SEPARATOR

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REPORTS

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CEDAR CHEMICAL CORPORATION RISK ASSESSMENT

Cedar Chemical Company
West Helena, Arkansas

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EnSafe Project Number:
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Volume II — Appendices A through G

Prepared for:

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Appendix A

Risk Assessment Tables

TABLE 1
BACKGROUND CONCENTRATION CALCULATION FOR INORGANIC COMPOUNDS
DETECTED IN SURFACE SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

	Concentration			
Sample Location	Arsenic	Barium	Chromium	Lead
BGHA-1	3.9	204	13.1	10.1
BGHA-2	6.2	174	ND	10.3
BGHA-3	5.3	138	10.7	11.2
CEDSBKG901	7.9	NS	NS	NS
CEDSBK1001	7.95	NS	NS	NS
CEDSBKG501	9.5	NS	NS	NS
CEDSBKG601	9.8	NS	NS	NS
CEDSBKG801	18	NS	NS	NS
CEDSBKG201	20	NS	NS	NS
CEDSBKG101	21	NS	NS	NS
CEDSBKG401	26	NS	NS	NS
CEDSBKG701	31	NS	NS	NS
CEDSBKG301	61	NS	NS	NS
Mean	17.5	172	11.9	10.53
Standard Deviation	15.6355426	33.04542328	1.69705627	0.58594653
Background Concentration[a]	**31.64**	**226**	**14.3**	**11.5**

All units are milligram per kilogram (mg/kg).
ND = Not detected
NS = Not sampled
a = With the exception of arsenic all background concentration were calculated as mean + 2 SD. The arsenic background value is the 95th UCL.

TABLE 2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe	Current/Future
Medium	Soil
Exposure Medium	Surface Soil
Exposure Point	Site 1 Surface Soil

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background (2) Value	Screening (3) Toxicity Value		COPC Flag	Rationale for (4) Contaminant Deletion or Selection
7440382	**Arsenic**	**3.2**		**44.6**		**mg/kg**	**001SHA0201**	**10/12**	**5**	**44.6**	**31.64**	**0.38**	**C**	**YES**	**ASL**
72548	4,4'-DDD	12		110		ug/kg	001SHA0101	5/13	7-420	110	N/A	2,356	C	NO	BSL
72559	4,4'-DDE	3.8		98		ug/kg	001SHA0101	9/13	2.7-150	98	N/A	1,663	C	NO	BSL
50293	4,4'-DDT	9.7		380		ug/kg	001SHA0101	3/13	8-460	380	N/A	1,663	C	NO	BSL
309002	Aldrin	22		22		ug/kg	001SHA0201	1/13	2.7-150	22	N/A	26.1	C	NO	BSL
319857	Beta-BHC	47		510		ug/kg	001SHA0501	2/13	4-24	510	N/A	3,023	C	NO	BSL
60571	**Dieldrin**	**593**		**593**		**ug/kg**	**001SHA0501**	**1/13**	**1.3-15**	**593**	**N/A**	**27.8**	**C**	**YES**	**ASL**
106467	1,4-Dichlorobenzene	260		260		ug/kg	001SHA0501	1/13	660-150,000	260	N/A	3,037	C	NO	BSL
84742	Di-n-butylphthalate	750		750		ug/kg	001SHA0501	1/13	660-150,000	750	N/A	545,033	N	NO	BSL
88857	Dinoseb	9600		9600		ug/kg	001SHA0101	1/13	462-150,000	9,600	N/A	5,450	N	YES	ASL
129000	Pyrene	160		160		ug/kg	001SHA0201	1/13	660-150,000	160	N/A	148,338	N	NO	BSL
107062	**1,2-Dichloroethane**	**16**		**7500**		**ug/kg**	**001SHA0501**	**2/12**	**5-6**	**7,500**	**N/A**	**339**	**C**	**YES**	**ASL**
78933	2-Butanone (MEK)	53		57		ug/kg	001SHA0401	2/12	11-100	57	N/A	687,104	N	NO	BSL
108101	4-Methyl-2-Pentanone (MIBK)	92		92		ug/kg	001SHA0501	1/12	50-65	92	N/A	74,706	N	NO	BSL
67641	Acetone	54		190		ug/kg	001SGB0101	3/12	11-100	190	N/A	144,586	N	NO	BSL
67663	Chloroform	98		98		ug/kg	001SHA0501	1/12	5-6	98	N/A	245	C	NO	BSL
100414	Ethylbenzene	13		13		ug/kg	001SHA0501	1/12	5-6	13	N/A	233,948	sat	NO	BSL
75092	Methylene chloride	6		6		ug/kg	001SHA0501	1/12	5-20	6	N/A	8,506	C	NO	BSL
127184	Tetrachloroethene	760		760		ug/kg	001SHA0501	1/12	5-6	760	N/A	4,727	C	NO	BSL
108883	Toluene	2		930		ug/kg	001SHA0501	3/12	5-6	930	N/A	521,170	sat	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Background concentration calculated using the arithmetic mean plus two standard deviations.
(3) Residential soil screening values are from USEPA Region 6 Human Health Medium-Specific Screening Levels (USEPA, 1998).
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

Definitions:
N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
mg/kg = milligram per kilogram
ug/kg = microgram per kilogram
sat = Screening level is based on the soil saturation equation (USEPA, 1998)

TABLE 3
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 2 Surface Soil

CAS Number	Chemical	Minimum Concentration (1)	Minimum Qualifier	Maximum Concentration (1)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value (2)	Screening Toxicity Value (3)		COPC Flag	Rationale for (4) Contaminant Deletion or Selection
7440382	**Arsenic**	**9.1**		**10**		**mg/kg**	**002SHA0501**	**3/3**	**N/A**	**10**	**31.64**	**0.38**	**C**	**NO**	**BKG**
72548	4,4'-DDD	15		15		ug/kg	002S001501	1/2	7	15	N/A	2,356	C	NO	BSL
72559	4,4'-DDE	11		11		ug/kg	002S001501	1/2	2.7	11	N/A	1,663	C	NO	BSL
50293	4,4'-DDT	20		190		ug/kg	002S000501	2/2	N/A	190	N/A	1,663	C	NO	BSL
309002	**Aldrin**	**11**		**58**		**ug/kg**	**002S000501**	**2/2**	**N/A**	**58**	**N/A**	**26.12**	**C**	**YES**	**ASL**
72208	Endrin	7		7		ug/kg	002S001501	2/2	N/A	7	N/A	16,351	N	NO	BSL
88857	**Dinoseb**	**100000**		**100000**		**ug/kg**	**002S000501**	**1/2**	**462**	**100,000**	**N/A**	**54,503**	**N**	**YES**	**ASL**
67641	Acetone	200		1900		ug/kg	002S001001	2/2	N/A	1,900	N/A	1,445,855	N	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Background concentration calculated using the arithmetic mean plus two standard deviations.
(3) Residential soil screening values are from USEPA Region 6 Human Health Medium-Specific Screening Levels (USEPA, 1998).
(4) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)
Background Levels (BKG)

Definitions:
N/A = Not Applicable
COPC = Chemical of Potential Concern
mg/kg = milligram per kilogram
ug/kg = microgram per kilogram

TABLE 4
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 4 Surface Soil

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background (2) Value	Screening (3) Toxicity Value		COPC Flag	Rationale for (4) Contaminant Deletion or Selection
7440382	Arsenic	3.4		7		mg/kg	004SHA0601	9/9	N/A	7	31.64	0.38	C	NO	BKG
7440393	Barium	52.6		113		mg/kg	004SHA0601	9/9	N/A	113	226	5,155	N	NO	BSL
7440439	Cadmium	0.37		0.44		mg/kg	004SHA0401	3/9	0.32-0.37	0.44	N/A	37.46	N	NO	BSL
7440473	Chromium	10.2		19.1		mg/kg	004SHA0501	9/9	N/A	19.1	14.3	30.10	C	NO	BSL
7439921	Lead	3.9		13		mg/kg	004SHA0501	9/9	N/A	13	11.5	400		NO	BSL
72548	4,4'-DDD	26		350		ug/kg	004S000201	4/14	7-82	350	N/A	2,356	C	NO	BSL
72559	4,4'-DDE	5.2		250		ug/kg	004S000201	9/14	2.7-27	250	N/A	1,663	C	NO	BSL
50293	4,4'-DDT	49.5		260		ug/kg	004SHA0201	4/14	8-80	260	N/A	1,663	C	NO	BSL
319846	Alpha-BHC	14		14		ug/kg	004SHA0601	1/14	2-22	14	N/A	86.36	C	NO	BSL
60571	**Dieldrin**	**1.6**		**455**		**ug/kg**	**004S000401**	**3/14**	**1.3-15**	**455**	**N/A**	**27.75**	**C**	**YES**	**ASL**
959988	Endosulfan I	32		32		ug/kg	004SHA0601	1/14	9.4-100	32	N/A	327,020	N	NO	BSL
33213659	Endosulfan II	3.4		3.4		ug/kg	004SHA0401	1/14	2.7-30	3.4	N/A	327,020	N	NO	BSL
76448	Heptachlor	12		12		ug/kg	004SHA0501	1/14	2-22	12	N/A	98.67	C	NO	BSL
72435	Methoxychlor	120		15,000		ug/kg	004SHA0203	10/14	130-150	15000	N/A	272,516	N	NO	BSL
95501	1,2-Dichlorobenzene	120		3,700		ug/kg	004SHA0601	3/14	660-37,000	3700	N/A	372,612	sat	NO	BSL
95761	3,4-Dichloroaniline	85,000		85,000		ug/kg	004SHA0501	1/9	390-37,000	85000	N/A	218013		NO	BSL
106478	4-Chloroaniline	8,600		8,600		ug/kg	004SHA0501	1/14	700-72,000	8600	N/A	218,013	N	NO	BSL
84742	Di-n-butylphthalate	400		540		ug/kg	004SHA0501	2/14	660-37,000	540	N/A	5,450,329	N	NO	BSL
131113	Dimethylphthalate	94		180		ug/kg	004SHA0701	2/14	660-37,000	180	N/A	100,000,000	max	NO	BSL
88857	**Dinoseb**	**1,400**		**840,000**		**ug/kg**	**004SHA0701**	**9/14**	**462-2,310**	**840000**	**N/A**	**54,503**	**N**	**YES**	**ASL**
709988	Propanil	690		2,500		ug/kg	004SHA0601	2/9	690-37,000	2500	N/A	272,516	N	NO	BSL
117817	bis(2-Ethylhexyl)phthalate (BEHP)	1,200		1,200		ug/kg	004SHA0501	1/14	660-37,000	1200	N/A	31,715	C	NO	BSL
107062	1,2-Dichloroethane	9.9		9.9		ug/kg	004S000101	1/12	5-10	9.9	N/A	339	C	NO	BSL
78933	2-Butanone (MEK)	9		130		ug/kg	004S000101	5/12	11-100	130	N/A	6,871,035	N	NO	BSL
108101	4-Methyl-2-Pentanone (MIBK)	19		19		ug/kg	004SHA0501	1/12	50-64	19	N/A	747,064	N	NO	BSL
67641	Acetone	19		250		ug/kg	004S000101	5/12	11-100	250	N/A	1,445,855	N	NO	BSL
108907	Chlorobenzene	3		3		ug/kg	004SHA0602	1/12	5-6	3	N/A	53,931	N	NO	BSL
100414	Ethylbenzene	4		13		ug/kg	004S000101	3/12	5-6	13	N/A	233,948	sat	NO	BSL
108883	Toluene	2		350		ug/kg	004SHA0501	6/12	5-6	350	N/A	521,170	sat	NO	BSL
1330207	Xylene (total)	34.5		76		ug/kg	004SHA0501	4/12	5-13	76	N/A	214,480	sat	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Background concentration calculated using the arithmetic mean plus two standard deviations.
(3) Residential soil screening values are from USEPA Region 6 Human Health Medium-Specific Screening Levels (USEPA, 1998).
The following surrogate screening values were used:
-Endosulfan was used for Endosulfan I and Endosulfan II
-4-Chloroaniline was used for 3,4-dichloroaniline
(4) Rationale Codes: Selection Reason:
Above Screening Levels (ASL)
Infrequent Detection (IFD)
Deletion Reason:
Background Levels (BKG)
Below Screening Level (BSL)

Definitions:
N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
mg/kg = milligram per kilogram
ug/kg = microgram per kilogram
sat = Screening level is based on the soil saturation equation (USEPA, 1996)
max = non-risk based ceiling limit (USEPA, 1996)

TABLE 5
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 6 Surface Soil

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background (2) Value	Screening (3) Toxicity Value		COPC Flag	Rationale for (4) Contaminant Deletion or Selection
7440382	Arsenic	5.4		10.3		mg/kg	006SB0A201	20/20	N/A	10.3	31.84	0.38	C	NO	BKG
7440393	Barium	78.9		398		mg/kg	006SB0A201	20/20	N/A	398	226	5,155	N	NO	BSL
7440439	Cadmium	0.26		0.29		mg/kg	006SB0K101	2/20	0.23-0.25	0.29	N/A	37.5	N	NO	BSL
7440473	Chromium	8.6		14.7		mg/kg	006SB0L201	20/20	N/A	14.7	14.3	30.1	C	NO	BSL
7439921	Lead	7.4		13.8		mg/kg	006SB0A101	20/20	N/A	13.8	11.5	400		NO	BSL
72548	4,4'-DDD	16		120		ug/kg	006S00H101	9/33	7-270	120	N/A	2,356	C	NO	BSL
72559	4,4'-DDE	4.4		73		ug/kg	006S00H101	10/33	2.7-98	73	N/A	1,663	C	NO	BSL
50293	4,4'-DDT	21		200		ug/kg	006SB0H101	10/33	8-290	200	N/A	1,663	C	NO	BSL
309002	**Aldrin**	**4.3**		**240**		**ug/kg**	**006SB0K201**	**8/33**	**2.7-98**	**240**	**N/A**	**26.1**	**C**	**YES**	**ASL**
319846	Alpha-BHC	2.7		3.6		ug/kg	006SB0G201	3/33	2-74	3.6	N/A	86.4	C	NO	BSL
319857	Beta-BHC	7		7		ug/kg	006SB0A101	1/33	4-150	7	N/A	3,023	C	NO	BSL
60571	**Dieldrin**	**5.5**		**78**		**ug/kg**	**006S00C201**	**9/33**	**1.3-49**	**78**	**N/A**	**27.8**	**C**	**YES**	**ASL**
72208	Endrin	22		63		ug/kg	006S00L101	3/33	4-150	63	N/A	16,351	N	NO	BSL
72435	**Methoxychlor**	**210**		**340,000**		**ug/kg**	**006S00H201**	**15/33**	**120-1,500**	**340,000**	**N/A**	**272,516**	**N**	**YES**	**ASL**
8001352	**Toxaphene**	**2,500**		**14,000**		**ug/kg**	**006S00C101**	**2/33**	**160-5,900**	**14,000**	**N/A**	**404**	**C**	**YES**	**ASL**
95761	3,4-Dichloroaniline	84		4,900		ug/kg	006SB0F201	5/20	760-20,000	4,900	N/A	218013	N	NO	BSL
100027	4-Nitrophenol	8,100		8,100		ug/kg	006SB0F101	1/33	1000-16,500	8,100	N/A	3,379,204	N	NO	BSL
56553	Benzo(a)anthracene	870		870		ug/kg	006S00B101	1/33	410-8,000	870	N/A	557	C	NO	IFD
117817	bis(2-Ethylhexyl)phthalate	90		110		ug/kg	006SB0D101	3/33	410-8,000	110	N/A	31,715	C	NO	BSL
218019	Chrysene	870		870		ug/kg	006S00B101	1/33	410-8,000	870	N/A	55,703	C	NO	BSL
84742	Di-n-butylphthalate	98		200		ug/kg	006SB0K201	6/33	660-8,000	200	N/A	5,450,329	N	NO	BSL
88857	**Dinoseb**	**430**		**160,000**		**ug/kg**	**006S00B101**	**22/33**	**452-4,200**	**160,000**	**N/A**	**54,503**	**N**	**YES**	**ASL**
78591	Isophorone	4,500		4,500		ug/kg	006SB0D201	1/33	410-8,000	4,500	N/A	4,673,859	C	NO	BSL
108952	Phenol	6,900		6,900		ug/kg	006SB0D201	1/33	410-8,000	6,900	N/A	32,701,971	N	NO	BSL
709988	Propanil	103		18,000		ug/kg	006SB0F201	5/20	760-5,000	18,000	N/A	272,516	N	NO	BSL
107062	1,2-Dichloroethane	9		9		ug/kg	006SB0J301	2/20	6-29	9	N/A	339	C	NO	BSL
78933	2-Butanone (MEK)	3		93		ug/kg	006SB0F201	3/20	6-66	93	N/A	6,871,035	N	NO	BSL
591786	2-Hexanone	3		3		ug/kg	006SB0F201	1/20	57-290	3	N/A	110,000	sat	NO	BSL
108101	4-Methyl-2-Pentanone (MIBK)	1		500		ug/kg	006SB0D201	3/20	57-290	500	N/A	747,064	N	NO	BSL
67641	Acetone	5		1,345		ug/kg	006SB0G101	14/20	12-13	1,345	N/A	1,445,855	N	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Background concentration calculated using the arithmetic mean plus two standard deviations.
(3) Residential soil screening values are from USEPA Region 6 Human Health Medium-Specific Screening Levels (USEPA, 1998).
The screening value for 4-chloroaniline was used as a surrogate for 3,4-dichloroaniline.
(4) Rationale Codes: Selection Reason: Above Screening Levels (ASL)

Deletion Reason: Infrequent Detection (IFD)
Below Screening Level (BSL)
Background Levels (BKG)

Definitions: N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
mg/kg = milligram per kilogram
ug/kg = microgram per kilogram

TABLE 6
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe	Current Future
Medium	Soil
Exposure Medium	Surface Soil
Exposure Point	Site 8 Surface Soil

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background (2) Value	Screening (3) Toxicity Value		COPC Flag	Rationale for (4) Contaminant Deletion or Selection
7440382	Arsenic	4.2		6.3		mg/kg	008SHA0901	4/4	N/A	6.3	31.64	0.38	C	NO	BKG
7440393	Barium	77.6		248		mg/kg	008SHA0601	4/4	N/A	248	226	5,155	N	NO	BSL
7440473	Chromium	16.5		22.9		mg/kg	008SHA0601	4/4	N/A	22.9	14.3	30.1	C	NO	BSL
7439921	Lead	9.4		12.5		mg/kg	008SHA0901	4/4	N/A	12.5	11.5	400		NO	BSL
7782492	Selenium	0.81		0.81		mg/kg	008SHA0801	1/4	0.62	0.81	N/A	375	N	NO	BSL
60571	Dieldrin	4		4		ug/kg	008SHA0701	1/4	1.6-1.7	4	N/A	27.8	C	NO	BSL

(1) Minimum/maximum detected concentration
(2) Background concentration calculated using the arithmetic mean plus two standard deviations
(3) Residential soil screening values are from USEPA Region 6 Human Health Medium-Specific Screening Levels (USEPA, 1998)
(4) Rationale Codes Deletion Reason
Background Levels (BKG)
Below Screening Level (BSL)

Definitions
N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
mg/kg = milligram per kilogram
ug/kg = microgram per kilogram

