associated Pace Samples:
101764793 101764801

Parameter	Units	Method Blank Result	PRL	Footnotes
Chlorobenzene	ppmv	ND	0.1	
Ethylbenzene	ppmv	ND	0.1	
M&P-Xylene	ppmv	ND	0.1	
O-Xylene (1,2-Dimethylbenzene)	ppmv	ND	0.1	
Styrene	ppmv	ND	1	
1,1,2,2-Tetrachloroethane	ppmv	ND	0.1	
1,3,5-Trimethylbenzene	ppmv	ND	0.1	
1,2,4-Trimethylbenzene	ppmv	ND	0.1	
1,3-Dichlorobenzene	ppmv	ND	0.1	
1,4-Dichlorobenzene	ppmv	ND	0.1	
1,2-Dichlorobenzene	ppmv	ND	0.1	
1,2,4-Trichlorobenzene	ppmv	ND	0.1	
Hexachlorobutadiene	ppmv	ND	0.1	

LABORATORY CONTROL SAMPLE: 101770121

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Dichlorodifluoromethane	ppmv	0.5000	0.5267	105	
Chloromethane	ppmv	0.4800	0.5334	111	
Dichlorotetrafluoroethane-F114	ppmv	0.5000	0.5628	113	
Vinyl Chloride	ppmv	0.5000	0.5586	112	
Bromomethane	ppmv	0.5000	0.5159	103	
Chloroethane	ppmv	0.5100	0.5121	100	
Trichlorofluoromethane	ppmv	0.5000	0.5280	106	
1,1-Dichloroethene	ppmv	0.4700	0.5070	108	
1,1,2-Trichlorotrifluoroethane	ppmv	0.5100	0.5540	109	
Methylene Chloride	ppmv	0.4800	0.5210	109	
1,1-Dichloroethane	ppmv	0.4800	0.4987	104	
cis-1,2-Dichloroethene	ppmv	0.5000	0.5174	103	
Chloroform	ppmv	0.4800	0.4943	103	
1,1,1-Trichloroethane	ppmv	0.4500	0.4678	104	
1,2-Dichloroethane	ppmv	0.4600	0.4552	98.9	
Benzene	ppmv	0.4500	0.4680	104	
Carbon Tetrachloride	ppmv	0.4700	0.4785	102	
1,2-Dichloropropane	ppmv	0.4300	0.4405	102	
Trichloroethene	ppmv	0.4600	0.4675	102	

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Pace Analytical

QUALITY CONTROL DATA

DATE: 12/27/99

Pace Project Number: 1028212
Client Project ID: DAYTON THERMAL PRODUCTS

LABORATORY CONTROL SAMPLE: 101770121

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
cis-1,3-Dichloropropene	ppmv	0.5300	0.5511	104	
trans-1,3-Dichloropropene	ppmv	0.5400	0.5571	103	
Toluene	ppmv	0.4800	0.4820	100	
1,1,2-Trichloroethane	ppmv	0.5000	0.4728	94.6	
1,2-Dibromoethane	ppmv	0.5200	0.5071	97.5	
Tetrachloroethene	ppmv	0.4800	0.4603	95.9	
Chlorobenzene	ppmv	0.4600	0.4372	95.0	
Ethylbenzene	ppmv	0.4800	0.4509	93.9	
M&P-Xylene	ppmv	0.9300	0.8625	92.7	
O-Xylene (1,2-Dimethylbenzene)	ppmv	0.4600	0.4130	89.8	
1,1,2,2-Tetrachloroethane	ppmv	0.5100	0.4137	81.1	
1,3,5-Trimethylbenzene	ppmv	0.5100	0.4502	88.3	
1,2,4-Trimethylbenzene	ppmv	0.4500	0.3950	87.8	
1,3-Dichlorobenzene	ppmv	0.2100	0.1778	84.7	
1,4-Dichlorobenzene	ppmv	0.4700	0.4280	91.1	
1,2-Dichlorobenzene	ppmv	0.4100	0.3478	84.8	
1,2,4-Trichlorobenzene	ppmv	0.3600	0.2166	60.2	1
Hexachlorobutadiene	ppmv	0.4200	0.3086	73.5	

SAMPLE DUPLICATE: 101770147

Parameter	Units	101764801	Dup. Result	RPD	Footnotes
Dichlorodifluoromethane	ppmv	ND	ND	NC	
Chloromethane	ppmv	ND	ND	NC	
Dichlorotetrafluoroethane-F114	ppmv	ND	ND	NC	
Vinyl Chloride	ppmv	ND	ND	NC	
Bromomethane	ppmv	ND	ND	NC	
Chloroethane	ppmv	ND	ND	NC	
Trichlorofluoromethane	ppmv	ND	ND	NC	
1,1-Dichloroethene	ppmv	ND	ND	NC	
1,1,2-Trichlorotrifluoroethane	ppmv	5.400	3.800	35	
Methylene Chloride	ppmv	ND	ND	NC	
1,1-Dichloroethane	ppmv	ND	ND	NC	
cis-1,2-Dichloroethene	ppmv	0.1300	ND	NC	
Chloroform	ppmv	ND	ND	NC	
1,1,1-Trichloroethane	ppmv	0.1400	ND	NC	
1,2-Dichloroethane	ppmv	ND	ND	NC	
Benzene	ppmv	ND	ND	NC	
Carbon Tetrachloride	ppmv	ND	ND	NC	

REPORT OF LABORATORY ANALYSIS

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Tel: 612-607-1700
Fax: 612-607-6444

QUALITY CONTROL DATA

Pace Project Number: 1028212
Client Project ID: DAYTON THERMAL PRODUCTS

SAMPLE DUPLICATE: 101770147

Parameter	Units	101764801	Dup. Result	RPD	Footnotes
1,2-Dichloropropane	ppmv	ND	ND	NC	
Trichloroethene	ppmv	0.5700	ND	NC	
cis-1,3-Dichloropropene	ppmv	ND	ND	NC	
trans-1,3-Dichloropropene	ppmv	ND	ND	NC	
Toluene	ppmv	ND	ND	NC	
1,1,2-Trichloroethane	ppmv	ND	ND	NC	
1,2-Dibromoethane	ppmv	ND	ND	NC	
Tetrachloroethene	ppmv	3.200	2.100	41	
Chlorobenzene	ppmv	ND	ND	NC	
Ethylbenzene	ppmv	ND	ND	NC	
M&P-Xylene	ppmv	ND	ND	NC	
O-Xylene (1,2-Dimethylbenzene)	ppmv	ND	ND	NC	
Styrene	ppmv	ND	ND	NC	
1,1;2,2-Tetrachloroethane	ppmv	ND	ND	NC	
1,3,5-Trimethylbenzene	ppmv	ND	ND	NC	
1,2,4-Trimethylbenzene	ppmv	ND	ND	NC	
1,3-Dichlorobenzene	ppmv	ND	ND	NC	
1,4-Dichlorobenzene	ppmv	ND	ND	NC	
1,2-Dichlorobenzene	ppmv	ND	ND	NC	
1,2,4-Trichlorobenzene	ppmv	ND	ND	NC	
Hexachlorobutadiene	ppmv	ND	ND	NC	

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Fax: 612-607-6444

Pace Project Number: 1028212
Client Project ID: DAYTON THERMAL PRODUCTS

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
RPD	Relative Percent Difference
[1]	Spiked sample recovery is not within control limits.

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COC No. A 12841

109 Starlite Park
Marietta, OH 45750

KEMRON
ENVIRONMENTAL SERVICES
CHAIN-OF-CUSTODY RECORD

102812

Phone: 740-373-4071
Fax: 740-373-4835

Company Name: Leggette, Brashears & Graham, Inc.

Project Contact: Kristin Vahnke

Contact Phone #: (651) 490-1405 ext. 218

Turn Around Requirements:

Location: Dayton, OH

Project #: 3CHRY4/DAYTON

Project Name: DAYTON THERMAL PRODUCTS

Sampler (print): Kristin Vahnke

Signature: Kristin Vahnke

Program: ☐ NPDES ☐ AFCEE ☐ RCRA ☐ USAGE ☐ Other

Sample I.D. No.	Comp*	Grab	Date	Time	Protocol CWA	Protocol SW846	NUMBER OF CONTAINERS	Hold	TO-14 LIST			ADDITIONAL REQUIREMENTS
SVE SYS EFF		X	12/15/99	1500			1			CANISTER 013	1764793	Call to discuss required list
CATOX EFF		X	12/15/99	1502			1			CANISTER 002	1764801	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Kristin Vahnke	12/15/99	1527	[illegible]		12/30/99	1000	

Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Cooler Temp in °C	Remarks:

*Homogenize all composite samples prior to analysis

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Electronic Data Deliverables

FEB 1 2000

10160 - DaimlerChrysler Corporation

SDG: DCD07 Dayton Thermal/Dayton, OH

Sample Reference List for EDD File C3307210.TXT

Laboratory Sample No.	Sample Description		Collected
3307210	CATOX-CP4 Grab Summa Cannister #93	Site Code: SC001 RFA#: YGQP2000202	01/13/00 11:42
3307211	SVE-S4 Grab Summa Cannister #68	Site Code: SC001 RFA#: YGQP2000202	01/13/00 11:47

10160 3307210-11

DAIMLERCHRYSLER — Chain-of-Custody

0070 B

Lancaster Laboratories	Project Name: DaimlerChrysler DTP	Consultant: LBG	
2425 New Holland Pike	Site Location: Dayton, Ohio	Address: 1210 W County Rd E	
Lancaster, PA 17601	Site Code: SC001	ST. PAUL MN 55112	
Phone Number: (717) 656-2300	RFA Number: ~~none yet~~ YGQP2000202	Consultant PM Ken Vogel	
Fax Number: (717) 656-2681	DaimlerChrysler PM: Gary Stanczuk	Phone: 651-490-1405	Fax: 651-490-1006

Turn-around Time Request: (circle)
- 24 calendar hrs.
- 48 calendar hrs.
- (7 calendar days)
- 14 calendar days

Data Package Deliverables: (circle)
- (DaimlerChrysler Level 1)
- DaimlerChrysler Level 2
- CLP

Matrix Codes
S - Soil; SW - Surface Water; GW - Groundwater; A - Air; Sed. - Sediment; O - Other (specify) _____

Are aqueous samples field filtered for metals? Yes No

FEB 11 2000

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOCs - TO14								Remarks
CATOX-CP4	1-13-00	11:42	G	A	1	X								Cannister # 93
SVE-S4	1-13-00	11:47	G	A	1	X								Cannister # 68

Sampler(s): Cindy Edgington	Cooler ID #			Samples Relinquished under Airbill No. 816226734894			Temperature (corrected) 0 C Air
	Relinquished by: M. Klinefelter	Date: 1/12/00	Time: 16:30	Received by: C. Edgington	Date: 1-13-00	Time: 10am	Custody Seal Intact? Yes No
Is RFA sampling complete? Yes No	Relinquished by: C. Edgington	Date: 1-13-00	Time: 13:00	Received for Laboratory by: [illegible]	Date: 1/14/00	Time: 0850	Custody Seal Intact? Yes (No) N/A

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Revision No. 3
Created: July 9, 1999

FEB

Lancaster Laboratories
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LLI Sample No. AQ 3307211
Collected: 01/13/00 at 11:47 by CE

Submitted: 01/14/00 Reported: 01/17/00

Account No: 10160

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP2000202

SVE-S4 Grab Summa Cannister #68
Site Code: SC001 RFA#: YGQP2000202
Dayton Thermal/Dayton, OH
SVES4 SDG#: DCD07-02*

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS
5695	TO-14 Form 1		See Page 2	
7199	TO 14 VOA Standard List	see form I		
7200	TO 14 VOA Standard List cont.	see form I		

1 COPY TO Leggette, Brashears & Graham ATTN: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300
14:18:40 D 0001 2 140218 699235
320 0.00 00046000 DIS000

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

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

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VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVES4 | Date Collected: 01/13/00 | Date Received: 01/14/00
Lab Sample ID: 3307211 | Date Analyzed: 01/14/00 | Time Analyzed: 22:45
Canister ID: SUMMA0068 | Pressure Rec'd: 14.2 psia | Final Pressure: 28.4 psia
Injection Volume: 100 cc | Nominal Volume: 250 cc | Dilution Factor: 5.0
Instrument ID: HP4508 | Lab File ID: C:\HPCHEM\1\DATA\JAN14\1201013.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
75-71-8	Dichlorodifluoromethane	5	U
76-14-2	Freon 114	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	620	D
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	120	D
76-13-1	Freon 113	3600	D
107-05-1	3-Chloropropene	5	U
75-09-2	Methylene Chloride	5	U
75-34-3	1,1-Dichloroethane	370	D
156-59-2	cis-1,2-Dichloroethene	1300	D
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	1200	D
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	3100	D
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	6	D
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	4000	D
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	m/p-Xylene	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
622-96-8	4-Ethyltoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
NOTE: Limits of quantitation were raised due to the high concentration of volatile organic compounds in this sample.

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

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VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVES4 Date Collected: 01/13/00 Date Received: 01/14/00
Lab Sample ID: 3307211 Date Analyzed: 01/14/00 Time Analyzed: 22:45
Canister ID: SUMMA0068 Pressure Rec'd: 14.2 psia Final Pressure: 28.4 psia
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4508 Lab File ID: C:\HPCHEM\1\DATA\JAN14\1201013.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
95-63-6	1,2,4-Trimethylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
100-44-7	Benzyl chloride	5	U
95-50-1	1,2-Dichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
NOTE: Limits of quantitation were raised due to the high concentration of volatile organic compounds in this sample.

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

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

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&&&

Analysis Repo

LABORATORY CHRONICLE

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LLI Sample No. AQ 3307211
Collected: 01/13/00 at 11:47 by CE

Submitted: 01/14/00

Account No: 10160
DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SVE-S4 Grab Summa Cannister #68
Site Code: SC001 RFA#: YGQP2000202
Dayton Thermal/Dayton, OH
SVES4 SDG#: DCD07-02*

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
7199	TO 14 VOA Standard List	EPA Method TO14	1		01/14/00 2245	George M. Main, Jr.
7200	TO 14 VOA Standard List cont.	EPA Method TO14	1		01/14/00 2245	George M. Main, Jr.

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LLI Sample No. 3307211
SVE-S4 Grab Summa Cannister #68
Site Code: SC001 RFA#: YGQP2000202
Dayton Thermal/Dayton, OH

Group No. 699235
DaimlerChrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
7199 TO 14 VOA Standard List		Batch: B000141AC									
7202 Dichlorodifluoromethane											
1.0	ppbv	N.D.									
7204 Freon 114											
1.0	ppbv	N.D.									
7205 Chloromethane											
1.0	ppbv	N.D.									
7206 Vinyl Chloride											
10.	ppbv	N.D.					59			45	171
7208 Bromomethane											
1.0	ppbv	N.D.									
7209 Chloroethane											
1.0	ppbv	N.D.									
7212 Trichlorofluoromethane											
1.0	ppbv	N.D.									
7215 1,1-Dichloroethene											
1.0	ppbv	N.D.									
7216 Freon 113											
25.	ppbv	N.D.									
7221 3-Chloropropene											
1.0	ppbv	N.D.									
7222 Methylene Chloride											
2.0	ppbv	N.D.									
7227 1,1-Dichloroethane											
1.0	ppbv	N.D.									
7230 cis-1,2-Dichloroethene											
10.	ppbv	N.D.									
7234 Chloroform											
1.0	ppbv	N.D.									
7235 1,1,1-Trichloroethane											
10.	ppbv	N.D.					119			47	173
7236 Carbon Tetrachloride											
1.0	ppbv	N.D.									
7237 1,2-Dichloroethane											
1.0	ppbv	N.D.									
7238 Benzene											
1.0	ppbv	N.D.					154			53	163
2076 Tertiary butyl alcohol											
1.0	ppbv										
7200 TO 14 VOA Standard List cont.		Batch: B000141AC									
7241 Trichloroethene											
10.	ppbv	N.D.					116			48	166
7243 1,2-Dichloropropane											
1.0	ppbv	N.D.									
7248 cis-1,3-Dichloropropene											
1.0	ppbv	N.D.									

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3307211
SVE-S4 Grab Summa Cannister #68
Site Code: SC001 RFA#: YGQP2000202
Dayton Thermal/Dayton, OH

Group No. 699235
DaimlerChrysler Corporation

	SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
7250 Toluene	1.0	ppbv	N.D.									
7252 trans-1,3-Dichloropropene	1.0	ppbv	N.D.									
7254 1,1,2-Trichloroethane	1.0	ppbv	N.D.									
7255 Tetrachloroethene	10.	ppbv	N.D.									
7258 1,2-Dibromoethane	1.0	ppbv	N.D.									
7259 Chlorobenzene	1.0	ppbv	N.D.									
7261 Ethylbenzene	1.0	ppbv	N.D.					117			44	174
7262 m/p-Xylene	1.0	ppbv	N.D.									
7263 o-Xylene	1.0	ppbv	N.D.									
7264 Styrene	1.0	ppbv	N.D.									
7267 1,1,2,2-Tetrachloroethane	1.0	ppbv	N.D.									
7270 4-Ethyltoluene	1.0	ppbv	N.D.									
7271 1,3,5-Trimethylbenzene	1.0	ppbv	N.D.									
7273 1,2,4-Trimethylbenzene	1.0	ppbv	N.D.									
7274 1,3-Dichlorobenzene	2.0	ppbv	N.D.									
7275 1,4-Dichlorobenzene	2.0	ppbv	N.D.					79			35	138
7276 Benzyl chloride	1.0	ppbv	N.D.									
7277 1,2-Dichlorobenzene	2.0	ppbv	N.D.									
7279 1,2,4-Trichlorobenzene	5.0	ppbv	N.D.									
7280 Hexachlorobutadiene	2.0	ppbv	N.D.									

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: A03307210 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 01/14/00 Date Reported: NOT REP
Date Collected: 01/13/00

CATOX-CP4 Grab Summa Cannister #93
Site Code: SC001 RFA#: YGOP2000202
Dayton Thermal/Dayton, OH

	ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS
5695	TO-14 Form 1			attached
7199	TO 14 VOA Extended List			
7202	Dichlorodifluoromethane	2.0	0.20	ppbv
7204	Freon 114	N.D.	0.20	ppbv
7205	Chloromethane	31.	0.20	ppbv
7206	Vinyl Chloride	54.	0.20	ppbv
7208	Bromomethane	N.D.	0.20	ppbv
7209	Chloroethane	N.D.	0.20	ppbv
7212	Trichlorofluoromethane	N.D.	0.20	ppbv
7215	1,1-Dichloroethene	22.	0.20	ppbv
7216	Freon 113	2,600.	25.	ppbv
7221	3-Chloropropene	N.D.	0.20	ppbv
7222	Methylene Chloride	N.D.	0.50	ppbv
7227	1,1-Dichloroethane	31.	0.20	ppbv
7230	cis-1,2-Dichloroethene	130.	1.0	ppbv
7234	Chloroform	N.D.	0.20	ppbv
7235	1,1,1-Trichloroethane	74.	0.20	ppbv
7236	Carbon Tetrachloride	N.D.	0.20	ppbv
7237	1,2-Dichloroethane	N.D.	0.20	ppbv
7238	Benzene	5.0	0.20	ppbv
2076	Tertiary butyl alcohol	N.D.	0.20	ppbv

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7200	TO 14 VOA Extended List cont.			
7241	Trichloroethene	310.	1.0	ppbv
7243	1,2-Dichloropropane	N.D.	0.20	ppbv
7248	cis-1,3-Dichloropropene	N.D.	0.20	ppbv
7250	Toluene	3.0	0.20	ppbv
7252	trans-1,3-Dichloropropene	N.D.	0.20	ppbv
7254	1,1,2-Trichloroethane	N.D.	0.20	ppbv
7255	Tetrachloroethene	1,600.	10.	ppbv
7258	1,2-Dibromoethane	N.D.	0.20	ppbv
7259	Chlorobenzene	N.D.	0.20	ppbv
7261	Ethylbenzene	1.0	0.20	ppbv

7262	m/p-Xylene	N.D.	0.20	ppbv

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: A033072.10 Account: 10160 DAIMLERCHRYSLER CORPORATION

7263	o-Xylene	1.0	0.20	ppbv
7264	Styrene	N.D.	0.20	ppbv
7267	1,1,2,2-Tetrachloroethane	N.D.	0.20	ppbv
7270	4-Ethyltoluene	N.D.	0.20	ppbv
7271	1,3,5-Trimethylbenzene	N.D.	0.20	ppbv
7273	1,2,4-Trimethylbenzene	2.0	0.20	ppbv
7274	1,3-Dichlorobenzene	N.D.	0.50	ppbv
7275	1,4-Dichlorobenzene	N.D.	0.50	ppbv
7276	Benzyl chloride	N.D.	0.20	ppbv
7277	1,2-Dichlorobenzene	N.D.	0.50	ppbv
7279	1,2,4-Trichlorobenzene	N.D.	1.0	ppbv
7280	Hexachlorobutadiene	N.D.	0.50	ppbv

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VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: CACP4 Date Collected: 01/13/00 Date Received: 01/14/00
Lab Sample ID: 3307210 Date Analyzed: 01/14/00 Time Analyzed: 21:09
Canister ID: SUMMA0093 Pressure Rec'd: 14.4 psia Final Pressure: 28.8 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4508 Lab File ID: C:\HPCHEM\1\DATA\JAN14\1001011.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
75-71-8	Dichlorodifluoromethane	2	
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	31	
75-01-4	Vinyl Chloride	54	
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	22	
76-13-1	Freon 113	2600	D
107-05-1	3-Chloropropene	1	U
75-09-2	Methylene Chloride	1	U
75-34-3	1,1-Dichloroethane	31	
156-59-2	cis-1,2-Dichloroethene	130	D
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	74	
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	5	
79-01-6	Trichloroethene	310	D
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-88-3	Toluene	3	

10061-02-6	trans-1,3-Dichloropropene	1	U

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: AQ3307210 Account: 10160 DAIMLERCHRYSLER CORPORATION

79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1600	D
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	
1330-20-7	m/p-Xylene	1	U
95-47-6	o-Xylene	1	
100-42-5	Styrene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
622-96-8	4-Ethyltoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: A03307210 Account: 10160 DAIMLERCHRYSLER CORPORATION

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: CACP4 Date Collected: 01/13/00 Date Received: 01/14/00
Lab Sample ID: 3307210 Date Analyzed: 01/14/00 Time Analyzed: 21:09
Canister ID: SUMMA0093 Pressure Rec'd: 14.4 psia Final Pressure: 28.8 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4508 Lab File ID: C:\HPCHEM\1\DATA\JAN14\1001011.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
95-63-6	1,2,4-Trimethylbenzene	2	
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
100-44-7	Benzyl chloride	1	U
95-50-1	1,2-Dichlorobenzene	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.

Sample Number: A03307211 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 01/14/00 Date Reported: NOT REP
Date Collected: 01/13/00

SVE-S4 Grab Summa Canister #68
Site Code: SC001 REA#: YGOP2000202
Dayton Thermal/Dayton, OH

	ANALYSIS NAME	RESULT	METHOD DETECTION LIMIT	UNITS
5695	TO-14 Form 1			attached
7199	TO 14 VOA Extended List			
7202	Dichlorodifluoromethane	N.D.	1.0	ppbv
7204	Freon 114	N.D.	1.0	ppbv
7205	Chloromethane	N.D.	1.0	ppbv
7206	Vinyl Chloride	620.	10.	ppbv
7208	Bromomethane	N.D.	1.0	ppbv
7209	Chloroethane	N.D.	1.0	ppbv
7212	Trichlorofluoromethane	N.D.	1.0	ppbv
7215	1,1-Dichloroethene	120.	1.0	ppbv

7216	Freon 113	3,600.	25.	ppbv

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: A03307211 Account: 10160 DAIMLERCHRYSLER CORPORATION

7221	3-Chloropropene	N.D.	1.0	ppbv
7222	Methylene Chloride	N.D.	2.0	ppbv
7227	1,1-Dichloroethane	370.	1.0	ppbv
7230	cis-1,2-Dichloroethene	1,300.	10.	ppbv
7234	Chloroform	N.D.	1.0	ppbv
7235	1,1,1-Trichloroethane	1,200.	10.	ppbv
7236	Carbon Tetrachloride	N.D.	1.0	ppbv
7237	1,2-Dichloroethane	N.D.	1.0	ppbv
7238	Benzene	N.D.	1.0	ppbv
2076	Tertiary butyl alcohol	N.D.	1.0	ppbv

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7200	TO 14 VOA Extended List cont.			
7241	Trichloroethene	3,100.	10.	ppbv
7243	1,2-Dichloropropane	N.D.	1.0	ppbv
7248	cis-1,3-Dichloropropene	N.D.	1.0	ppbv
7250	Toluene	6.0	1.0	ppbv
7252	trans-1,3-Dichloropropene	N.D.	1.0	ppbv
7254	1,1,2-Trichloroethane	N.D.	1.0	ppbv
7255	Tetrachloroethene	4,000.	10.	ppbv
7258	1,2-Dibromoethane	N.D.	1.0	ppbv
7259	Chlorobenzene	N.D.	1.0	ppbv
7261	Ethylbenzene	N.D.	1.0	ppbv
7262	m/p-Xylene	N.D.	1.0	ppbv
7263	o-Xylene	N.D.	1.0	ppbv
7264	Styrene	N.D.	1.0	ppbv
7267	1,1,2,2-Tetrachloroethane	N.D.	1.0	ppbv
7270	4-Ethyltoluene	N.D.	1.0	ppbv
7271	1,3,5-Trimethylbenzene	N.D.	1.0	ppbv
7273	1,2,4-Trimethylbenzene	N.D.	1.0	ppbv
7274	1,3-Dichlorobenzene	N.D.	2.0	ppbv
7275	1,4-Dichlorobenzene	N.D.	2.0	ppbv
7276	Benzyl chloride	N.D.	1.0	ppbv
7277	1,2-Dichlorobenzene	N.D.	2.0	ppbv
7279	1,2,4-Trichlorobenzene	N.D.	5.0	ppbv
7280	Hexachlorobutadiene	N.D.	2.0	ppbv

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VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVES4 Date Collected: 01/13/00 Date Received: 01/14/00
Lab Sample ID: 3307211 Date Analyzed: 01/14/00 Time Analyzed: 22:45
Canister ID: SUMMA0068 Pressure Rec'd: 14.2 psia Final Pressure: 28.4 psia
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4508 Lab File ID: C:\HPCHEM\1\DATA\JAN14\1201013.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: A03307211 Account: 10160 DAIMLERCHRYSLER CORPORATION

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
75-71-8	Dichlorodifluoromethane	5	U
76-14-2	Freon 114	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	620	D
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	120	D
76-13-1	Freon 113	3600	D
107-05-1	3-Chloropropene	5	U
75-09-2	Methylene Chloride	5	U
75-34-3	1,1-Dichloroethane	370	D
156-59-2	cis-1,2-Dichloroethene	1300	D
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	1200	D
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	3100	D
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	6	D
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	4000	D
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	m/p-Xylene	5	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
622-96-8	4-Ethyltoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
NOTE: Limits of quantitation were raised due to the high concentration of volatile organic compounds in this sample.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: A03307211 Account: 10160 DAIMLERCHRYSLER CORPORATION

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVES4 Date Collected: 01/13/00 Date Received: 01/14/00
Lab Sample ID: 3307211 Date Analyzed: 01/14/00 Time Analyzed: 22:45
Canister ID: SUMMA0068 Pressure Rec'd: 14.2 psia Final Pressure: 28.4 psia
Injection Volume: 100 cc Nominal Volume: 250 cc Dilution Factor: 5.0
Instrument ID: HP4508 Lab File ID: C:\HPCHEM\1\DATA\JAN14\1201013.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
95-63-6	1,2,4-Trimethylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
100-44-7	Benzyl chloride	5	U
95-50-1	1,2-Dichlorobenzene	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
NOTE: Limits of quantitation were raised due to the high concentration of volatile organic compounds in this sample.

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

FACSIMILE TRANSMITTAL

8251 Main Street Northeast
Minneapolis, Minnesota 55432
(612) 780-9787
Fax (612) 780-7157

Fax Number: (651) 490-1006

Total Pages: 4

Date: 10/21/99

Company: LBG, Inc.

Attention: Kristan Yahnke

From: B. Joseph Nasser

Subject: Results

Message:

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

DRAFT

Report Date: 21-Oct-99

Analytical Report No: 99-229

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112
Attention: Kristin Yahnke
Project Name: Dayton Thermal Products
Sample collection/analysis date: 10/12/99-10/20/99

Sample I.D.:	SVE-EFF	CATOX-EFF
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	1.0 µg/L
Total VOC's by GC-PID/ELCD/FID		
(F12) Dichlorodifluoromethane	NR	NR
Chloromethane	NR	NR
Vinyl Chloride	ND	ND
Bromomethane	NR	NR
Chloroethane	NR	NR
(F21) Dichlorofluoromethane	NR	NR
(F11) Trichlorofluoromethane	NR	NR
Ethyl Ether	NR	NR
1,1- Dichloroethene	1.6	ND
(F13) Trichlorotrifluoroethane	NR	NR
Acetone	NR	NR
Allyl Chloride	NR	NR
Methylene Chloride	NR	NR
trans-1,2-Dichloroethene	NR	NR
Methyl tert-butyl ether	NR	NR
1,1-Dichloroethane	ND	ND
2,2-Dichloropropane	NR	NR
cis-1,2-Dichloroethene	2.8	ND
Methyl Ethyl Ketone	NR	NR
Bromochloromethane	NR	NR
Tetrahydrofuran	NR	NR
Chloroform	NR	NR
1,1,1-Trichloroethane	5.8	ND
1,1-Dichloropropene	NR	NR
Carbon tetrachloride	NR	NR
Benzene	NR	NR
1,2-Dichloroethane	NR	NR
Trichloroethene	26	1.1
1,2-Dichloropropane	NR	NR
Dibromomethane	NR	NR
Bromodichloromethane	NR	NR
cis-1,3-Dichloropropene	NR	NR
Methyl Isobutyl Ketone	NR	NR
Toluene	NR	NR
trans-1,3-Dichloropropene	NR	NR
1,1,2-Trichloroethane	NR	NR
Tetrachloroethene	24	3.8
1,3-Dichloropropane	NR	NR

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

DRAFT

Report Date: 21-Oct-99

Analytical Report No: 99-229

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112
Attention: Kristin Yahnke
Project Name: Dayton Thermal Products
Sample collection/analysis date: 10/12/99-10/20/99

Sample I.D.:	SVE-EFF	CATOX-EFF
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	1.0 µg/L
Total VOC's by GC-PID/ELCD/FID (continued)		
Dibromochloromethane	NR	NR
1,2-Dibromoethane	NR	NR
Chlorobenzene	NR	NR
1,1,1,2-Tetrachloroethane	NR	NR
Ethylbenzene	NR	NR
Xylenes	NR	NR
Styrene	NR	NR
Bromoform	NR	NR
Isopropylbenzene	NR	NR
Bromobenzene	NR	NR
1,1,2,2-Tetrachloroethane	NR	NR
1,2,3-Trichloropropane	NR	NR
n-Propylbenzene	NR	NR
2-Chlorotoluene	NR	NR
1,3,5-Trimethylbenzene	NR	NR
4-Chlorotoluene	NR	NR
tert-Butylbenzene	NR	NR
1,2,4-Trimethylbenzene	NR	NR
sec-Butylbenzene	NR	NR
1,3-Dichlorobenzene	NR	NR
p-Isopropyltoluene	NR	NR
1,4-Dichlorobenzene	NR	NR
1,2-Dichlorobenzene	NR	NR
n-Butylbenzene	NR	NR
1,2-Dibromo-3-chloropropane	NR	NR
1,2,4-Trichlorobenzene	NR	NR
Hexachlorobutadiene	NR	NR
Naphthalene	NR	NR
1,2,3-Trichlorobenzene	NR	NR

Analysis by GC-PID/ELCD/FID (EPA Method 18)
NR = analyte not requested
ND = not detected

Approved by,

Bruce J. Nasser
Analytical Services

Approved by,

David J. Yalch
Analytical Services

651 490 1405 ext. 218

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

CHAIN OF CUSTODY RECORD

Record Number: 1061 99124

Client Name: Leggette, Brashears & Graham, Inc.	Project Title: PAYTON THERMAL PRODUCTS
Address: 1210 West Co. Rd E, Ste 700	Project Number: 3CHRY410AYTON
City, State Zip: St. Paul MN	Contact: KRISTIN YAHNKE

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	CATOX EFF TUBE1	Tube 1	Solid	10/15/99	1
2	CATOX EFF TUBE2	Tube 2	Solid	10/15/99	1
3	SCRUBBER EFF TUBE1	Tube 1	Solid	10/15/99	1
4	SCRUBBER EFF TUBE 2	Tube 2	Solid	10/15/99	1
5	SVE EFF	Summa	Air	10/12/99	1
6	SVE EFF	Summa	Air	10/15/99	1
7	CATOX EFF	Summa	Air	10/15/99	1
8					
9					
10					

Samples Collected by: KSY	Delivered by:	Date Delivered:

Destination:	Send Original Report To:	Send Copy Report To:
Contact:	KRISTIN YAHNKE, LBG	
Date Due:		
Analysis Cost:	NA	NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
HCl	ppmv	X	X	X	X						
8015/8020						X	X	X			
Complete											
list -											
Call w/ ??											

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1	Kristin S. Yahnke	[illegible]	10/15/99	
		PE	1413	

White - Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: KSY	Date Completed: 10/15/99	Present on Site: Yes

Analysis Report

Lancaster Laboratories
Where quality is a science.

FEB - 1 2001

Sample Reprint

ANALYTICAL RESULTS

Prepared for:

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 743499. Samples arrived at the laboratory on Thursday, December 14, 2000. The PO# for this group is N99C403749-B and the release number is YGQP2000260.

Client Description	Lancaster Labs Number
SVE_EFF Summa Canister #0188	3520002

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Leggette, Brashears & Graham Attn: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Gwen A. Birchall at (717) 656-2300.

Respectfully Submitted,

Robert E. Mellinger
Sr Chemist/Coordinator

Lancaster Laboratories
Where quality is a science.

REPRINT

Lancaster Laboratories Sample No. AQ 3520002

Collected:12/13/2000 15:55 by KY

Account Number: 10160

Submitted: 12/14/2000 09:30
Reported: 01/31/01 at 11:41 AM
Discard: 4/2/01
SVE_EFF Summa Canister #0188
Site Code: SC001 RFA#: YGQP2000260
Dayton Thermal/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SVEFF SDG#: DCH39-01*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07199	TO 14 VOA Extended List	EPA Method TO14	1	12/20/2000 21:47	Matthew S. Thomas	333
07199	TO 14 VOA Extended List	EPA Method TO14	1	12/20/2000 22:30	Matthew S. Thomas	50
07200	TO 14 VOA Extended List cont.	EPA Method TO14	1	12/20/2000 21:47	Matthew S. Thomas	333
07200	TO 14 VOA Extended List cont.	EPA Method TO14	1	12/20/2000 22:30	Matthew S. Thomas	50

Lancaster Laboratories
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REPRINT

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: SVEFF Date Collected: 12/13/00 Date Received: 12/14/00
Lab Sample ID: 3520002 Date Analyzed: 12/20/00 Time Analyzed: 22:30
Canister ID: SUMMA0188 Pressure Rec'd: 14.4 psia Final Pressure: 28.8 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 50.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\DEC20\1401014.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
	Unknown	7.62	240	J D
	Unknown	8.64	180	J D
354-23-4	Ethane, 1,2-dichloro-1,1,2-tri	10.43	7900	J D
	Unknown aliphatic hydrocarbon,	23.66	130	J D
	Unknown siloxane	24.41	88	J D
	Unknown aliphatic hydrocarbon,	24.60	69	J D
	Unknown aliphatic hydrocarbon,	26.16	79	J D
	Unknown aliphatic hydrocarbon,	27.36	66	J D
	Unknown aliphatic hydrocarbon,	27.81	59	J D
	Unknown	31.61	50	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

Lancaster Laboratories
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REPRINT

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVEFF
Lab Sample ID: 3520002
Canister ID: SUMMA0188
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 12/13/00
Date Analyzed: 12/20/00
Pressure Rec'd: 14.4 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\DEC20\1401014.D

Date Received: 12/14/00
Time Analyzed: 22:30
Final Pressure: 28.8 psia
Dilution Factor: 50.0

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
115-07-1	Propene	40	B J D
75-71-8	Dichlorodifluoromethane	18	J D
75-45-6	Chlorodifluoromethane	50	U
76-14-2	Freon 114	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	1500	D
106-99-0	1,3-Butadiene	50	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-43-4	Dichlorofluoromethane	10	U
75-69-4	Trichlorofluoromethane	10	U
109-66-0	Pentane	10	U
107-02-8	Acrolein	25	U
75-35-4	1,1-Dichloroethene	240	D
76-13-1	Freon 113	10000	D
67-64-1	Acetone	50	U
74-88-4	Methyl Iodide	10	U
75-15-0	Carbon Disulfide	25	U
75-05-8	Acetonitrile	25	U
107-05-1	3-Chloropropene	25	U
75-09-2	Methylene Chloride	25	U
75-65-0	tert-Butyl Alcohol	10	U
107-13-1	Acrylonitrile	25	U
156-60-5	trans-1,2-Dichloroethene	240	D
1634-04-4	Methyl t-Butyl Ether	10	U
110-54-3	Hexane	10	U
75-34-3	1,1-Dichloroethane	2100	D
108-05-4	Vinyl Acetate	10	U
156-59-2	cis-1,2-Dichloroethene	7800	D
78-93-3	2-Butanone	25	U
141-78-6	Ethyl Acetate	10	U
96-33-3	Methyl Acrylate	10	U
67-66-3	Chloroform	11	J D
71-55-6	1,1,1-Trichloroethane	1700	D

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

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REPRINT

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVEFF
Lab Sample ID: 3520002
Canister ID: SUMMA0188
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 12/13/00
Date Analyzed: 12/20/00
Pressure Rec'd: 14.4 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\DEC20\1401014.D

Date Received: 12/14/00
Time Analyzed: 22:30
Final Pressure: 28.8 psia
Dilution Factor: 50.0

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
56-23-5	Carbon Tetrachloride	10	U
107-06-2	1,2-Dichloroethane	10	U
71-43-2	Benzene	24	J D
540-84-1	Isooctane	22	J D
142-82-5	Heptane	10	U
79-01-6	Trichloroethene	5800	D
140-88-5	Ethyl Acrylate	10	U
78-87-5	1,2-Dichloropropane	10	U
80-62-6	Methyl Methacrylate	10	U
74-95-3	Dibromomethane	10	U
123-91-1	1,4-Dioxane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	25	U
108-88-3	Toluene	10	J D
111-65-9	Octane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
97-63-2	Ethyl Methacrylate	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	6700	D
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m/p-Xylene	25	J D
95-47-6	o-Xylene	10	J D
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Cumene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
108-86-1	Bromobenzene	10	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

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

Lancaster Laboratories
Where quality is a science.

REPRINT

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVEFF
Lab Sample ID: 3520002
Canister ID: SUMMA0188
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 12/13/00
Date Analyzed: 12/20/00
Pressure Rec'd: 14.4 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\DEC20\1401014.D

Date Received: 12/14/00
Time Analyzed: 22:30
Final Pressure: 28.8 psia
Dilution Factor: 50.0

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
622-96-8	4-Ethyltoluene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
98-83-9	Alpha Methyl Styrene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
100-44-7	Benzyl chloride	10	U
95-50-1	1,2-Dichlorobenzene	25	U
67-72-1	Hexachloroethane	10	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	25	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

FEB -1

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Electronic Data Deliverables

10160 - DaimlerChrysler Corporation

SDG: DCH39 Dayton Thermal/Dayton, OH

Sample Reference List for EDD File C3520002.TXT

Laboratory Sample No.	Sample Description		Collected
3520002	SVE_EFF Summa Canister #0188	Site Code: SC001 RFA#: YGQP2000260	12/13/00 15:55

Lancaster Laboratories
Where Quality is a Science

JAN - 9 2001

Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 12/26/00 at 04:04 PM

Group Number: 743499

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A003561AA	Sample number(s): 3520002							
Tertiary butyl alcohol	N.D.	.2	ppbv					
Propene	N.D.	.2	ppbv					
Dichlorodifluoromethane	N.D.	.2	ppbv					
Chlorodifluoromethane	N.D.	1.	ppbv					
Freon 114	N.D.	.2	ppbv					
Chloromethane	N.D.	.2	ppbv					
Vinyl Chloride	N.D.	.2	ppbv	97		42-168		
1,3-Butadiene	N.D.	1.	ppbv					
Bromomethane	N.D.	.2	ppbv					
Chloroethane	N.D.	.2	ppbv					
Dichlorofluoromethane	N.D.	.2	ppbv					
Trichlorofluoromethane	N.D.	.2	ppbv					
Pentane	N.D.	.2	ppbv					
Acrolein	N.D.	.5	ppbv					
1,1-Dichloroethene	N.D.	.2	ppbv					
Freon 113	N.D.	.5	ppbv					
Acetone	N.D.	1.	ppbv					
Methyl Iodide	N.D.	.2	ppbv					
Carbon Disulfide	N.D.	.5	ppbv					
Acetonitrile	N.D.	.5	ppbv					
3-Chloropropene	N.D.	.2	ppbv					
Methylene Chloride	N.D.	.5	ppbv					
Acrylonitrile	N.D.	.5	ppbv					
trans-1,2-Dichloroethene	N.D.	.2	ppbv					
Methyl t-Butyl Ether	N.D.	.2	ppbv					
Hexane	N.D.	.2	ppbv					
1,1-Dichloroethane	N.D.	.2	ppbv					
Vinyl Acetate	N.D.	.2	ppbv					
cis-1,2-Dichloroethene	N.D.	.2	ppbv					
2-Butanone	N.D.	.5	ppbv					
Ethyl Acetate	N.D.	.2	ppbv					
Methyl Acrylate	N.D.	.2	ppbv					
Chloroform	N.D.	.2	ppbv					
1,1,1-Trichloroethane	N.D.	.2	ppbv	105		62-182		
Carbon Tetrachloride	N.D.	.2	ppbv					
1,2-Dichloroethane	N.D.	.2	ppbv					
Benzene	N.D.	.2	ppbv	98		58-174		
Isooctane	N.D.	.2	ppbv					
Heptane	N.D.	.2	ppbv					
Trichloroethene	N.D.	.2	ppbv	86		56-157		
Ethyl Acrylate	N.D.	.2	ppbv					
1,2-Dichloropropane	N.D.	.2	ppbv					
Methyl Methacrylate	N.D.	.2	ppbv					
Dibromomethane	N.D.	.2	ppbv					
1,4-Dioxane	N.D.	.2	ppbv					
Bromodichloromethane	N.D.	.2	ppbv					
cis-1,3-Dichloropropene	N.D.	.2	ppbv					

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

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

Lancaster Laboratories
Where quality is a science

Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 12/26/00 at 04:04 PM

Group Number: 743499

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methyl-2-Pentanone	N.D.	.5	ppbv					
Toluene	N.D.	.2	ppbv					
Octane	N.D.	.2	ppbv					
trans-1,3-Dichloropropene	N.D.	.2	ppbv					
Ethyl Methacrylate	N.D.	.2	ppbv					
1,1,2-Trichloroethane	N.D.	.2	ppbv					
Tetrachloroethene	N.D.	.2	ppbv					
2-Hexanone	N.D.	.5	ppbv					
Dibromochloromethane	N.D.	.2	ppbv					
1,2-Dibromoethane	N.D.	.2	ppbv					
Chlorobenzene	N.D.	.2	ppbv					
1,1,1,2-Tetrachloroethane	N.D.	.2	ppbv					
Ethylbenzene	N.D.	.2	ppbv	101		61-171		
m/p-Xylene	N.D.	.2	ppbv					
o-Xylene	N.D.	.2	ppbv					
Styrene	N.D.	.2	ppbv					
Bromoform	N.D.	.2	ppbv					
Cumene	N.D.	.2	ppbv					
1,1,2,2-Tetrachloroethane	N.D.	.2	ppbv					
1,2,3-Trichloropropane	N.D.	.2	ppbv					
Bromobenzene	N.D.	.2	ppbv					
4-Ethyltoluene	N.D.	.2	ppbv					
1,3,5-Trimethylbenzene	N.D.	.2	ppbv					
Alpha Methyl Styrene	N.D.	.2	ppbv					
1,2,4-Trimethylbenzene	N.D.	.2	ppbv					
1,3-Dichlorobenzene	N.D.	.5	ppbv					
1,4-Dichlorobenzene	N.D.	.5	ppbv	99		48-137		
Benzyl chloride	N.D.	.2	ppbv					
1,2-Dichlorobenzene	N.D.	.5	ppbv					
Hexachloroethane	N.D.	.2	ppbv					
1,2,4-Trichlorobenzene	N.D.	1.	ppbv					
Hexachlorobutadiene	N.D.	.5	ppbv					

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

DAIMLERCHRYSLER

Chain-of-Custody

0200 B

acct 10160 # 3520002

Lancaster Laboratories	Project Name: DAYTON THERMAL PRODUCTS	Consultant: LEGGETTE, BRASHEARS & GRAHAM
2425 New Holland Pike	Site Location: DAYTON OH	Address: 1210 W COUNTY ROAD E
Lancaster, PA 17601	Site Code:	SUITE 700 ST. PAUL, MN 55112
Phone Number: (717) 656-2300	RFA Number: YGQP3000260	Consultant PM KEN VOGEL
Fax Number: (717) 656-2681	DaimlerChrysler PM: GARY STANCZUK	Phone: 651 490-1405 202 Fax: 651 490-1006

Turn-around Time Request: (circle)
24 calendar hrs.
48 calendar hrs.
7 calendar days
14 calendar days

Data Package Deliverables: (circle)
DaimlerChrysler Level 1
DaimlerChrysler Level 2
CLP

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify)

Are aqueous samples field filtered for metals? Yes No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	TO-14 A	LIBRAR SEARCH								Remarks
SVE EFF	12/13/00	1555	G	A	1	X	X								SUMMA 0188

Sampler(s) KRISTIN MAHNKE	**Cooler ID #**			**Samples Relinquished under Airbill No.**			**Temperature (corrected)** ___ C
	Relinquished by: [signature]	**Date:** 12/13/00	**Time:**	**Received by:**	**Date:**	**Time:**	**Custody Seal Intact?** Yes No
Is RFA sampling complete? Yes No	**Relinquished by:**	**Date:**	**Time:**	**Received for Laboratory by:** Kathy Binkley	**Date:** 12-14-00	**Time:** 0930	**Custody Seal Intact?** Yes No

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Revision No. 3
Created. July 9, 1999

Lancaster Laboratories
Where quality is a science.