TABLE 7
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 9 Surface Soil

CAS Number	Chemical	Minimum [1] Concentration	Minimum Qualifier	Maximum [1] Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background [2] Value	Screening [3] Toxicity Value		COPC Flag	Rationale for [4] Contaminant Deletion or Selection
7440382	Arsenic	3.4		3.5		mg/kg	009SB00301	2/2	N/A	3.5	31.64	0.38	C	NO	BKG
7440393	Barium	94.1		99.8		mg/kg	009SB00301	2/2	N/A	99.8	226	5,155	N	NO	BSL
7440473	Chromium	11.3		14.7		mg/kg	009SB00301	2/2	N/A	14.7	14.3	30.1	C	NO	BSL
7439921	Lead	8.1		9		mg/kg	009SB00301	2/2	N/A	9	11.5	400		NO	BSL
72548	4,4'-DDD	24		24		ug/kg	009SB01501	1/2	93	24	N/A	2,356	C	NO	BSL
72559	4,4'-DDE	12		12		ug/kg	009SB01501	1/2	34	12	N/A	1,663	C	NO	BSL
50293	4,4'-DDT	15		15		ug/kg	009SB01501	1/2	100	15	N/A	1,663	C	NO	BSL
76448	**Heptachlor**	**150**		**150**		**ug/kg**	**009SB00301**	**1/2**	**2.1**	**150**	**N/A**	**98.7**	**C**	**YES**	**ASL**
95761	**3,4-Dichloroaniline**	**150**		**450,000**		**ug/kg**	**009SB00701**	**5/16**	**840-85,000,000**	**450,000**	**N/A**	**218013**	**N**	**YES**	**ASL**
88857	**Dinoseb**	**500**		**29,000,000**		**ug/kg**	**009SB00501**	**17/19**	**7-15,000,000**	**29,000,000**	**N/A**	**54,503**	**N**	**YES**	**ASL**
709988	**Propanil**	**860**		**4,000,000**		**ug/kg**	**009SB00401**	**5/16**	**720-85,000,000**	**4,000,000**	**N/A**	**272,515**	**N**	**YES**	**ASL**
107062	1,2-Dichloroethane	43		58		ug/kg	009S002001	2/5	5-130	58	N/A	339	C	NO	BSL
78933	2-Butanone (MEK)	22		36,000		ug/kg	009S002201	4/5	11	36,000	N/A	6,871,035	N	NO	BSL
108101	4-Methyl-2-Pentanone (MIBK)	12		63		ug/kg	009S002201	2/5	50-2,000	63	N/A	747,064	N	NO	BSL
67641	Acetone	300		200,000		ug/kg	009S002201	4/5	11	200,000	N/A	1,445,855	N	NO	BSL
100414	Ethylbenzene	10		10		ug/kg	009S002201	1/5	5-200	10	N/A	233,948	sat	NO	BSL
75092	Methylene chloride	92		94		ug/kg	009S002101	2/5	5-800	94	N/A	8,506	C	NO	BSL
108883	Toluene	10		61		ug/kg	009S002001	2/5	5-200	61	N/A	521,170	sat	NO	BSL
1330207	Xylene (total)	4		130		ug/kg	009S002201	2/5	5-200	130	N/A	214,480	sat	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Background concentration calculated using the arithmetic mean plus two standard deviations.
(3) Residential soil screening values are from USEPA Region 6 Human Health Medium-Specific Screening Levels (USEPA, 1998)
The screening value for 4-chloroaniline was used as a surrogate for 3,4-dichloroaniline.
(4) Rationale Codes: Selection Reason: Above Screening Levels (ASL)

Deletion Reason: Background Levels (BKG)
Below Screening Level (BSL)

Definitions: N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
sat = Screening level is based on the soil saturation equation (USEPA, 1996)

TABLE 8
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe	Current/Future
Medium	Soil
Exposure Medium	Subsurface Soil
Exposure Point	Site 1 Subsurface Soil

CAS Number	Chemical	Minimum [1] Concentration	Minimum Qualifier	Maximum [1] Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Screening [2] Toxicity Value		COPC Flag	Rationale for [3] Contaminant Deletion or Selection
7440382	**Arsenic**	**1.6**		**44.6**		**mg/kg**	**001SHA0201**	**16 / 20**	**5 — 5**	**44.6**	**2.99**	**C**	**YES**	**ASL**
7440439	Cadmium	0.29		0.29		mg/kg	001SMW0606	1 / 16	0.33 — 0.38	0.29	93	N	NO	BSL
72548	4,4'-DDD	12		110		µg/kg	001SHA0101	6 / 25	7 — 700	110	18,719	C	NO	BSL
72559	4,4'-DDE	3.8		98		µg/kg	001SHA0101	10 / 25	2.7 — 270	98	13213.7	C	NO	BSL
50293	4,4'-DDT	9.7		380		µg/kg	001SHA0101	3 / 25	8 — 800	380	13,214	C	NO	BSL
309002	Aldrin	22		22		µg/kg	001SHA0201	1 / 25	2.7 — 270	22	176	C	NO	BSL
319857	Beta-BHC	47		510		µg/kg	001SHA0501	2 / 25	4 — 400	510	23,292	C	NO	BSL
60571	**Dieldrin**	**593**		**593**		**µg/kg**	**001SHA0501**	**1 / 25**	**1.3 — 130**	**593**	**187**	**C**	**YES**	**ASL**
106467	1,4-Dichlorobenzene	260		260		µg/kg	001SHA0501	1 / 25	460 — 150,000	260	7,279	C	NO	BSL
84742	Di-n-butylphthalate	120		750		µg/kg	001SHA0501	2 / 25	660 — 150,000	750	10,000,000	N	NO	BSL
88857	Dinoseb	9600		9600		µg/kg	001SHA0101	1 / 25	462 — 150,000	9600	106,887	N	NO	BSL
129000	Pyrene	160		160		µg/kg	001SHA0201	1 / 25	460 — 150,000	160	2,647,509	N	NO	BSL
107062	**1,2-Dichloroethane**	**18**		**7500**		**µg/kg**	**001SHA0501**	**3 / 20**	**5 — 6**	**7500**	**758**	**C**	**YES**	**ASL**
78933	2-Butanone (MEK)	53		57		µg/kg	001SHA0401	2 / 20	11 — 100	57	2,721,022	N	NO	BSL
108101	4-Methyl-2-Pentanone (MIBK)	92		92		µg/kg	001SHA0501	1 / 20	50 — 70	92	284,694	N	NO	BSL
67641	Acetone	54		190		µg/kg	001SGB0101	5 / 20	11 — 100	190	606,377	N	NO	BSL
67663	Chloroform	98		98		µg/kg	001SHA0501	1 / 20	5 — 7	98	522	C	NO	BSL
100414	Ethylbenzene	13		13		µg/kg	001SHA0501	1 / 20	5 — 7	13	233,948	sat	NO	BSL
75092	Methylene chloride	6		33		µg/kg	001SMW0606	2 / 20	5 — 20	33	20,075	C	NO	BSL
127184	Tetrachloroethene	760		760		µg/kg	001SHA0501	1 / 20	5 — 7	760	16,191	C	NO	BSL
108883	Toluene	2		930		µg/kg	001SHA0501	3 / 20	5 — 7	930	521,170	sat	NO	BSL

[1] Minimum/maximum detected concentration
[2] Industrial soil screening values are from EPA Region 6 Human Health Medium-Specific Screening Levels (October, 1998)
[3] Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

Definitions
N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
mg/kg = milligram per kilogram
ug/kg = microgram per kilogram

TABLE 9
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 2 Subsurface Soil

CAS Number	Chemical	Minimum [1] Concentration	Minimum Qualifier	Maximum [1] Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Screening [2] Toxicity Value		COPC Flag	Rationale for [3] Contaminant Deletion or Selection
7440382	**Arsenic**	**3.4**		**68.8**		**mg/kg**	**2HA-6 (0-1')**	**46 / 54**	0.2 — 5	**68.8**	**2.99**	**C**	**YES**	**ASL**
7440435	**Cadmium**	**0.25**		**161.8**		**mg/kg**	**2HA-6 (0-1')**	**17 / 43**	**0.24 — 0.4**	**161.8**	**93**	**N**	**YES**	**ASL**
7439976	**Mercury**	**111.7**		**111.7**		**mg/kg**	**2HA-6 (0-1')**	**1 / 43**	**0.1 — 0.14**	**111.7**	**56**	**N**	**YES**	**ASL**
7782492	Selenium	0.15		70.9		mg/kg	2HA-5 (0-1')	10 / 43	0.12 — 0.75	70.9	937	N	NO	BSL
7440224	Silver	89.9		89.9		mg/kg	2HA-5 (0-1')	1 / 43	0.36 — 0.93	89.9	937	N	NO	BSL
72548	4,4'-DDD	10		180		µg/kg	2SB-6 (21-22')	4 / 56	4.1 — 9,300	180	18,719	C	NO	BSL
72559	4,4'-DDE	11		190		µg/kg	IMSB-1 (1-3')	2 / 57	2.7 — 3,400	190	13,214	C	NO	BSL
50293	4,4'-DDT	11		890		µg/kg	IMSB-1 (1-3')	7 / 56	4.1 — 10,000	890	13,214	C	NO	BSL
309002	**Aldrin**	**9.3**		**500**		**µg/kg**	**2SB-6 (28-29')**	**7 / 57**	2.4 — 3,400	**500**	**176**	**C**	**YES**	**ASL**
319846	Alpha-BHC	4.4		210		µg/kg	2SB-6 (28-29')	7 / 56	2 — 2,500	210	665	C	NO	BSL
319857	Beta-BHC	7.2		37		µg/kg	IMSB-3 (5-10')	3 / 56	3.8 — 5,100	37	23,292	C	NO	BSL
319868	Delta-BHC	26		26		µg/kg	IMSB-1 (8-12')	1 / 57	3.8 — 7,600	26	665	C	NO	BSL
60571	**Dieldrin**	**7.4**		**350**		**µg/kg**	**IMSB-2 (10-15')**	**5 / 56**	1.3 — 1,700	**350**	**187**	**C**	**YES**	**ASL**
1031078	Endosulfan Sulfate	17		17		µg/kg	2SB-15 (8-10')	1 / 56	3.8 — 56,000	17	641,321	N	NO	BSL
72208	Endrin	7		680		µg/kg	2SB-6 (28-29')	5 / 56	4 — 5,100	680	32,066	N	NO	BSL
53494705	Endrin ketone	6		6		µg/kg	2SB-15 (8-10')	1 / 48	3.8 — 20,000	6	32,066	N	NO	BSL
58899	gamma-BHC (Lindane)	3.4		3		µg/kg	IMSB-1 (3-8')	2 / 57	0.00 — 3,400	3	3,225	C	NO	BSL
5103742	gamma-Chlordane	150		150		µg/kg	2SB-6 (21-22')	1 / 45	11 — 12,000	150	11,979	C	NO	BSL
76448	Heptachlor	4.9		270		µg/kg	2SB-6 (28-29')	5 / 56	2 — 2,500	270	665	C	NO	BSL
72435	Methoxychlor	55		340000		µg/kg	2SB-9 (26-27')	20 / 56	20 — 34,000	340000	534,434	N	NO	BSL
120821	1,2,4-Trichlorobenzene	1200		1200		µg/kg	2SB-10 (15-20')	1 / 54	420 — 44,000	1200	3,019,480	N	NO	BSL
95501	1,2-Dichlorobenzene	150		12,000		µg/kg	2SB-9 (26-27')	5 / 54	420 — 44,000	12,000	372,612	sat	NO	BSL
91587	2-Chloronaphthalene	72		5,400		µg/kg	2SB-12 (15-20')	4 / 54	420 — 44,000	5,400	2,371,755	N	NO	BSL
88755	2-Nitrophenol	53		2,900		µg/kg	2SB-10 (15-20')	8 / 54	420 — 44,000	2,900	6,626,980	N	NO	BSL
95761	3,4-Dichloroaniline	250		6,700		µg/kg	IMSB-2 (5-10')	6 / 46	430 — 110,000	6,700	427,547	N	NO	BSL
100027	4-Nitrophenol	46		25,000		µg/kg	2SB-3 (13-14')	21 / 54	1,000 — 20,000	25,000	6,626,980	N	NO	BSL
65850	Benzoic acid	540		540		µg/kg	2MW-1 (20-25')	1 / 30	3,300 — 4,500	540	100,000,000	max	NO	BSL
111444	bis(2-Chloroethyl)ether	180		180		µg/kg	2SB-12 (25-30')	1 / 54	420 — 44,000	180	560	C	NO	BSL
84742	Di-n-butylphthalate	53		3,200		µg/kg	2SB-12 (15-20')	13 / 54	440 — 44,000	3,200	100,000,000	N	NO	BSL
88857	Dinoseb	510		100,000		µg/kg	2MW-5 (0-1')	14 / 54	440 — 17,000	100,000	106,887	N	NO	BSL

TABLE 9
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium	Soil
Exposure Medium	Subsurface Soil
Exposure Point:	Site 2 Subsurface Soil

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Screening (2) Toxicity Value		COPC Flag	Rationale for (3) Contaminant Deletion or Selection
108952	Phenol	170		100000		µg/kg	2SB-12 (15-20')	20 / 54	440 — 44,000	100000	100,000,000	N	NO	BSL
709988	Propanil	90		79000		µg/kg	2SB-12 (15-20')	28 / 46	840 — 4,400	79000	534,434	N	NO	BSL
107062	**1,2-Dichloroethane**	**10**		**170,000**		**µg/kg**	**2SB-6 (28-29')**	**28** / 51	5 — 8,300	**170,000**	**758**	**C**	**YES**	**ASL**
78875	1,2-Dichloropropane	32		32		µg/kg	2SB-5 (15-20')	1 / 51	5 — 89,000	32	763	C	NO	BSL
78933	2-Butanone (MEK)	21		1,700		µg/kg	2SB-10 (15-20')	5 / 51	12 — 180,000	1,700	2,721,022	N	NO	BSL
108101	4-Methyl-2-Pentanone (MIBK)	9		1,200		µg/kg	2SB-3 (24-25')	13 / 51	50 — 890,000	1,200	284,694	N	NO	BSL
67641	Acetone	13		17,000		µg/kg	2SB-11 (25-30')	28 / 51	12 — 180,000	17,000	606,377	N	NO	BSL
56235	**Carbon tetrachloride**	**670**		**670**		**µg/kg**	**2SB-9 (26-27')**	**1** / 51	5 — 89,000	**670**	**525**	**C**	**YES**	**ASL**
108907	Chlorobenzene	3		530		µg/kg	2SB-9 (26-27')	7 / 51	5 — 89,000	530	18,375	N	NO	BSL
67663	**Chloroform**	**2**		**13,000**		**µg/kg**	**2SB-9 (26-27')**	**17** / 51	5 — 89,000	**13,000**	**522**	**C**	**YES**	**ASL**
100414	Ethylbenzene	1		620		µg/kg	2SB-3 (24-25')	7 / 51	5 — 89,000	620	233,948	sat	NO	BSL
75092	**Methylene chloride**	**12**		**380,000**		**µg/kg**	**2SB-5 (25-30')**	**31** / 51	6 — 8,300	**380,000**	**20,075**	**C**	**YES**	**ASL**
108883	Toluene	3		390,000		µg/kg	2SB-10 (15-20')	19 / 51	5 — 89,000	390,000	521,170	sat	NO	BSL
1330207	Xylene (total)	3		4,800		µg/kg	2SB-6 (28-29')	14 / 51	5 — 89,000	4,800	214,480	sat	NO	BSL

(1) Minimum/maximum detected concentration.

(2) Industrial soil screening values are from USEPA Region 6 Human Health Medium-Specific Screening Levels (USEPA, 1998).
The following surrogate screening values were used:
- Alpha-BHC was used for delta-BHC
- Endosulfan was used for endosulfan sulfate
- Endrin was used for endrin ketone
- Chlordane was used for gamma-chlordane
- 4-Chloroaniline was used for 3,4-dichloroaniline

(3) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

Definitions:
N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
mg/kg = milligram per kilogram
ug/kg = microgram per kilogram
sat = Screening level is based on the soil saturation equation (USEPA, 1996)

TABLE 10
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 3 Subsurface Soil

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Screening (2) Toxicity Value		COPC Flag	Rationale for (3) Contaminant Deletion or Selection
88857	Dinoseb	630		13,000,000		ug/kg	003SLB0602	5/5	N/A	13,000,000	1,068,868	N	YES	ASL

(1) Minimum/maximum detected concentration
(2) Industrial soil screening values are from USEPA Region 6 Human Health Medium-Specific Screening Levels (USEPA, 1998)
(3) Rationale Codes: Selection: Reaso Above Screening Levels (ASL)

Definitions:
N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
ug/kg = microgram per kilogram

TABLE 11
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe	Current/Future
Medium	Soil
Exposure Medium	Subsurface Soil
Exposure Point	Site 4 Subsurface Soil

CAS Number	Chemical	Minimum [1] Concentration	Minimum Qualifier	Maximum [1] Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Screening [2] Toxicity Value		COPC Flag	Rationale for [3] Contaminant Deletion or Selection
7440382	**Arsenic**	**1.3**		**15.5**		**mg/kg**	**4MW-1 (25-30**	**16 / 16**	**N/A — N/A**	**15.5**	**2.99**	**C**	**YES**	**ASL**
7440393	Barium	72.6		218		mg/kg	4MW-1 (10-15	16 / 16	N/A — N/A	218	100,000	max	NO	BSL
7440473	Chromium	8.6		20.9		mg/kg	4HA-6 (1-2')	16 / 16	N/A — N/A	20.9	64.05	C	NO	BSL
7439921	Lead	6.9		30		mg/kg	4MW-1 (10-15	16 / 16	N/A — N/A	30	2,000		NO	BSL
7782492	Selenium	0.64		0.64		mg/kg	4MW-2 (25-30	1 / 16	0.56 — 0.65	0.64	9,366	N	NO	BSL
72548	4,4'-DDD	26		350		µg/kg	4SB-2 (0-2')	8 / 41	7 — 430	350	18,719	C	NO	BSL
72559	4,4'-DDE	5.2		280		µg/kg	4HA-4 (1-2')	16 / 41	2.7 — 160	280	13,214	C	NO	BSL
50293	4,4'-DDT	19		450		µg/kg	4HA-6 (1-2')	8 / 41	8 — 470	450	13,214	C	NO	BSL
319846	Alpha-BHC	5.1		14		µg/kg	4HA-6 (0-1')	2 / 41	2 — 120	14	665	C	NO	BSL
319857	Beta-BHC	5.1		38		µg/kg	4HA-5 (2-3')	2 / 41	4 — 230	38	23,292	C	NO	BSL
60571	**Dieldrin**	**1.6**		**630**		**µg/kg**	**4HA-6 (1-2')**	**6 / 41**	**1.3 — 78**	**630**	187	C	**YES**	**ASL**
959988	Endosulfan I	32		32		µg/kg	4HA-6 (0-1')	1 / 41	9.4 — 550	32	6,413,206		NO	BSL
33213659	Endosulfan II	3.4		72		µg/kg	4HA-2 (1-2')	2 / 41	2.7 — 160	72	6,413,206		NO	BSL
53494705	Endrin ketone	770		770		µg/kg	4HA-2 (1-2')	1 / 25	17 — 940	770	320,660		NO	BSL
76448	Heptachlor	12		12		µg/kg	4HA-5 (0-1')	1 / 41	2 — 120	12	665	C	NO	BSL
72435	Methoxychlor	120		74,000		µg/kg	4HA-2 (1-2')	19 / 41	120 — 1,200	74,000	534,434	N	NO	BSL
120821	1,2,4-Trichlorobenzene	470		470		µg/kg	4HA-4 (1-2')	1 / 41	430 — 1,400,000	470	3,019,460	sat	NO	BSL
95501	1,2-Dichlorobenzene	120		3,700		µg/kg	4HA-6 (0-1')	5 / 41	350 — 1,400,000	3,700	372,612	sat	NO	BSL
95487	2-Methylphenol (o-Cresol)	2		2		µg/kg	4MW-1 (25-30	1 / 41	430 — 1,400,000	2	5,344,339	N	NO	BSL
95761	**3,4-Dichloroaniline**	**12**		**12000000**		**µg/kg**	**4HA-6 (1-2')**	**8 / 25**	**690 — 37,000**	**12000000**	427,547	N	**YES**	**ASL**
106478	4-Chloroaniline	2800		12,000		µg/kg	4HA-4 (1-2')	4 / 41	430 — 2,700,000	12,000	427,547	N	NO	BSL
100027	4-Nitrophenol	2		2		µg/kg	4MW-1 (25-30	1 / 41	1,000 — 6,800,000	2	6,626,980	N	NO	BSL
84742	Di-n-butylphthalate	400		2700		µg/kg	4HA-2 (1-2')	4 / 41	430 — 1,400,000	2700	100,000,000	max	NO	BSL
117840	Di-n-octylphthalate	4300		4,300		µg/kg	4HA-5 (1-2')	1 / 41	430 — 1,400,000	4,300	2,137,735	N	NO	BSL
131113	Dimethylphthalate	94		180		µg/kg	4HA-7 (5-6')	3 / 41	430 — 1,400,000	180	100,000,000	max	NO	BSL
88857	**Dinoseb**	**45**		**1,100,000**		**µg/kg**	**4HA-2 (1-2')**	**22 / 41**	**462 — 1,400,000**	**1,100,000**	106,887	N	**YES**	**ASL**
206440	Fluoranthene	130		130		µg/kg	4HA-4 (1-2')	1 / 41	430 — 1,400,000	130	3,740,329	N	NO	BSL
78591	Isophorone	730		15,000		µg/kg	4SB-3 (6-8')	3 / 41	430 — 1,400,000	15,000	31,503,470	C	NO	BSL
108952	Phenol	7		7		µg/kg	4MW-1 (25-30	1 / 41	430 — 1,400,000	7	100,000,000	max	NO	BSL
709988	Propanil	64		130,000		µg/kg	4HA-5 (2-3')	6 / 25	690 — 1,400,000	130,000	534,434	N	NO	BSL
129000	Pyrene	110		110		µg/kg	4HA-4 (1-2')	1 / 41	430 — 1,400,000	110	2,647,509	N	NO	BSL
117817	bis(2-Ethylhexyl)phthalate	1200		1300		µg/kg	4HA-5 (1-2')	2 / 41	430 — 1,400,000	1300	213,774	C	NO	BSL
75354	1,1-Dichloroethene	2		2		µg/kg	4HA-4 (2-3')	1 / 35	5 — 33	2	1,176	C	NO	BSL
107062	**1,2-Dichloroethane**	**9.9**		**820**		**µg/kg**	**4MW-3 (33-38**	**10 / 35**	**5 — 29**	**820**	758	C	**YES**	**ASL**
78933	2-Butanone (MEK)	9		130		µg/kg	4SB-1 (0-2')	10 / 35	11 — 100	130	2,721,022	N	NO	BSL

TABLE 11
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 4 Subsurface Soil

CAS Number	Chemical	Minimum [1] Concentration	Minimum Qualifier	Maximum [1] Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Screening [2] Toxicity Value		COPC Flag	Rationale for [3] Contaminant Deletion or Selection
108101	4-Methyl-2-Pentanone (MIBK)	19		120		µg/kg	4HA-5 (2-3')	6 / 35	50 — 170	120	284,694	N	NO	BSL
67641	Acetone	12		4400		µg/kg	4SB-1 (8-10'	18 / 35	11 — 100	4400	606,377	N	NO	BSL
71432	Benzene	2		29		µg/kg	4MW-1 (10-15	2 / 35	5 — 33	29	1,359	C	NO	BSL
75150	Carbon disulfide	16		120		µg/kg	4HA-2 (1-2')	3 / 35	5 — 100	120	721,254	sat	NO	BSL
108907	Chlorobenzene	3		35		µg/kg	4HA-5 (2-3')	4 / 35	5 — 33	35	18,375	N	NO	BSL
67663	Chloroform	12		25.5		µg/kg	4HA-4 (2-3')	2 / 35	5 — 33	25.5	522	C	NO	BSL
100414	Ethylbenzene	4		150		µg/kg	4HA-2 (1-2')	8 / 35	5 — 33	150	233,948	sat	NO	BSL
75092	Methylene chloride	1		270		µg/kg	4MW-1 (25-30	6 / 35	5 — 29	270	20,075	C	NO	BSL
108883	Toluene	2		56,000		µg/kg	4MW-1 (10-15	16 / 35	5 — 7	56,000	521,170	sat	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Industrial soil screening values are from USEPA Region 6 Human Health Medium-Specific Screening Levels (USEPA, 1998).
The following surrogate screening values were used:
– Endosulfan was used for Endosulfan I and Endosulfan II
– Endrin was used for endrin ketone
–4-Chloroaniline was used for 3,4-dichloroaniline
(3) Rationale Codes: Selection Reason: Infrequent Detection but Associated Historically (HIST)
Deletion Reason: Below Screening Level (BSL)

Definitions:
N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
mg/kg = milligram per kilogram
ug/kg = microgram per kilogram
sat = Screening level is based on the soil saturation

TABLE 12
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 5 Subsurface Soil

CAS Number	Chemical	Minimum [1] Concentration	Minimum Qualifier	Maximum [1] Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Screening [2] Toxicity Value		COPC Flag	Rationale for [3] Contaminant Deletion or Selection
7440382	Arsenic	7.4		9.7		mg/kg	005SB00302	6 / 6	N/A	9.7	2.99	C	YES	ASL
7440393	Barium	126		168		mg/kg	005SB00201	6 / 6	N/A	168	100,000	max	NO	BSL
7440439	Cadmium	0.4		0.4		mg/kg	005SB00302	1 / 6	0.25 — 0.38	0.4	934	N	NO	BSL
7440473	Chromium	9.1		11.7		mg/kg	005SB00201	6 / 6	N/A	11.7	64	C	NO	BSL
7439921	Lead	8.3		10.4		mg/kg	005SB00102	6 / 6	N/A	10.4	2,000		NO	BSL
319846	Alpha-BHC	3.7		6.8		µg/kg	005SB00202	2 / 6	2.5 — 2.6	6.8	665	C	NO	BSL
33213659	Endosulfan II	5.9		12		µg/kg	005SB00201	2 / 6	3.3 — 3.4	12	6,413,206		NO	BSL
58899	gamma-BHC (Lindane)	6.2		6.2		µg/kg	005SB00202	1 / 6	3.3 — 3.4	6.2	3,225	C	NO	BSL
51285	2,4-Dinitrophenol	23000		49000		µg/kg	005SB00202	2 / 6	4,200 — 4,300	49,000	213,774	N	NO	BSL
95761	3,4-Dichloroaniline	1200		1200		µg/kg	005SB00102	1 / 6	820 — 860	1,200	427,547	N	NO	BSL
534521	4,6-Dinitro-2-methylphenol	200		200		µg/kg	005SB00201	1 / 6	4,200 — 4,300	200	N/A		NO	BSL
88857	Dinoseb	57000		170000		µg/kg	005SB00201	2 / 6	4,200 — 4,300	170,000	106,887	N	YES	ASL
107062	1,2-Dichloroethane	4		4		µg/kg	005SB00302	1 / 6	6 — 820	4	758	C	NO	BSL
78933	2-Butanone (MEK)	120		44000		µg/kg	005SB00202	3 / 6	12 — 13	44,000	2,721,022	N	NO	BSL
108101	4-Methyl-2-Pentanone (MIBK)	1		170		µg/kg	005SB00302	3 / 6	59 — 8,200	170	284,694	N	NO	BSL
67641	Acetone	3900		21000		µg/kg	005SB00302	3 / 6	12 — 13	21,000	606,377	N	NO	BSL
67663	Chloroform	4		4		µg/kg	005SB00302	1 / 6	6 — 820	4	522	C	NO	BSL
100414	Ethylbenzene	3		3		µg/kg	005SB00201	1 / 6	6 — 820	3	233,948	sat	NO	BSL
75092	Methylene chloride	8		140		µg/kg	005SB00102	5 / 6	820 — 820	140	20,075	C	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Industrial soil screening values are from USEPA Region 6 Human Health Medium-Specific Screening Levels (USEPA, 1998)
The following surrogate screening values were used
- Endosulfan was used for Endosulfan II
-4-Chloroaniline was used for 3,4-dichloroaniline
(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

Definitions
N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
mg/kg = milligram per kilogram
ug/kg = microgram per kilogram

TABLE 13
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 9 Subsurface Soil

CAS Number	Chemical	Minimum [1] Concentration	Minimum Qualifier	Maximum [1] Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Screening [2] Toxicity Value		COPC Flag	Rationale for [3] Contaminant Deletion or Selection
7440382	**Arsenic**	**3.4**		**7.3**		**mg/kg**	**009SB00302**	**4 / 4**	**N/A**	**7.3**	**2.99**	**N**	**YES**	**ASL**
7440393	Barium	94.1		150		mg/kg	009SB00302	4 / 4	N/A	150	100,000	max	NO	BSL
7440473	Chromium	10.8		14.7		mg/kg	009SB00301	4 / 4	N/A	14.7	64.05	C	NO	BSL
7439921	Lead	8.1		11.2		mg/kg	009SB00302	4 / 4	N/A	11.2	2,000		NO	BSL
72548	4,4'-DDD	24		24		µg/kg	009SB01501	1 / 4	9 — 4	24	18,719	C	NO	BSL
72559	4,4'-DDE	12		12		µg/kg	009SB01501	1 / 4	3 — 4	12	13213.67	C	NO	BSL
50293	4,4'-DDT	15		15		µg/kg	009SB01501	1 / 4	10 — 4	15	13,214	C	NO	BSL
76448	Heptachlor	150		150		µg/kg	009SB00301	1 / 4	2 — 4	150	665	C	NO	BSL
51285	2,4-Dinitrophenol	3400		3400		µg/kg	009SB00202	1 / 45	3,300 — 45	3400	213,774	N	NO	BSL
95761	**3,4-Dichloroaniline**	**130**		**450,000**		**µg/kg**	**009SB00701**	**7 / 36**	**840 — 36**	**450,000**	**427,547**	**N**	**YES**	**ASL**
88857	**Dinoseb**	**500**		**29000000**		**µg/kg**	**009SB00501**	**39 / 45**	**462 — 45**	**29000000**	**106,887**	**N**	**YES**	**ASL**
709988	**Propanil**	**150**		**4,000,000**		**µg/kg**	**009SB00401**	**11 / 36**	**720 — 36**	**4,000,000**	**534,434**	**N**	**YES**	**ASL**
107062	1,2-Dichloroethane	43		730		µg/kg	009S002004	4 / 13	5 — 13	730	758	C	NO	BSL
78933	2-Butanone (MEK)	22		36000		µg/kg	009S002201	8 / 13	11 — 13	36000	2,721,022	N	NO	BSL
108101	4-Methyl-2-Pentanone (MIBK)	12		63		µg/kg	009S002201	3 / 13	50 — 13	63	284,694	N	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Industrial soil screening values are from USEPA Region 6 Human Health Medium-Specific Screening Levels (USEPA, 1998).
The screening value for 4-chloroaniline was used as a surrogate for 3,4-dichloroaniline.
(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

Definitions:
N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
mg/kg = milligram per kilogram
ug/kg = microgram per kilogram
sat = Screening level is based on the soil saturation equation (USEPA, 1996).

TABLE 14
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	Perched Groundwater

CAS Number	Chemical	Minimum [1] Concentration	Minimum Qualifier	Maximum [1] Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Screening [2] Toxicity Value		COPC Flag	Rationale for [3] Contaminant Deletion or Selection
7440382	Arsenic	13.5		60		µg/L	2MW-2	9/9	N/A	60	0.09	C	YES	ASL
7440393	Barium	324		2,400		µg/L	EMW-4	9/9	N/A	2,400	5,110	N	NO	BSL
7440439	Cadmium	3.6		16		µg/L	EMW-6B	4/9	3	16	36.5	N	NO	BSL
7440473	Chromium	21.2		226		µg/L	EMW-4	9/9	N/A	226	365	N	NO	BSL
7439896	Iron	22,500		347,000		µg/L	EMW-4	9/9	N/A	347,000	21,900	N	NO	EN
7439921	Lead	10.8		174		µg/L	EMW-4	9/9	N/A	174	30	N	YES	ASL
7439976	Mercury	0.23		0.23		µg/L	2MW-2	1/9	0.2	0.23	21.9	N	NO	BSL
7782492	Selenium	5		5		µg/L	2MW-2	1/9	5	5	365	N	NO	BSL
50293	4,4'-DDT	0.49		1		µg/L	EMW-4	2/10	0.12-0.13	0.56	0.395	C	YES	HIST
319846	Alpha-BHC	0.05		0.05		µg/L	EMW-1	1/10	0.03	0.05	0.021	C	YES	HIST
72435	Methoxychlor	3.4		3		µg/L	2MW-1	1/10	1.8-1.9	3.4	365	N	NO	BSL
95501	1,2-Dichlorobenzene	7		130		µg/L	EMW-6B	4/9	10	130	1481	N	NO	BSL
541731	1,3-Dichlorobenzene	3.5		4		µg/L	1MW-3	1/9	10-50	3.5	66.1	N	NO	BSL
106467	1,4-Dichlorobenzene	4		4		µg/L	1MW-3	1/9	10-50	4	1.868	C	YES	ASL
606202	2,6-Dinitrotoluene	320		320		µg/L	1MW-5	1/9	10-50	320	73	N	YES	ASL
91576	2-Methylnaphthalene	6		6		µg/L	EMW-6B	1/9	10	6.0	188	N	NO	BSL
95487	2-Methylphenol (o-Cresol)	2		2		µg/L	EMW-1	1/9	10-50	2.0	3,650	N	NO	BSL
95761	3,4-Dichloroaniline	12		58,000		µg/L	EMW-6B	5/9	10-63	58,000	292	N	YES	NTX
106478	4-Chloroaniline	1		5,900		µg/L	EMW-6B	4/9	10	5,900	292	N	YES	ASL
84742	Di-n-butylphthalate	1.5		2		µg/L	1MW-5	2/9	10-50	2	7,300	N	NO	BSL
131113	Dimethylphthalate	10		10		µg/L	EMW-1	1/9	10-50	10	730,000	N	NO	BSL
88857	Dinoseb	42		42		µg/L	EMW-1	1/9	50-250	42	73	N	NO	BSL
91203	Naphthalene	15		15		µg/L	EMW-6B	1/9	10	15	24.8	N	NO	BSL
108952	Phenol	1		1		µg/L	EMW-4	1/9	10-50	1	43,800	N	NO	BSL
709988	Propanil	10		18		µg/L	EMW-6B	2/9	10	18	365	N	NO	BSL
111444	bis(2-Chloroethyl)ether	5		5		µg/L	EMW-4	1/9	10-50	5	0.0391	C	YES	ASL
107062	1,2-Dichloroethane	19		29,000		µg/L	2MW-1	7/10	5	29,000	0.49	C	YES	ASL
108101	4-Methyl-2-Pentanone (MIBK)	2,200		2,200		µg/L	2MW-1	1/10	50-1000	2,200	631	N	YES	ASL
67641	Acetone	4,800		4,800		µg/L	2MW-1	1/10	10-200	4,800	2433	N	YES	ASL
71432	Benzene	17		17		µg/L	EMW-6B	1/10	5-2500	17	1.55	C	YES	ASL
108907	Chlorobenzene	16		30		µg/L	EMW-6B	2/10	5-2500	30	158	N	NO	BSL
67663	Chloroform	1		700		µg/L	2MW-1	4/10	5-100	700	0.658	C	YES	ASL

TABLE 14
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	Perched Groundwater

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Screening (2) Toxicity Value		COPC Flag	Rationale for (3) Contaminant Deletion or Selection
75092	**Methylene chloride**	**600,000**		**600,000**		**µg/L**	**2MW-1**	**1/10**	**5-100**	**600,000**	**17.10**	**C**	**YES**	**ASL**
108883	Toluene	940		940		µg/L	2MW-1	1/10	5-100	940	2894	N	NO	BSL
79016	**Trichloroethene**	**28**		**28**		**µg/L**	**1MW-4**	**1/10**	**5-2500**	**28**	**6.56**	**C**	**YES**	**ASL**
1330207	Xylene (total)	1,100		1,100		µg/L	2MW-1	1/10	5-100	1,100	2,863	N	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Screening values are from EPA Region 6 Human Health Medium-Specific Screening Levels (October, 1998) modified using Region 4 PRE Guidance (USEPA, 1994). To convert residential screening values to industrial screening values, residential screening levels for volatile organic compounds are divided by 0.25. All other chemicals are divided by 0.5 to obtain the industrial screening value. The screening value for 4-chloroaniline was used as a surrogate for 3,4-dichloroaniline.
(3) Rationale Codes: Selection Reason:
Infrequent Detection but Associated Historically (HIST)
Above Screening Levels (ASL)
No Toxicity Information (NTX)
Deletion Reason:
Below Screening Level (BSL)

Definitions:
N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
µg/L = micrograms per liter

TABLE 15
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	Alluvial Groundwater

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration (2) Used for Screening	Screening (3) Toxicity Value		COPC Flag	Rationale for (4) Contaminant Deletion or Selection
79005	**1,1,2-Trichloroethane**	27		27		µg/L	4MW-3	1/75	5-5,000	0.72	0.12	C	YES	ASL
95501	**1,2-Dichlorobenzene**	17		76		µg/L	4MW-2	2/21	10	3,897	208	N	YES	ASL
107062	1,2-Dichloroethane	5.9		87,000		µg/L	EMW-7	43/75	5-10	0.58	52	N	NO	BSL
78875	**1,2-Dichloropropane**	43		43		µg/L	4MW-3	1/75	5-5,000	4.14	0.099	C	YES	ASL
78933	2-Butanone (MEK)	13		77		µg/L	OFFMW-2	2/75	10-50,000	0.54	1043	N	NO	BSL
108101	4-Methyl-2-Pentanone (MIBK)	11		2,500		µg/L	2MW-3	4/75	10-50,000	37.9	83.4	N	NO	BSL
67641	Acetone	43		2,000		µg/L	2MW-3	12/75	10-50,000	5.17	365	N	NO	BSL
71432	**Benzene**	7		46		µg/L	4MW-2	2/75	5-5,000	13.6	0.23	C	YES	ASL
75274	**Bromodichloromethane**	6.1		6.1		µg/L	4MW-4	1/75	5-5,000	0.23	0.11	C	YES	ASL
75252	Bromoform	11		11		µg/L	4MW-4	1/75	5-5,000	0.19	1.75	C	NO	BSL
75150	Carbon disulfide	14		14		µg/L	4MW-2	1/75	5-50,000	2.15	730	N	NO	BSL
108907	**Chlorobenzene**	10		470		µg/L	2MW-4	6/75	5-5,000	60	20.9	N	YES	ASL
75003	Chloroethane	79		79		µg/L	2MW-3	1/75	10-10,000	51.6	10429	N	NO	BSL
67663	**Chloroform**	3		1,400		µg/L	4MW-2	8/75	5-5,000	145	0.084	C	YES	ASL
124481	**Dibromochloromethane**	13		13		µg/L	4MW-4	1/75	5-5,000	0.19	0.08	C	YES	ASL
100414	Ethylbenzene	54		54		µg/L	EMW-3	1/75	5-5,000	17.3	1059	N	NO	BSL
75092	**Methylene chloride**	130		5,000		µg/L	9GB-21 (30')	10/75	5-10,000	498	4.09	C	YES	ASL
108883	Toluene	21		140,000		µg/L	4MW-1	8/75	5-2,500	38,151.3	402	N	YES	ASL
108054	**Vinyl acetate**	10		10		µg/L	EMW-7	1/75	5-25,000	0	209	N	NO	BSL
1330207	Xylene (total)	4		1,400		µg/L	4MW-1	7/75	5-2,500	359	730	N	NO	BSL
95476	o-Xylene	10		10		µg/L	EMW-7	1/21	10	0.01	730	N	NO	BSL
156605	trans-1,2-Dichloroethene	10		10		µg/L	EMW-7	1/64	5-2,500	27	73	N	NO	BSL