FAX Cover Page

Pages 9

CONFIDENTIAL MATERIAL

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If received in error, please notify sender at once and return the original faxed transmission by U. S. Postal Service to the address indicated below. Thank you.

2425 New Holland Pike
Lancaster, PA 17605-2425

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

Deliver to: Mr. Mike Plante

Company: 10160 417 417 Mr. Mike PLAIMLERCHRYSLER CORPORATIO

Fax: 16514901006

From: Gwen A. Birchall Ext

Message:

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: AQ3520002 Account: 10160 DAIMLERCHRYSLER CORPORATION
Date Submitted: 12/14/00 Date Reported: 01/05/01
Date Collected: 12/13/00

SVE_EFF Summa Canister #0188
Site Code: SC001 RFA#: YGQP2000260
Dayton Thermal/Dayton, OH

	ANALYSIS NAME	RESULT		METHOD DETECTION LIMIT	UNITS
5695	TO-14 Form 1				attached
6900	GC/MS Air TIC Form Upload				attached
7199	TO 14 VOA Extended List				
7201	Propene	40.	J	10.	ppbv
7202	Dichlorodifluoromethane	18.	J	10.	ppbv
7203	Chlorodifluoromethane	N.D.		50.	ppbv
7204	Freon 114	N.D.		10.	ppbv
7205	Chloromethane	N.D.		10.	ppbv
7206	Vinyl Chloride	1,500.		10.	ppbv
7207	1,3-Butadiene	N.D.		50.	ppbv
7208	Bromomethane	N.D.		10.	ppbv
7209	Chloroethane	N.D.		10.	ppbv
7210	Dichlorofluoromethane	N.D.		10.	ppbv
7212	Trichlorofluoromethane	N.D.		10.	ppbv
7213	Pentane	N.D.		10.	ppbv
7214	Acrolein	N.D.		25.	ppbv
7215	1,1-Dichloroethene	240.		10.	ppbv
7216	Freon 113	10,000.		170.	ppbv
7217	Acetone	N.D.		50.	ppbv
7218	Methyl Iodide	N.D.		10.	ppbv
7219	Carbon Disulfide	N.D.		25.	ppbv
7220	Acetonitrile	N.D.		25.	ppbv
7221	3-Chloropropene	N.D.		25.	ppbv
7222	Methylene Chloride	N.D.		25.	ppbv
7223	Acrylonitrile	N.D.		25.	ppbv
7224	trans-1,2-Dichloroethene	240.		10.	ppbv
7225	Methyl t-Butyl Ether	N.D.		10.	ppbv
7226	Hexane	N.D.		10.	ppbv
7227	1,1-Dichloroethane	2,100.		10.	ppbv
7228	Vinyl Acetate	N.D.		10.	ppbv
7230	cis-1,2-Dichloroethene	7,800.		67.	ppbv
7231	2-Butanone	N.D.		25.	ppbv
7232	Ethyl Acetate	N.D.		10.	ppbv
7233	Methyl Acrylate	N.D.		10.	ppbv

7234	Chloroform	11.	J	10.	ppbv

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: AQ3520002 Account: 10160 DAIMLERCHRYSLER CORPORATION

7235	1,1,1-Trichloroethane	1,700.		10.	ppbv
7236	Carbon Tetrachloride	N.D.		10.	ppbv
7237	1,2-Dichloroethane	N.D.		10.	ppbv
7238	Benzene	24.	J	10.	ppbv
7239	Isooctane	22.	J	10.	ppbv
7240	Heptane	N.D.		10.	ppbv
2076	Tertiary butyl alcohol	N.D.		10.	ppbv

==========

7200	TO 14 VOA Extended List cont.				
7241	Trichloroethene	5,800.		67.	ppbv
7242	Ethyl Acrylate	N.D.		10.	ppbv
7243	1,2-Dichloropropane	N.D.		10.	ppbv
7244	Methyl Methacrylate	N.D.		10.	ppbv
7245	Dibromomethane	N.D.		10.	ppbv
7246	1,4-Dioxane	N.D.		10.	ppbv
7247	Bromodichloromethane	N.D.		10.	ppbv
7248	cis-1,3-Dichloropropene	N.D.		10.	ppbv
7249	4-Methyl-2-Pentanone	N.D.		25.	ppbv
7250	Toluene	10.	J	10.	ppbv
7251	Octane	N.D.		10.	ppbv
7252	trans-1,3-Dichloropropene	N.D.		10.	ppbv
7253	Ethyl Methacrylate	N.D.		10.	ppbv
7254	1,1,2-Trichloroethane	N.D.		10.	ppbv
7255	Tetrachloroethene	6,700.		67.	ppbv
7256	2-Hexanone	N.D.		25.	ppbv
7257	Dibromochloromethane	N.D.		10.	ppbv
7258	1,2-Dibromoethane	N.D.		10.	ppbv
7259	Chlorobenzene	N.D.		10.	ppbv
7260	1,1,1,2-Tetrachloroethane	N.D.		10.	ppbv
7261	Ethylbenzene	N.D.		10.	ppbv
7262	m/p-Xylene	25.	J	10.	ppbv
7263	o-Xylene	10.	J	10.	ppbv
7264	Styrene	N.D.		10.	ppbv
7265	Bromoform	N.D.		10.	ppbv
7266	Cumene	N.D.		10.	ppbv
7267	1,1,2,2-Tetrachloroethane	N.D.		10.	ppbv
7268	1,2,3-Trichloropropane	N.D.		10.	ppbv
7269	Bromobenzene	N.D.		10.	ppbv
7270	4-Ethyltoluene	N.D.		10.	ppbv
7271	1,3,5-Trimethylbenzene	N.D.		10.	ppbv
7272	Alpha Methyl Styrene	N.D.		10.	ppbv
7273	1,2,4-Trimethylbenzene	N.D.		10.	ppbv
7274	1,3-Dichlorobenzene	N.D.		25.	ppbv
7275	1,4-Dichlorobenzene	N.D.		25.	ppbv
7276	Benzyl chloride	N.D.		10.	ppbv
7277	1,2-Dichlorobenzene	N.D.		25.	ppbv
7278	Hexachloroethane	N.D.		10.	ppbv
7279	1,2,4-Trichlorobenzene	N.D.		50.	ppbv

7280 Hexachlorobutadiene N.D. 25. ppbv

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: AQ3520002 Account: 10160 DAIMLERCHRYSLER CORPORATION

==========

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVEFF Date Collected: 12/13/00 Date Received: 12/14/00
Lab Sample ID: 3520002 Date Analyzed: 12/20/00 Time Analyzed: 22:30
Canister ID: SUMMA0188 Pressure Rec'd: 14.4 psia Final Pressure: 28.8 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 50.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\DEC20\1401014.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
115-07-1	Propene	40	B J D
75-71-8	Dichlorodifluoromethane	18	J D
75-45-6	Chlorodifluoromethane	50	U
76-14-2	Freon 114	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	1500	D
106-99-0	1,3-Butadiene	50	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-43-4	Dichlorofluoromethane	10	U
75-69-4	Trichlorofluoromethane	10	U
109-66-0	Pentane	10	U
107-02-8	Acrolein	25	U
75-35-4	1,1-Dichloroethene	240	D
76-13-1	Freon 113	10000	D
67-64-1	Acetone	50	U
74-88-4	Methyl Iodide	10	U
75-15-0	Carbon Disulfide	25	U
75-05-8	Acetonitrile	25	U
107-05-1	3-Chloropropene	25	U
75-09-2	Methylene Chloride	25	U
75-65-0	tert-Butyl Alcohol	10	U
107-13-1	Acrylonitrile	25	U
156-60-5	trans-1,2-Dichloroethene	240	D
1634-04-4	Methyl t-Butyl Ether	10	U
110-54-3	Hexane	10	U
75-34-3	1,1-Dichloroethane	2100	D
108-05-4	Vinyl Acetate	10	U
156-59-2	cis-1,2-Dichloroethene	7800	D
78-93-3	2-Butanone	25	U
141-78-6	Ethyl Acetate	10	U
96-33-3	Methyl Acrylate	10	U
67-66-3	Chloroform	11	J D
71-55-6	1,1,1-Trichloroethane	1700	D

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: AQ3520002 Account: 10160 DAIMLERCHRYSLER CORPORATION

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: AQ3520002 Account: 10160 DAIMLERCHRYSLER CORPORATION

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVEFF Date Collected: 12/13/00 Date Received: 12/14/00
Lab Sample ID: 3520002 Date Analyzed: 12/20/00 Time Analyzed: 22:30
Canister ID: SUMMA0188 Pressure Rec'd: 14.4 psia Final Pressure: 28.8 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 50.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\DEC20\1401014.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
56-23-5	Carbon Tetrachloride	10	U
107-06-2	1,2-Dichloroethane	10	U
71-43-2	Benzene	24	J D
540-84-1	Isooctane	22	J D
142-82-5	Heptane	10	U
79-01-6	Trichloroethene	5800	D
140-88-5	Ethyl Acrylate	10	U
78-87-5	1,2-Dichloropropane	10	U
80-62-6	Methyl Methacrylate	10	U
74-95-3	Dibromomethane	10	U
123-91-1	1,4-Dioxane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	25	U
108-88-3	Toluene	10	J D
111-65-9	Octane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
97-63-2	Ethyl Methacrylate	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	6700	D
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m/p-Xylene	25	J D
95-47-6	o-Xylene	10	J D
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Cumene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
108-86-1	Bromobenzene	10	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: AQ3520002 Account: 10160 DAIMLERCHRYSLER CORPORATION

J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: AQ3520002 Account: 10160 DAIMLERCHRYSLER CORPORATION

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SVEFF Date Collected: 12/13/00 Date Received: 12/14/00
Lab Sample ID: 3520002 Date Analyzed: 12/20/00 Time Analyzed: 22:30
Canister ID: SUMMA0188 Pressure Rec'd: 14.4 psia Final Pressure: 28.8 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 50.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\DEC20\1401014.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
622-96-8	4-Ethyltoluene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
611-15-1	Alpha Methyl Styrene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
100-44-7	Benzyl chloride	10	U
95-50-1	1,2-Dichlorobenzene	25	U
67-72-1	Hexachloroethane	10	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	25	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: SVEFF Date Collected: 12/13/00 Date Received: 12/14/00
Lab Sample ID: 3520002 Date Analyzed: 12/20/00 Time Analyzed: 22:30
Canister ID: SUMMA0188 Pressure Rec'd: 14.4 psia Final Pressure: 28.8 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 50.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\DEC20\1401014.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
	Unknown	7.62	240	J D
	Unknown	8.64	180	J D

354-23-4	Ethane, 1,2-dichloro-1,1,2-tri	10.43	7900	J D

***** Lancaster Laboratories Analytical Report *****
2425 New Holland Pike, Lancaster, PA 17601

Sample Number: AQ3520002 Account: 10160 DAIMLERCHRYSLER CORPORATION

	Unknown aliphatic hydrocarbon,	23.66	130	J[4] D
	Unknown siloxane	24.41	88	J D
	Unknown aliphatic hydrocarbon,	24.60	69	J D
	Unknown aliphatic hydrocarbon,	26.16	79	J D
	Unknown aliphatic hydrocarbon,	27.36	66	J D
	Unknown aliphatic hydrocarbon,	27.81	59	J D
	Unknown	31.61	50	J D

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

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Electronic Data Deliverables

27 2001

10160 - DaimlerChrysler Corporation

SDG: DCI03 Dayton Thermal Bldg 50 SVE Pilot/Dayton, OH

Sample Reference List for EDD File C3590905.TXT

Laboratory Sample No.	Laboratory Group No.	Sample Description		Collected
3590905	**758700**	SVE-15D Summa Canister #0015	Site Code: SC001 RFA#: YGQP2001213	04/11/01 10:27
3590906		SVE-15S Summa Canister #0192	Site Code: SC001 RFA#: YGQP2001213	04/12/01 09:58

Analysis Report

Lancaster Laboratories
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APR 27 2001

ANALYTICAL RESULTS

Prepared for:

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 758700. Samples arrived at the laboratory on Friday, April 13, 2001. The PO# for this group is N99C403749-B and the release number is YGQP2001213.

Client Description	Lancaster Labs Number
SVE-15D Summa Canister #0015	3590905
SVE-15S Summa Canister #0192	3590906

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Leggette, Brashears & Graham Attn: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Gwen A. Birchall at (717) 656-2300.

Respectfully Submitted,

Robert E. Mellinger
Sr. Chemist/Coordinator

Lancaster Laboratories
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APR 27 2001

Lancaster Laboratories Sample No. AQ 3590905

Collected:04/11/2001 10:27 by ALM

Account Number: 10160

Submitted: 04/13/2001 09:20
Reported: 04/25/01 at 10:43 PM
Discard: 6/25/01
SVE-15D Summa Canister #0015
Site Code: SC001 RFA#: YGQP2001213
Dayton Thermal Bldg 50 SVE Pilot/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SV15D SDG#: DCI03-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07199	TO 14 VOA Extended List	EPA Method TO14	1	04/19/2001 04:12	Matthew S. Thomas	100
07199	TO 14 VOA Extended List	EPA Method TO14	1	04/19/2001 12:13	Matthew S. Thomas	1000
07200	TO 14 VOA Extended List cont.	EPA Method TO14	1	04/19/2001 04:12	Matthew S. Thomas	100
07200	TO 14 VOA Extended List cont.	EPA Method TO14	1	04/19/2001 12:13	Matthew S. Thomas	1000

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VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: SV15D
Lab Sample ID: 3590905
Canister ID: SUMMA0015
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/11/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.0 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\2101007.D

Date Received: 04/13/01
Time Analyzed: 04:12
Final Pressure: 28.1 psia
Dilution Factor: 100.0

UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
No Tentatively Identified Compounds were detected in this sample.				

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

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

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BY/DATE LJA 4·26·01
CHECKED BY NLM
DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV15D
Lab Sample ID: 3590905
Canister ID: SUMMA0015
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/11/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.0 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\2101007.D

Date Received: 04/13/01
Time Analyzed: 04:12
Final Pressure: 28.1 psia
Dilution Factor: 100.0

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
115-07-1	Propene	20	U
75-71-8	Dichlorodifluoromethane	20	U
75-45-6	Chlorodifluoromethane	100	U
76-14-2	Freon 114	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl Chloride	20	U
106-99-0	1,3-Butadiene	100	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-43-4	Dichlorofluoromethane	20	U
75-69-4	Trichlorofluoromethane	20	U
109-66-0	Pentane	20	U
107-02-8	Acrolein	50	U
75-35-4	1,1-Dichloroethene	720	D
76-13-1	Freon 113	80	J D
67-64-1	Acetone	100	U
74-88-4	Methyl Iodide	20	U
75-15-0	Carbon Disulfide	50	U
75-05-8	Acetonitrile	50	U
107-05-1	3-Chloropropene	50	U
75-09-2	Methylene Chloride	50	U
75-65-0	tert-Butyl Alcohol	22	J D
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	1400	D
1634-04-4	Methyl t-Butyl Ether	20	U
110-54-3	Hexane	20	U
75-34-3	1,1-Dichloroethane	2400	D
108-05-4	Vinyl Acetate	20	U
156-59-2	cis-1,2-Dichloroethene	79000	D
78-93-3	2-Butanone	50	U
141-78-6	Ethyl Acetate	20	U
96-33-3	Methyl Acrylate	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	24000	D

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

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

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ENTERED IN DATABASE
BY/DATE LJA 4.26.01
CHECKED BY MM
DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV15D
Lab Sample ID: 3590905
Canister ID: SUMMA0015
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/11/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.0 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\2101007.D

Date Received: 04/13/01
Time Analyzed: 04:12
Final Pressure: 28.1 psia
Dilution Factor: 100.0

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
56-23-5	Carbon Tetrachloride	20	U
107-06-2	1,2-Dichloroethane	20	U
71-43-2	Benzene	89	J D
540-84-1	Isooctane	20	U
142-82-5	Heptane	20	U
79-01-6	Trichloroethene	4500	D
140-88-5	Ethyl Acrylate	20	U
78-87-5	1,2-Dichloropropane	20	U
80-62-6	Methyl Methacrylate	20	U
74-95-3	Dibromomethane	20	U
123-91-1	1,4-Dioxane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-Pentanone	50	U
108-88-3	Toluene	20	U
111-65-9	Octane	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
97-63-2	Ethyl Methacrylate	20	U
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	19000	D
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	190	D
630-20-6	1,1,1,2-Tetrachloroethane	20	U
100-41-4	Ethylbenzene	20	U
1330-20-7	m/p-Xylene	20	U
95-47-6	o-Xylene	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Cumene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
96-18-4	1,2,3-Trichloropropane	20	U
108-86-1	Bromobenzene	20	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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BY/DATE LJA 4.26.01
CHECKED BY NLM
DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV15D
Lab Sample ID: 3590905
Canister ID: SUMMA0015
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/11/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.0 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\2101007.D

Date Received: 04/13/01
Time Analyzed: 04:12
Final Pressure: 28.1 psia
Dilution Factor: 100.0

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
622-96-8	4-Ethyltoluene	20	U
108-67-8	1,3,5-Trimethylbenzene	20	U
98-83-9	Alpha Methyl Styrene	20	U
95-63-6	1,2,4-Trimethylbenzene	20	U
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
100-44-7	Benzyl chloride	20	U
95-50-1	1,2-Dichlorobenzene	50	U
67-72-1	Hexachloroethane	20	U
120-82-1	1,2,4-Trichlorobenzene	100	U
87-68-3	Hexachlorobutadiene	50	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

Analysis Report

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APR 27 2001

Lancaster Laboratories Sample No. AQ 3590906

Collected:04/12/2001 09:58 by ALM

Account Number: 10160

Submitted: 04/13/2001 09:20
Reported: 04/25/01 at 10:43 PM
Discard: 6/25/01
SVE-15S Summa Canister #0192
Site Code: SC001 RFA#: YGQP2001213
Dayton Thermal Bldg 50 SVE Pilot/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SV15S SDG#: DCI03-02*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07199	TO 14 VOA Extended List	EPA Method TO14	1	04/19/2001 04:56	Matthew S. Thomas	667
07199	TO 14 VOA Extended List	EPA Method TO14	1	04/19/2001 05:39	Matthew S. Thomas	100
07200	TO 14 VOA Extended List cont.	EPA Method TO14	1	04/19/2001 04:56	Matthew S. Thomas	667
07200	TO 14 VOA Extended List cont.	EPA Method TO14	1	04/19/2001 05:39	Matthew S. Thomas	100

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VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: SV15S
Lab Sample ID: 3590906
Canister ID: SUMMA0193
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/12/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.1 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\2301009.D

Date Received: 04/13/01
Time Analyzed: 05:39
Final Pressure: 28.2 psia
Dilution Factor: 100.0

UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
No Tentatively Identified Compounds were detected in this sample.				