(1) Minimum/maximum detected concentration.
(2) Concentrations used for screening are modeled air concentrations. Details associated with calculation of these values is provided in Appendix B. Units are µg/m^3.
(3) Ambient air screening values (in µg/m^3)are from EPA Region 6 Human Health Medium-Specific Screening Levels (October, 1998).
(4) Rationale Codes Selection Reason: Above Screening Levels (ASL)

Deletion Reason: Below Screening Level (BSL)

Definitions:
N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
µg/m^3 = micrograms per cubic meter
µg/m^3 = micrograms per liter

9/17/99

TABLE 16
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Sediment
Exposure Medium:	Sediment
Exposure Point:	Site 1

CAS Number	Chemical	Minimum [1] Concentration	Minimum Qualifier	Maximum [1] Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Screening [2] Toxicity Value		COPC Flag	Rationale for [3] Contaminant Deletion or Selection
7440382	**Arsenic**	**19**		**123**		**mg/kg**	**1SED-3**	**3/3**	**N/A**	**123**	**0.38**	**C**	**YES**	**ASL**
7440393	Barium	27.8		69.2		mg/kg	1SED-3	3/3	N/A	69.2	5,155	N	NO	BSL
7440439	Cadmium	0.63		0.94		mg/kg	1SED-1	2/3	0.37	0.94	37.5	N	NO	BSL
7440473	**Chromium**	**16.7**		**82**		**mg/kg**	**1SED-3**	**3/3**	**N/A**	**82**	**30**	**C**	**YES**	**ASL**
7439921	Lead	11.4		15.9		mg/kg	1SED-1	3/3	N/A	15.9	400		NO	BSL
7439976	Mercury	2.7		3.3		mg/kg	1SED-3	2/3	0.12	3.3	22	N	NO	BSL
7440224	Silver	1.2		1.2		mg/kg	1SED-3	1/3	0.37-0.6	1.2	375	N	NO	BSL
50293	4,4'-DDT	450		450		ug/kg	1SED-3	1/3	9.9-160	450	1,663	C	NO	BSL
319857	Beta-BHC	86		180		ug/kg	1SED-1	2/3	4.9	180	3,023	C	NO	BSL
58899	gamma-BHC (Lindane)	63		63		ug/kg	1SED-1	1/3	3.3-38	63	419	C	NO	BSL
5103742	gamma-Chlordane	300		300		ug/kg	1SED-1	1/3	12-66	300	1,555	C	NO	BSL
95761	3,4-Dichloroaniline	5,500		1,200,000		ug/kg	1SED-1	3/3	N/A	1,200,000	218,013	N	NO	BSL
106445	4-Methylphenol (p-Cresol)	39,000		39,000		ug/kg	1SED-1	1/3	4,100-94,000	39,000	272,516	N	NO	BSL
117817	bis(2-Ethylhexyl)phthalate	13,000		13,000		ug/kg	1SED-3	1/3	4,100-140,000	13,000	31,715	C	NO	BSL
78933	2-Butanone (MEK)	2		1800		ug/kg	1SED-1	3/3	N/A	1800	6,871,035	N	NO	BSL
591786	2-Hexanone	12		210		ug/kg	1SED-1	2/3	62	210	114,727	sat	NO	BSL
108101	4-Methyl-2-Pentanone (MIBK)	22		22		ug/kg	1SED-3	1/3	62-460	22	747,064	N	NO	BSL
67641	Acetone	280		1,200		ug/kg	1SED-1	2/3	12	1,200	1,445,855	N	NO	BSL
71432	Benzene	6		30		ug/kg	1SED-1	2/3	6	30	621	C	NO	BSL
108907	Chlorobenzene	66		190		ug/kg	1SED-1	2/3	6	190	53,931	N	NO	BSL
100414	Ethylbenzene	19		19		ug/kg	1SED-3	1/3	6-46	19	233,948	sat	NO	BSL
108883	Toluene	87		170		ug/kg	1SED-1	2/3	6	170	521,170	sat	NO	BSL
1330207	Xylene (total)	74		330		ug/kg	1SED-3	2/3	6	330	214,480	sat	NO	BSL

(1) Minimum/maximum detected concentration.

(2) Residential soil screening values are from USEPA Region 6 Human Health Medium-Specific Screening Levels (USEPA, 1998).
The screening value for 4-chloroaniline was used as a surrogate for 3,4-dichloroaniline.

(3) Rationale Codes Selection Reason: Above Screening Levels (ASL)

Deletion Reason: Below Screening Level (BSL)
No Toxicity Information (NTX)

Definitions:
N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
sat = Screening level based on the soil saturation equation (USEPA, 1996)
mg/kg = milligram per kilogram
ug/kg = microgram per kilogram

TABLE 17
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Sediment
Exposure Medium:	Sediment
Exposure Point:	Site 3

CAS Number	Chemical	Minimum (1) Concentration	Minimum Qualifier	Maximum (1) Concentration	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Screening (2) Toxicity Value		COPC Flag	Rationale for (3) Contaminant Deletion or Selection
7440382	**Arsenic**	**3.6**		**222**		**mg/kg**	**3SED-9**	**11/34**	**5**	**222**	**0.38**	**C**	**YES**	**ASL**
7440393	Barium	87.2		215		mg/kg	3SED-10	10/10	N/A	215	5,155	N	NO	BSL
7440473	Chromium	6		19.1		mg/kg	3SED-6	10/10	N/A	19.1	30.1	C	NO	BSL
7439921	Lead	7.4		13.9		mg/kg	3SED-2	10/10	N/A	13.9	400		NO	BSL
72548	4,4'-DDD	7.6		170		ug/kg	3SED-20-N	10/34	7-91	170	2,356	C	NO	BSL
72559	4,4'-DDE	5.1		78		ug/kg	3SED-20-S	8/34	2.7-33	78	1,663	C	NO	BSL
50293	4,4'-DDT	8		91		ug/kg	3SED-21-S	4/34	8-99	91	1,663	C	NO	BSL
309002	**Aldrin**	**2.8**		**354**		**ug/kg**	**3SED-3**	**4/34**	**2.7-33**	**354**	**26.1**	**C**	**YES**	**ASL**
60571	**Dieldrin**	**2**		**3,400**		**ug/kg**	**3SED-3**	**13/34**	**1.3-17**	**3,400**	**27.8**	**C**	**YES**	**ASL**
72208	Endrin	76		89		ug/kg	3SED-21-N	2/34	4-50	89	16,351	N	NO	BSL
5349470	Endrin ketone	19		19		ug/kg	3SED-10	1/10	20-200	19	16,351	N	NO	BSL
58899	gamma-BHC (Lindane)	18		18		ug/kg	3SED-20-N	1/34	2.7-33	18	419	C	NO	BSL
72435	Methoxychlor	130		3,600		ug/kg	3SED-1	21/34	120-460	3,600	272,516	N	NO	BSL
8001352	**Toxaphene**	**1,600**		**1,600**		**ug/kg**	**3SED-21-S**	**1/34**	**160-2,000**	**1,600**	**404**	**C**	**YES**	**ASL**
120821	1,2,4-Trichlorobenzene	92		230		ug/kg	3SED-2	2/10	380-930	230	475,478	N	NO	BSL
95501	1,2-Dichlorobenzene	120		300		ug/kg	3SED-3	2/10	380-930	300	372,612	sat	NO	BSL
91576	2-Methylnaphthalene	550		550		ug/kg	3SED-5	1/10	380-930	550	54,918	N	NO	BSL
95761	3,4-Dichloroaniline	310		100,000		ug/kg	3SED-5	8/10	830-930	100,000	N/A		NO	NTX
106478	4-Chloroaniline	190		500		ug/kg	3SED-3	2/10	380-930	500	218,013	N	NO	BSL
100027	4-Nitrophenol	350		350		ug/kg	3SED-1	1/10	930-4,600	350	3,379,204	N	NO	BSL
117840	Di-n-octylphthalate	180		180		ug/kg	3SED-8	1/10	380-930	180	1,090,066	N	NO	BSL
88857	Dinoseb	4,000		4,000		ug/kg	3SED-7	1/10	930-6,300	4,000	54,503	N	NO	BSL
91203	Naphthalene	86		86		ug/kg	3SED-5	1/10	380-930	86	54,918	N	NO	BSL
87865	**Pentachlorophenol**	**200**		**5,300**		**ug/kg**	**3SED-1**	**2/10**	**930-4,600**	**5,300**	**2,535**	**C**	**YES**	**ASL**
709988	Propanil	44		110		ug/kg	3SED-2	2/10	790-930	110	272,516	N	NO	BSL
107062	1,2-Dichloroethane	43		43		ug/kg	3SED-10	1/10	6-7	43	339	C	NO	BSL
67641	Acetone	130		130		ug/kg	3SED-3	1/10	11-14	130	1,445,855	N	NO	BSL
108907	Chlorobenzene	11		34		ug/kg	3SED-2	2/10	6-7	34	53,931	N	NO	BSL
100414	Ethylbenzene	2		7		ug/kg	3SED-5	2/10	6-7	7	233,948	sat	NO	BSL
75092	Methylene chloride	2		160		ug/kg	3SED-10	2/10	6-7	160	8,506	C	NO	BSL
1330207	Xylene (total)	12		44		ug/kg	3SED-5	2/10	6-7	44	214,480	sat	NO	BSL

(1) Minimum/maximum detected concentration.

(2) Background concentration calculated using the arithmetic mean plus two standard deviations.

(3) Residential soil screening values are from USEPA Region 6 Human Health Medium-Specific Screening Levels (USEPA, 1998).
The following screening values were used as surrogates:
– Endrin was used for endrin ketone.
– 4-Chloroaniline was used for 3,4-dichloroaniline.

(4) Rationale Codes: Selection Reason: Above Screening Levels (ASL)
Deletion Reason: Below Screening Level (BSL)

Definitions:
N/A = Not Applicable
COPC = Chemical of Potential Concern
C = Carcinogenic
N = Non-Carcinogenic
sat = Screening level based on the soil saturation equation (USEPA, 1996)
mg/kg = milligram per kilogram
ug/kg = microgram per kilogram

TABLE 18
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Current/Future
Medium: Soil
Exposure Medium: Surface Soil
Exposure Point: Site 1 Surface Soil

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Arsenic	mg/kg	10.1	14.4	44.6		mg/kg	14.4	UCL-T	(1)	10.1	Mean-N	(3)
Dieldrin	mg/kg	0.59	NA	0.59		mg/kg	0.59	MAX	(2)	0.59	Mean-N	(3)
1,2-Dichloroethane	mg/kg	3.8	NA	7.5		mg/kg	7.5	MAX	(2)	3.8	Mean-N	(3)

UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
mg/kg = milligram per kilogram
UCL-T = 95% UCL of Log-transformed Data
MAX = Maximum Detected Value
NA = Not Applicable

For specific information regarding the calculation of the UCL refer to Appendix B.

TABLE 19
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 2 Surface Soil

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Aldrin	mg/kg	0.0345	N/A	0.058		mg/kg	0.058	MAX	(1)	0.035	Mean-N	(2)
Dinoseb	mg/kg	100	N/A	100		mg/kg	100	MAX	(1)	100	Mean-N	(2)

MAX = Maximum Detected Value

(1) Sample population (n) is 2. A UCL could not be calculated.

(2) The mean concentration is most representative value for the central tendency exposure calculation.

TABLE 20
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 4 Surface Soil

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Dieldrin	mg/kg	0.216	N/A	0.455		mg/kg	0.455	MAX	(1)	0.22	Mean-N	(2)
Dinoseb	mg/kg	170	248.4	840		mg/kg	248	UCL-T	(1)	170	Mean-N	(2)

EPC = Exposure Point Concentration
MAX = Maximum Detected Value
UCL-T = 95% UCL of Log-transformed Data

For specific information regarding the calculation of the UCL refer to Appendix B.

(1) The data distribution was neither normal nor lognormal ; therefore, the maximum concentration was selcted as the EPC.
(2) The mean concentration is most representative value for the central tendency exposure calculation.

TABLE 21
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 6 Surface Soil

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Aldrin	mg/kg	0.043	0.017	0.24		mg/kg	0.017	UCL-T	(1)	0.04	Mean-N	(2)
Dieldrin	mg/kg	0.033	0.031	0.078		mg/kg	0.031	UCL-T	(1)	0.03	Mean-N	(2)
Methoxychlor	mg/kg	31	20.1	340		mg/kg	20.1	UCL-T	(1)	31	Mean-N	(2)
Toxaphene	mg/kg	8.25	0.78	14		mg/kg	0.78	UCL-T	(1)	8.3	Mean-N	(2)
Dinoseb	mg/kg	20.3	38	160		mg/kg	38	UCL-T	(1)	20.3	Mean-N	(2)

MAX = Maximum Detected Value
UCL-T = 95% UCL of Log-transformed Data
EPC = Exposure Point Concentration
N/A = Not Applicable

(1) The UCL-T is less than the maximum concentration.
(2) The mean concentration is most representative value for the central tendency exposure calculation.

TABLE 22
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 9 Surface Soil

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Heptachlor	mg/kg	0.15	N/A	2		mg/kg	1.5	MAX	(1)	0.15	Mean-N	(3)
3,4-Dichloroaniline	mg/kg	112	42,227,172	450		mg/kg	450	MAX	(2)	112	Mean-N	(3)
Dinoseb	mg/kg	7,593	17,181,279	29,000		mg/kg	29,000	MAX	(2)	7593	Mean-N	(3)
Propanil	mg/kg	3796	36,428,134	4,000		mg/kg	4,000	MAX	(2)	3796	Mean-N	(3)

UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
MAX = Maximum Detected Value
N/A = Not Applicable

(1) The population of the data set is 2. A UCL could not be calculated.
(2) The UCL is greater than the maximum detected concentration; therefore, the maximum concentration was selected as the EPC.
(3) The mean concentration is most representative value for the central tendency exposure calculation.

TABLE 23
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 1 Subsurface Soil

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Arsenic	mg/kg	8.5	9.9	44.6		mg/kg	9.9	UCL-N	(1)	8.5	Mean-N	(2)
Dieldrin	mg/kg	0.59	0.016	0.6		mg/kg	0.016	UCL-N	(1)	0.59	Mean-N	(2)
1,2-Dichloroethane	mg/kg	2.6	0.43	7.5		mg/kg	0.43	UCL-N	(1)	2.6	Mean-N	(2)

UCL = Upper Confidence Limit
MAX = Maximum Detected Value
EPC = Exposure Point Concentration
mg/kg = milligram per kilogram
UCL-N = 95% UCL of Normal Data
Mean-N = Mean of Normal Data

(1) The UCL-N is less than the maximum concentration; therefore, the UCL-N was selected as the EPC.
(2) The mean concentration is most representative value for the central tendency exposure calculation.

TABLE 24
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 2 Subsurface Soil

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Arsenic	mg/kg	10.7	18.3	69		mg/kg	18.3	UCL-T	(1)	11	Mean-N	(4)
Cadmium	mg/kg	10.1	2.1	162		mg/kg	2.1	UCL-T	(1)	10	Mean-N	(4)
Aldrin	mg/kg	0.16	0.0363	0.50		mg/kg	0.036	UCL-T	(1)	0.16	Mean-N	(4)
Dieldrin	mg/kg	0.087	368.5	0.35		mg/kg	0.35	MAX	(2)	0.087	Mean-N	(4)
1,2-Dichloroethane	mg/kg	14.8	567	170		mg/kg	170	MAX	(2)	15	Mean-N	(4)
Carbon tetrachloride	mg/kg	0.67	N/A	0.67		mg/kg	0.67	MAX	(3)	0.67	Mean-N	(3)
Chloroform	mg/kg	1.4	24.53	13		mg/kg	13	MAX	(2)	1.4	Mean-N	(4)
Methylene chloride	mg/kg	36.5	2361	380		mg/kg	380	MAX	(2)	37	Mean-N	(4)

UCL = Upper Confidence Limit
MAX = Maximum Detected Value
EPC = Exposure Point Concentration
mg/kg = milligram per kilogram
UCL-T = 95% UCL of Lognormal Data
Mean-N = Mean of Normal Data

(1) The UCL-T is less than the maximum concentration.
(2) The maximum concentration was less than the UCL.
(3) Only one detection at this site; therefore, the maximum concentration was selected as the EPC.
(4) The mean concentration is most representative value for the central tendency exposure calculation.

TABLE 25
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 3 Subsurface Soil

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Dinoseb	mg/kg	2,784	N/A	13,000		mg/kg	13,000	MAX	(1)	2,784	Mean	(2)

UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
mg/kg = milligrams per kilogram
N/A = Not Applicable
MAX = Maximum detected value
Mean = Arithmetic Mean

(1) Data set less than 10.
(2) The mean concentration is most representative value for the central tendency exposure calculation.

TABLE 26
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 4 Subsurface Soil

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Arsenic	mg/kg	6.22	8.72	15.5		mg/kg	8.72	UCL-T	(1)	6.22	Mean-N	(3)
Dieldrin	mg/kg	0.22	0.037	0.63		mg/kg	0.03695	UCL-T	(1)	0.22	Mean-N	(3)
3,4-Dichloroaniline	mg/kg	602	15083.2	12000		mg/kg	12000	MAX	(2)	601.7	Mean-N	(3)
Dinoseb	mg/kg	152	22273.8	1100		mg/kg	1,100	MAX	(2)	152.1	Mean-N	(3)
1,2-Dichloroethane	mg/kg	0.24	0.12	0.8		mg/kg	0.12	UCL-T	(1)	0.24	Mean-N	(3)

UCL = Upper Confidence Limit
MAX = Maximum Detected Value
UCL-T = 95% UCL of Log-transformed Data

(1) The 95% UCL-T was less than the maximum concentration.
(2) The 95% UCL-T was greater than the maximum concentration.
(3) The mean concentration is most representative value for the central tendency exposure calculation.

TABLE 27
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 5 Subsurface Soil

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Arsenic	mg/kg	8	N/A	10		mg/kg	9.7	MAX	(1)	8	Mean-N	(2)
Dinoseb	mg/kg	39	N/A	170		mg/kg	170	MAX	(1)	39	Mean-N	(2)

UCL = Upper Confidence Limit
MAX = Maximum Detected Value
EPC = Exposure Point Concentration
N/A = Not Applicable
mg/kg = milligram per kilogram

(1) The population of the data set is three, a 95% UCL could not be calculated.
(2) The mean concentration is most representative value for the central tendency exposure calculation.

TABLE 28
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 9 Subsurface Soil

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Arsenic	mg/kg	5	N/A	7		mg/kg	7.3	MAX	(1)	5	Mean-N	(3)
3,4-Dichloroaniline	mg/kg	80	208,229	450		mg/kg	450	MAX	(2)	80	Mean-N	(3)
Dinoseb	mg/kg	3,708	510,867	29,000		mg/kg	29,000	MAX	(2)	3708	Mean-N	(3)
Propanil	mg/kg	1,854	203,639	4,000		mg/kg	4,000	MAX	(2)	1854	Mean-N	(3)

UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
mg/kg = milligram per kilogram
MAX = Maximum Detected Value
Mean-N = Arithemetic Mean of Normal Data

For specific information regarding the calculation of the UCL refer to Appendix B.

(1) The data set is 2. A UCL could not be calculated.

TABLE 29
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Sediment
Exposure Medium:	Sediment
Exposure Point:	Site 1

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Arsenic	mg/kg	67.7	N/A	123		mg/kg	123	MAX	(1)	67.7	Mean-N	(2)
Chromium	mg/kg	50.2	N/A	82		mg/kg	82	MAX	(1)	50.2	Mean-N	(2)

UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
mg/kg = milligram per kilogram
N/A = Not Applicable
MAX = Maximum Detected Value
Mean-N = Arithmetic Mean of Normal Data

(1) The population of the data set is 3. The 95% UCL could not be calculated.
(2) The mean concentration is most representative value for the central tendency exposure calculation.

TABLE 30
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Sediment
Exposure Medium:	Sediment
Exposure Point:	Site 3

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Arsenic	mg/kg	27.6	8.36	222		mg/kg	8.36	UCL-T	(1)	27.6	Mean-N	(4)
Aldrin	mg/kg	0.10	0.011	0.35		mg/kg	0.011	UCL-T	(1)	0.1	Mean-N	(4)
Dieldrin	mg/kg	0.33	0.2	3.4		mg/kg	0.245	UCL-T	(1)	0.3	Mean-N	(4)
Toxaphene	mg/kg	1.6	N/A	1.6		mg/kg	1.6	MAX	(2)	1.6	Mean-N	(4)
Pentachlorophenol	mg/kg	2.8	6.2	5.3		mg/kg	5.3	MAX	(3)	2.8	Mean-N	(4)

UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
mg/kg = milligram per kilogram
UCL-T = 95th Percentile Upper Confidence Limit for Log-transformed Data
N/A = Not Applicable
MAX = Maximum Detected Value

For specific information regarding the calculation of the UCL refer to Appendix B.

TABLE 31
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	Perched Groundwater

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
Arsenic	µg/L	34	49.94	60.4		µg/L	49.94	UCL-T	(1)	34	Mean-N	(3)
Lead	µg/L	48	105.26	174		µg/L	105.26	UCL-T	(1)	48	Mean-N	(3)
4,4'-DDT	µg/L	0.154	0.34	0.56		µg/L	0.34	UCL-T	(1)	0.154	Mean-N	(3)
Alpha-BHC	µg/L	0.05	0.02	0.05		µg/L	0.02	UCL-T	(1)	0.05	Mean-N	(3)
1,4-Dichlorobenzene	µg/L	4	10.75	4		µg/L	4	MAX	(2)	4	Mean-N	(3)
2,6-Dinitrotoluene	µg/L	320	220.59	320		µg/L	220.59	UCL-T	(1)	320	Mean-N	(3)
4-Chloroaniline	µg/L	686	840,454	5,900		µg/L	5900	MAX	(2)	686	Mean-N	(3)
bis(2-Chloroethyl)ether	µg/L	5	10.75	5		µg/L	5	MAX	(2)	5	Mean-N	(3)
Dinoseb	µg/L	42	107.32	42.000		µg/L	42	MAX	(2)	42	Mean-N	(3)
1,2-Dichloroethane	µg/L	3,666	280,961,146	29,000		µg/L	29,000	MAX	(2)	3,666	Mean-N	(3)
4-Methyl-2-Pentanone (MIBK)	µg/L	2,200	5,672	2,200		µg/L	2,200	MAX	(2)	2,200	Mean-N	(3)
Acetone	µg/L	4,800	N/A	4,800		µg/L	4,800	MAX	(2)	4,800	Mean-N	(3)
Benzene	µg/L	138.7	4,215	17		µg/L	17	MAX	(2)	139	Mean-N	(3)
Chloroform	µg/L	176	3,837	700		µg/L	700	MAX	(2)	176	Mean-N	(3)
Methylene chloride	µg/L	60,015	7,457,119,902	600,000		µg/L	600,000	MAX	(2)	60,015	Mean-N	(3)
Trichloroethene	µg/L	138.6	4,148	28		µg/L	28	MAX	(2)	139	Mean-N	(3)

UCL = Upper Confidence Limit
EPC = Exposure Point Concentration
µg/L = microgram per liter
UCL-T = 95th Percentile Upper Confidence Limit for Log-transformed Data
Mean-N = Arithmetic Mean of Normal Data
MAX = Maximum Detected Value

For specific information regarding the calculation of the UCL refer to Appendix B.

(1) The maximum concentration is greater than the 95% UCL. The 95% UCL was selected as the EPC.

TABLE 32
MEDIUM-SPECIFIC EXPOSURE POINT CONCENTRATION SUMMARY
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	Alluvial Groundwater

Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL of Normal Data	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Reasonable Maximum Exposure			Central Tendency		
							Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale	Medium EPC Value	Medium EPC Statistic	Medium EPC Rationale
1,1,2-Trichloroethane	µg/L	27	45.9	27		µg/L	27	MAX	(1)	27	Mean-N	(3)
1,2-Dichlorobenzene	µg/L	47	10.0	76		µg/L	10.02	UCL-T	(2)	47	Mean-N	(3)
1,2-Dichloroethane	µg/L	8,294	72816	87,000		µg/L	72815.77	UCL-T	(2)	8294	Mean-N	(3)
1,2-Dichloropropane	µg/L	43	51.1	43		µg/L	43	MAX	(1)	43	Mean-N	(3)
Benzene	µg/L	26.5	47.5	46		µg/L	46	MAX	(1)	27	Mean-N	(3)
Bromodichloromethane	µg/L	6.1	44.3	6.1		µg/L	6.1	MAX	(1)	6	Mean-N	(3)
Chlorobenzene	µg/L	135	68.9	470		µg/L	68.91	UCL-T	(2)	135	Mean-N	(3)
Chloroform	µg/L	387	102.5	1,400		µg/L	102.52	UCL-T	(2)	387	Mean-N	(3)
Dibromochloromethane	µg/L	13	44.9	13		µg/L	13	MAX	(1)	13	Mean-N	(3)
Methylene Chloride	µg/L	1471	647.6	5,000		µg/L	647.57	UCL-T	(2)	1471	Mean-N	(3)
Vinyl Acetate	µg/L	10	312.3	10		µg/L	10	MAX	(1)	10	Mean-N	(3)
trans-1,2-Dichloroethene	µg/L	10	N/A	10		µg/L	10	MAX	(1)	10	Mean-N	(3)

MAX = Maximum detected value
UCL = Upper confidence limit
EPC = Exposure point concentration
N/A = Not applicable
µg/L = micrograms per liter

For specific information regarding the calculation of the UCL refer to Appendix B.

(1) The maximum detected concentration is less than 95% UCL, therefore, the maximum concentration was selected as the EPC.
(2) The 95% UCL is less than maximum detected concentration; therefore, the 95% UCL was selected as the EPC.

TABLE 33
ESTIMATED AIR CONCENTRATIONS FROM IRRIGATED WATER
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Chemical	Avg. Conc. (mg/L)	Avg. Inhal. Conc. (mg/m^3)	Max. Conc. mg/L	Max. Inhal. Conc. (mg/m^3)	Henry's Constant ($atm\text{-}m^3/gmole$)	Notes
1,1,2-Trichloroethane	0.027	0.72	0.027	0.72	9.13E-04	
1,2-Dichloroethane	6.3	262.7	87	3,897	1.10E-03	
1,2-Dichlorobenzene	0.047	0.36	0.076	0.58	5.00E-04	a
1,2-Dichloropropane	0.043	4.14	0.043	4.14	2.82E-03	
2-Butanone (MEK)	0.045	0.31	0.077	0.54	1.31E-04	
4-Methyl-2-Pentanone	0.888	13.5	2.5	37.9	3.93E-04	a
Acetone	0.47	1.2	2	5.17	3.88E-05	
Benzene	0.027	7.82	0.046	13.6	5.50E-03	
Bromodichloromethane	0.0061	0.23	0.0061	0.23	1.61E-03	a
Bromoform	0.011	0.19	0.011	0.19	5.00E-04	
Carbon Disulfide	0.014	2.2	0.014	2.2	3.03E-03	
Chlorobenzene	0.135	12.5	0.47	60	3.70E-03	
Chloroethane	0.079	51.6	0.079	51.6	1.10E-02	
Chloroform	0.387	40.1	1.4	145	3.20E-03	
Dibromochloromethane	0.013	0.19	0.013	0.19	7.89E-04	a
Ethylbenzene	0.054	17.3	0.054	17.3	8.80E-03	
Methylene Chloride	1.471	146.5	5	498	2.19E-03	
o-Xylene	0.01	1.89	0.01	1.89	5.19E-03	
Toluene	31.4	8,519	140	38,151	6.60E-03	
trans-1,2-Dichloroethene	0.01	26.7	0.01	26.7	6.70E-02	
Vinyl Acetate	0.01	0.23	0.01	0.23	5.10E-04	
Xylene (total)	0.22	57.53	1.4	359	7.04E-03	a

Notes:
a - Converted using $H_c = H' \times R \times T$
H_c = Henry's Law Constant
H' = Henry's Law (dimensionless)
R = Gas constant (8.2057×10^{-5} $atm\text{-}m^3/gmole\text{-}K$)
T = Temperature (Kelvin scale)

TABLE 34
VALUES USED FOR DAILY INTAKE CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil
Exposure Point: Sites 1, 2, 3, 4, 5, 6, 8, 9
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation/ Model Name
Ingestion	IR-S	Ingestion Rate of Soil	mg/day	480	USEPA, 1997	50[a]	USEPA, 1997	CDI ing = (IR)(CF)(FI)(EF)(ED) / (BW)(AT)
	EF	Exposure Frequency	days/year	60[b]	USEPA, 1989	20[c]	Conservative assumption	
	ED	Exposure Duration	years	1	Conservative assumption	1	Conservative assumption	
	FI	Fraction ingested from contaminated source	unitless	1	Conservative assumption	1	Conservative assumption	
	CF	Conversion Factor	kg/mg	1.00E-06	SI system	1.00E-06	SI system	
	BW	Body Weight	kg	70	USEPA, 1989	70	USEPA, 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA, 1989	25,550	USEPA, 1989	
	AT-N	Averaging Time (Noncancer)	days	365	USEPA, 1989	365	USEPA, 1989	
Inhalation	InR-S	Inhalation Rate of Soil	m^3/day	20	USEPA, 1989	15.2[d]	USEPA, 1997	CDI inh = (IR)(EF)(ED)[(1/VF)+(1/PEF)] / (BW)(AT)
	EF	Exposure Frequency	days/year	60[b]	USEPA, 1989	20[c]	USEPA, 1989	
	ED	Exposure Duration	years	1	Conservative assumption	1	Conservative assumption	
	BW	Body Weight	kg	70	USEPA, 1989	70	USEPA, 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA, 1989	25,550	USEPA, 1989	
	AT-N	Averaging Time (Noncancer)	days	365	USEPA, 1989	365	USEPA, 1989	
	PEF	Particulate Emission Factor	m^3/kg	1.32E+09	USEPA, 1996	1.32E+09	USEPA, 1996	
	VF	Volatilization Factor	m^3/kg	Chemical specific	USEPA, 1996	Chemical specific	USEPA, 1996	
Dermal	EF	Exposure Frequency	days/year	60[b]	USEPA, 1989	20[c]	USEPA, 1989	CDI derm = (CF)(SA)(AF)(ABSd)(EF)(ED) / (BW)(AT)
	ED	Exposure Duration	years	1	Conservative assumption	1	Conservative assumption	
	CF	Conversion Factor	kg/mg	1.00E-06	SI system	1.00E-06	SI system	
	SA	Skin Surface Area Available for Contact	cm^2	4,100	USEPA, 1997	3800[e]	USEPA, 1997	
	ABSd	Dermal Absorption Factor	unitless	Chemical specific	USEPA, 1996	Chemical specific	USEPA, 1996	
	AF	Soil to Skin Adherence Factor	mg/cm^2	1	USEPA, 1995	0.0367[f]	USEPA, 1995	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA, 1989	25,550	USEPA, 1989	
	AT-N	Averaging Time (Noncancer)	days	365	USEPA, 1989	365	USEPA, 1989	

RME = Reasonable Maximum Exposure
CT = Central Tendency
mg = milligram
kg = kilogram
SI system = International System of Units
m^3 = cubic meters
cm^2 = square centimeters

USEPA, 1989, Risk Assessment Guidance for Superfund - Volume I: Human Health Evaluation Manual (Part A) Interim Final. (EPA/540/1/89/002). Washington, DC: Office of Emergency and Remedial Response.
USEPA, 1997. Exposure Factors Handbook. Washington, DC: Office of Emergency and Remedial Response.
USEPA, 1996. Soil Screening Guidance: User's Guide, 2nd Edition. Washington, DC: Office of Solid Waste and Emergency Response. (Publication 9355.4-23).
USEPA, 1998. EPA Region 6 Human Health Medium-Specific Screening Levels. October.
USEPA, 1995. EPA Region 4: Supplemental Guidance to RAGS: Bulletin 3: Exposure Assessment. Atlanta, GA: Office of Health Assessment - Waste Management Division.

a - Central estimate of soil ingestion for adults.
b - Exposure frequency based on period of time the construction worker is exposed to contaminated soil during excavation activities.
c - Conservative estimate based on a 1 worker month per year frequency. Value obtained from the Department of Energy Oak Ridge Reservation, Risk Assessment Information System website at http://risk.lsd.ornl.gov/homepage/rap_tool.htm.
d - Mean inhalation rate for adult males ages 16 -65+ years.
e - 50th percentile skin surface area based on exposed head (1300 sq. cm), forearms (1310 sq. cm), and hands (990 sq. cm).

TABLE 35
INGESTION-SPECIFIC INTAKE FACTOR
REASONABLE MAXIMUM EXPOSURE
CONSTRUCTION WORKER EXPOSURE: INGESTION OF CHEMICALS IN SOIL AND DUST
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF oral kg/kg-day	= ((	IR mg/day	)x(	EF days/yr	)x(	ED yr	)x(	FI Unitless	)x(	CF kg/mg	) ÷ ((	BW kg	)x(	AT days	)))
NONCARCINOGENIC	1.13E-06	= ((	480	)x(	60	)x(	1	)x(	1	)x(	1.00E-06	) ÷ ((	70	)x(	365	)))
CARCINOGENIC	1.61E-08	= ((	480	)x(	60	)x(	1	)x(	1	)x(	1.00E-06	) ÷ ((	70	)x(	25,550	)))

See Table 34 for definitions and sources of equation variables identified as follows:

IF = intake factor
AT = averaging time
BW = body weight
FI = fraction ingested
IR = ingestion rate
EF = exposure frequency
ED = exposure duration
CF = conversion factor

TABLE 36
DERMAL-SPECIFIC INTAKE FACTOR
REASONABLE MAXIMUM EXPOSURE
CONSTRUCTION WORKER EXPOSURE: DERMAL CONTACT WITH CHEMICALS IN SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF derm = ((SA)x(AF)x(ABS)x(EF)x(ED)x(CF) + ((BW)x(AT)))
	kg/kg-day = ((cm^2/event)x(mg/cm^2)x(unitless)x(events/year)x(years)x(kg/mg) + ((kg)x(days)))
NONCARCINOGENIC	
Arsenic	2.89E-07 = ((4.10E+03)x(1)x(3.00E-02)x(60)x(1)x(1.00E-06) + ((70)x(365)))
Other Metals	9.63E-08 = ((4.10E+03)x(1)x(1.00E-02)x(60)x(1)x(1.00E-06) + ((70)x(365)))
Aldrin	9.63E-07 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(365)))
Dieldrin	9.63E-07 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(365)))
Methoxychlor	9.63E-07 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(365)))
Heptachlor	9.63E-07 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(365)))
Dinoseb	9.63E-07 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(365)))
Toxaphene	9.63E-07 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(365)))
3,4-Dichloroaniline	4.01E-06 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(365)))
Propanil	9.63E-07 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(365)))
1,2-Dichloroethane	9.63E-07 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(365)))
Carbon tetrachloride	9.63E-07 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(365)))
Chloroform	9.63E-07 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(365)))
Methylene chloride	
CARCINOGENIC	
Arsenic	4.13E-09 = ((4.10E+03)x(1)x(3.00E-02)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))
Other Metals	1.38E-09 = ((4.10E+03)x(1)x(1.00E-02)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))
Aldrin	1.38E-08 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))
Dieldrin	1.38E-08 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))
Methoxychlor	1.38E-08 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))
Heptachlor	1.38E-08 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))
Dinoseb	1.38E-08 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))
Toxaphene	1.38E-08 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))
3,4-Dichloroaniline	1.38E-08 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))
Propanil	1.38E-08 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))
1,2-Dichloroethane	1.38E-08 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))
Carbon tetrachloride	1.38E-08 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))
Chloroform	1.38E-08 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))
Methylene chloride	1.38E-08 = ((4.10E+03)x(1)x(1.00E-01)x(60)x(1)x(1.00E-06) + ((70)x(25,550)))

See Table 34 for definitions and sources of equation variables identified as follows:

IF = intake factor
CF = conversion factor
SA = skin surface area available for contact
AF = soil to skin adherence factor
ABS = absorption factor
EF = exposure frequency
ED = exposure duration
BW = body weight
AT = averaging time

TABLE 37
INHALATION-SPECIFIC INTAKE FACTOR
REASONABLE MAXIMUM EXPOSURE
CONSTRUCTION WORKER EXPOSURE: INHALATION OF AIRBORNE CHEMICALS FROM SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IFinh kg/kg-day	= ((	IR m^3/day	)x(	EF days/yr	)x(	ED yr	)x(1 /	PEF m^3/kg	+ 1 /	VF m^3/kg	)) + ((	BW kg	)x(	AT days	)))
NONCARCINOGENIC EFFECTS																
Metals	3.56E-11	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Aldrin	3.56E-11	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Dieldrin	3.56E-11	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Methoxychlor	3.56E-11	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Heptachlor	3.56E-11	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Dinoseb	3.56E-11	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Toxaphene	3.56E-11	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
3,4-Dichloroaniline	3.56E-11	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Propanil	3.56E-11	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
1,2-Dichloroethane	2.24E-05	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	2.10E+03	)) + ((	70	)x(	365	)))
Carbon tetrachloride	4.27E-05	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	1.10E+03	)) + ((	70	)x(	365	)))
Chloroform	3.35E-05	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	1.40E+03	)) + ((	70	)x(	365	)))
Methylene chloride	3.61E-05	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	1.30E+03	)) + ((	70	)x(	365	)))
CARCINOGENIC EFFECTS																
Metals	5.08E-13	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Aldrin	5.08E-13	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Dieldrin	5.08E-13	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Methoxychlor	5.08E-13	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Heptachlor	5.08E-13	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Dinoseb	5.08E-13	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Toxaphene	5.08E-13	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
3,4-Dichloroaniline	5.08E-13	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Propanil	5.08E-13	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
1,2-Dichloroethane	3.20E-07	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	2.10E+03	)) + ((	70	)x(	25,550	)))
Carbon tetrachloride	6.10E-07	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	1.10E+03	)) + ((	70	)x(	25,550	)))
Chloroform	4.79E-07	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	1.40E+03	)) + ((	70	)x(	25,550	)))
Methylene chloride	5.16E-07	= ((	20	)x(	60	)x(	1	)x(1 /	1.32E+09	+ 1 /	1.30E+03	)) + ((	70	)x(	25,550	)))

See Table 34 for definitions and sources of equation variables identified as follows:

IF = Intake factor
IR = Inhalation Rate
EF = Exposure frequency
ED = Exposure duration
PEF = Particulate emission factor
VF = Volatilization factor
BW = Body weight
AT = Averaging time