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

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

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ENTERED IN DATABASE
BY/DATE LJA 4.26.01
CHECKED BY MLM
DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV15S
Lab Sample ID: 3590906
Canister ID: SUMMA0193
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/12/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.1 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\2301009.D

Date Received: 04/13/01
Time Analyzed: 05:39
Final Pressure: 28.2 psia
Dilution Factor: 100.0

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
115-07-1	Propene	20	U
75-71-8	Dichlorodifluoromethane	20	U
75-45-6	Chlorodifluoromethane	100	U
76-14-2	Freon 114	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl Chloride	20	U
106-99-0	1,3-Butadiene	100	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-43-4	Dichlorofluoromethane	20	U
75-69-4	Trichlorofluoromethane	20	U
109-66-0	Pentane	20	U
107-02-8	Acrolein	50	U
75-35-4	1,1-Dichloroethene	560	D
76-13-1	Freon 113	76	J D
67-64-1	Acetone	100	U
74-88-4	Methyl Iodide	20	U
75-15-0	Carbon Disulfide	50	U
75-05-8	Acetonitrile	50	U
107-05-1	3-Chloropropene	50	U
75-09-2	Methylene Chloride	50	U
75-65-0	tert-Butyl Alcohol	69	J D
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	1100	D
1634-04-4	Methyl t-Butyl Ether	20	U
110-54-3	Hexane	20	U
75-34-3	1,1-Dichloroethane	2300	D
108-05-4	Vinyl Acetate	20	U
156-59-2	cis-1,2-Dichloroethene	59000	D
78-93-3	2-Butanone	50	U
141-78-6	Ethyl Acetate	20	U
96-33-3	Methyl Acrylate	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	17000	D

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

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DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV15S Date Collected: 04/12/01 Date Received: 04/13/01
Lab Sample ID: 3590906 Date Analyzed: 04/19/01 Time Analyzed: 05:39
Canister ID: SUMMA0193 Pressure Rec'd: 14.1 psia Final Pressure: 28.2 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 100.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\APR18\2301009.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
56-23-5	Carbon Tetrachloride	20	U
107-06-2	1,2-Dichloroethane	20	U
71-43-2	Benzene	67	J D
540-84-1	Isooctane	20	U
142-82-5	Heptane	20	U
79-01-6	Trichloroethene	2500	D
140-88-5	Ethyl Acrylate	20	U
78-87-5	1,2-Dichloropropane	20	U
80-62-6	Methyl Methacrylate	20	U
74-95-3	Dibromomethane	20	U
123-91-1	1,4-Dioxane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-Pentanone	50	U
108-88-3	Toluene	20	U
111-65-9	Octane	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
97-63-2	Ethyl Methacrylate	20	U
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	15000	D
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	43	J D
630-20-6	1,1,1,2-Tetrachloroethane	20	U
100-41-4	Ethylbenzene	20	U
1330-20-7	m/p-Xylene	20	U
95-47-6	o-Xylene	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Cumene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
96-18-4	1,2,3-Trichloropropane	20	U
108-86-1	Bromobenzene	20	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

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VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV15S
Lab Sample ID: 3590906
Canister ID: SUMMA0193
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/12/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.1 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\2301009.D

Date Received: 04/13/01
Time Analyzed: 05:39
Final Pressure: 28.2 psia
Dilution Factor: 100.0

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
622-96-8	4-Ethyltoluene	20	U
108-67-8	1,3,5-Trimethylbenzene	20	U
98-83-9	Alpha Methyl Styrene	20	U
95-63-6	1,2,4-Trimethylbenzene	20	U
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
100-44-7	Benzyl chloride	20	U
95-50-1	1,2-Dichlorobenzene	50	U
67-72-1	Hexachloroethane	20	U
120-82-1	1,2,4-Trichlorobenzene	100	U
87-68-3	Hexachlorobutadiene	50	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

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APR 27 2001

Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 04/25/01 at 10:43 PM

Group Number: 758700

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A011091AA	Sample number(s): 3590905-3590906							
Tertiary butyl alcohol	N.D.	.2	ppbv					
Propene	N.D.	.2	ppbv					
Dichlorodifluoromethane	N.D.	.2	ppbv					
Chlorodifluoromethane	N.D.	1.	ppbv					
Freon 114	N.D.	.2	ppbv					
Chloromethane	N.D.	.2	ppbv					
Vinyl Chloride	N.D.	.2	ppbv	96		42-168		
1,3-Butadiene	N.D.	1.	ppbv					
Bromomethane	N.D.	.2	ppbv					
Chloroethane	N.D.	.2	ppbv					
Dichlorofluoromethane	N.D.	.2	ppbv					
Trichlorofluoromethane	N.D.	.2	ppbv					
Pentane	N.D.	.2	ppbv					
Acrolein	N.D.	.5	ppbv					
1,1-Dichloroethene	N.D.	.2	ppbv					
Freon 113	N.D.	.5	ppbv					
Acetone	N.D.	1.	ppbv					
Methyl Iodide	N.D.	.2	ppbv					
Carbon Disulfide	N.D.	.5	ppbv					
Acetonitrile	N.D.	.5	ppbv					
3-Chloropropene	N.D.	.2	ppbv					
Methylene Chloride	N.D.	.5	ppbv					
Acrylonitrile	N.D.	.5	ppbv					
trans-1,2-Dichloroethene	N.D.	.2	ppbv					
Methyl t-Butyl Ether	N.D.	.2	ppbv					
Hexane	N.D.	.2	ppbv					
1,1-Dichloroethane	N.D.	.2	ppbv					
Vinyl Acetate	N.D.	.2	ppbv					
cis-1,2-Dichloroethene	N.D.	.2	ppbv					
2-Butanone	N.D.	.5	ppbv					
Ethyl Acetate	N.D.	.2	ppbv					
Methyl Acrylate	N.D.	.2	ppbv					
Chloroform	N.D.	.2	ppbv					
1,1,1-Trichloroethane	N.D.	.2	ppbv	112		62-182		
Carbon Tetrachloride	N.D.	.2	ppbv					
1,2-Dichloroethane	N.D.	.2	ppbv					
Benzene	N.D.	.2	ppbv	103		58-174		
Isooctane	N.D.	.2	ppbv					
Heptane	N.D.	.2	ppbv					
Trichloroethene	N.D.	.2	ppbv	84		56-157		
Ethyl Acrylate	N.D.	.2	ppbv					
1,2-Dichloropropane	N.D.	.2	ppbv					
Methyl Methacrylate	N.D.	.2	ppbv					
Dibromomethane	N.D.	.2	ppbv					
1,4-Dioxane	N.D.	.2	ppbv					
Bromodichloromethane	N.D.	.2	ppbv					
cis-1,3-Dichloropropene	N.D.	.2	ppbv					

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

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Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 04/25/01 at 10:43 PM

Group Number: 758700

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methyl-2-Pentanone	N.D.	.5	ppbv					
Toluene	N.D.	.2	ppbv					
Octane	N.D.	.2	ppbv					
trans-1,3-Dichloropropene	N.D.	.2	ppbv					
Ethyl Methacrylate	N.D.	.2	ppbv					
1,1,2-Trichloroethane	N.D.	.2	ppbv					
Tetrachloroethene	N.D.	.2	ppbv					
2-Hexanone	N.D.	.5	ppbv					
Dibromochloromethane	N.D.	.2	ppbv					
1,2-Dibromoethane	N.D.	.2	ppbv					
Chlorobenzene	N.D.	.2	ppbv					
1,1,1,2-Tetrachloroethane	N.D.	.2	ppbv					
Ethylbenzene	N.D.	.2	ppbv	94		61-171		
m/p-Xylene	N.D.	.2	ppbv					
o-Xylene	N.D.	.2	ppbv					
Styrene	N.D.	.2	ppbv					
Bromoform	N.D.	.2	ppbv					
Cumene	N.D.	.2	ppbv					
1,1,2,2-Tetrachloroethane	N.D.	.2	ppbv					
1,2,3-Trichloropropane	N.D.	.2	ppbv					
Bromobenzene	N.D.	.2	ppbv					
4-Ethyltoluene	N.D.	.2	ppbv					
1,3,5-Trimethylbenzene	N.D.	.2	ppbv					
Alpha Methyl Styrene	N.D.	.2	ppbv					
1,2,4-Trimethylbenzene	N.D.	.2	ppbv					
1,3-Dichlorobenzene	N.D.	.5	ppbv					
1,4-Dichlorobenzene	N.D.	.5	ppbv	87		48-137		
Benzyl chloride	N.D.	.2	ppbv					
1,2-Dichlorobenzene	N.D.	.5	ppbv					
Hexachloroethane	N.D.	.2	ppbv					
1,2,4-Trichlorobenzene	N.D.	1.	ppbv					
Hexachlorobutadiene	N.D.	.5	ppbv					

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

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act 10160 # 3590905-06

DAIMLERCHRYSLER BUILDING 50 SVE TEST Chain-of-Custody

APR 27 2001 0609 B

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17601 Phone Number: (717) 656-2300 Fax Number: (717) 656-2681	Project Name: DAYTON THERMAL PRODUCTS Site Location: DAYTON, OH Site Code: SC001 RFA Number: YGQP2001213 DaimlerChrysler PM: GARY STANCZUK	Consultant: LBG Address: 1210 W. County Rd. E Ste. 700 St. Paul, MN 55112 Consultant PM KEN VOGEL Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request: (circle)
- 24 calendar hrs.
- 48 calendar hrs.
- 7 calendar days
- 14 calendar days

Data Package Deliverables: (circle)
- DaimlerChrysler Level 1
- DaimlerChrysler Level 2
- CLP

Matrix Codes
S - Soil, SW - Surface Water, GW - Groundwater, A - Air, Sed. - Sediment, O - Other (specify) ____

Are aqueous samples field filtered for metals? Yes No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	TO14 A w/LIBRARY SEARCH								Remarks
SVE-15D	4.11.01	10 27	G	A	1	X								LIBRARY SEARCH, SUMMA 0015
SVE-15S	4.12.01	9 58	G	A	1	X								" , SUMMA 0192

Sampler(s): LYNDSEY ALM	Cooler ID # LANCASTER BOX			Samples Relinquished under Airbill No. 816239989072			Temperature (corrected) ___ C
	Relinquished by: Lyndsey Alm	Date: 4.12.01	Time: fedex	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Is RFA sampling complete? Yes (No)	Relinquished by:	Date:	Time:	Received for Laboratory by:	Date: 4/13/01	Time: 0920	Custody Seal Intact? (Yes) No

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Revision No 3
Created: July 9, 1999

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Electronic Data Deliverables

MAY -2 2001

10160 - DaimlerChrysler Corporation

SDG: DCI05 Dayton Thermal Bldg 50 SVE Pilot/Dayton, OH

Sample Reference List for EDD File C3591621.TXT

Laboratory Sample No.	Laboratory Group No.	Sample Description		Collected
3591621	**758813**	SVE-13S Summa Canister #178	Site Code: SC001 RFA#: YGQP2001213	04/13/01 11:36
3591622		SVE-13D Summa Canister #0003	Site Code: SC001 RFA#: YGQP2001213	04/13/01 11:33

Analysis Report

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MAY -2 2001

ANALYTICAL RESULTS

Prepared for:

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 758813. Samples arrived at the laboratory on Monday, April 16, 2001. The PO# for this group is N99C403749-B and the release number is YGQP2001213.

Client Description	Lancaster Labs Number
SVE-13S Summa Canister #178	3591621
SVE-13D Summa Canister #0003	3591622

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Leggette, Brashears & Graham Attn: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Gwen A. Birchall at (717) 656-2300.

Respectfully Submitted,

Robert E. Mellinger
Sr Chemist/Coordinator

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Lancaster Laboratories, Inc.
2425 New Holland Pike
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Analysis Report

Lancaster Laboratories
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MAY 2 2001

Lancaster Laboratories Sample No. AQ 3591621

Collected:04/13/2001 11:36 by LA

Account Number: 10160

Submitted: 04/16/2001 09:40
Reported: 04/26/01 at 11:18 PM
Discard: 6/26/01
SVE-13S Summa Canister #178
Site Code: SC001 RFA#: YGQP2001213
Dayton Thermal Bldg 50 SVE Pilot/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SV13S SDG#: DCI05-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07199	TO 14 VOA Extended List	EPA Method TO14	1	04/18/2001 22:51	Matthew S. Thomas	6.7
07199	TO 14 VOA Extended List	EPA Method TO14	1	04/18/2001 23:35	Matthew S. Thomas	1
07200	TO 14 VOA Extended List cont.	EPA Method TO14	1	04/18/2001 23:35	Matthew S. Thomas	1

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VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: DCI05 Date Collected: 04/13/01 Date Received: 04/16/01
Lab Sample ID: 3591621 Date Analyzed: 04/18/01 Time Analyzed: 23:35
Canister ID: SUMMA0178 Pressure Rec'd: 14.7 psia Final Pressure: 29.4 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\APR18\1601002.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
	Unknown	14.79	2	J
	Unknown aliphatic hydrocarbon,	25.25	7	J
	Unknown aliphatic hydrocarbon,	25.64	3	J
	Unknown aliphatic hydrocarbon,	26.67	14	J
	Unknown aliphatic hydrocarbon,	26.93	5	J
	Unknown aliphatic hydrocarbon,	27.20	27	J
	Unknown aliphatic hydrocarbon,	27.47	3	J
	Unknown	27.77	6	J
	Unknown	28.06	12	J
	Unknown aliphatic hydrocarbon,	28.26	3	J

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

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Lancaster Laboratories, Inc.
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VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: DCI05 Date Collected: 04/13/01 Date Received: 04/16/01
Lab Sample ID: 3591621 Date Analyzed: 04/18/01 Time Analyzed: 23:35
Canister ID: SUMMA0178 Pressure Rec'd: 14.7 psia Final Pressure: 29.4 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\APR18\1601002.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
115-07-1	Propene	0.2	U
75-71-8	Dichlorodifluoromethane	1	
75-45-6	Chlorodifluoromethane	1	U
76-14-2	Freon 114	0.2	U
74-87-3	Chloromethane	0.2	U
75-01-4	Vinyl Chloride	0.2	U
106-99-0	1,3-Butadiene	1	U
74-83-9	Bromomethane	0.2	U
75-00-3	Chloroethane	0.2	U
75-43-4	Dichlorofluoromethane	0.2	U
75-69-4	Trichlorofluoromethane	1	J
109-66-0	Pentane	0.2	U
107-02-8	Acrolein	0.5	U
75-35-4	1,1-Dichloroethene	7	
76-13-1	Freon 113	13	
67-64-1	Acetone	5	
74-88-4	Methyl Iodide	0.2	U
75-15-0	Carbon Disulfide	0.5	U
75-05-8	Acetonitrile	0.5	U
107-05-1	3-Chloropropene	0.5	U
75-09-2	Methylene Chloride	0.5	U
75-65-0	tert-Butyl Alcohol	0.2	U
107-13-1	Acrylonitrile	0.5	U
156-60-5	trans-1,2-Dichloroethene	4	
1634-04-4	Methyl t-Butyl Ether	0.2	U
110-54-3	Hexane	0.2	U
75-34-3	1,1-Dichloroethane	17	
108-05-4	Vinyl Acetate	0.2	U
156-59-2	cis-1,2-Dichloroethene	140	D
78-93-3	2-Butanone	4	
141-78-6	Ethyl Acetate	0.2	U
96-33-3	Methyl Acrylate	0.2	U
67-66-3	Chloroform	2	
71-55-6	1,1,1-Trichloroethane	170	D

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
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Lancaster, PA 17605-2425
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DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: DCI05 Date Collected: 04/13/01 Date Received: 04/16/01
Lab Sample ID: 3591621 Date Analyzed: 04/18/01 Time Analyzed: 23:35
Canister ID: SUMMA0178 Pressure Rec'd: 14.7 psia Final Pressure: 29.4 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\APR18\1601002.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
56-23-5	Carbon Tetrachloride	0.2	U
107-06-2	1,2-Dichloroethane	0.2	U
71-43-2	Benzene	0.9	J
540-84-1	Isooctane	0.2	U
142-82-5	Heptane	0.2	U
79-01-6	Trichloroethene	75	
140-88-5	Ethyl Acrylate	0.2	U
78-87-5	1,2-Dichloropropane	0.2	U
80-62-6	Methyl Methacrylate	0.2	U
74-95-3	Dibromomethane	0.2	U
123-91-1	1,4-Dioxane	0.2	U
75-27-4	Bromodichloromethane	0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-Pentanone	0.5	U
108-88-3	Toluene	0.9	J
111-65-9	Octane	0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U
97-63-2	Ethyl Methacrylate	0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	U
127-18-4	Tetrachloroethene	83	
591-78-6	2-Hexanone	0.5	U
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	0.2	U
108-90-7	Chlorobenzene	0.5	J
630-20-6	1,1,1,2-Tetrachloroethane	0.2	U
100-41-4	Ethylbenzene	0.2	J
1330-20-7	m/p-Xylene	1	
95-47-6	o-Xylene	0.5	J
100-42-5	Styrene	0.6	J
75-25-2	Bromoform	0.2	U
98-82-8	Cumene	0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.2	U
108-86-1	Bromobenzene	0.2	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.

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BY/DATE LJA 4-26-01
CHECKED BY NLM
DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: DCI05 Date Collected: 04/13/01 Date Received: 04/16/01
Lab Sample ID: 3591621 Date Analyzed: 04/18/01 Time Analyzed: 23:35
Canister ID: SUMMA0178 Pressure Rec'd: 14.7 psia Final Pressure: 29.4 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\APR18\1601002.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
622-96-8	4-Ethyltoluene	1	
108-67-8	1,3,5-Trimethylbenzene	0.3	J
98-83-9	Alpha Methyl Styrene	0.2	U
95-63-6	1,2,4-Trimethylbenzene	2	
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	
100-44-7	Benzyl chloride	0.2	U
95-50-1	1,2-Dichlorobenzene	0.5	U
67-72-1	Hexachloroethane	0.2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.5	U

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MAY -2 2001

Lancaster Laboratories Sample No. AQ 3591622

Collected:04/13/2001 11:33 by LA

Account Number: 10160

Submitted: 04/16/2001 09:40
Reported: 04/26/01 at 11:18 PM
Discard: 6/26/01
SVE-13D Summa Canister #0003
Site Code: SC001 RFA#: YGQP2001213
Dayton Thermal Bldg 50 SVE Pilot/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SV13D SDG#: DCI05-02*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07199	TO 14 VOA Extended List	EPA Method TO14	1	04/19/2001 00:59	Matthew S. Thomas	6.7
07199	TO 14 VOA Extended List	EPA Method TO14	1	04/19/2001 01:42	Matthew S. Thomas	1
07200	TO 14 VOA Extended List cont.	EPA Method TO14	1	04/19/2001 01:42	Matthew S. Thomas	1

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VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: SV13D Date Collected: 04/13/01 Date Received: 04/16/01
Lab Sample ID: 3591622 Date Analyzed: 04/19/01 Time Analyzed: 01:42
Canister ID: SUMMA0003 Pressure Rec'd: 14.7 psia Final Pressure: 29.4 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\APR18\1801004.D
UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
	Unknown	7.23	9	J
	Unknown aliphatic hydrocarbon,	25.26	5	J
	Unknown aliphatic hydrocarbon,	26.68	16	J
	Unknown aliphatic hydrocarbon,	26.93	5	J
	Unknown aliphatic hydrocarbon,	27.20	32	J
	Unknown aliphatic hydrocarbon,	27.47	4	J
	Unknown aliphatic hydrocarbon,	28.06	14	J
	Unknown aliphatic hydrocarbon,	28.48	5	J
	Unknown aliphatic hydrocarbon,	28.85	7	J
	Unknown aliphatic hydrocarbon,	29.84	22	J

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

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BY/DATE LJA 4.26.01
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DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

4/14/01

Sample No.: SV13D Date Collected: ~~04/13/01~~ Date Received: 04/16/01
Lab Sample ID: 3591622 Date Analyzed: 04/19/01 Time Analyzed: 01:42
Canister ID: SUMMA0003 Pressure Rec'd: 14.7 psia Final Pressure: 29.4 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\APR18\1801004.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
115-07-1	Propene	3	
75-71-8	Dichlorodifluoromethane	1	
75-45-6	Chlorodifluoromethane	1	
76-14-2	Freon 114	0.2	U
74-87-3	Chloromethane	0.2	U
75-01-4	Vinyl Chloride	2	
106-99-0	1,3-Butadiene	1	U
74-83-9	Bromomethane	0.2	U
75-00-3	Chloroethane	0.2	U
75-43-4	Dichlorofluoromethane	0.2	U
75-69-4	Trichlorofluoromethane	1	
109-66-0	Pentane	0.6	J
107-02-8	Acrolein	0.5	U
75-35-4	1,1-Dichloroethene	10	
76-13-1	Freon 113	13	
67-64-1	Acetone	2	
74-88-4	Methyl Iodide	0.2	U
75-15-0	Carbon Disulfide	1	
75-05-8	Acetonitrile	0.5	U
107-05-1	3-Chloropropene	0.5	U
75-09-2	Methylene Chloride	0.5	U
75-65-0	tert-Butyl Alcohol	0.7	J
107-13-1	Acrylonitrile	0.5	U
156-60-5	trans-1,2-Dichloroethene	7	
1634-04-4	Methyl t-Butyl Ether	0.2	U
110-54-3	Hexane	0.2	U
75-34-3	1,1-Dichloroethane	41	
108-05-4	Vinyl Acetate	0.2	U
156-59-2	cis-1,2-Dichloroethene	410	D
78-93-3	2-Butanone	0.5	U
141-78-6	Ethyl Acetate	0.2	U
96-33-3	Methyl Acrylate	0.2	U
67-66-3	Chloroform	4	
71-55-6	1,1,1-Trichloroethane	210	D

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DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET 4/14/01

Sample No.: SV13D
Lab Sample ID: 3591622
Canister ID: SUMMA0003
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/13/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.7 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\1801004.D

Date Received: 04/16/01
Time Analyzed: 01:42
Final Pressure: 29.4 psia
Dilution Factor: 1.0

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
56-23-5	Carbon Tetrachloride	0.2	U
107-06-2	1,2-Dichloroethane	0.2	U
71-43-2	Benzene	0.3	J
540-84-1	Isooctane	0.2	U
142-82-5	Heptane	0.2	U
79-01-6	Trichloroethene	87	
140-88-5	Ethyl Acrylate	0.2	U
78-87-5	1,2-Dichloropropane	0.2	U
80-62-6	Methyl Methacrylate	0.2	U
74-95-3	Dibromomethane	0.2	U
123-91-1	1,4-Dioxane	0.2	U
75-27-4	Bromodichloromethane	0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-10-1	4-Methyl-2-Pentanone	0.5	U
108-88-3	Toluene	0.6	J
111-65-9	Octane	0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U
97-63-2	Ethyl Methacrylate	0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	U
127-18-4	Tetrachloroethene	70	
591-78-6	2-Hexanone	0.5	U
124-48-1	Dibromochloromethane	0.2	U
106-93-4	1,2-Dibromoethane	0.7	J
108-90-7	Chlorobenzene	5	
630-20-6	1,1,1,2-Tetrachloroethane	0.2	U
100-41-4	Ethylbenzene	0.3	J
1330-20-7	m/p-Xylene	1	
95-47-6	o-Xylene	0.6	J
100-42-5	Styrene	0.3	J
75-25-2	Bromoform	0.2	U
98-82-8	Cumene	0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
96-18-4	1,2,3-Trichloropropane	0.2	U
108-86-1	Bromobenzene	0.2	U

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BY/DATE LSA 4.26.01
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DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET 4/14/01

Sample No.: SV13D
Lab Sample ID: 3591622
Canister ID: SUMMA0003
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/13/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.7 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\1801004.D

Date Received: 04/16/01
Time Analyzed: 01:42
Final Pressure: 29.4 psia
Dilution Factor: 1.0

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
622-96-8	4-Ethyltoluene	0.2	U
108-67-8	1,3,5-Trimethylbenzene	0.2	U
98-83-9	Alpha Methyl Styrene	0.2	U
95-63-6	1,2,4-Trimethylbenzene	1	J
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.9	J
100-44-7	Benzyl chloride	0.2	U
95-50-1	1,2-Dichlorobenzene	0.5	U
67-72-1	Hexachloroethane	0.2	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	0.5	U

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B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.