TABLE 3B
VALUES USED FOR DAILY INTAKE CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Site 1, 3
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation/ Model Name
Ingestion	IR	Ingestion Rate of Sediment	mg/day	50	USEPA, 1989	50	USEPA, 1997	IF = (IR)(ET)(EF)(ED)(FI)(CF) / (BW)(AT)
	EF	Exposure Frequency	days/year	60[a]	Conservative assumption	20[b]	Conservative assumption	
	ED	Exposure Duration	years	1	Conservative assumption	1	Conservative assumption	
	FI	Fraction Ingested from Contaminated Source	unitless	1	Conservative assumption	1	Conservative assumption	
	CF	Conversion Factor	kg/mg	1.00E-06	SI system	1.00E-06	SI System	
	BW	Body Weight	kg	70	USEPA, 1989	70	U.S.EPA, 1989	
	AT - N	Averaging Time - Noncancer	days	365	USEPA, 1989	365	U.S.EPA, 1989	
	AT - C	Averaging Time - Cancer	days	25,550	USEPA, 1989	25,550	U.S.EPA, 1989	
Dermal	SA	Skin Surface Area	cm^2	4,100	USEPA, 1997	3,600[c]	USEPA, 1997	IF = (SA)(AF)(ABS)(EF)(ED)(CF) / (BW)(AT)
	AF	Adherence Factor	mg/cm^2	1	USEPA, 1995	0.0367[d]	USEPA, 1995	
	ABS	Dermal Absorption Factor	unitless	Chemical Specific	USEPA, 1998	Chemical Specific	USEPA, 1998	
	EF	Exposure Frequency	days/year	60[a]	Conservative assumption	20[b]	Conservative assumption	
	ED	Exposure Duration	years	1	Conservative assumption	1	Conservative assumption	
	CF	Conversion Factor	kg/mg	1.00E-06	SI system	1.00E-06	SI system	
	BW	Body Weight	kg	70	USEPA, 1989	70	USEPA, 1989	
	AT-N	Averaging Time - Noncancer	days	365	USEPA, 1989	365	USEPA, 1989	
	AT-C	Averaging Time - Cancer	days	25,550	USEPA, 1989	25,550	USEPA, 1989	

RME = Reasonable Maximum Exposure
CT = Central Tendency
mg = milligram
kg = kilogram
SI system = International System of Units
m^3 = cubic meters
cm^2 = square centimeters

USEPA. 1989. Risk Assessment Guidance for Superfund - Volume I. Human Health Evaluation Manual (Part A) Interim Final. (USEPA/540/1/89/002). Washington, DC. Office of Emergency and Remedial Response
USEPA. 1997. Exposure Factors Handbook. Washington, DC. Office of Emergency and Remedial Response
USEPA. 1998. USEPA Region 6 Human Health Medium-Specific Screening Levels. October
USEPA. 1995. USEPA Region 4. Supplemental Guidance to RAGS: Bulletin 3. Exposure Assessment. Atlanta, GA. Office of Health Assessment - Waste Management Division

a - Exposure frequency based on period of time the construction worker is exposed to contaminated soil during excavation activities
b - Conservative estimate based on a 1 worker month per year frequency. Value obtained from the Department of Energy Oak Ridge Reservation, Risk Assessment Information System website at http://risk.lsd.ornl.gov/homepage/rsp_tool.htm
c - 50th percentile skin surface area based on exposed head (1300 sq. cm), forearms (1310 sq. cm), and hands (990 sq. cm)

TABLE 39
INGESTION-SPECIFIC INTAKE FACTOR
REASONABLE MAXIMUM EXPOSURE
CONSTRUCTION WORKER EXPOSURE: INGESTION OF CHEMICALS IN SEDIMENT
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF ing kg sediment/kg BW - day	= ((	IR mg/day	)x(	EF days/year	)x(	ED years	)x(	FI unitless	)x(	CF kg/mg	)+((	BW kg	)x(	AT days	)))
NONCARCINOGENIC EFFECTS	1.17E-07	= ((	50	)x(	60	)x(	1	)x(	1	)x(	1E-06	)+((	70	)x(	365	)))
CARCINOGENIC EFFECTS	1.68E-09	= ((	50	)x(	60	)x(	1	)x(	1	)x(	1E-06	)+((	70	)x(	25,550	)))

See Table 38 for definitions and sources of equation variables identified as follows:

IF = intake factor
ET = exposure time
EF = exposure frequency
ED = exposure duration
FI = fraction ingested from contaminated source

IR = ingestion rate
EF = exposure frequency
ED = exposure duratnion
CF = conversion factor

TABLE 40
DERMAL-SPECIFIC INTAKE FACTOR
REASONABLE MAXIMUM EXPOSURE
CONSTRUCTION WORKER EXPOSURE: DERMAL CONTACT WITH CHEMICALS IN SEDIMENT
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

	IF derm	= ((	SA	)x(	AF	)x(	ABS	)x(	EF	)x(	ED	)x(	CF	)+((	BW	)x(	AT	)))
EQUATION UNITS	kg sediment/kg BW - day		cm^2		mg/cm^2		unitless		days/year		year		kg/mg		kg		days	
NONCARCINOGENIC																		
Arsenic	2.89E-07	= ((	4.1E+03	)x(	1	)x(	3.0E-02	)x(	60	)x(	1	)x(	1.E-06	)+((	70	)x(	365	)))
Aldrin	9.63E-07	= ((	4.1E+03	)x(	1	)x(	1.0E-01	)x(	60	)x(	1	)x(	1.E-06	)+((	70	)x(	365	)))
Dieldrin	9.63E-07	= ((	4.1E+03	)x(	1	)x(	1.0E-01	)x(	60	)x(	1	)x(	1.E-06	)+((	70	)x(	365	)))
Toxaphene	9.63E-07	= ((	4.1E+03	)x(	1	)x(	1.0E-01	)x(	60	)x(	1	)x(	1.E-06	)+((	70	)x(	365	)))
Pentachlorophenol	2.41E-06	= ((	4.1E+03	)x(	1	)x(	2.5E-01	)x(	60	)x(	1	)x(	1.E-06	)+((	70	)x(	365	)))
CARCINOGENIC																		
Arsenic	4.13E-09	= ((	4.1E+03	)x(	1	)x(	3.0E-02	)x(	60	)x(	1	)x(	1.E-06	)+((	70	)x(	25,550	)))
Aldrin	1.38E-08	= ((	4.1E+03	)x(	1	)x(	1.0E-01	)x(	60	)x(	1	)x(	1.E-06	)+((	70	)x(	25,550	)))
Dieldrin	1.38E-08	= ((	4.1E+03	)x(	1	)x(	1.0E-01	)x(	60	)x(	1	)x(	1.E-06	)+((	70	)x(	25,550	)))
Toxaphene	1.38E-08	= ((	4.1E+03	)x(	1	)x(	1.0E-01	)x(	60	)x(	1	)x(	1.E-06	)+((	70	)x(	25,550	)))
Pentachlorophenol	3.44E-08	= ((	4.1E+03	)x(	1	)x(	2.5E-01	)x(	60	)x(	1	)x(	1.E-06	)+((	70	)x(	25,550	)))

See Table 38 for definitions and sources of equation variables identified as follows:
IF = intake factor
CF = conversion factor
SA = skin surface area available for contact
ABS = absorption factor
EF = exposure frequency
ED = exposure duration

TABLE 41
VALUES USED FOR DAILY INTAKE CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: Perched Groundwater
Receptor Population: Construction Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation/ Model Name
Ingestion	IR-W	Ingestion Rate of Water	L/hour	0.01	USEPA, 1991	0.01	USEPA, 1997	IF ing = (IR)(ET)(EF)(ED) / (BW)(AT)
	EF	Exposure Frequency	days/year	60[a]	USEPA, 1989	20[a]	Conservative assumption	
	ED	Exposure Duration	years	1	USEPA, 1989	1	USEPA, 1989	
	ET	Exposure Time	hours/day	8	USEPA, 1989	4[b]	Conservative assumption	
	BW	Body Weight	kg	70	USEPA, 1989	70	USEPA, 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA, 1989	25,550	USEPA, 1989	
	AT-N	Averaging Time (Noncancer)	days	365	USEPA, 1989	365	USEPA, 1989	
Dermal	SA	Skin Surface Area Available for Contact	cm^2	4,100	USEPA, 1992	3,600[a]	USEPA, 1997	IFderm = (CF)(SA)(PC)(ET)(EF)(ED) / (BW)(AT)
	EF	Exposure Frequency	days/year	60[a]	USEPA, 1989	20[a]	Conservative assumption	
	ED	Exposure Duration	years	1	USEPA, 1989	1	USEPA, 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA, 1989	25550	USEPA, 1989	
	AT-N	Averaging Time (Noncancer)	days	365	USEPA, 1989	365	USEPA, 1989	
	PC	Dermal Permeability Constant	cm/hr	Chemical specific	USEPA, 1992	Chemical specific	USEPA, 1992	
	ET	Exposure Time	hours/day	8	USEPA, 1992	4	Conservative assumption	
	CF	Conversion Factor	L/cm^3	1.00E-03	SI system	1.00E-03	SI system	

RME = Reasonable Maximum Exposure
CT = Central Tendency
mg = milligram
kg = kilogram
m^3 = cubic meters
cm^2 = square centimeters
IF = intake factor
SI system = International System of Units

USEPA. 1991. Human Health Evaluation Manual, Supplemental Guidance: "Standard Default Exposure Factors." Washington, DC: Office of Solid Waste and Emergency Response. (OSWER Directive 9285.6-03).
USEPA. 1989. Risk Assessment Guidance for Superfund - Volume I: Human Health Evaluation Manual (Part A) Interim Final. (EPA/540/1/89/002). Washington, DC: Office of Emergency and Remedial Response.
USEPA. 1997. Exposure Factors Handbook. Washington, DC: Office of Emergency and Remedial Response. (EPA/600/8-89/043).
USEPA. 1992. Dermal Exposure Assessment: Principles and Applications-Interim Report. Washington, DC: Office of Research and Development. (EPA/600/8-91/011B).
USEPA. 1992. Human Health Evaluation Manual, Supplemental Guidance: "Interim Dermal Risk Assessment Guidance." Draft. Office of Solid Waste and Emergency Response.
USEPA. 1998. EPA Region 6 Human Health Medium-Specific Screening Levels. October.
USEPA. 1996. Soil Screening Guidance: User's Guide. 2nd Edition. Washington, DC: Office of Solid Waste and Emergency Response. (Publication 9355.4-23).
USEPA. 1995. EPA Region 4: Supplemental Guidance to RAGS: Bulletin 3: Exposure Assessment. Atlanta, GA: Office of Health Assessment - Waste Management Division.

a - Exposure frequency based on the period of time the construction worker is exposed to contaminated perched groundwater during excavation activities.
b - Conservative estimate based on a 1 worker month per year frequency. Value obtained from the Department of Energy Oak Ridge Reservation, Risk Assessment Information System website at: http://risk.lsd.ornl.gov/homepage/rap_tool.htm

TABLE 42
INGESTION-SPECIFIC INTAKE FACTOR
REASONABLE MAXIMUM EXPOSURE
CONSTRUCTION WORKER EXPOSURE: INGESTION OF CHEMICALS IN PERCHED GROUNDWATER

EQUATION	IF oral	= ((	IR	)x(	ET	)x(	EF	)x(	ED	) ÷ ((	BW	)x(	AT	)))
UNITS	L/kg-day		mg/hour		hours/event		days/yr		yr		kg		days	
NONCARCINOGENIC EFFECTS	1.88E-04	= ((	0.01	)x(	8	)x(	60	)x(	1	) ÷ ((	70	)x(	365	)))
CARCINOGENIC EFFECTS	2.68E-06	= ((	0.01	)x(	8	)x(	60	)x(	1	) ÷ ((	70	)x(	25,550	)))

See Table 41 for definitions and sources of equation variables identified as follows:

IF = intake factor
IR = ingestion rate
ET = exposure time
EF = exposure frequency
ED = exposure duration
BW = body weight
AT = averaging time

TABLE 43
DERMAL-SPECIFIC INTAKE FACTOR
REASONABLE MAXIMUM EXPOSURE
CONSTRUCTION WORKER EXPOSURE DERMAL CONTACT WITH CHEMICALS IN GROUNDWATER

EQUATION UNITS	IF derm L/kg-day	=	((	CF L/cm^3	)x(	SA cm^2/event	)x(	PC cm/hr	)x(	ET hours/day	)x(	EF events/year	)x(	ED years	)	+	((	BW kg	)x(	AT days	))
NONCARCINOGENIC EFFECTS																					
Arsenic	7.70E-05	=	((	1.00E-03	)x(	4100	)x(	1.00E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
4,4'-DDT	3.31E-02	=	((	1.00E-03	)x(	4100	)x(	4.30E-01	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
alpha-BHC	1.46E-03	=	((	1.00E-03	)x(	4100	)x(	1.90E-02	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
1,4-Dichlorobenzene	4.78E-03	=	((	1.00E-03	)x(	4100	)x(	6.20E-02	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
2,6-Dinitrotoluene	1.93E-04	=	((	1.00E-03	)x(	4100	)x(	2.50E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
4-Chloroaniline	2.39E-03	=	((	1.00E-03	)x(	4100	)x(	3.10E-02	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
bis(2-Chloroethyl)ether	1.62E-04	=	((	1.00E-03	)x(	4100	)x(	2.10E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
Dinoseb	2.16E-03	=	((	1.00E-03	)x(	4100	)x(	2.80E-02	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
1,2-Dichloroethane	4.08E-04	=	((	1.00E-03	)x(	4100	)x(	5.30E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
4-Methyl-2-pentanone	2.54E-04	=	((	1.00E-03	)x(	4100	)x(	3.30E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
Acetone	4.39E-05	=	((	1.00E-03	)x(	4100	)x(	5.70E-04	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
Benzene	1.62E-03	=	((	1.00E-03	)x(	4100	)x(	2.10E-02	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
Chloroform	6.86E-04	=	((	1.00E-03	)x(	4100	)x(	8.90E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
Methylene chloride	3.47E-04	=	((	1.00E-03	)x(	4100	)x(	4.50E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
Trichloroethene	1.23E-03	=	((	1.00E-03	)x(	4100	)x(	1.60E-02	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	365	))
CARCINOGENIC EFFECTS																					
Arsenic	1.10E-06	=	((	1.00E-03	)x(	4100	)x(	1.00E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
4,4'-DDT	4.73E-04	=	((	1.00E-03	)x(	4100	)x(	4.30E-01	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
alpha-BHC	2.09E-05	=	((	1.00E-03	)x(	4100	)x(	1.90E-02	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
1,4-Dichlorobenzene	6.82E-05	=	((	1.00E-03	)x(	4100	)x(	6.20E-02	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
2,6-Dinitrotoluene	2.75E-06	=	((	1.00E-03	)x(	4100	)x(	2.50E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
4-Chloroaniline	3.41E-05	=	((	1.00E-03	)x(	4100	)x(	3.10E-02	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
bis(2-Chloroethyl)ether	2.31E-06	=	((	1.00E-03	)x(	4100	)x(	2.10E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
Dinoseb	3.08E-05	=	((	1.00E-03	)x(	4100	)x(	2.80E-02	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
1,2-Dichloroethane	5.83E-06	=	((	1.00E-03	)x(	4100	)x(	5.30E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
4-Methyl-2-pentanone	3.63E-06	=	((	1.00E-03	)x(	4100	)x(	3.30E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
Acetone	6.27E-07	=	((	1.00E-03	)x(	4100	)x(	5.70E-04	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
Benzene	2.31E-05	=	((	1.00E-03	)x(	4100	)x(	2.10E-02	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
Chloroform	9.79E-06	=	((	1.00E-03	)x(	4100	)x(	8.90E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
Methylene chloride	4.95E-06	=	((	1.00E-03	)x(	4100	)x(	4.50E-03	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))
Trichloroethene	1.76E-05	=	((	1.00E-03	)x(	4100	)x(	1.60E-02	)x(	8	)x(	60	)x(	1	)	+	((	70	)x(	25,550	))

See Table 41 for definitions and sources of equation variables identified as follows:

IF = intake factor
CF = conversion factor
SA = skin surface area available for contact
PC = permeability constant
EF = exposure frequency
ED = exposure duration
BW = body weight
AT = averaging time

TABLE 44
VALUES USED FOR DAILY INTAKE CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Current/ Future
Medium: Soil
Exposure Medium: Surface Soil
Exposure Point: Sites 1, 2, 3, 4, 5, 6, 8, 9
Receptor Population: Site Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation/ Model Name
Ingestion	IR-S	Ingestion Rate of Soil	mg/day	50	USEPA, 1989	50	USEPA, 1989	CDI ing = $\frac{(IR)(CF)(FI)(EF)(ED)}{(BW)(AT)}$
	EF	Exposure Frequency	days/year	250	USEPA, 1989	250	USEPA, 1989	
	ED	Exposure Duration	years	25	USEPA, 1989	6.6	USEPA, 1989	
	FI	Fraction ingested from contaminated source	unitless	1	Conservative assumption	0.1	Conservative assumption	
	CF	Conversion Factor	kg/mg	1.00E-06	SI system	1.00E-06	SI system	
	BW	Body Weight	kg	70	USEPA, 1989	70	USEPA, 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA, 1989	25,550	USEPA, 1989	
	AT-N	Averaging Time (Noncancer)	days	9,125	USEPA, 1989	2,409	USEPA, 1989	
Inhalation	InR-S	Inhalation Rate of Soil	m^3/day	20	USEPA, 1989	11.3	USEPA, 1997	CDI inh = $\frac{(IR)(EF)(ED)((1/VF)+(1/PEF))}{(BW)(AT)}$
	EF	Exposure Frequency	days/year	250	USEPA, 1989	250	USEPA, 1989	
	ED	Exposure Duration	years	25	USEPA, 1989	6.6	USEPA, 1997	
	BW	Body Weight	kg	70	USEPA, 1989	70	USEPA, 1989	
	AT-C	Averaging Time (Cancer)	days	25550	USEPA, 1989	25,550	USEPA, 1989	
	AT-N	Averaging Time (Noncancer)	days	9125	USEPA, 1989	2,409	USEPA, 1989	
	PEF	Particulate Emission Factor	m^3/kg	1.32E+09	USEPA, 1996	1.32E+09	USEPA, 1996	
	VF	Volatilization Factor	m^3/kg	Chemical specific	USEPA, 1998	Chemical specific	USEPA, 1998	
Dermal	EF	Exposure Frequency	days/year	250	USEPA, 1989	250	USEPA, 1989	CDI derm = $\frac{(CF)(SA)(AF)(ABSd)(EF)(ED)}{(BW)(AT)}$
	ED	Exposure Duration	years	25	USEPA, 1989	6.6	USEPA, 1997	
	CF	Conversion Factor	kg/mg	1.00E-06	SI system	1.00E-06	SI system	
	SA	Skin Surface Area Available for Contact	cm^2	4,100	USEPA, 1997	3,600	USEPA, 1997	
	ABSd	Dermal Absorption Factor	unitless	Chemical specific	USEPA, 1998	Chemical specific	USEPA, 1998	
	AF	Soil to Skin Adherence Factor	mg/cm^2/event	1	USEPA, 1995	0.0367	USEPA, 1997	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA, 1989	25,550	USEPA, 1989	
	AT-N	Averaging Time (Noncancer)	days	9,125	USEPA, 1989	2,409	USEPA, 1989	

RME = Reasonable Maximum Exposure
CT = Central Tendency
mg = milligram
kg = kilogram
m^3 = cubic meters
cm^2 = square centimeters

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TABLE 45
INGESTION-SPECIFIC INTAKE FACTOR
SITE WORKER EXPOSURE: INGESTION OF CHEMICALS IN SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF oral kg/kg-day	=	((	IR mg/day	)x(	EF days/yr	)x(	ED yr	)x(	FI unitless	)x(	CF kg/mg	) ÷ ((	BW kg	)x(	AT days	)))
NONCARCINOGENIC	4.89E-07	=	((	50	)x(	250	)x(	25	)x(	1	)x(	1.00E-06	) ÷ ((	70	)x(	9,125	)))
CARCINOGENIC	1.75E-07	=	((	50	)x(	250	)x(	25	)x(	1	)x(	1.00E-06	) ÷ ((	70	)x(	25,550	)))

See Table 44 for definitions and sources of equation variables identified as follows:

IF = intake factor
AT = averaging time
BW = body weight
FI = fraction ingested
IR = ingestion rate
EF = exposure frequency
ED = exposure duration
CF = conversion factor

TABLE 46
DERMAL-SPECIFIC INTAKE FACTOR
SITE WORKER EXPOSURE: DERMAL CONTACT WITH CHEMICALS IN SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF derm = ((	SA)x(	AF)x(	ABS)x(	EF)x(	ED)x(	CF) + ((	BW)x(	AT)))
	kg/kg-day	cm^2/event	mg/cm^2	unitless	events/year	years	kg/mg	kg	days
NONCARCINOGENIC									
Arsenic	1.20E-06 = ((	4100)x(	1)x(	3.00E-02)x(	250)x(	25)x(	1E-06) + ((	70)x(	9,125)))
Aldrin	4.01E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	9,125)))
Dieldrin	4.01E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	9,125)))
Heptachlor	4.01E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	9,125)))
Methoxychlor	4.01E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	9,125)))
3,4-Dichloroaniline	4.01E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	9,125)))
Dinoseb	4.01E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	9,125)))
Propanil	4.01E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	9,125)))
Toxaphene	4.01E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	9,125)))
1,2-Dichloroethane	4.01E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	9,125)))
CARCINOGENIC									
Arsenic	4.30E-07 = ((	4100)x(	1)x(	3.00E-02)x(	250)x(	25)x(	1E-06) + ((	70)x(	25,550)))
Aldrin	1.43E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	25,550)))
Dieldrin	1.43E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	25,550)))
Heptachlor	1.43E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	25,550)))
Methoxychlor	1.43E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	25,550)))
3,4-Dichloroaniline	1.43E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	25,550)))
Dinoseb	1.43E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	25,550)))
Propanil	1.43E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	25,550)))
Toxaphene	1.43E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	25,550)))
1,2-Dichloroethane	1.43E-06 = ((	4100)x(	1)x(	1.00E-01)x(	250)x(	25)x(	1E-06) + ((	70)x(	25,550)))

See Table 44 for definitions and sources of equation variables identified as follows:

IF = intake factor
CF = conversion factor
SA = skin surface area available for contact
AF = soil to skin adherence factor
ABS = absorption factor
EF = exposure frequency
ED = exposure duration
BW = body weight
AT = averaging time

TABLE 47
INHALATION-SPECIFIC INTAKE FACTOR
SITE WORKER EXPOSURE: INHALATION OF AIRBORNE CHEMICALS FROM SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IFinh kg/kg-day	=	((	IR m^3/day	)x(	EF days/yr	)x(	ED yr	)x(	1	/	PEF m^3/kg	+	1	/	VF m^3/kg	))	+	((	BW kg	)x(	AT days	)))
NONCARCINOGENIC EFFECTS																							
Arsenic	1.48E-10	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	9,125	)))
Aldrin	1.48E-10	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	9,125	)))
Dieldrin	1.48E-10	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	9,125	)))
Heptachlor	1.48E-10	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	9,125	)))
Methoxychlor	1.48E-10	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	9,125	)))
3,4-Dichloroaniline	1.48E-10	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	9,125	)))
Dinoseb	1.48E-10	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	9,125	)))
Propanil	1.48E-10	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	9,125	)))
Toxaphene	1.48E-10	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	9,125	)))
1,2-Dichloroethane	9.32E-05	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	2.10E+03	))	+	((	70	)x(	9,125	)))
CARCINOGENIC EFFECTS																							
Arsenic	5.29E-11	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Aldrin	5.29E-11	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Dieldrin	5.29E-11	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Heptachlor	5.29E-11	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Methoxychlor	5.29E-11	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
3,4-Dichloroaniline	5.29E-11	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Dinoseb	5.29E-11	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Propanil	5.29E-11	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Toxaphene	5.29E-11	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
1,2-Dichloroethane	3.33E-05	=	((	20	)x(	250	)x(	25	)x(	1	/	1.32E+09	+	1	/	2.10E+03	))	+	((	70	)x(	25,550	)))

See Table 44 for definitions and sources of equation variables identified as follows:

IF = Intake factor
IR = Inhalation Rate
EF = Exposure frequency
ED = Exposure duration
PEF = Particulate emission factor
VF = Volatilization factor
BW = Body weight
AT = Averaging time

TABLE 48
VALUES USED FOR DAILY INTAKE CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Surface Soil
Exposure Point: Sites 1, 2, 3, 4, 5, 6, 8, 9
Receptor Population: Trespasser
Receptor Age: Adolescent

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation/ Model Name
Ingestion	IR-S	Ingestion Rate of Soil	mg/day	50	USEPA, 1989	50	USEPA, 1989	CDI ing = [IR)(CF)(FI)(EF)(ED)] / (BW)(AT)
	EF	Exposure Frequency	days/year	52	Conservative assumption	26	Conservative assumption	
	ED	Exposure Duration	years	10	Conservative assumption	10	Conservative assumption	
	FI	Fraction ingested from contaminated source	unitless	1	Conservative assumption	0.1	Conservative assumption	
	CF	Conversion Factor	kg/mg	1.00E-06	SI system	1.00E-06	SI system	
	BW	Body Weight	kg	45	USEPA, 1989	45	USEPA, 1989	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA, 1989	25,550	USEPA, 1989	
	AT-N	Averaging Time (Noncancer)	days	3,650	USEPA, 1989	3,650	USEPA, 1989	
Inhalation	InR-S	Inhalation Rate of Soil	m^3/day	20	USEPA, 1989	11.3	USEPA, 1997	CDI inh = [IR)(EF)(ED)/((1/VF)+(1/PEF)] / (BW)(AT)
	EF	Exposure Frequency	days/year	52	Conservative assumption	26	Conservative assumption	
	ED	Exposure Duration	years	10	Conservative assumption	10	Conservative assumption	
	BW	Body Weight	kg	45	USEPA, 1989	45	USEPA, 1989	
	AT-C	Averaging Time (Cancer)	days	25550	USEPA, 1989	25,550	USEPA, 1989	
	AT-N	Averaging Time (Noncancer)	days	3650	USEPA, 1989	3,650	USEPA, 1989	
	PEF	Particulate Emission Factor	m^3/kg	1.32E+09	USEPA, 1996	1.32E+09	USEPA, 1996	
	VF	Volatilization Factor	m^3/kg	Chemical specific	USEPA, 1996	Chemical specific	USEPA, 1996	
Dermal	EF	Exposure Frequency	days/year	52	Conservative assumption	26	Conservative assumption	CDI derm = [CF)(SA)(AF)(ABSd)(EF)(ED)] / (BW)(AT)
	ED	Exposure Duration	years	10	Conservative assumption	10	Conservative assumption	
	CF	Conversion Factor	kg/mg	1.00E-06	SI system	1.00E-06	SI system	
	SA	Skin Surface Area Available for Contact	cm^2	4100	USEPA, 1997	3,600	USEPA, 1997	
	ABSd	Dermal Absorption Factor	unitless	Chemical specific	USEPA, 1996	Chemical specific	USEPA, 1996	
	AF	Soil to Skil Adherence Factor	mg/cm^2	1	USEPA, 1995	0.0367	USEPA, 1995	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA, 1989	25,550	USEPA, 1989	
	AT-N	Averaging Time (Noncancer)	days	3,650	USEPA, 1989	3,650	USEPA, 1989	

RME = Reasonable Maximum Exposure
CT = Central Tendency
mg = milligram
kg = kilogram
m^3 = cubic meters
cm^2 = square centimeters

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U.S. EPA. 1995. U.S. EPA Region 4: Supplemental Guidance to RAGS: Bulletin 3: Exposure Assessment. Atlanta, GA: Office of Health Assessment - Waste Management Division.

TABLE 49
INGESTION-SPECIFIC INTAKE FACTOR
TRESPASSER/VISITOR EXPOSURE: INGESTION OF CHEMICALS IN SOIL AND DUST
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF oral kg/kg-day	=	((	IR mg/day	)x(	EF days/yr	)x(	ED yr	)x(	FI Unitless	)x(	CF kg/mg	) ÷ ((	BW kg	)x(	AT days	)))
NONCARCINOGENIC	1.58E-07	=	((	50	)x(	52	)x(	10	)x(	1	)x(	1.00E-06	) ÷ ((	45	)x(	3,650	)))
CARCINOGENIC	2.26E-08	=	((	50	)x(	52	)x(	10	)x(	1	)x(	1.00E-06	) ÷ ((	45	)x(	25,550	)))

See Table 48 for definitions and sources of equation variables identified as follows:

IF = intake factor
AT = averaging time
BW = body weight
FI = fraction ingested
IR = ingestion rate
EF = exposure frequency
ED = exposure duration
CF = conversion factor

TABLE 50
DERMAL-SPECIFIC INTAKE FACTOR
TRESPASSER/VISITOR EXPOSURE: DERMAL CONTACT WITH CHEMICALS IN SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF derm = ((	SA)x(	AF)x(	ABS)x(	EF)x(	ED)x(	CF) + ((	BW)x(	AT)))
	kg/kg-day	cm^2/event	mg/cm^2	unitless	events/year	years	kg/mg	kg	days
NONCARCINOGENIC									
Arsenic	3.89E-07 = ((	4,100)x(	1.0)x(	3.00E-02)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	3,650)))
Aldrin	1.30E-06 = ((	4,100)x(	1.0)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	3,650)))
Dieldrin	1.30E-06 = ((	4,100)x(	1.0)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	3,650)))
Heptachlor	1.30E-06 = ((	4,100)x(	1.0)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	3,650)))
Methoxychlor	1.30E-06 = ((	4,100)x(	1.0)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	3,650)))
3,4-Dichloroaniline	1.30E-06 = ((	4,100)x(	1.0)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	3,650)))
Dinoseb	1.30E-06 = ((	4,100)x(	1.0)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	3,650)))
Propanil	1.30E-06 = ((	4,100)x(	1.0)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	3,650)))
Toxaphene	1.30E-06 = ((	4,100)x(	1.0)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	3,650)))
1,2-Dichloroethane	1.30E-06 = ((	4,100)x(	1.0)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	3,650)))
CARCINOGENIC									
Arsenic	5.56E-08 = ((	4,100)x(	1)x(	3.00E-02)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	25,550)))
Aldrin	1.85E-07 = ((	4,100)x(	1)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	25,550)))
Dieldrin	1.85E-07 = ((	4,100)x(	1)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	25,550)))
Heptachlor	1.85E-07 = ((	4,100)x(	1)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	25,550)))
Methoxychlor	1.85E-07 = ((	4,100)x(	1)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	25,550)))
3,4-Dichloroaniline	1.85E-07 = ((	4,100)x(	1)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	25,550)))
Dinoseb	1.85E-07 = ((	4,100)x(	1)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	25,550)))
Propanil	1.85E-07 = ((	4,100)x(	1)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	25,550)))
Toxaphene	1.85E-07 = ((	4,100)x(	1)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	25,550)))
1,2-Dichloroethane	1.85E-07 = ((	4,100)x(	1)x(	1.00E-01)x(	52)x(	10)x(	1.00E-06) + ((	45)x(	25,550)))

See Table 48 for definitions and sources of equation variables identified as follows:

IF = intake factor
CF = conversion factor
SA = skin surface area available for contact
AF = soil to skin adherence factor
ABS = absorption factor
EF = exposure frequency
ED = exposure duration
BW = body weight
AT = averaging time

TABLE 51
INHALATION-SPECIFIC INTAKE FACTOR
TRESPASSER/VISITOR EXPOSURE: INHALATION OF AIRBORNE CHEMICALS FROM SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IFinh kg/kg-day	= ((	Inh R m^3/day	)x(	EF days/yr	)x(	ED yr	)x(	1	/	PEF m^3/kg	+	1	/	VF m^3/kg	))	+	((	BW kg	)x(	AT days	)))
NONCARCINOGENIC EFFECTS																						
Arsenic	3.08E-11	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	3,650	)))
Aldrin	3.08E-11	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	3,650	)))
Dieldrin	3.08E-11	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	3,650	)))
Heptachlor	3.08E-11	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	3,650	)))
Methoxychlor	3.08E-11	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	3,650	)))
3,4-Dichloroaniline	3.08E-11	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	3,650	)))
Dinoseb	3.08E-11	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	3,650	)))
Propanil	3.08E-11	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	3,650	)))
Toxaphene	3.08E-11	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	3,650	)))
1,2-Dichloroethane	1.94E-05	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	2.10E+03	))	+	((	70	)x(	3,650	)))
CARCINOGENIC EFFECTS																						
Arsenic	4.41E-12	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Aldrin	4.41E-12	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Dieldrin	4.41E-12	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Heptachlor	4.41E-12	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Methoxychlor	4.41E-12	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
3,4-Dichloroaniline	4.41E-12	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Dinoseb	4.41E-12	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Propanil	4.41E-12	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Toxaphene	4.41E-12	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
1,2-Dichloroethane	2.77E-06	= ((	20	)x(	52	)x(	10	)x(	1	/	1.32E+09	+	1	/	2.10E+03	))	+	((	70	)x(	25,550	)))

See Table 48 for definitions and sources of equation variables identified as follows:

IF = Intake factor
IR = Inhalation Rate
EF = Exposure frequency
ED = Exposure duration
ET = Exposure time
PEF = Particulate Emission Factor
VF = Volatilization Factor

TABLE 52
VALUES USED FOR DAILY INTAKE CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Medium: Sediment
Exposure Medium: Sediment
Exposure Point: Site 1, 3
Receptor Population: Trespasser
Receptor Age: Adolescent

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation/ Model Name
Ingestion	IR	Ingestion Rate of Sediment	mg/day	50	U.S. EPA, 1989	50	U.S. EPA, 1989	IF = (IR)(ET)(EF)(ED)(FI)(CF) / (BW)(AT)
	ET	Exposure Time	hours/day	2	Conservative assumption	2	Conservative assumption	
	EF	Exposure Frequency	days/year	52	Conservative assumption	26	Conservative assumption	
	ED	Exposure Duration	years	10	Conservative assumption	10	Conservative assumption	
	FI	Fraction Ingested from Contaminated Source	unitless	1	Conservative assumption	0.1	Conservative assumption	
	CF	Conversion Factor	kg/mg	1.00E-06	SI system	1.00E-06	SI system	
	BW	Body Weight	kg	45	U.S. EPA, 1989	45	U.S. EPA, 1989	
	AT - N	Averaging Time - Noncancer	days	3,650	U.S. EPA, 1989	3650	U.S. EPA, 1989	
	AT - C	Averaging Time - Cancer	days	25,550	U.S. EPA, 1989	25550	U.S. EPA, 1989	
Dermal	SA	Skin Surface Area	cm^2	4,100	U.S. EPA, 1997	3,600	-	IF = (SA)(AF)(ABS)(EF)(ED)(CF) / (BW)(AT)
	AF	Adherence Factor	mg/cm^2	1	U.S. EPA, 1995	0.0367	-	
	ABS	Dermal Absorption Factor	unitless	Chemical Specific	U.S. EPA, 1998	Chemical Specific	-	
	EF	Exposure Frequency	days/year	52	Conservative assumption	26	-	
	ED	Exposure Duration	years	10	Conservative assumption	10	-	
	CF	Conversion Factor	kg/mg	1.00E-06	SI System	1.00E-06	-	
	BW	Body Weight	kg	45	U.S. EPA, 1989	45	-	
	AT-N	Averaging Time - Noncancer	days	3,650	U.S. EPA, 1989	3650	-	
	AT-C	Averaging Time - Cancer	days	25,550	U.S. EPA, 1989	25550	-	

RME = Reasonable Maximum Exposure
CT = Central Tendency
mg = milligram
kg = kilogram
m^3 = cubic meters
cm^2 = square centimeters

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U.S. EPA. 1997. Exposure Factors Handbook. Washington, DC: Office of Emergency and Remedial Response.
U.S. EPA. 1998. U.S. EPA Region 6 Human Health Medium-Specific Screening Levels. October.
U.S. EPA. 1995. U.S. EPA Region 4: Supplemental Guidance to RAGS: Bulletin 3: Exposure Assessment. Atlanta, GA: Office of Health Assessment - Waste Management Division.

TABLE 53
INGESTION-SPECIFIC INTAKE FACTOR
TRESPASSER EXPOSURE: INGESTION OF CHEMICALS IN SEDIMENT
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF ing kg sediment/kg BW - day	= ((	IR mg/day	)x(	ET hours/day	)x(	EF days/year	)x(	ED years	)x(	FI unitless	)x(	CF kg/mg	)+((	BW kg	)x(	AT days	)))
NONCARCINOGEN	3.17E-07	= ((	50	)x(	2	)x(	52	)x(	10	)x(	1	)x(	1.00E-06	)+((	45	)x(	3,650	)))
CARCINOGENIC	4.52E-08	= ((	50	)x(	2	)x(	52	)x(	10	)x(	1	)x(	1.00E-06	)+((	45	)x(	25,550	)))

See Table 52 for definitions and sources of equation variables identified as follows:
IF = intake factor
ET = exposure time
EF = exposure frequency
ED = exposure duration
FI = fraction ingested from contaminated source

IR = ingestion rate
EF = exposure frequency
ED = exposure duratnion
CF = conversion factor

TABLE 54
DERMAL-SPECIFIC INTAKE FACTOR
TRESPASSER EXPOSURE: DERMAL CONTACT WITH CHEMICALS IN SEDIMENT
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF derm kg sediment/kg BW - day	= ((	SA cm2	)x(	AF mg/cm2	)x(	ABS unitless	)x(	EF days/year	)x(	ED year	)x(	CF kg/mg	)+((	BW kg	)x(	AT days	)))
NONCARCINOGENIC																		
Arsenic	3.89E-07	= ((	4100	)x(	1	)x(	3.0E-02	)x(	52	)x(	10	)x(	1.E-06	)+((	45	)x(	3,650	)))
Chromium	1.30E-07	= ((	4100	)x(	1	)x(	1.0E-02	)x(	52	)x(	10	)x(	1.E-06	)+((	45	)x(	3,650	)))
Aldrin	1.30E-06	= ((	4100	)x(	1	)x(	1.0E-01	)x(	52	)x(	10	)x(	1.E-06	)+((	45	)x(	3,650	)))
Dieldrin	1.30E-06	= ((	4100	)x(	1	)x(	1.0E-01	)x(	52	)x(	10	)x(	1.E-06	)+((	45	)x(	3,650	)))
Toxaphene	1.30E-06	= ((	4100	)x(	1	)x(	1.0E-01	)x(	52	)x(	10	)x(	1.E-06	)+((	45	)x(	3,650	)))
Pentachlorophenol	3.25E-06	= ((	4100	)x(	1	)x(	2.5E-01	)x(	52	)x(	10	)x(	1.E-06	)+((	45	)x(	3,650	)))
CARCINOGENIC																		
Arsenic	5.56E-08	= ((	4100	)x(	1	)x(	3.0E-02	)x(	52	)x(	10	)x(	1.E-06	)+((	45	)x(	25,550	)))
Chromium	1.85E-08	= ((	4100	)x(	1	)x(	1.0E-02	)x(	52	)x(	10	)x(	1.E-06	)+((	45	)x(	25,550	)))
Aldrin	1.85E-07	= ((	4100	)x(	1	)x(	1.0E-01	)x(	52	)x(	10	)x(	1.E-06	)+((	45	)x(	25,550	)))
Dieldrin	1.85E-07	= ((	4100	)x(	1	)x(	1.0E-01	)x(	52	)x(	10	)x(	1.E-06	)+((	45	)x(	25,550	)))
Toxaphene	1.85E-07	= ((	4100	)x(	1	)x(	1.0E-01	)x(	52	)x(	10	)x(	1.E-06	)+((	45	)x(	25,550	)))
Pentachlorophenol	4.64E-07	= ((	4100	)x(	1	)x(	2.5E-01	)x(	52	)x(	10	)x(	1.E-06	)+((	45	)x(	25,550	)))

See Table 52 for definitions and sources of equation variables identified as follows:
IF = intake factor
CF = conversion factor
SA = skin surface area available for contact
ABS = absorption factor
EF = exposure frequency
ED = exposure duration

TABLE 55
VALUES USED FOR DAILY INTAKE CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Medium: Groundwater
Exposure Medium: Groundwater
Exposure Point: Alluvial Groundwater
Receptor Population: Offsite Agricultural Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value	CT Rationale/ Reference	Intake Equation/ Model Name
Inhalation[a]	IR-W	Inhalation Rate of Air	L/hr	0.83	U.S. EPA, 1991	0.471	U.S. EPA, 1997	IF inh = (IR)(ET)(EF)(ED) / (BW)(AT)
	EF	Exposure Frequency	days/year	44.6	CES, 1999	44.6	CES, 1999	
	ED	Exposure Duration	years	25	U.S. EPA, 1989	25	U.S. EPA, 1989	
	ET	Exposure Time	hours/day	4	Conservative assumption	2	Conservative assumption	
	BW	Body Weight	kg	70	U.S. EPA, 1989	70	U.S. EPA, 1989	
	AT-C	Averaging Time (Cancer)	days	25550	U.S. EPA, 1989	25550	U.S. EPA, 1989	
	AT-N	Averaging Time (Noncancer)	days	9125	U.S. EPA, 1989	9125	U.S. EPA, 1989	

RME = Reasonable Maximum Exposure
CT = Central Tendency
mg = milligram
kg = kilogram
m^3 = cubic meters
cm^2 = square centimeters
IF = intake factor

a = Inhalation of Groundwater While Showering intake factor calculated in accordance with Technical Memorandum Guidance on Estimating Exposure to VOCs During Showering, (USEPA, 1991).