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MAY -2 2001

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Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 04/26/01 at 11:18 PM

Group Number: 758813

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A011091AA	Sample number(s): 3591621-3591622							
Tertiary butyl alcohol	N.D.	.2	ppbv					
Propene	N.D.	.2	ppbv					
Dichlorodifluoromethane	N.D.	.2	ppbv					
Chlorodifluoromethane	N.D.	1.	ppbv					
Freon 114	N.D.	.2	ppbv					
Chloromethane	N.D.	.2	ppbv					
Vinyl Chloride	N.D.	.2	ppbv	96		42-168		
1,3-Butadiene	N.D.	1.	ppbv					
Bromomethane	N.D.	.2	ppbv					
Chloroethane	N.D.	.2	ppbv					
Dichlorofluoromethane	N.D.	.2	ppbv					
Trichlorofluoromethane	N.D.	.2	ppbv					
Pentane	N.D.	.2	ppbv					
Acrolein	N.D.	.5	ppbv					
1,1-Dichloroethene	N.D.	.2	ppbv					
Freon 113	N.D.	.5	ppbv					
Acetone	N.D.	1.	ppbv					
Methyl Iodide	N.D.	.2	ppbv					
Carbon Disulfide	N.D.	.5	ppbv					
Acetonitrile	N.D.	.5	ppbv					
3-Chloropropene	N.D.	.2	ppbv					
Methylene Chloride	N.D.	.5	ppbv					
Acrylonitrile	N.D.	.5	ppbv					
trans-1,2-Dichloroethene	N.D.	.2	ppbv					
Methyl t-Butyl Ether	N.D.	.2	ppbv					
Hexane	N.D.	.2	ppbv					
1,1-Dichloroethane	N.D.	.2	ppbv					
Vinyl Acetate	N.D.	.2	ppbv					
cis-1,2-Dichloroethene	N.D.	.2	ppbv					
2-Butanone	N.D.	.5	ppbv					
Ethyl Acetate	N.D.	.2	ppbv					
Methyl Acrylate	N.D.	.2	ppbv					
Chloroform	N.D.	.2	ppbv					
1,1,1-Trichloroethane	N.D.	.2	ppbv	112		62-182		
Carbon Tetrachloride	N.D.	.2	ppbv					
1,2-Dichloroethane	N.D.	.2	ppbv					
Benzene	N.D.	.2	ppbv	103		58-174		
Isooctane	N.D.	.2	ppbv					
Heptane	N.D.	.2	ppbv					
Trichloroethene	N.D.	.2	ppbv	84		56-157		
Ethyl Acrylate	N.D.	.2	ppbv					
1,2-Dichloropropane	N.D.	.2	ppbv					
Methyl Methacrylate	N.D.	.2	ppbv					
Dibromomethane	N.D.	.2	ppbv					
1,4-Dioxane	N.D.	.2	ppbv					
Bromodichloromethane	N.D.	.2	ppbv					
cis-1,3-Dichloropropene	N.D.	.2	ppbv					

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

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Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 04/26/01 at 11:18 PM

Group Number: 758813

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methyl-2-Pentanone	N.D.	.5	ppbv					
Toluene	N.D.	.2	ppbv					
Octane	N.D.	.2	ppbv					
trans-1,3-Dichloropropene	N.D.	.2	ppbv					
Ethyl Methacrylate	N.D.	.2	ppbv					
1,1,2-Trichloroethane	N.D.	.2	ppbv					
Tetrachloroethene	N.D.	.2	ppbv					
2-Hexanone	N.D.	.5	ppbv					
Dibromochloromethane	N.D.	.2	ppbv					
1,2-Dibromoethane	N.D.	.2	ppbv					
Chlorobenzene	N.D.	.2	ppbv					
1,1,1,2-Tetrachloroethane	N.D.	.2	ppbv					
Ethylbenzene	N.D.	.2	ppbv	94		61-171		
m/p-Xylene	N.D.	.2	ppbv					
o-Xylene	N.D.	.2	ppbv					
Styrene	N.D.	.2	ppbv					
Bromoform	N.D.	.2	ppbv					
Cumene	N.D.	.2	ppbv					
1,1,2,2-Tetrachloroethane	N.D.	.2	ppbv					
1,2,3-Trichloropropane	N.D.	.2	ppbv					
Bromobenzene	N.D.	.2	ppbv					
4-Ethyltoluene	N.D.	.2	ppbv					
1,3,5-Trimethylbenzene	N.D.	.2	ppbv					
Alpha Methyl Styrene	N.D.	.2	ppbv					
1,2,4-Trimethylbenzene	N.D.	.2	ppbv					
1,3-Dichlorobenzene	N.D.	.5	ppbv					
1,4-Dichlorobenzene	N.D.	.5	ppbv	87		48-137		
Benzyl chloride	N.D.	.2	ppbv					
1,2-Dichlorobenzene	N.D.	.5	ppbv					
Hexachloroethane	N.D.	.2	ppbv					
1,2,4-Trichlorobenzene	N.D.	1.	ppbv					
Hexachlorobutadiene	N.D.	.5	ppbv					

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

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10160 / 3591621-22

DAIMLERCHRYSLER BUILDING 50 SVE TEST Chain-of-Custody

0085 B

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17601 Phone Number: (717) 656-2300 Fax Number: (717) 656-2681	Project Name: DAYTON THERMAL PRODUCTS Site Location: DAYTON, OH Site Code: SC001 RFA Number: YGQP2001 213 DaimlerChrysler PM: GARY STANCZUK	Consultant: LBG Address: 1210 W COUNTY RD E. STE 700 St. PAUL, MN 55112 Consultant PM KEN VOGEL Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request: (circle)
24 calendar hrs.
48 calendar hrs.
7 calendar days
14 calendar days

Data Package Deliverables: (circle)
DaimlerChrysler Level 1
DaimlerChrysler Level 2
CLP

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil SW - Surface Water
GW - Groundwater A - Air
Sed. - Sediment
O - Other (specify)

Are aqueous samples field filtered for metals? Yes No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	TO14A w/ LIBRARY SEARCH								Remarks
SVE-13S	4-13-01	11:36	G	A	1	X								LIBRARY SEARCH, SUMMA 178
SVE-13D	4-14-01	11:33	G	A	1	X								" , SUMMA 0003

Sampler(s): LYNDSEY ALM

Cooler ID #: LANCASTER BOX

Samples Relinquished under Airbill No. 824181891790

Temperature (corrected) ___ C

Relinquished by	Date	Time	Received by	Date	Time	Custody Seal Intact?
Lyndsey Alm	4/14/01	fedex				Yes No
Relinquished by:	Date:	Time:	Received for Laboratory by: Deborah A Nesch	4/16/01	0940	Custody Seal Intact? Yes No

Is RFA sampling complete? Yes No

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

MAY -2 2001

Revision No. 3
Created: July 9, 1999

MAY - 2 2001

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Electronic Data Deliverables

10160 - DaimlerChrysler Corporation

SDG: DCI04 Dayton Thermal Bldg 50 SVE Pilot/Dayton, OH

Sample Reference List for EDD File C3591435.TXT

Laboratory Sample No.	Laboratory Group No.	Sample Description		Collected
3591435	**758768**	SVE-14S Summa Canister #0085	Site Code: SC001 RFA#: YGQP2001213	04/12/01 13:33
3591436		SVE-14D Summa Canister #0038	Site Code: SC001 RFA#: YGQP2001213	04/13/01 10:34

Analysis Report

Lancaster Laboratories
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MAY -2 2001

ANALYTICAL RESULTS

Prepared for:

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 758768. Samples arrived at the laboratory on Saturday, April 14, 2001. The PO# for this group is N99C403749-B and the release number is YGQP2001213.

Client Description	Lancaster Labs Number
SVE-14S Summa Canister #0085	3591435
SVE-14D Summa Canister #0038	3591436

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Leggette, Brashears & Graham Attn: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Gwen A. Birchall at (717) 656-2300.

Respectfully Submitted,

Robert E. Mellinger
Sr Chemist/Coordinator

Lancaster Laboratories
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MAY -2 2001

Lancaster Laboratories Sample No. AQ 3591435

Collected:04/12/2001 13:33 by GS

Account Number: 10160

Submitted: 04/14/2001 10:00
Reported: 04/26/01 at 11:10 PM
Discard: 6/26/01
SVE-14S Summa Canister #0085
Site Code: SC001 RFA#: YGQP2001213
Dayton Thermal Bldg 50 SVE Pilot/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SV14S SDG#: DCI04-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07199	TO 14 VOA Extended List	EPA Method TO14	1	04/19/2001 06:23	Matthew S. Thomas	333
07199	TO 14 VOA Extended List	EPA Method TO14	1	04/19/2001 07:06	Matthew S. Thomas	50
07200	TO 14 VOA Extended List cont.	EPA Method TO14	1	04/19/2001 06:23	Matthew S. Thomas	333
07200	TO 14 VOA Extended List cont.	EPA Method TO14	1	04/19/2001 07:06	Matthew S. Thomas	50

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VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: SV14S
Lab Sample ID: 3591435
Canister ID: SUMMA0085
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/12/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.1 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\2501011.D

Date Received: 04/14/01
Time Analyzed: 07:06
Final Pressure: 28.2 psia
Dilution Factor: 50.0

UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
No Tentatively Identified Compounds were detected in this sample.				

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

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ENTERED IN DATABASE
BY/DATE LJA 4-26-01
CHECKED BY RLM
DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV14S
Lab Sample ID: 3591435
Canister ID: SUMMA0085
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/12/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.1 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\2501011.D

Date Received: 04/14/01
Time Analyzed: 07:06
Final Pressure: 28.2 psia
Dilution Factor: 50.0

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
115-07-1	Propene	10	U
75-71-8	Dichlorodifluoromethane	10	U
75-45-6	Chlorodifluoromethane	50	U
76-14-2	Freon 114	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
106-99-0	1,3-Butadiene	50	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-43-4	Dichlorofluoromethane	10	U
75-69-4	Trichlorofluoromethane	10	U
109-66-0	Pentane	10	U
107-02-8	Acrolein	25	U
75-35-4	1,1-Dichloroethene	510	D
76-13-1	Freon 113	67	D
67-64-1	Acetone	50	U
74-88-4	Methyl Iodide	10	U
75-15-0	Carbon Disulfide	25	U
75-05-8	Acetonitrile	25	U
107-05-1	3-Chloropropene	25	U
75-09-2	Methylene Chloride	25	U
75-65-0	tert-Butyl Alcohol	45	J D
107-13-1	Acrylonitrile	25	U
156-60-5	trans-1,2-Dichloroethene	180	D
1634-04-4	Methyl t-Butyl Ether	10	U
110-54-3	Hexane	10	U
75-34-3	1,1-Dichloroethane	670	D
108-05-4	Vinyl Acetate	10	U
156-59-2	cis-1,2-Dichloroethene	9000	D
78-93-3	2-Butanone	25	U
141-78-6	Ethyl Acetate	10	U
96-33-3	Methyl Acrylate	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	15000	D

U = Compound was undetected at the specified limit of quantitation.
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J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

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ENTERED IN DATABASE
BY/DATE LJA 4-26-01
CHECKED BY MLM
DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV14S Date Collected: 04/12/01 Date Received: 04/14/01
Lab Sample ID: 3591435 Date Analyzed: 04/19/01 Time Analyzed: 07:06
Canister ID: SUMMA0085 Pressure Rec'd: 14.1 psia Final Pressure: 28.2 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 50.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\APR18\2501011.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
56-23-5	Carbon Tetrachloride	10	U
107-06-2	1,2-Dichloroethane	10	U
71-43-2	Benzene	10	U
540-84-1	Isooctane	10	U
142-82-5	Heptane	10	U
79-01-6	Trichloroethene	4400	D
140-88-5	Ethyl Acrylate	10	U
78-87-5	1,2-Dichloropropane	10	U
80-62-6	Methyl Methacrylate	10	U
74-95-3	Dibromomethane	10	U
123-91-1	1,4-Dioxane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	25	U
108-88-3	Toluene	10	U
111-65-9	Octane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
97-63-2	Ethyl Methacrylate	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	27000	D
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	15	J D
630-20-6	1,1,1,2-Tetrachloroethane	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m/p-Xylene	10	U
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Cumene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
108-86-1	Bromobenzene	10	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

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Lancaster Laboratories, Inc.
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ENTERED IN DATABASE
BY/DATE LSA 4-26-01
CHECKED BY MLM
DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV14S
Lab Sample ID: 3591435
Canister ID: SUMMA0085
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/12/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.1 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\2501011.D

Date Received: 04/14/01
Time Analyzed: 07:06
Final Pressure: 28.2 psia
Dilution Factor: 50.0

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
622-96-8	4-Ethyltoluene	10	U
108-67-8	1,3,5-Trimethylbenzene	10	U
98-83-9	Alpha Methyl Styrene	10	U
95-63-6	1,2,4-Trimethylbenzene	10	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
100-44-7	Benzyl chloride	10	U
95-50-1	1,2-Dichlorobenzene	25	U
67-72-1	Hexachloroethane	10	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	25	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

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MAY -2 2001

Lancaster Laboratories Sample No. AQ 3591436

Collected:04/13/2001 10:34 by GS

Account Number: 10160

Submitted: 04/14/2001 10:00
Reported: 04/26/01 at 11:10 PM
Discard: 6/26/01
SVE-14D Summa Canister #0038
Site Code: SC001 RFA#: YGQP2001213
Dayton Thermal Bldg 50 SVE Pilot/Dayton, OH

DaimlerChrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SV14D SDG#: DCI04-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
07199	TO 14 VOA Extended List	EPA Method TO14	1	04/19/2001 07:49	Matthew S. Thomas	667
07199	TO 14 VOA Extended List	EPA Method TO14	1	04/19/2001 08:33	Matthew S. Thomas	100
07200	TO 14 VOA Extended List cont.	EPA Method TO14	1	04/19/2001 07:49	Matthew S. Thomas	667
07200	TO 14 VOA Extended List cont.	EPA Method TO14	1	04/19/2001 08:33	Matthew S. Thomas	100

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VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
TENTATIVELY IDENTIFIED COMPOUNDS

Sample No.: SV14D
Lab Sample ID: 3591436
Canister ID: SUMMA0038
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/12/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.7 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\2701013.D

Date Received: 04/14/01
Time Analyzed: 08:33
Final Pressure: 29.4 psia
Dilution Factor: 100.0

UNITS = ppb(v)

CAS RN	COMPOUND NAME	R.T.	ESTIMATED CONCENTRATION	Q
No Tentatively Identified Compounds were detected in this sample.				

B = Compound was found in method blank. D = analysis of diluted sample.
J = Estimated concentration assuming identical response factor to that of the internal standard with retention time closest to the TIC.

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DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV14D
Lab Sample ID: 3591436
Canister ID: SUMMA0038
Injection Volume: 500 cc
Instrument ID: HP4224

Date Collected: 04/12/01
Date Analyzed: 04/19/01
Pressure Rec'd: 14.7 psia
Nominal Volume: 250 cc
Lab File ID: C:\HPCHEM\1\DATA\APR18\2701013.D

Date Received: 04/14/01
Time Analyzed: 08:33
Final Pressure: 29.4 psia
Dilution Factor: 100.0

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
115-07-1	Propene	20	U
75-71-8	Dichlorodifluoromethane	20	U
75-45-6	Chlorodifluoromethane	100	U
76-14-2	Freon 114	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl Chloride	20	U
106-99-0	1,3-Butadiene	100	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-43-4	Dichlorofluoromethane	20	U
75-69-4	Trichlorofluoromethane	20	U
109-66-0	Pentane	20	U
107-02-8	Acrolein	50	U
75-35-4	1,1-Dichloroethene	760	D
76-13-1	Freon 113	120	D
67-64-1	Acetone	100	U
74-88-4	Methyl Iodide	20	U
75-15-0	Carbon Disulfide	50	U
75-05-8	Acetonitrile	50	U
107-05-1	3-Chloropropene	50	U
75-09-2	Methylene Chloride	50	U
75-65-0	tert-Butyl Alcohol	53	J D
107-13-1	Acrylonitrile	50	U
156-60-5	trans-1,2-Dichloroethene	290	D
1634-04-4	Methyl t-Butyl Ether	20	U
110-54-3	Hexane	20	U
75-34-3	1,1-Dichloroethane	1100	D
108-05-4	Vinyl Acetate	20	U
156-59-2	cis-1,2-Dichloroethene	16000	D
78-93-3	2-Butanone	50	U
141-78-6	Ethyl Acetate	20	U
96-33-3	Methyl Acrylate	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	25000	D

U = Compound was undetected at the specified limit of quantitation.
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J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

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ENTERED IN DATABASE
BY/DATE LDK 4-26-01
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DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV14D Date Collected: 04/12/01 Date Received: 04/14/01
Lab Sample ID: 3591436 Date Analyzed: 04/19/01 Time Analyzed: 08:33
Canister ID: SUMMA0038 Pressure Rec'd: 14.7 psia Final Pressure: 29.4 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 100.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\APR18\2701013.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
56-23-5	Carbon Tetrachloride	20	U
107-06-2	1,2-Dichloroethane	20	U
71-43-2	Benzene	20	U
540-84-1	Isooctane	20	U
142-82-5	Heptane	20	U
79-01-6	Trichloroethene	6300	D
140-88-5	Ethyl Acrylate	20	U
78-87-5	1,2-Dichloropropane	20	U
80-62-6	Methyl Methacrylate	20	U
74-95-3	Dibromomethane	20	U
123-91-1	1,4-Dioxane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-Pentanone	50	U
108-88-3	Toluene	20	U
111-65-9	Octane	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
97-63-2	Ethyl Methacrylate	20	U
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	39000	D
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	280	D
630-20-6	1,1,1,2-Tetrachloroethane	20	U
100-41-4	Ethylbenzene	20	U
1330-20-7	m/p-Xylene	21	J D
95-47-6	o-Xylene	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Cumene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
96-18-4	1,2,3-Trichloropropane	20	U
108-86-1	Bromobenzene	20	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.
NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

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Lancaster Laboratories, Inc.
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ENTERED IN DATABASE
BY/DATE LJA 4-26-01
CHECKED BY NUM
DATE 4/30/01

VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: SV14D Date Collected: 04/12/01 Date Received: 04/14/01
Lab Sample ID: 3591436 Date Analyzed: 04/19/01 Time Analyzed: 08:33
Canister ID: SUMMA0038 Pressure Rec'd: 14.7 psia Final Pressure: 29.4 psia
Injection Volume: 500 cc Nominal Volume: 250 cc Dilution Factor: 100.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\APR18\2701013.D

CAS RN	COMPOUND NAME	CONCENTRATION (ppb(v))	Q
622-96-8	4-Ethyltoluene	20	U
108-67-8	1,3,5-Trimethylbenzene	20	U
98-83-9	Alpha Methyl Styrene	20	U
95-63-6	1,2,4-Trimethylbenzene	20	U
541-73-1	1,3-Dichlorobenzene	50	U
106-46-7	1,4-Dichlorobenzene	50	U
100-44-7	Benzyl chloride	20	U
95-50-1	1,2-Dichlorobenzene	50	U
67-72-1	Hexachloroethane	20	U
120-82-1	1,2,4-Trichlorobenzene	100	U
87-68-3	Hexachlorobutadiene	50	U

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NOTE: Limits of detection were raised due to the high concentration of volatile organic compounds in this sample.

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Lancaster Laboratories, Inc.
2425 New Holland Pike
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Lancaster, PA 17605-2425
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MAY -2 2001

Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 04/26/01 at 11:10 PM

Group Number: 758768

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A011091AA	Sample number(s): 3591435-3591436							
Tertiary butyl alcohol	N.D.	.2	ppbv					
Propene	N.D.	.2	ppbv					
Dichlorodifluoromethane	N.D.	.2	ppbv					
Chlorodifluoromethane	N.D.	1.	ppbv					
Freon 114	N.D.	.2	ppbv					
Chloromethane	N.D.	.2	ppbv					
Vinyl Chloride	N.D.	.2	ppbv	96		42-168		
1,3-Butadiene	N.D.	1.	ppbv					
Bromomethane	N.D.	.2	ppbv					
Chloroethane	N.D.	.2	ppbv					
Dichlorofluoromethane	N.D.	.2	ppbv					
Trichlorofluoromethane	N.D.	.2	ppbv					
Pentane	N.D.	.2	ppbv					
Acrolein	N.D.	.5	ppbv					
1,1-Dichloroethene	N.D.	.2	ppbv					
Freon 113	N.D.	.5	ppbv					
Acetone	N.D.	1.	ppbv					
Methyl Iodide	N.D.	.2	ppbv					
Carbon Disulfide	N.D.	.5	ppbv					
Acetonitrile	N.D.	.5	ppbv					
3-Chloropropene	N.D.	.2	ppbv					
Methylene Chloride	N.D.	.5	ppbv					
Acrylonitrile	N.D.	.5	ppbv					
trans-1,2-Dichloroethene	N.D.	.2	ppbv					
Methyl t-Butyl Ether	N.D.	.2	ppbv					
Hexane	N.D.	.2	ppbv					
1,1-Dichloroethane	N.D.	.2	ppbv					
Vinyl Acetate	N.D.	.2	ppbv					
cis-1,2-Dichloroethene	N.D.	.2	ppbv					
2-Butanone	N.D.	.5	ppbv					
Ethyl Acetate	N.D.	.2	ppbv					
Methyl Acrylate	N.D.	.2	ppbv					
Chloroform	N.D.	.2	ppbv					
1,1,1-Trichloroethane	N.D.	.2	ppbv	112		62-182		
Carbon Tetrachloride	N.D.	.2	ppbv					
1,2-Dichloroethane	N.D.	.2	ppbv					
Benzene	N.D.	.2	ppbv	103		58-174		
Isooctane	N.D.	.2	ppbv					
Heptane	N.D.	.2	ppbv					
Trichloroethene	N.D.	.2	ppbv	84		56-157		
Ethyl Acrylate	N.D.	.2	ppbv					
1,2-Dichloropropane	N.D.	.2	ppbv					
Methyl Methacrylate	N.D.	.2	ppbv					
Dibromomethane	N.D.	.2	ppbv					
1,4-Dioxane	N.D.	.2	ppbv					
Bromodichloromethane	N.D.	.2	ppbv					
cis-1,3-Dichloropropene	N.D.	.2	ppbv					

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

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Quality Control Summary

Client Name: DaimlerChrysler Corporation
Reported: 04/26/01 at 11:10 PM

Group Number: 758768

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methyl-2-Pentanone	N.D.	.5	ppbv					
Toluene	N.D.	.2	ppbv					
Octane	N.D.	.2	ppbv					
trans-1,3-Dichloropropene	N.D.	.2	ppbv					
Ethyl Methacrylate	N.D.	.2	ppbv					
1,1,2-Trichloroethane	N.D.	.2	ppbv					
Tetrachloroethene	N.D.	.2	ppbv					
2-Hexanone	N.D.	.5	ppbv					
Dibromochloromethane	N.D.	.2	ppbv					
1,2-Dibromoethane	N.D.	.2	ppbv					
Chlorobenzene	N.D.	.2	ppbv					
1,1,1,2-Tetrachloroethane	N.D.	.2	ppbv					
Ethylbenzene	N.D.	.2	ppbv	94		61-171		
m/p-Xylene	N.D.	.2	ppbv					
o-Xylene	N.D.	.2	ppbv					
Styrene	N.D.	.2	ppbv					
Bromoform	N.D.	.2	ppbv					
Cumene	N.D.	.2	ppbv					
1,1,2,2-Tetrachloroethane	N.D.	.2	ppbv					
1,2,3-Trichloropropane	N.D.	.2	ppbv					
Bromobenzene	N.D.	.2	ppbv					
4-Ethyltoluene	N.D.	.2	ppbv					
1,3,5-Trimethylbenzene	N.D.	.2	ppbv					
Alpha Methyl Styrene	N.D.	.2	ppbv					
1,2,4-Trimethylbenzene	N.D.	.2	ppbv					
1,3-Dichlorobenzene	N.D.	.5	ppbv					
1,4-Dichlorobenzene	N.D.	.5	ppbv	87		48-137		
Benzyl chloride	N.D.	.2	ppbv					
1,2-Dichlorobenzene	N.D.	.5	ppbv					
Hexachloroethane	N.D.	.2	ppbv					
1,2,4-Trichlorobenzene	N.D.	1.	ppbv					
Hexachlorobutadiene	N.D.	.5	ppbv					

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

MEMBER ACIL
Lancaster Laboratories, Inc.
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DAIMLERCHRYSLER BUILDING 50 SVE TEST Chain-of-Custody

0084 B

ALC # 10160 CC # 3591435-6

Lancaster Laboratories	Project Name: DAYTON THERMAL PRODUCTS	Consultant: LBG	
2425 New Holland Pike	Site Location: DAYTON, OH	Address: 1210 W. COUNTY RD E. Ste 700	
Lancaster, PA 17601	Site Code: SC001	St. Paul, MN 55112	
Phone Number: (717) 656-2300	RFA Number: YGQP 2001 213	Consultant PM KEN VOGEL	
Fax Number: (717) 656-2681	DaimlerChrysler PM: GARY STANCZUK	Phone: 651-490-1405	Fax: 651-490-1006

Turn-around Time Request: (circle)
24 calendar hrs.
48 calendar hrs.
~~7 calendar days~~
14 calendar days

Data Package Deliverables: (circle)
DaimlerChrysler Level 1
~~DaimlerChrysler Level 2~~
CLP

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil SW - Surface Water
GW - Groundwater A - Air
Sed. - Sediment
O - Other (specify)

Are aqueous samples field filtered for metals? Yes No

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	TO 14 A w/ LIBRARY SEARCH								Remarks
SVE-14S	4.12.01	13:33	G	A	1	X								LIBRARY SEARCH, Summa 0085
SVE-14D	4.13.01	10:34	G	A	1	X								" , Summa 0088

Sampler(s) LYNDSEY ALM

Cooler ID # LANCASTER BOX

Samples Relinquished under Airbill No. 824181891789

Temperature (corrected) ___ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Lyndsey Alm	4.13.01	fed ex				Yes No
Relinquished by:	Date:	Time:	Received for Laboratory by:	Date:	Time:	Custody Seal Intact?
			T. Carlson	4/20	1000	Yes No

Is RFA sampling complete? Yes No

DaimlerChrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

MAY - 2 2001

Revision No. 3
Created. July 9, 1999

ENTERED May 7-1998 RAC
Checked MPH 5/12/98

TABLE 13

DAYTON THERMAL PRODUCTS PLANT
DAYTON, OH

AIR ANALYTICAL DATA

Compound	SVE-1S		SVE-1D		AS/SVE-end Air	
	PPMv	mg/m^3	PPMv	mg/m^3	PPMv	mg/m^3
1,1-DCE	16	70	19	83	25	260
1,1-DCA	3.4	15	4.3	19	5.7	25
cis-1,2-DCE	11	46	8.8	38	11	49
1,1,1-TCA	8.4	50	6.7	40	9.1	54
TCE	60	350	43	250	58	340
PCE	3.9	29	5.8	43	9.3	69

Notes:
Air samples collected during pilot test conducted on 3/20/98.

1,1-DCE	1,1-Dichloroethene
1,1-DCA	1,1-Dichloroethane
cis-1,2-DCE	cis-1,2-Dichloroethene
1,1,1-TCA	1,1,1-Trichloroethane
TCE	Trichloroethene
PCE	Tetrachloroethene
PPMv	Parts per million by volume
mg/m^3	Milligrams per cubic meter

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 23-Mar-98

Analytical Report No: 98-034

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products Plant
Sample collection/analysis date: 3/18/98 - 3/19/98

Sample I.D.:	SVE-1S	SVE-1S	SVE-1D	SVE-1D
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Analytes: 8260 + MDH 465D				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	**70**	**16**	**83**	**19**
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**15**	**3.4**	**19**	**4.3**
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**46**	**11**	**38**	**8.8**
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**50**	**8.4**	**40**	**6.7**
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**350**	**60**	**250**	**43**
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**29**	**3.9**	**43**	**5.8**
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 23-Mar-98

Analytical Report No: 98-034

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products Plant
Sample collection/analysis date: 3/18/98 - 3/19/98

Sample I.D.:	SVE-1S	SVE-1S	SVE-1D	SVE-1D
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Analytes: 8260 + MDH 465D				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC PID/FID/ELCD (EPA method 18) modified TO-14 for 8260 analytes.
ND = not detected

Approved by,

Bruce J. Nasser
Analytical Services

Reviewed by,

Richard R. Dahl
Analytical Chemist

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date:	31-Mar-98
Analytical Report No:	98-046
Client Name:	Leggette Brashears & Graham, Inc.
Address:	1210 W County Road E
City, State Zip:	St. Paul, Minnesota 55112
Project Name:	Dayton Thermal Products Plant
Sample collection/analysis date:	3/20/98 - 3/27/98

Sample I.D.:	AS/SVE-end	AS/SVE-end
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	0.1PPMv
ANALYTES: 8260 + MDH 465D		
(F12) Dichlorodifluoromethane	ND	ND
Chloromethane	ND	ND
Vinyl Chloride	ND	ND
Bromomethane	ND	ND
Chloroethane	ND	ND
(F21) Dichlorofluoromethane	ND	ND
(F11) Trichlorofluoromethane	ND	ND
Ethyl Ether	ND	ND
1,1- Dichloroethene	**260**	**25**
(F13) Trichlorotrifluoroethane	ND	ND
Acetone	ND	ND
Allyl Chloride	ND	ND
Methylene Chloride	ND	ND
trans-1,2-Dichloroethene	ND	ND
Methyl tert-butyl ether	ND	ND
1,1-Dichloroethane	**25**	**5.7**
2,2-Dichloropropane	ND	ND
cis-1,2-Dichloroethene	**49**	**11**
Methyl Ethyl Ketone	ND	ND
Bromochloromethane	ND	ND
Tetrahydrofuran	ND	ND
Chloroform	ND	ND
1,1,1-Trichloroethane	**54**	**9.1**
1,1-Dichloropropene	ND	ND
Carbon tetrachloride	ND	ND
Benzene	ND	ND
1,2-Dichloroethane	ND	ND
Trichloroethene	**340**	**58**
1,2-Dichloropropane	ND	ND
Dibromomethane	ND	ND
Bromodichloromethane	ND	ND
cis-1,3-Dichloropropene	ND	ND
Methyl Isobutyl Ketone	ND	ND
Toluene	ND	ND
trans-1,3-Dichloropropene	ND	ND
1,1,2-Trichloroethane	ND	ND
Tetrachloroethene	**69**	**9.3**
1,3-Dichloropropane	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Mar-98

Analytical Report No: 98-046

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products Plant
Sample collection/analysis date: 3/20/98 - 3/27/98

Sample I.D.:	AS/SVE-end	AS/SVE-end
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	0.1PPMv
ANALYTES: 8260 + MDH 465D		
Dibromochloromethane	ND	ND
1,2-Dibromoethane	ND	ND
Chlorobenzene	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND
Ethylbenzene	ND	ND
Xylenes	ND	ND
Styrene	ND	ND
Bromoform	ND	ND
Isopropylbenzene	ND	ND
Bromobenzene	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND
1,2,3-Trichloropropane	ND	ND
n-Propylbenzene	ND	ND
2-Chlorotoluene	ND	ND
1,3,5-Trimethylbenzene	ND	ND
4-Chlorotoluene	ND	ND
tert-Butylbenzene	ND	ND
1,2,4-Trimethylbenzene	ND	ND
sec-Butylbenzene	ND	ND
1,3-Dichlorobenzene	ND	ND
p-Isopropyltoluene	ND	ND
1,4-Dichlorobenzene	ND	ND
1,2-Dichlorobenzene	ND	ND
n-Butylbenzene	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND
1,2,4-Trichlorobenzene	ND	ND
Hexachlorobutadiene	ND	ND
Naphthalene	ND	ND
1,2,3-Trichlorobenzene	ND	ND

Analysis by GC PID/FID/ELCD (EPA method 18) modified TO-14 for 8260 analytes.
ND = not detected

Approved by,

Bruce J. Nasser
Analytical Services

Approved by,

Richard F. Dahl
Analytical Chemist

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1[illegible]
(612) 780-9787 • FAX (612) 780-7157

Report Date: 23-Mar-98

Analytical Report No: 98-034

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products Plant
Sample collection/analysis date: 3/18/98 - 3/19/98

Sample I.D.:	SVE-1S	SVE-1S	SVE-1D	SVE-1D
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Analytes: 8260 + MDH 465D				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	**70**	**16**	**83**	**19**
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**15**	**3.4**	**19**	**4.3**
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**46**	**11**	**38**	**8.8**
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**50**	**8.4**	**40**	**6.7**
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**350**	**60**	**250**	**43**
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**29**	**3.9**	**43**	**5.8**
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1[illegible]
(612) 780-9787 • FAX (612) 780-7[illegible]

Field Monitoring and Testing Services

Report Date: 23-Mar-98

Analytical Report No: 98-034

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products Plant
Sample collection/analysis date: 3/18/98 - 3/19/98

Sample I.D.:	SVE-1S	SVE-1S	SVE-1D	SVE-1D
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Analytes: 8260 + MDH 465D				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC FID/FID/ELCD (EPA method 18) modified TO-14 for 8260 analytes.
ND = not detected

Approved by:

Bruce J. Nasser
Analytical Services

Reviewed by:

Richard R. Dahl
Analytical Chemist

CHRYSLER CORPORATION

034

Chain-of-Custody

00934 A

Precision Environmental

Compuchem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products Plant
Site Location: Dayton OH
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanozak

Consultant: Leggette Brashears & Graham Inc.
Address: 1210 W County Road E
St Paul, MN 55112
Consultant PM: Ken Vogel
Phone: 612 490 1405 Fax: 612 490 1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Lab Use Only

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260 plus Vinyl Chloride list	Volatiles pH <2	Metals pH <2	Cyanide pH >12	Other	Remarks
SVE-1S	3/18/98	9:05				X				-1	After SVE Blower
SVE-1D	3/18/98	11:15				X				-2	After SVE Blower

Suma Canister
Canister serial #s
SVE-1S = 14247
SVE-1D = 14237

Sampler(s)
Brad Granley
Kristen Yahnke

Cooler ID # _____

Is RFA sampling complete? Yes No

Bottles Reliquished under Airbill No. ~~8024953366~~

Samples Relinquished under Airbill No. ~~8024953366~~

Temperature (corrected) ___ C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Brad Granley	3/18/98	1245				Yes No
						Yes No
			Received for Laboratory by: [signature]	3-19-98	1030	Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Revision No. 1
Created September 23, 1997

Page 1 of 1

PRECISION
ENVIRONMENTAL

Field Monitoring and Testing Services

FACSIMILE TRANSMITTAL

8251 Main Street Northeast
Minneapolis, Minnesota 55432
(612) 780-9787
Fax (612) 780-7157

Fax Number: (612) 490-1006

Total Pages: 4

Date: 03/23/98

Company: LBG

Attention: Kristen Yahnke

From: Bruce Nasser

Subject: Results

Message:

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

[illegible] Main Street [illegible]
Minneapolis, Minnesota 55[illegible]
[illegible] 730-9737 • FAX 612, 730-[illegible]

Report Date:	31-Mar-98
Analytical Report No:	98-046
Client Name:	Leggette Brashears & Graham, Inc.
Address:	1210 W County Road E
City, State Zip:	St. Paul, Minnesota 55112
Project Name:	Dayton Thermal Products Plant
Sample collection/analysis date:	3/20/98 - 3/27/98

Sample I.D.:	AS/SVE-end	AS/SVE-end
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	0.1PPMv
ANALYTES: 8260 + MDH 465D		
(F12) Dichlorodifluoromethane	ND	ND
Chloromethane	ND	ND
Vinyl Chloride	ND	ND
Bromomethane	ND	ND
Chloroethane	ND	ND
(F21) Dichlorofluoromethane	ND	ND
(F11) Trichlorofluoromethane	ND	ND
Ethyl Ether	ND	ND
1,1- Dichloroethene	**260**	**25**
(F13) Trichlorotrifluoroethane	ND	ND
Acetone	ND	ND
Allyl Chloride	ND	ND
Methylene Chloride	ND	ND
trans-1,2-Dichloroethene	ND	ND
Methyl tert-butyl ether	ND	ND
1,1-Dichloroethane	**25**	**5.7**
2,2-Dichloropropane	ND	ND
cis-1,2-Dichloroethene	**49**	**11**
Methyl Ethyl Ketone	ND	ND
Bromochloromethane	ND	ND
Tetrahydrofuran	ND	ND
Chloroform	ND	ND
1,1,1-Trichloroethane	**54**	**9.1**
1,1-Dichloropropene	ND	ND
Carbon tetrachloride	ND	ND
Benzene	ND	ND
1,2-Dichloroethane	ND	ND
Trichloroethene	**340**	**58**
1,2-Dichloropropane	ND	ND
Dibromomethane	ND	ND
Bromodichloromethane	ND	ND
cis-1,3-Dichloropropene	ND	ND
Methyl Isobutyl Ketone	ND	ND
Toluene	ND	ND
trans-1,3-Dichloropropene	ND	ND
1,1,2-Trichloroethane	ND	ND
Tetrachloroethene	**69**	**9.3**
1,3-Dichloropropane	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

[illegible] Main Street [illegible]
Minneapolis, Minnesota 55[illegible]
612) 780-9787 • FAX (612) 780-[illegible]

Report Date: 31-Mar-98

Analytical Report No: 98-046

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products Plant
Sample collection/analysis date: 3/20/98 - 3/27/98

Sample I.D.:	AS/SVE-end	AS/SVE-end
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	0.1PPMv
ANALYTES: 8260 + MDH 465D		
Dibromochloromethane	ND	ND
1,2-Dibromoethane	ND	ND
Chlorobenzene	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND
Ethylbenzene	ND	ND
Xylenes	ND	ND
Styrene	ND	ND
Bromoform	ND	ND
Isopropylbenzene	ND	ND
Bromobenzene	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND
1,2,3-Trichloropropane	ND	ND
n-Propylbenzene	ND	ND
2-Chlorotoluene	ND	ND
1,3,5-Trimethylbenzene	ND	ND
4-Chlorotoluene	ND	ND
tert-Butylbenzene	ND	ND
1,2,4-Trimethylbenzene	ND	ND
sec-Butylbenzene	ND	ND
1,3-Dichlorobenzene	ND	ND
p-Isopropyltoluene	ND	ND
1,4-Dichlorobenzene	ND	ND
1,2-Dichlorobenzene	ND	ND
n-Butylbenzene	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND
1,2,4-Trichlorobenzene	ND	ND
Hexachlorobutadiene	ND	ND
Naphthalene	ND	ND
1,2,3-Trichlorobenzene	ND	ND

Analysis by GC PID/FID/ELCD (EPA method 18) modified TO-14 for 8260 analytes.
ND = not detected

Approved by,

Bruce J. Nasser
Analytical Services

Approved by,

Richard F. Dahl
Analytical Chemist

CHRYSLER CORPORATION

Chain-of-Custody

000094 A

~~CompuChem~~ Precision Labs ~~501 Madison Avenue~~ ~~Cary, NC 27513~~ Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: Dayton Thermal Products Site Location: Dayton, Ohio Site Code: SC001 RFA Number: Chrysler PM: Gary Stanozak	Consultant: Leggett, Brashears & Graham Address: 1210 W County Road E St Paul, MN 55112 Consultant PM: Ken Vogel Phone: 612 490 1405 Fax: 612 490 1026

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify)

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8020 plus Vinyl Chloride list								Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
AS/SVE-end	3/26/98	1615	G	A	1	X												

Sampler(s)	Bottles Reliquished under Airbill No.			Samples Relinquished under Airbill No.			Temperature (corrected) ____ C
Brad Granley	Relinquished by: Brad Granley	Date: 3/26/98	Time: 1400	Received by: [signature]	Date: 3/26/98	Time: 1400	Custody Seal Intact? Yes No
Cooler ID #	Relinquished by: [signature]	Date: 3/27/98	Time: 0745	Received by: [signature]	Date: 3/27/98	Time: 7:45	Custody Seal Intact? Yes No
Is RFA sampling complete? Yes No	Relinquished by:	Date:	Time:	Received for Laboratory by:	Date:	Time:	Custody Seal Intact? Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow : Retained by laboratory Pink: Retained by sampler

Revision No 1
Created September 23, 1997

Page ____ of ____

CHRYSLER CORPORATION

0341

Chain-of-Custody

00934 A

Company: Precision Environmental 701 Madison Avenue City: NC 27513 Phone Number: 1-800-433-5097 Fax Number: (919) 379-4050	Project Name: Dayton Thermal Products Plant Site Location: Dayton OH Site Code: SC001 RFA Number: Chrysler PM: Gary Stanozak	Consultant: Leggette Brashears & Graham Inc. Address: 1210 W County Road E St. Paul, MN 55112 Consultant PM: Ken Vogel Phone: 612 490 1405 Fax: 612 490 1000

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Other (specify):

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes:
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260 plus Vinyl Chloride list									Volatiles pH <2	Metals pH <2	Cyanide pH > 12	Other	Remarks
SVE-15	3/18/98	9:05				X												-1	After SVE Blower
SVE-10	3/18/98	11:15				X												-2	After SVE Blower

Lab Use Only: Summa Canister
Canister Serial #s
SVE-15 = 14242
SVE-10 = 14237

Sampler(s)	Bottles Relinquished under Airbill No. ~~5024953306~~			Samples Relinquished under Airbill No. ~~5024953306~~			Temperature (corrected) ___ C
Brad Granley Kristen Yahnke	Relinquished by: Brad Granley	Date: 3/18/98	Time: 1245	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Cooler ID # ___	Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Is RFA sampling complete? Yes No	Relinquished by:	Date:	Time:	Received for Laboratory by: [illegible]	Date: 3-19-98	Time: 1030	Custody Seal Intact? Yes No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Revision No. 1
Created: September 23, 1993

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TOTAL P.04

PRECISION
ENVIRONMENTAL

Field Monitoring and Testing Services

FACSIMILE TRANSMITTAL

8251 Main Street Northeast
Minneapolis, Minnesota 55432
(612) 780-9787
Fax (612) 780-7157

Fax Number: (612) 490-1006

Total Pages: 4

Date: 03/23/98

Company: LBG

Attention: Kristen Yahnke

From: Bruce Nasser

Subject: Results

Message:

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432 1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-11S-1	SVE-11S-1	SVE-9S-2	SVE-9S-2
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	**2.3**	**0.5**
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**1.0**	**0.2**	**31**	**7.2**
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	**5.5**	**0.9**
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**19**	**3.2**	**52**	**8.9**
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-11S-1	SVE-11S-1	SVE-9S-2	SVE-9S-2
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
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Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-10S-3	SVE-10S-3	SVE-8S-4	SVE-8S-4
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**2.5**	**0.6**	**13**	**3.0**
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**13**	**3.0**	**72**	**17**
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**4.4**	**0.7**	**4.8**	**0.8**
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**95**	**16**	**150**	**26**
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**1.6**	**0.2**	**92**	**12**
1,3-Dichloropropane	ND	ND	ND	ND

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8251 Main Street N.E.
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Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-10S-3	SVE-10S-3	SVE-8S-4	SVE-8S-4
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
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Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-6S-5	SVE-6S-5	SVE-1S-6	SVE-1S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**27**	**6.2**	**8.6**	**2.0**
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**91**	**21**	**28**	**6.5**
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**79**	**13**	**35**	**5.9**
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**580**	**99**	**200**	**34**
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**210**	**29**	**24**	**3.3**
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-6S-5	SVE-6S-5	SVE-1S-6	SVE-1S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-5S-7	SVE-5S-7	SVE-7S-8	SVE-7S-8
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**50**	**12**	**40**	**9.2**
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**150**	**35**	**60**	**14**
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**130**	**22**	**72**	**12**
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**810**	**140**	**280**	**48**
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**360**	**49**	**180**	**24**
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

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Minneapolis, Minnesota 55432-1849
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Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-5S-7	SVE-5S-7	SVE-7S-8	SVE-7S-8
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-12S-9	SVE-12S-9	SVE-2S-10	SVE-2S-10
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**2.5**	**0.6**	**3.5**	**0.8**
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**3.9**	**0.9**	**1.5**	**0.4**
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**7.0**	**1.2**	**2.5**	**0.4**
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**13**	**2.2**	**9.4**	**1.6**
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**4.7**	**0.6**	**16**	**2.2**
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-12S-9	SVE-12S-9	SVE-2S-10	SVE-2S-10
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-4S-11	SVE-4S-11	SVE-3S-12	SVE-3S-12
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**21**	**4.8**	**44**	**10**
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**46**	**11**	**130**	**30**
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**60**	**10**	**24**	**4**
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**380**	**65**	**170**	**29**
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**33**	**4.5**	**940**	**130**
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-4S-11	SVE-4S-11	SVE-3S-12	SVE-3S-12
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/17/98-8/24/98

Sample I.D.:	DPT-S4-13	DPT-S4-13
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD		
(F12) Dichlorodifluoromethane	ND	ND
Chloromethane	ND	ND
Vinyl Chloride	ND	ND
Bromomethane	ND	ND
Chloroethane	ND	ND
(F21) Dichlorofluoromethane	ND	ND
(F11) Trichlorofluoromethane	ND	ND
Ethyl Ether	ND	ND
1,1- Dichloroethene	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND
Acetone	ND	ND
Allyl Chloride	ND	ND
Methylene Chloride	ND	ND
trans-1,2-Dichloroethene	ND	ND
Methyl tert-butyl ether	ND	ND
1,1-Dichloroethane	**19**	**4.4**
2,2-Dichloropropane	ND	ND
cis-1,2-Dichloroethene	**38**	**8.9**
Methyl Ethyl Ketone	ND	ND
Bromochloromethane	ND	ND
Tetrahydrofuran	ND	ND
Chloroform	ND	ND
1,1,1-Trichloroethane	**23**	**3.9**
1,1-Dichloropropene	ND	ND
Carbon tetrachloride	ND	ND
Benzene	ND	ND
1,2-Dichloroethane	ND	ND
Trichloroethene	**160**	**27**
1,2-Dichloropropane	ND	ND
Dibromomethane	ND	ND
Bromodichloromethane	ND	ND
cis-1,3-Dichloropropene	ND	ND
Methyl Isobutyl Ketone	ND	ND
Toluene	ND	ND
trans-1,3-Dichloropropene	ND	ND
1,1,2-Trichloroethane	ND	ND
Tetrachloroethene	**180**	**24**
1,3-Dichloropropane	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/17/98-8/24/98

Sample I.D.:	DPT-S4-13	DPT-S4-13
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)		
Dibromochloromethane	ND	ND
1,2-Dibromoethane	ND	ND
Chlorobenzene	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND
Ethylbenzene	ND	ND
Xylenes	ND	ND
Styrene	ND	ND
Bromoform	ND	ND
Isopropylbenzene	ND	ND
Bromobenzene	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND
1,2,3-Trichloropropane	ND	ND
n-Propylbenzene	ND	ND
2-Chlorotoluene	ND	ND
1,3,5-Trimethylbenzene	ND	ND
4-Chlorotoluene	ND	ND
tert-Butylbenzene	ND	ND
1,2,4-Trimethylbenzene	ND	ND
sec-Butylbenzene	ND	ND
1,3-Dichlorobenzene	ND	ND
p-Isopropyltoluene	ND	ND
1,4-Dichlorobenzene	ND	ND
1,2-Dichlorobenzene	ND	ND
n-Butylbenzene	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND
1,2,4-Trichlorobenzene	ND	ND
Hexachlorobutadiene	ND	ND
Naphthalene	ND	ND
1,2,3-Trichlorobenzene	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,

Bruce J. Nasser
Analytical Services

Approved by,

David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

CHAIN OF CUSTODY RECORD

Record Number: 1 of 2 98-184

Client Name: CHRYSLER CORPORATION	Project Title: DAYTON THERMAL PRODUCTS
Address: 1600 WEBSTER STREET	Project Number: 3CHRY4/DAYTON
City, State Zip: DAYTON, OHIO 45404	Contact: KRISTIN YAHNKE

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	SVE-11S	Serial #14247 PID= 70.2	AIR	8/15/98	1
2	SVE-9S	Serial #14265 PID = 92.2	AIR	8/15/98	1
3	SVE-10S	Serial #13396 PID = 84.5	AIR	8/15/98	1
4	SVE-8S	Serial #14252 PID = 95.7	AIR	8/15/98	1
5	SVE-6S	Serial #14254 PID= 153.6	AIR	8/15/98	1
6	SVE-1S	Serial #14241 PID= 95.1	AIR	8/15/98	1
7	SVE-5S	Serial #14245 PID = 202.8	AIR	8/15/98	1
8	SVE-7S	Serial # 14239 PID = 93.8	AIR	8/15/98	1
9	SVE-12S	Serial #14236 PID= 46.1	AIR	8/15/98	1
10	SVE-2S	Serial # 14246 PID= 13.1	AIR	8/15/98	1

Samples Collected by: KSY	Delivered by: —	Date Delivered: —

Destination:	Send Original Report To: Kristin Yahnke LBG 1216 West County Road E St Paul, MN 55112 Ph (651) 490-1405 Fax 490-1006 NA	Send Copy Report To:
Contact:		
Date Due:		
Analysis Cost:		NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs - TO12	ug/L	X	X	X	X	X	X	X	X	X	X

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1-4	Kristin S Yahnke	Paul J Smith	8/18/98	2245509033
4-8	Kristin S Yahnke	Paul J Smith	8/18/98	2245509011
9-10	Kristin S Yahnke	Paul J Smith	8/18/98	2245509000

White- Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: KSY	Date Completed: 8/15/98	Present on Site: Yes

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

CHAIN OF CUSTODY RECORD

Record Number: 2 of 2 (98-184)

SVE-35

Client Name: Chrysler Corporation	Project Title: DAYTON THERMAL PRODUCTS
Address: 1600 Webster Street	Project Number: 3CHRY4/DAYTON
City, State Zip: Dayton, OH 45404	Contact: Kristin Yahnke

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
-11 1	SVE-4S	Serial # 14250 PID = 88.8	AIR	8/15/98	1
-12 2	SVE-5S	Serial # 14242 PID = 138	AIR	8/15/98	1
-13 3	DTP-54	Serial # 14256 PID = 60	AIR	8/17/98	1
4					
5					
6					
7					
8					
9					
10					

Samples Collected by: KSY	Delivered by: —	Date Delivered: —

Destination:	Send Original Report To: Kristin Yahnke LBG 1210 West County Road E St. Paul, MN 55112 (P)(651)490-1405 (F)(651)490-1006	Send Copy Report To: NA
Contact:		
Date Due:		
Analysis Cost:		

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs - TO12	ug/L	X	X	X	—	—	—	—	—	—	—

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1-2	Kristin S Yahnke	Paul J Sprout	8/18/98	2245509000
3	Kristin S Yahnke	Paul J Sprout	8/18/98	2245508974

White- Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by:	Date Completed:	Present on Site:

8251 Main Street Northeast • Minneapolis, Minnesota 55432-1849 • (612) 780-9787 • FAX (612) 780-7157 REV-030993

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

FACSIMILE TRANSMITTAL

8251 Main Street Northeast
Minneapolis, Minnesota 55432
(612) 780-9787
Fax (612) 780-7157

ENTERED IN DATABASE
BY/DATE DVS 9/1/98
CHECKED BY KSY 9/1/98
DATE

Fax Number: (612) 490-1006

Total Pages: 17

Date: 08/31/98

Company: LBG

Attention: Kristen Yahnke

From: Bruce Nasser

Subject: Results

Message:

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

CHAIN OF CUSTODY RECORD

Record Number: 1 of 2 98-184

Client Name: CHRYSLER CORPORATION
Address: 1600 WEBSTER STREET
City, State Zip: DAYTON, OHIO 45404

Project Title: DAYTON THERMAL PRODUCTS
Project Number: 3CHRY4/DAYTON
Contact: KRISTIN YAHNKE

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	SVE-11S	Serial #14247 PID= 70.2	AIR	8/15/98	1
2	SVE-9S	Serial #14265 PID = 92.2	AIR	8/15/98	1
3	SVE-10S	Serial #13396 PID = 84.5	AIR	8/15/98	1
4	SVE-8S	Serial #14252 PID = 95.7	AIR	8/15/98	1
5	SVE-6S	Serial #14254 PID = 153.6	AIR	8/15/98	1
6	SVE-1S	Serial #14241 PID = 95.1	AIR	8/15/98	1
7	SVE-5S	Serial #14245 PID = 202.8	AIR	8/15/98	1
8	SVE-7S	Serial #14239 PID = 93.8	AIR	8/15/98	1
9	SVE-12S	Serial #14236 PID = 46.1	AIR	8/15/98	1
10	SVE-2S	Serial # 14246 PID = 13.1	AIR	8/15/98	1

Samples Collected by: KSY
Delivered by: —
Date Delivered: —

Destination:
Contact:
Date Due:
Analysis Cost:

Send Original Report To:
Kristin Yahnke
LBG
1210 West County Road E
St. Paul, MN 55112
Ph (651) 490-1405 Fax 490-1006 NA

Send Copy Report To:
NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs - TO12	ug/L	X	X	X	X	X	X	X	X	X	X

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1-4	Kristin S Yahnke	Paul J Smith	8/18/98	2245509033
4-8	Kristin S Yahnke	Paul J Smith	8/18/98	2245509011
9-10	Kristin S Yahnke	Paul J Smith	8/18/98	2245509000

White - Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: KSY
Date Completed: 8/15/98
Present on Site: Yes

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

CHAIN OF CUSTODY RECORD

Record Number: 2 of 2 (98-154)

Client Name: Chrysler Corporation
Address: 1600 Webster Street
City, State Zip: Dayton, OH 45404

Project Title: DAYTON THERMAL PRODUCTS
Project Number: 3CHRY4/DAYTON
Contact: Kristin Yahnke

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	SVE-45	Serial # 14250 PID=88.8	AIR	8/15/98	1
2	SVE-85	Serial # 14242 PID=138	AIR	8/15/98	1
3	DTP-54	Serial # 14256 PID=60	AIR	8/12/98	1
4					
5					
6					
7					
8					
9					
10					

Samples Collected by: KSY
Delivered by: —
Date Delivered: —

Destination:
Contact:
Date Due:
Analysis Cost:

Send Original Report To:
Kristin Yahnke
CBG
1210 West County Road E
St. Paul, MN 55112
(P)(651)490-1405 (F)(651)490-1008

Send Copy Report To: NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs - TO12	ug/L	X	X	X	—	—	—	—	—	—	—

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1-2	Kristin Yahnke	Paul J Spruit	8/18/98	2245509000
3	Kristin Yahnke	Paul J Spruit	8/18/98	2245508974

White - Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: Date Completed: Present on Site:

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1243
(612) 780-9787 • FAX (612) 780-7152

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-11S-1	SVE-11S-1	SVE-9S-2	SVE-9S-2
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	2.3	0.5
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.0	0.2	31	7.2
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	5.5	0.9
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	19	3.2	52	8.9
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1815
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-11S-1	SVE-11S-1	SVE-9S-2	SVE-9S-2
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND -- not detected

Approved by:
Bruce J. Nasser
Analytical Services

Approved by:
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1649
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-10S-3	SVE-10S-3	SVE-8S-4	SVE-8S-4
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**2.5**	**0.6**	**13**	**3.0**
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**13**	**3.0**	**72**	**17**
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**4.4**	**0.7**	**4.8**	**0.8**
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**95**	**16**	**150**	**26**
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**1.6**	**0.2**	**92**	**12**
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1843
(612) 780-9787 • FAX (612) 780-7157

Field Monitoring and Testing Services

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-10S-3	SVE-10S-3	SVE-8S-4	SVE-8S-4
Matrix:	*Air*	*Air*	*Air*	*Air*
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1243
(612) 780-9787 • FAX (612) 780-7157

Field Monitoring and Testing Services

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-6S-5	SVE-6S-5	SVE-1S-6	SVE-1S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**27**	**6.2**	**8.6**	**2.0**
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**91**	**21**	**28**	**6.5**
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**79**	**13**	**35**	**5.9**
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**580**	**99**	**200**	**34**
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**210**	**29**	**24**	**3.3**
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1843
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-6S-5	SVE-6S-5	SVE-1S-6	SVE-1S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7137

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-5S-7	SVE-5S-7	SVE-7S-8	SVE-7S-8
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
(F113) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**50**	**12**	**40**	**9.2**
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**150**	**35**	**60**	**14**
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**130**	**22**	**72**	**12**
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**810**	**140**	**280**	**48**
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**360**	**49**	**180**	**24**
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1649
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-5S-7	SVE-5S-7	SVE-7S-8	SVE-7S-8
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N. E.
Minneapolis, Minnesota 55432-1843
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-12S-9	SVE-12S-9	SVE-2S-10	SVE-2S-10
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**2.5**	**0.6**	**3.5**	**0.8**
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**3.9**	**0.9**	**1.5**	**0.4**
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**7.0**	**1.2**	**2.5**	**0.4**
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**13**	**2.2**	**9.4**	**1.6**
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**4.7**	**0.6**	**16**	**2.2**
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1340
(612) 780-9787 • FAX (612) 780-7155

Report Date: 31-Aug-98

Analytical Report No. 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-12S-9	SVE-12S-9	SVE-2S-10	SVE-2S-10
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1845
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-4S-11	SVE-4S-11	SVE-3S-12	SVE-3S-12
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	**21**	**4.8**	**44**	**10**
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	**46**	**11**	**130**	**30**
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	**60**	**10**	**24**	**4**
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	**380**	**65**	**170**	**29**
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	**33**	**4.5**	**940**	**130**
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1849
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-4S-11	SVE-4S-11	SVE-3S-12	SVE-3S-12
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by:
Bruce J. Nasser
Analytical Services

Approved by:
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1110
(612) 780-9787 • FAX (612) 780-2157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/17/98-8/24/98

Sample I.D.:	DPT-S4-13	DPT-S4-13
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD		
(F12) Dichlorodifluoromethane	ND	ND
Chloromethane	ND	ND
Vinyl Chloride	ND	ND
Bromomethane	ND	ND
Chloroethane	ND	ND
(F21) Dichlorofluoromethane	ND	ND
(F11) Trichlorofluoromethane	ND	ND
Ethyl Ether	ND	ND
1,1- Dichloroethene	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND
Acetone	ND	ND
Allyl Chloride	ND	ND
Methylene Chloride	ND	ND
trans-1,2-Dichloroethene	ND	ND
Methyl tert-butyl ether	ND	ND
1,1-Dichloroethane	**19**	**4.4**
2,2-Dichloropropane	ND	ND
cis-1,2-Dichloroethene	**38**	**8.9**
Methyl Ethyl Ketone	ND	ND
Bromochloromethane	ND	ND
Tetrahydrofuran	ND	ND
Chloroform	ND	ND
1,1,1-Trichloroethane	**23**	**3.9**
1,1-Dichloropropene	ND	ND
Carbon tetrachloride	ND	ND
Benzene	ND	ND
1,2-Dichloroethane	ND	ND
Trichloroethene	**160**	**27**
1,2-Dichloropropane	ND	ND
Dibromomethane	ND	ND
Bromodichloromethane	ND	ND
cis-1,3-Dichloropropene	ND	ND
Methyl Isobutyl Ketone	ND	ND
Toluene	ND	ND
trans-1,3-Dichloropropene	ND	ND
1,1,2-Trichloroethane	ND	ND
Tetrachloroethene	**180**	**24**
1,3-Dichloropropane	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1842
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/17/98-8/24/98

Sample I.D.:	DPT-S4-13	DPT-S4-13
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)		
Dibromochloromethane	ND	ND
1,2-Dibromoethane	ND	ND
Chlorobenzene	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND
Ethylbenzene	ND	ND
Xylenes	ND	ND
Styrene	ND	ND
Bromoform	ND	ND
Isopropylbenzene	ND	ND
Bromobenzene	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND
1,2,3-Trichloropropane	ND	ND
n-Propylbenzene	ND	ND
2-Chlorotoluene	ND	ND
1,3,5-Trimethylbenzene	ND	ND
4-Chlorotoluene	ND	ND
tert-Butylbenzene	ND	ND
1,2,4-Trimethylbenzene	ND	ND
sec-Butylbenzene	ND	ND
1,3-Dichlorobenzene	ND	ND
p-Isopropyltoluene	ND	ND
1,4-Dichlorobenzene	ND	ND
1,2-Dichlorobenzene	ND	ND
n-Butylbenzene	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND
1,2,4-Trichlorobenzene	ND	ND
Hexachlorobutadiene	ND	ND
Naphthalene	ND	ND
1,2,3-Trichlorobenzene	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by:
Bruce J. Nasser
Analytical Services

Approved by:
David J. Yalch
Analytical Services

PRECISION
ENVIRONMENTAL

Field Monitoring and Testing Services

FACSIMILE TRANSMITTAL

8251 Main Street Northeast
Minneapolis, Minnesota 55432
(612) 780-9787
Fax (612) 780-7157

ENTERED IN DATABASE
BY/DATE DVS 9/1/98
CHECKED BY KSY 9/1/98
DATE

Fax Number: (612) 490-1006

Total Pages: 17

Date: 08/31/98

Company: LBG

Attention: Kristen Yahnke

From: Bruce Nasser

Subject: Results

Message:

PRECISION ENVIRONMENTAL
Field Monitoring and Testing Services

CHAIN OF CUSTODY RECORD

Record Number: 1 of 2 98-184

Client Name: CHRYSLER CORPORATION	Project Title: DAYTON THERMAL PRODUCTS
Address: 1600 WEBSTER STREET	Project Number: 3CHRY4/DAYTON
City, State Zip: DAYTON, OHIO 45404	Contact: KRISTIN YAHNKE

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
1	SVE-11S	Serial #14247 PID= 70.2	AIR	8/15/98	1
2	SVE-9S	Serial #14265 PID = 92.2	AIR	8/15/98	1
3	SVE-10S	Serial #13396 PID = 84.5	AIR	8/15/98	1
4	SVE-8S	Serial #14252 PID = 95.7	AIR	8/15/98	1
5	SVE-6S	Serial #14254 PID = 153.6	AIR	8/15/98	1
6	SVE-1S	Serial #14241 PID = 95.1	AIR	8/15/98	1
7	SVE-5S	Serial #14245 PID = 202.8	AIR	8/15/98	1
8	SVE-7S	Serial # 14239 PID = 93.8	AIR	8/15/98	1
9	SVE-12S	Serial #14236 PID = 46.1	AIR	8/15/98	1
10	SVE-2S	Serial # 14246 PID = 13.1	AIR	8/15/98	1

Samples Collected by: KSY	Delivered by: —	Date Delivered: —

Destination:	Send Original Report To: Kristin Yahnke LBG 1210 West County Road E St. Paul, MN 55112 Ph (651) 490-1405 Fx 490-1006 NA	Send Copy Report To: NA
Contact:		
Date Due:		
Analysis Cost:		

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs - TO12	ug/L	X	X	X	X	X	X	X	X	X	X

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1-4	Kristin S Yahnke	Paul J Sanders	8/18/98	2245509033
4-8	Kristin S Yahnke	Paul J Sanders	8/18/98	2245509011
9-10	Kristin S Yahnke	Paul J Sanders	8/18/98	2245509000

White - Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by: KSY	Date Completed: 8/15/98	Present on Site: Yes

PRECISION ENVIRONMENTAL Field Monitoring and Testing Services	CHAIN OF CUSTODY RECORD	Record Number 2 of 2 98-184

Client Name: Chrysler Corporation	Project Title: DAYTON THERMAL PRODUCTS
Address: 1600 Webster Street	Project Number: 3CHRY4/DAYTON
City, State Zip: Dayton, OH 45404	Contact: Kristin Yahnke

SVE-35

Item No.	Sample No.	Sample Description	Matrix	Date Collected	Containers
-11 1	SVE-45	Serial # 14250 PID = 88.8	AIR	8/15/98	1
-12 2	SVE-35	Serial # 14242 PID = 138	AIR	8/15/98	1
-13 3	DTP-54	Serial # 14256 PID = 60	AIR	8/17/98	1
4					
5					
6					
7					
8					
9					
10					

Samples Collected by: KSY	Delivered by: —	Date Delivered: —

Destination:	Send Original Report To: Kristin Yahnke LBG 1210 West County Road E St. Paul, MN 55112 (P)(651)490-1405 (F)(651)490-1006	Send Copy Report To:
Contact:		
Date Due:		
Analysis Cost:		NA

Analysis	Units	1	2	3	4	5	6	7	8	9	10
VOCs - TO12	ug/L	X	X	X	—	—	—	—	—	—	—

Item No.	Relinquished by	Received by	Date	Airbill or Manifest No.
1-2	Kristin S Yahnke	Paul J Spruit	8/18/98	2245509000
3	Kristin S Yahnke	Paul J Spruit	8/18/98	2245508974

White - Samples Yellow - Field Data Pink - Data Processing Gold - Client

Form Completed by:	Date Completed:	Present on Site:

8251 Main Street Northeast • Minneapolis, Minnesota 55432-1849 • (612) 780-9787 • FAX (612) 780-7157 REV-030993

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1949
(612) 780-9787 • FAX (612) 780-7159

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-11S-1	SVE-11S-1	SVE-9S-2	SVE-9S-2
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	2.3	0.5
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.0	0.2	31	7.2
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	5.5	0.9
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	19	3.2	52	8.9
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432 1810
(612) 780-9787 • FAX (612) 780-[illegible]

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-11S-1	SVE-11S-1	SVE-9S-2	SVE-9S-2
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND – not detected

Approved by:
Bruce J. Nasser
Analytical Services

Approved by:
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1840
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-10S-3	SVE-10S-3	SVE-8S-4	SVE-8S-4
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	2.5	0.6	13	3.0
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	13	3.0	72	17
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	4.4	0.7	4.8	0.8
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	95	16	150	26
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	1.6	0.2	92	12
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1843
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-10S-3	SVE-10S-3	SVE-8S-4	SVE-8S-4
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1243
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-6S-5	SVE-6S-5	SVE-1S-6	SVE-1S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	27	6.2	8.6	2.0
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	91	21	28	6.5
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	79	13	35	5.9
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	580	99	200	34
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3 Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	210	29	24	3.3
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1843
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-6S-5	SVE-6S-5	SVE-1S-6	SVE-1S-6
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by:
Bruce J. Nasser
Analytical Services

Approved by:
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-12[illegible]
(612) 780-9787 • FAX (612) 780-7[illegible]

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-5S-7	SVE-5S-7	SVE-7S-8	SVE-7S-8
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	50	12	40	9.2
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	150	35	60	14
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	130	22	72	12
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	810	140	280	48
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	360	49	180	24
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1843
(612) 780-9787 • FAX (612) 780-7151

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-5S-7	SVE-5S-7	SVE-7S-8	SVE-7S-8
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N. E.
Minneapolis, Minnesota 55432-1843
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: *Leggette Brashears & Graham, Inc.*
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-12S-9	SVE-12S-9	SVE-2S-10	SVE-2S-10
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	2.5	0.6	3.5	0.8
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	3.9	0.9	1.5	0.4
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	7.0	1.2	2.5	0.4
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	13	2.2	9.4	1.6
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	4.7	0.6	16	2.2
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1349
(612) 780-9787 • FAX (612) 780-7185

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-12S-9	SVE-12S-9	SVE-2S-10	SVE-2S-10
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by,
Bruce J. Nasser
Analytical Services

Approved by,
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1847
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-4S-11	SVE-4S-11	SVE-3S-12	SVE-3S-12
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD				
(F12) Dichlorodifluoromethane	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
(F21) Dichlorofluoromethane	ND	ND	ND	ND
(F11) Trichlorofluoromethane	ND	ND	ND	ND
Ethyl Ether	ND	ND	ND	ND
1,1- Dichloroethene	ND	ND	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND	ND	ND
Acetone	ND	ND	ND	ND
Allyl Chloride	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
trans-1,2-Dichloroethene	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND
1,1-Dichloroethane	21	4.8	44	10
2,2-Dichloropropane	ND	ND	ND	ND
cis-1,2-Dichloroethene	46	11	130	30
Methyl Ethyl Ketone	ND	ND	ND	ND
Bromochloromethane	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
1,1,1-Trichloroethane	60	10	24	4
1,1-Dichloropropene	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND
Benzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
Trichloroethene	380	65	170	29
1,2-Dichloropropane	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Methyl Isobutyl Ketone	ND	ND	ND	ND
Toluene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Tetrachloroethene	33	4.5	940	130
1,3-Dichloropropane	ND	ND	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1843
(612) 780-9787 • FAX (612) 780-7157

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/15/98-8/24/98

Sample I.D.:	SVE-4S-11	SVE-4S-11	SVE-3S-12	SVE-3S-12
Matrix:	Air	Air	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)				
Dibromochloromethane	ND	ND	ND	ND
1,2-Dibromoethane	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Xylenes	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Isopropylbenzene	ND	ND	ND	ND
Bromobenzene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND
2-Chlorotoluene	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
4-Chlorotoluene	ND	ND	ND	ND
tert-Butylbenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND
sec-Butylbenzene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
p-Isopropyltoluene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by:
Bruce J. Nasser
Analytical Services

Approved by:
David J. Yalch
Analytical Services

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-[illegible]
(612) 780-9787 • FAX (612) 780-[illegible]

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/17/98-8/24/98

Sample I.D.:	DPT-S4-13	DPT-S4-13
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD		
(F12) Dichlorodifluoromethane	ND	ND
Chloromethane	ND	ND
Vinyl Chloride	ND	ND
Bromomethane	ND	ND
Chloroethane	ND	ND
(F21) Dichlorofluoromethane	ND	ND
(F11) Trichlorofluoromethane	ND	ND
Ethyl Ether	ND	ND
1,1- Dichloroethene	ND	ND
(F13) Trichlorotrifluoroethane	ND	ND
Acetone	ND	ND
Allyl Chloride	ND	ND
Methylene Chloride	ND	ND
trans-1,2-Dichloroethene	ND	ND
Methyl tert-butyl ether	ND	ND
1,1-Dichloroethane	19	4.4
2,2-Dichloropropane	ND	ND
cis-1,2-Dichloroethene	38	8.9
Methyl Ethyl Ketone	ND	ND
Bromochloromethane	ND	ND
Tetrahydrofuran	ND	ND
Chloroform	ND	ND
1,1,1-Trichloroethane	23	3.9
1,1-Dichloropropene	ND	ND
Carbon tetrachloride	ND	ND
Benzene	ND	ND
1,2-Dichloroethane	ND	ND
Trichloroethene	160	27
1,2-Dichloropropane	ND	ND
Dibromomethane	ND	ND
Bromodichloromethane	ND	ND
cis-1,3-Dichloropropene	ND	ND
Methyl Isobutyl Ketone	ND	ND
Toluene	ND	ND
trans-1,3-Dichloropropene	ND	ND
1,1,2-Trichloroethane	ND	ND
Tetrachloroethene	180	24
1,3-Dichloropropane	ND	ND

PRECISION ENVIRONMENTAL

Field Monitoring and Testing Services

8251 Main Street N.E.
Minneapolis, Minnesota 55432-1640
(612) 780-9787 • FAX (612) 780-7150

Report Date: 31-Aug-98

Analytical Report No: 98-184

Client Name: Leggette Brashears & Graham, Inc.
Address: 1210 W County Road E
City, State, Zip: St. Paul, Minnesota 55112

Project Name: Dayton Thermal Products
Sample collection/analysis date: 8/17/98-8/24/98

Sample I.D.:	DPT-S4-13	DPT-S4-13
Matrix:	Air	Air
Detection Limit / Units	1.0 µg/L	0.01 PPMv
Total VOC's by GC-PID/ELCD (continued)		
Dibromochloromethane	ND	ND
1,2-Dibromoethane	ND	ND
Chlorobenzene	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND
Ethylbenzene	ND	ND
Xylenes	ND	ND
Styrene	ND	ND
Bromoform	ND	ND
Isopropylbenzene	ND	ND
Bromobenzene	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND
1,2,3-Trichloropropane	ND	ND
n-Propylbenzene	ND	ND
2-Chlorotoluene	ND	ND
1,3,5-Trimethylbenzene	ND	ND
4-Chlorotoluene	ND	ND
tert-Butylbenzene	ND	ND
1,2,4-Trimethylbenzene	ND	ND
sec-Butylbenzene	ND	ND
1,3-Dichlorobenzene	ND	ND
p-Isopropyltoluene	ND	ND
1,4-Dichlorobenzene	ND	ND
1,2-Dichlorobenzene	ND	ND
n-Butylbenzene	ND	ND
1,2-Dibromo-3-chloropropane	ND	ND
1,2,4-Trichlorobenzene	ND	ND
Hexachlorobutadiene	ND	ND
Naphthalene	ND	ND
1,2,3-Trichlorobenzene	ND	ND

Analysis by GC-PID/ELCD/FID (EPA Method 18)
ND = not detected

Approved by:
Bruce J. Nasser
Analytical Services

Approved by:
David J. Yalch
Analytical Services

EPA Region 5 Records Ctr.
349419

Building 40 B
related

To: Matt, Ken
From: Kristin
Subject: Dayton SVE Wells
Date: April 30, 1998

MEMORANDUM

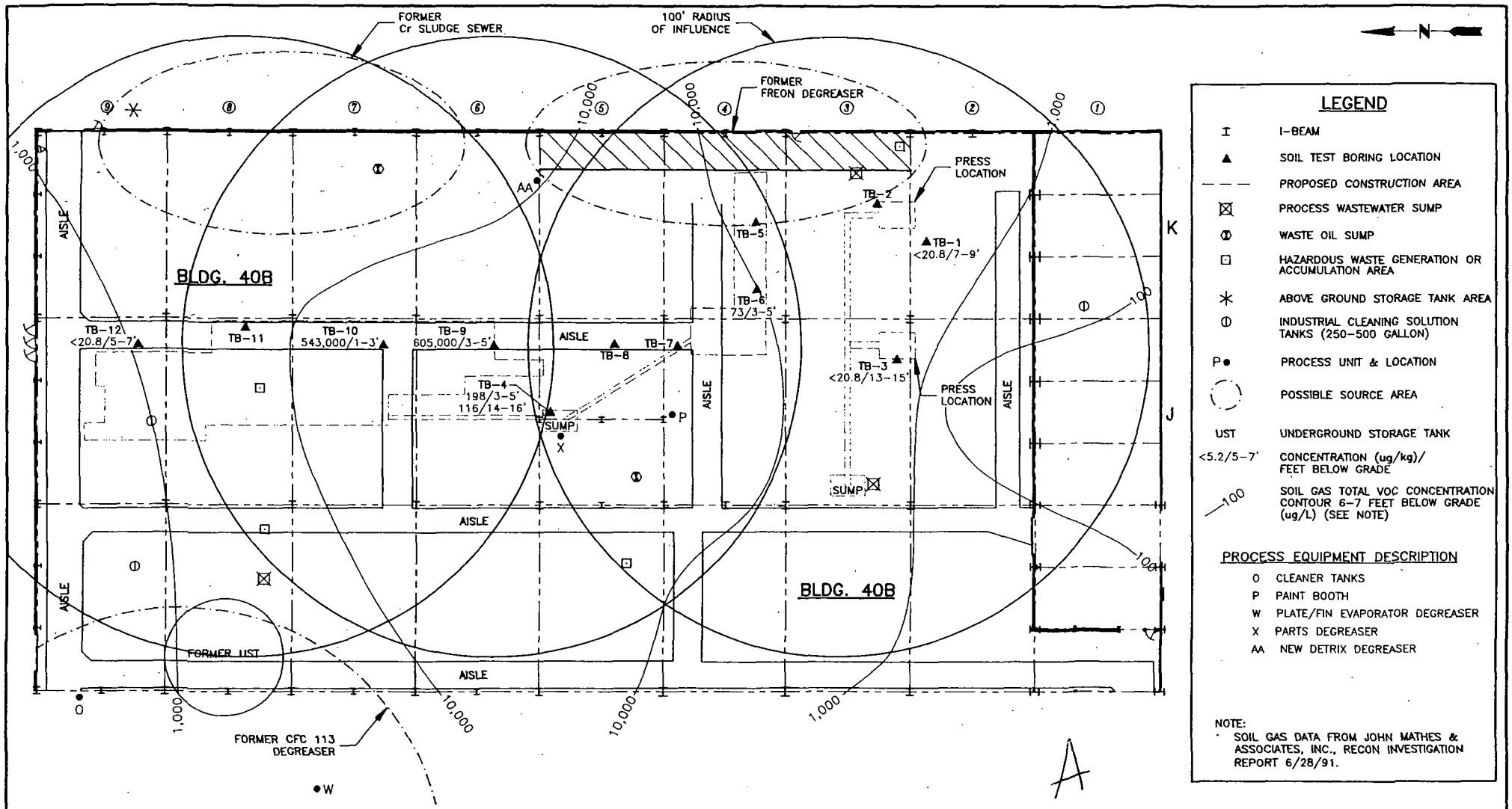
1. Based on PID and analytical, recommend clean-up for only upper portion of soil that will require excavation for equipment installation. Groundwater concentrations do not indicate that this is a source area. The deeper soil in this area not considered a major source area. Do you confer on this opinion?

2. Wilson Model indicates 3 month time frame for clean-up with 100 ft effective ROI. Given there will be 6 months operation (July - December) prior to excavation, soil should be clean enough for non-haz disposal.

3. From pilot testing, SVE wells should operated at approximately 55 cfm and 10 inches WC.

4. 3 well layouts are attached.
   A.) 3 wells with 100 ft ROI. Theoretically would cover the area, but may not, in practice, be aggressive enough or required time frame.
   B.) 5 wells with 100 ft ROI. Would provide more aggressive clean-up scenario, however wells would not be installed in area of concern.
   C.) 8 wells with 50 ft ROI. Conservative design. Would allow for installation of wells directly into area of concern. Would not result in significant increase in cost over B. Recommended scenario.
5. Blower requirement (does not account for losses.)
   A.) 165 cfm, 10 inches WC
   B.) 275 cfm, 10 inches WC
   C.) 440 cfm, 10 inches WC

6. Additional items required prior to budget development, final design and contraction selection:
   A.) Concurrence on design rationale.
   B.) Structural plans from Chrysler in system is to be installed on ceiling beams/roof.
   C.) Utilize in house contractors or not.
   D.) Power availability.



DATE	REVISED

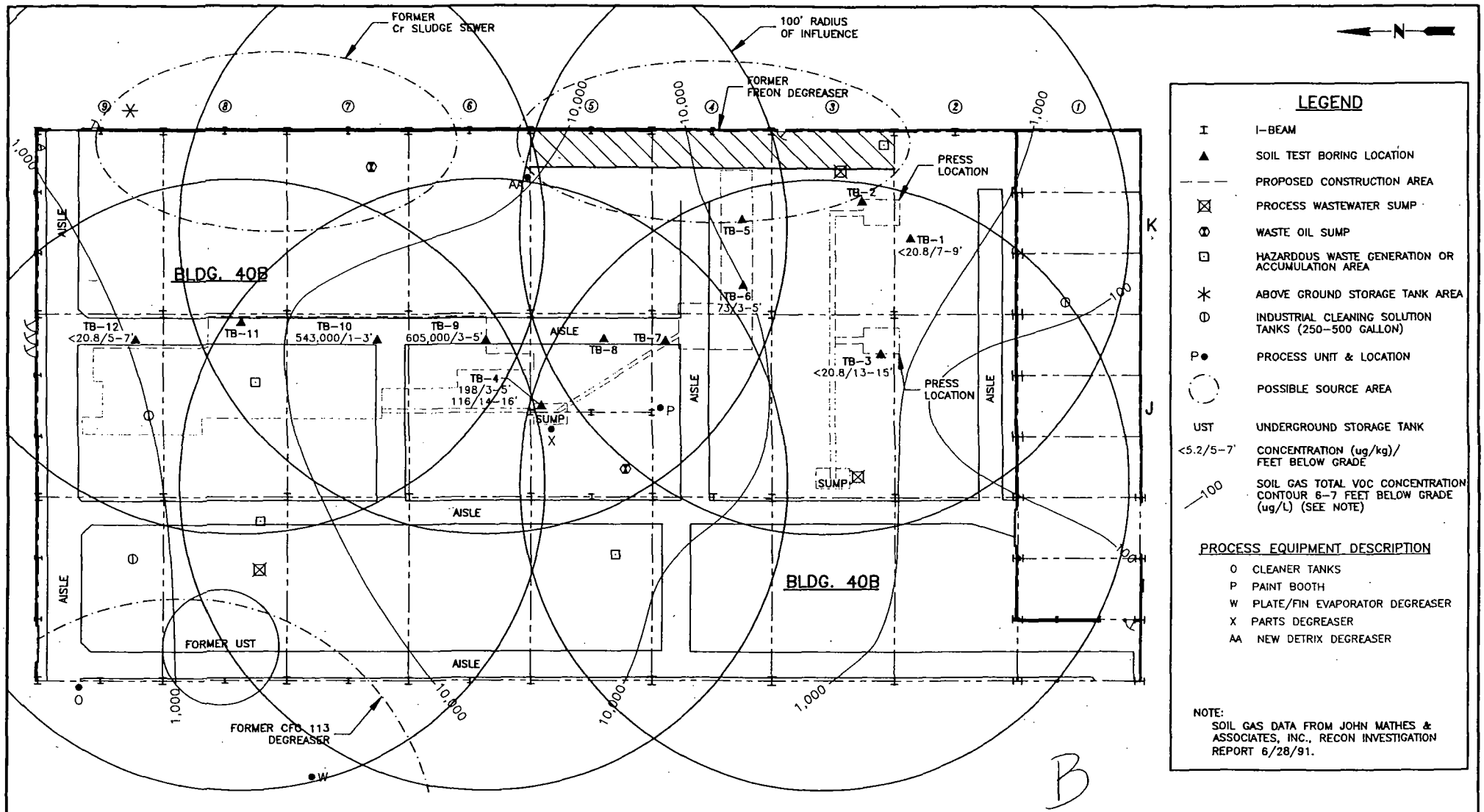
Prepared By:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Services
Northpark Corporate Center
1210 W. County Road E, Suite 700
St. Paul, MN 55112
(612) 490-1405

DAYTON THERMAL PRODUCTS PLANT

DAYTON, OHIO

TOTAL VOC'S IN SOIL (ug/kg), BUILDING 40B DECEMBER 1997

FILE: 3CHDA040.DWG | DATE: APRIL 1998 | FIGURE: 1



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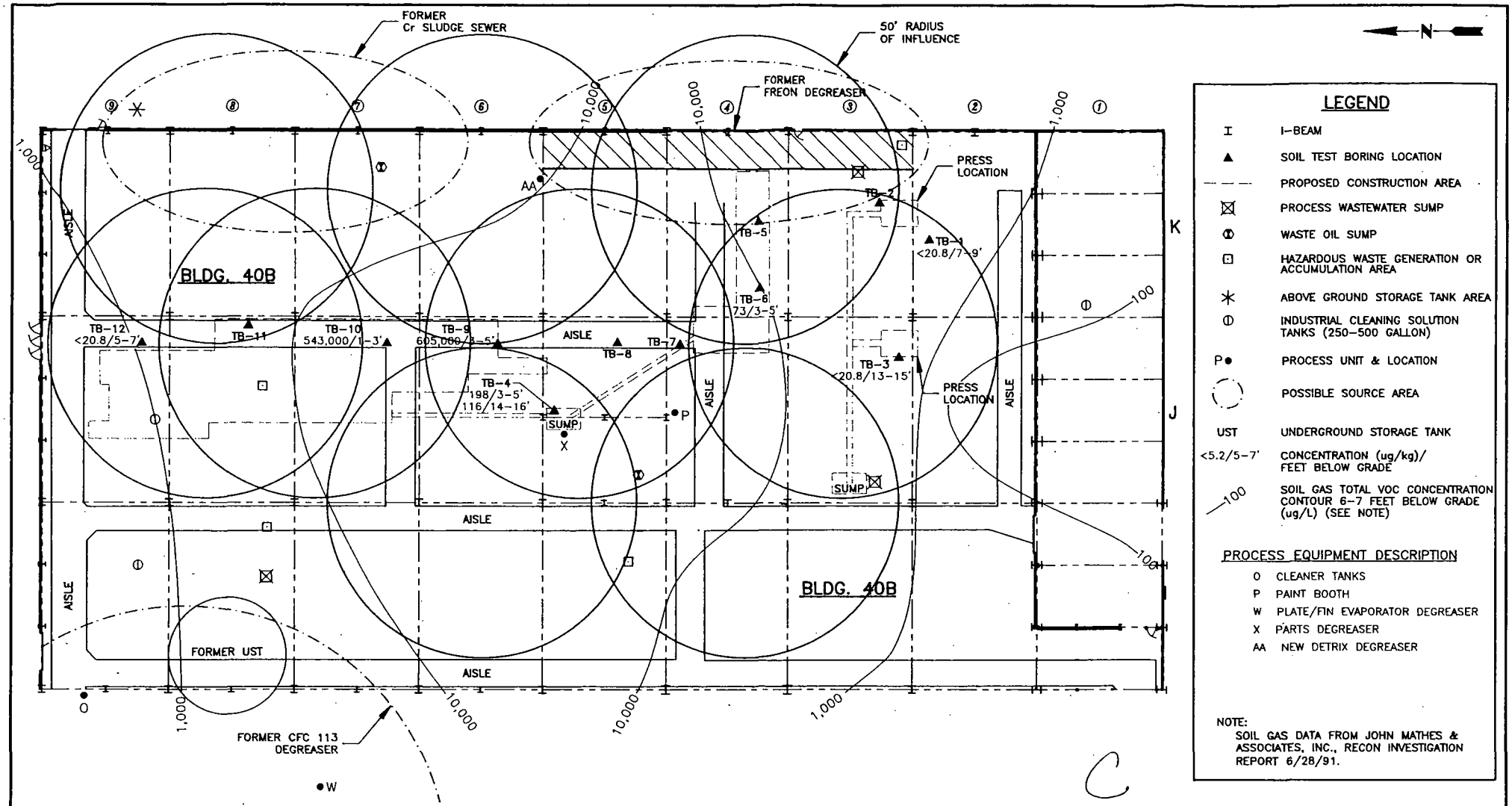
DAYTON THERMAL PRODUCTS PLANT

DAYTON, OHIO

PROPOSED SVE WELL LOCATIONS

FILE: 3CHDA040.DWG | DATE: APRIL 1998 | FIGURE: 1



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DAYTON THERMAL PRODUCTS PLANT

DAYTON, OHIO

PROPOSED SVE WELL LOCATIONS

FILE: 3CHDA040.DWG | DATE: APRIL 1998 | FIGURE: 1

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER
AND ENVIRONMENTAL ENGINEERING SERVICES

1210 WEST COUNTY ROAD E
SAINT PAUL, MN 55112

(612) 490-1405 FAX (612) 490-1006

TO: **Gary Stanczuk**

FAX #: **(937) 224-2915**

COMPANY: **Chrysler Corporation**

PHONE #: (937) 224-2467

FROM: Rebecca Carlson

DATE: May 1, 1998

PAGES: 6
(includes cover page)

RE: Dayton Thermal Products
Air Permit Exemption Request/Application

Accompanying this cover page is a preliminary air permitting application for the building 40B SVE remediation system proposed for Dayton Thermal Products Plant. The application requests that the OEPA grant an exemption for the SVE system (I have included text, tables, and the permit application portion of the report). This application is being submitted to you for review and comment prior to submittal to OEPA. Please advise on whether we should wait to submit the final package until after Lynn Buehl contacts the OEPA.

Please feel free to contact me at (612) 490-1405 with any questions or comments regarding the preliminary application.

fax MEMORANDUM S:\TECH\3CHRY\DAYTON\FINALDOC\SPARGH2O.FAX

May 1, 1998

Mr. Timothy A. Wilson, Permit Supervisor
Combined Health District
Ohio Environmental Protection Agency
451 West Third St. P.O. Box 972
Dayton, OH 45422

Re: **Air Permitting for Dayton Thermal Products Plant, Building 40B Remediation Project Dayton, Ohio**

Dear Mr. Wilson:

At the request of Chrysler Corporation, Leggette, Brashears & Graham, Inc. (LBG) has prepared the following Application for a Permit to Install. The permit application addresses the planned short-term remediation project at building 40B of the Dayton Thermal Products Plant located at 1600 Webster Street in Dayton, Ohio.

LBG intends to install and operate a temporary soil vapor extraction (SVE) system prior to planned future soil excavation related to installation of plant-related manufacturing equipment. Because the scheduled plant upgrade is slated for year-end 1998, LBG would like to install the SVE system as soon as possible.

Eight SVE wells each with a radius of influence of 50 feet will be operated at a total air flow of 440 scfm (55 scfm each). Vapor phase activated carbon will be used to control air emissions and reduce air emission concentrations for each compound to its TLV value divided by 42. The system will run for up to six months, after which it will be shut down and the plant-related construction will begin.

Air emissions calculations, SVE modeling results, and an explanation of the model are located in the appendix of this application.

Based on the information included in this application, the duration of the remediation project, and the following exemption from "Permit to Install Exemptions" Subpart g, which states:

> "(g) The director may, at his discretion and in writing, exempt any treatability studies or on-site response actions (cleanup operations) that meet all applicable emissions limits and policies from the requirements to obtain a permit to install. Anyone requesting this exemption must provide the director with sufficient information to make this decision."

Draft

LBG requests that this remediation project be granted a Permit to Install Exemption.

Enclosed in this Application, please find the following attachments:

1. The Permit to Install Application
2. Process flow diagram
3. Site map indicating location of building 40B
4. Initial air emission rate calculations (table 1), and Sample Calculation 1
5. Air emission rate calculations based on exponentially decaying effluent concentrations (table 2), and Sample Calculation 2
6. Pilot test analytical results from 3/20/98
7. SVE modeling explanation and results

We appreciate your consideration of this request. Should you have any questions or if you require additional information, please contact me at (612) 490-1405.

Sincerely,

LEGGETTE, BRASHEARS & GRAHAM, INC.

Rebecca A. Carlson
Geological Engineer

RAC
Attachments
cc: Mr. Gary Stanczuk, Chrysler
S:\TECH\3CHRY\DAYTON\INPROG\AIR.LTR

draft

Attachment 1
The Permit to Install Application

FOR OHIO EPA USE ONLY
DATE APPLICATION RECEIVED: _____
FACILITY ID: _____

EMISSIONS ACTIVITY CATEGORY FORM
PROCESS OPERATION

OEPA EMISSIONS UNIT ID _____ (if established)

[Note: If there is more than one end product for this process, copy and complete this page for each additional product (see instructions).]

1. End product of this process: Soil Remediation Project, N/A

2. Hourly production rates (indicate appropriate units):

   Average production: 6.48 lb/day total VOCs
   Maximum production: 31.8 lb/day total VOCs

3. Projected maximum annual production (indicate appropriate units): 5,724 lb/day total VOCs

4. Actual annual production (indicate appropriate units): 1364 lbs total VOCs Produced over entire duration of project (6 months)

5. Type of operation:

   ☒ continuous

   ☐ batch; if batch indicate:
   minimum cycle time _____ minutes
   minimum time between cycles _____ minutes

6. Materials used in process at maximum hourly production rate:

Material	Physical State at Standard Conditions	Principle Use	Initial Amount (lbs/hr)
1,1-dichloroethene	Vapor	Compound Removed	0.43
1,1-dichloroethane	Vapor	Compound Removed	0.04
Cis-1,2-dichloroethene	Vapor	Compound Removed	0.08
1,1,1-Trichloroethene	Vapor	Compound Removed	0.09
Trichloroethene	Vapor	Compound Removed	0.58
Tetrachloroethene	Vapor	Compound Removed	0.11

Attachment 2
Process Flow Diagram

draft