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TABLE 56
INGESTION-SPECIFIC INTAKE FACTOR
OFFSITE AGRICULTURAL WORKER EXPOSURE: INGESTION OF CHEMICALS IN SOIL AND DUST
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF inh m^3/kg-day	=	((	IR m^3/hour	)x(	ET hours/day	)x(	EF days/yr	)x(	ED yr	)x(	CF mg/µg	)	+	((	BW kg	)x(	AT days	)))
NONCARCINOGENIC	5.80E-03	=	((	0.83	)x(	4	)x(	44.6	)x(	25	)x(	1.00E-03	)	+	((	70	)x(	9.125	)))
CARCINOGENIC	2.07E-03	=	((	0.83	)x(	4	)x(	44.6	)x(	25	)x(	1.00E-03	)	+	((	70	)x(	25.550	)))

See Table 55 for definitions and sources of equation variables identified as follows:

IF = intake factor
IR = inhalation rate
ET = exposure time
EF = exposure frequency
ED = exposure duration
CF = conversion factor
BW = body weight
AT = averaging time

TABLE 57
NON-CANCER TOXICITY DATA -- ORAL/DERMAL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD Value	Oral RfD Units	Oral to Dermal Adjustment Factor (1) (OAF)	Adjusted Dermal RfD (2)	Units	Primary Target Organ	Combined Uncertainty/Modifying Factors	Sources of RfD: Target Organ	Dates of RfD: Target Organ (3) (MM/DD/YY)
Arsenic	Chronic	3.0E-04	mg/kg-day	1	3.0E-04	mg/kg-day	Skin	3	IRIS	10/02/98
Arsenic	Subchronic	3.0E-04	mg/kg-day	1	3.0E-04	mg/kg-day	Skin	3	HEAST	07/01/97
Chromium	Chronic	3.0E-03	mg/kg-day	0.2	6.0E-04	mg/kg-day	NOAEL	300/3	IRIS	07/14/99
Chromium	Subchronic	2.0E-02	mg/kg-day	0.2	4.0E-03	mg/kg-day	NOAEL	100	HEAST	07/01/97
Mercury	Chronic	N/A	mg/kg-day	0.5	N/A	mg/kg-day	Immune System	1000	IRIS	07/20/99
Cadmium	Chronic	5.0E-04	mg/kg-day	0.5	2.5E-04	mg/kg-day	Liver	1000	IRIS	07/14/99
Cadmium	Subchronic	5.0E-04	mg/kg-day	0.5	2.5E-04	mg/kg-day	Liver	1000	HEAST	07/01/97
Dieldrin	Subchronic	5.0E-05	mg/kg-day	0.5	2.5E-05	mg/kg-day	Liver	100/1	IRIS	4/23/99
Dieldrin	Chronic	5.0E-05	mg/kg-day	0.5	2.5E-05	mg/kg-day	Liver	100/1	HEAST	07/01/97
Aldrin	Chronic	0.00003	mg/kg-day	0.5	0.000015	mg/kg-day	Liver	1000/1	IRIS	06/08/99
Aldrin	Subchronic	0.00003	mg/kg-day	0.5	0.000015	mg/kg-day	Liver	1000/1	HEAST	07/01/97
Methoxychlor	Chronic	5.0E-03	mg/kg-day	0.5	2.5E-03	mg/kg-day	Reproduction	1000/1	IRIS	06/10/99
Methoxychlor	Subchronic	5.0E-03	mg/kg-day	0.5	2.5E-03	mg/kg-day	Reproduction	1000/1	HEAST	07/01/97
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND	IRIS	06/10/99
Heptachlor	Chronic	5.0E-04	mg/kg-day	0.5	2.5E-04	mg/kg-day	Liver	300/1	IRIS	06/10/99
Heptachlor	Subchronic	5.0E-04	mg/kg-day	0.5	2.5E-04	mg/kg-day	Liver	300/1	HEAST	07/01/97
1,2-Dichloroethane	Chronic	ND	mg/kg-day	0.5	N/A	mg/kg-day	Whole body	1000	IRIS	06/08/99
1,2-Dichloroethane	Subchronic	ND	mg/kg-day	0.5	N/A	mg/kg-day	Whole body	1000	HEAST	07/01/97
Carbon tetrachloride	Subchronic	7.0E-04	mg/kg-day	0.5	3.5E-04	mg/kg-day	Whole body	1000	HEAST	07/01/97
Carbon tetrachloride	Chronic	7.0E-04	mg/kg-day	0.5	3.5E-04	mg/kg-day	Liver	300	IRIS	07/14/99
Chloroform	Subchronic	1.0E-02	mg/kg-day	0.5	5.0E-03	mg/kg-day	Liver	300	HEAST	07/01/97
Chloroform	Chronic	1.0E-02	mg/kg-day	0.5	5.0E-03	mg/kg-day	Reproduction	1000	IRIS	07/14/99
Methylene chloride	Chronic	6.0E-02	mg/kg-day	0.8	4.8E-02	mg/kg-day	Whole body	1000	Region 6	06/08/99
Dinoseb	Chronic	1.0E-03	mg/kg-day	0.5	5.0E-04	mg/kg-day	Whole body	1000/1	IRIS	06/08/99
Dinoseb	Subchronic	1.0E-03	mg/kg-day	0.5	5.0E-04	mg/kg-day	Whole body	1000/1	HEAST	07/01/97
3,4-Dichloroaniline (4)	Chronic	4.0E-03	mg/kg-day	0.5	2.0E-03	mg/kg-day	Spleen	3000	IRIS	07/20/99
4-Chloroaniline	Subchronic	4.0E-03	mg/kg-day	0.5	2.0E-03	mg/kg-day	Spleen	3000	HEAST	06/08/99
Propanil	Chronic	5.0E-03	mg/kg-day	5.0E-01	2.5E-03	mg/kg-day	Spleen	1000/1	IRIS	07/14/99
Pentachlorophenol	Chronic	3.0E-02	mg/kg-day	0.5	1.50E-02	mg/kg-day	Liver	100	IRIS	07/20/99

RfD = Reference dose
mg/kg-day = milligram per kilogram day
IRIS = Integrated Risk Information System
NOAEL = No Observed Adverse Effect Level
Region 6 = value presented is the route extrapolation value presented in Region 6 Human Health Medium-Specific Screening Levels (October, 1998)
HEAST = Health Effects Assessment Summary Tables
NCEA = National Center for Environmental Assessment
ND = No data

(1) Oral to Dermal Adjustment Factors were obtained from the Existing Texas Risk Reduction Rule, (TNRCC, 1998)
(2) The dermal reference dose was calculated using the following equation
RfDd = RfDo x DAF
(3) For IRIS values, this is the date IRIS was searched For HEAST values this is the publication date

TABLE 58
NON-CANCER TOXICITY DATA – INHALATION
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Chemical of Potential Concern	Chronic/ Subchronic	Value Inhalation RfC	Units	Adjusted Inhalation RfD (1)	Units	Primary Target Organ	Combined Uncertainty/Modifying Factors	Sources of RfC:RfD: Target Organ	Dates (2) (MM/DD/YY)
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	10/02/98
Chromium	Chronic	1.00E-04	mg/m^3	2.86E-05	mg/kg-day	Nasal septa	90	IRIS	07/14/99
Cadmium	ND	ND	ND	3.00E-05	mg/kg-day	ND	ND	ND	10/02/98
Mercury	ND	ND	ND	8.6E-05	ND	ND	ND	ND	10/02/98
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	10/02/98
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND	10/02/98
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND	10/02/98
Methoxychlor	ND	ND	ND	ND	ND	ND	ND	ND	10/02/98
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND	10/02/98
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	2.9E-03	mg/kg-day	ND	ND	Region 6	10/01/98
Carbon tetrachloride	ND	ND	ND	5.7E-04	mg/kg-day	ND	ND	Region 6	10/01/98
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	Chronic	ND	ND	8.6E-01	mg/kg-day	Liver/gallbladder	3000	HEAST	04/01/97
4-Chloroaniline									
3,4-Dichloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propanil	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	ND

RfC = Reference concentration
RfD = Reference Dose
ND = No Data
IRIS = Integrated Risk Information System
NCEA = National Center for Environmental Assessment

TABLE 59
CANCER TOXICITY DATA – ORAL/DERMAL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Chemical of Potential Concern	Oral Cancer Slope Factor (CSFo)	Oral to Dermal Adjustment Factor (OAF)	Adjusted Dermal Cancer Slope Factor (1) (CSFd)	Units	Weight of Evidence/ Cancer Guideline Description	Source Target Organ	Date (2) (MM/DD/YY)
Arsenic	1.5E+00	1.0	1.5E+00	(mg/kg-day)$^{-1}$	A	IRIS	10/02/98
Chromium	N/A	N/A	N/A	(mg/kg-day)$^{-1}$	N/A	IRIS	07/14/99
Mercury	N/A	N/A	N/A	N/A	N/A	IRIS	07/20/99
Cadmium	N/A	N/A	N/A	(mg/kg-day)$^{-1}$	N/A	IRIS	06/10/99
Dieldrin	1.6E+01	0.5	3.2E+01	(mg/kg-day)$^{-1}$	B2	IRIS	08/06/99
Aldrin	1.7E+01	0.5	3.4E+01	(mg/kg-day)$^{-1}$	B2	IRIS	10/16/98
Methoxychlor	N/A	N/A	N/A	(mg/kg-day)$^{-1}$	B2	IRIS	5/19/99
Toxaphene	1.1E+00	0.5	2.2E+00	(mg/kg-day)$^{-1}$	B2	IRIS	06/10/99
Heptachlor	4.5E+00	0.5	9.0E+00	(mg/kg-day)$^{-1}$	B2	IRIS	11/03/98
1,2-Dichloroethane	9.1E-02	0.8	1.1E-01	N/A	B2	IRIS	06/10/99
Carbon tetrachloride	1.3E-01	0.8	1.6E-01	N/A	B2	IRIS	07/20/99
Chloroform	6.0E-03	0.5	1.2E-02	(mg/kg-day)$^{-1}$	B2	IRIS	06/10/99
Methylene chloride	7.5E-03	0.8	9.4E-03	N/A	B2	IRIS	06/10/99
Dinoseb	N/A	N/A	N/A	N/A	N/A	IRIS	06/10/99
4-Chloroaniline	N/A	N/A	N/A	N/A	N/A	IRIS	06/10/99
3,4-Dichloroaniline	N/A	N/A	N/A	N/A	N/A	IRIS	06/10/99
Propanil	N/A	N/A	N/A	(mg/kg-day)$^{-1}$	N/A	IRIS	07/14/99
Pentachlorophenol	1.2E-01	5.0E-01	2.4E-01	N/A	B2	IRIS	07/20/99

IRIS = Integrated Risk Information System
N/A = Not Applicable
mg/kg-day = milligram per kilogram day

EPA Group:
A - Human carcinogen
B1 - Probable human carcinogen - indicates that limited human data are available
B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans
C - Possible human carcinogen
D - Not classifiable as a human carcinogen
E - Evidence of noncarcinogenicity

(1) Dermal slope factor calculated using the following equation:
CSFd = CSFo / OAF
(2) Date IRIS was searched

TABLE 60
CANCER TOXICITY DATA -- INHALATION
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Chemical of Potential Concern	Inhalation Cancer Slope Factor	Units	Weight of Evidence/ Cancer Guideline Description	Source	Date (1)
Arsenic	1.51E+01	mg/kg-day^{-1}	A	IRIS	10/02/98
Chromium	4.10E+01	mg/kg-day^{-1}	A	IRIS	06/10/99
Mercury	N/A	mg/kg-day^{-1}	B2	IRIS	06/10/99
Cadmium	6.3E+00	N/A	N/A	IRIS	08/06/99
Dieldrin	1.61E+01	mg/kg-day^{-1}	B2	IRIS	04/23/99
Aldrin	1.70E+01	N/A	N/A	IRIS	05/19/99
Methoxychlor	N/A	N/A	N/A	IRIS	06/10/99
Toxaphene	1.12E+00	mg/kg-day^{-1}	B2	IRIS	11/03/98
Heptachlor	4.55E+00	N/A	B2	IRIS	08/06/99
1,2-Dichloroethane	9.10E-02	mg/kg-day^{-1}	B2	IRIS	06/10/99
Carbon tetrachloride	5.25E-02	N/A	N/A	IRIS	06/10/99
Chloroform	8.05E-02	N/A	N/A	IRIS	06/10/99
Methylene chloride	1.65E-03	mg/kg-day^{-1}	B2	IRIS	06/10/99
Dinoseb	N/A	N/A	N/A	IRIS	07/14/99
4-Chloroaniline	N/A	N/A	N/A	IRIS	07/14/99
3,4-Dichloroaniline	N/A	N/A	N/A	IRIS	07/14/99
Propanil	N/A	mg/kg-day^{-1}	B2	IRIS	06/10/99
Pentachlorophenol	N/A	N/A	N/A	IRIS	06/10/99

IRIS = Integrated Risk Information System
$\mu g/m^3$ = micrograms per cubic meter
ND = No Data
mg/kg-day = milligram per kilogram per day

EPA Group:
A - Human carcinogen
B1 - Probable human carcinogen - indicates that limited human data are availabl
B2 - Probable human carcinogen - indicates sufficient evidence in animals and inadequate or no evidence in humans
C - Possible human carcinogen
D - Not classifiable as a human carcinogen
E - Evidence of noncarcinogenicity

(1) For IRIS, this is the date of search. For HEAST and Region 6, this is the date of publication.

TABLE 61A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface and Subsurface Soil
Exposure Point:	Site 1
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Arsenic	9.9	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	0.037
	Dieldrin	0.016	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	0.00036
	1,2-Dichloroethane	0.43	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Inhalation	Arsenic	9.9	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dieldrin	0.016	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	1,2-Dichloroethane	0.43	mg/kg	N/A	N/A	M	2.24E-05	kg/kg-day	2.86E-03	mg/kg-day	N/A	N/A	0.003
Dermal	Arsenic	9.9	mg/kg	N/A	N/A	M	2.89E-07	kg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	0.01
	Dieldrin	0.016	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	0.00062
	1,2-Dichloroethane	0.43	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations.

Total Hazard Index Across All Exposure Routes/Pathways: <1

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 61B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface and Subsurface Soil
Exposure Point:	Site 1
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	9.9	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.50E+00	(mg/kg-day) $^{-1}$	2.39E-07
	Dieldrin	0.016	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.60E+01	(mg/kg-day) $^{-1}$	4.13E-09
	1,2-Dichloroethane	0.43	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	9.10E-02	(mg/kg-day) $^{-1}$	6.29E-10
Inhalation	Arsenic	9.9	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	1.51E+01	(mg/kg-day) $^{-1}$	7.56E-11
	Dieldrin	0.016	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	1.61E+01	(mg/kg-day) $^{-1}$	1.31E-13
	1,2-Dichloroethane	0.43	mg/kg	N/A	N/A	M	3.20E-07	kg/kg-day	9.10E-02	(mg/kg-day) $^{-1}$	1.25E-08
Dermal	Arsenic	9.9	mg/kg	N/A	N/A	M	4.13E-09	kg/kg-day	1.50E+00	(mg/kg-day) $^{-1}$	6.12E-08
	Dieldrin	0.016	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	8.00E+00	(mg/kg-day) $^{-1}$	1.76E-09
	1,2-Dichloroethane	0.43	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	7.28E-02	(mg/kg-day) $^{-1}$	4.30E-10
										Total Risk Across All Exposure Routes/Pathways	3E-07

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 61C
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Sediment
Exposure Medium:	Sediment
Exposure Point:	Site 1
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer	Intake (Non-Cancer Units	Referenc Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Arsenic	123	mg/kg	N/A	N/A	M	1.2E-07	kg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	0.048
	Chromium	82	mg/kg	N/A	N/A	M	1.2E-07	kg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	0.0032
Dermal	Arsenic	123	mg/kg	N/A	N/A	M	2.9E-07	kg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	0.12
	Chromium	82	mg/kg	N/A	N/A	M	9.6E-08	kg/kg-day	1.5E-03	mg/kg-day	N/A	N/A	0.0053
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 38 for definitions, sources of equation variables for pathway-specfic intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 61D
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe	Future
Medium:	Sediment
Exposure Medium:	Sediment
Exposure Point:	Site 1
Receptor Population	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC for Risk Calculation	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	123	mg/kg	N/A	N/A	M	1.68E-09	kg/kg-day	1.5	$(mg/kg\text{-}day)^{-1}$	3.09E-07
	Chromium	82	mg/kg	N/A	N/A	M	1.68E-09	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Dermal	Arsenic	123	mg/kg	N/A	N/A	M	4.1E-09	kg/kg-day	7.5	$(mg/kg\text{-}day)^{-1}$	3.81E-06
	Chromium	82	mg/kg	N/A	N/A	M	1.4E-09	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	4.1E-06

See Table 38 for definitions, sources of equation variables for pathway-specfic intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration
ND = No data available

TABLE 61E
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe	Current/Future
Medium	Groundwater
Exposure Medium	Groundwater
Exposure Point	Perched Groundwater
Receptor Population	Construction Worker
Receptor Age	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Arsenic	0.05	mg/L	N/A	N/A	M	1.9E-04	L/kg-day	3.0E-04	mg/kg-day	N/A	N/A	0.631
	4,4'-DDT	0.00034	mg/L	N/A	N/A	M	1.9E-04	L/kg-day	5.0E-04	mg/kg-day	N/A	N/A	0.00013
	Alpha-BHC	0.00002	mg/L	N/A	N/A	M	1.9E-04	L/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	1,4-Dichlorobenzene	0.004	mg/L	N/A	N/A	M	1.9E-04	L/kg-day	9.0E-02	mg/kg-day	N/A	N/A	0.000008
	2,6-Dinitrotoluene	0.221	mg/L	N/A	N/A	M	1.9E-04	L/kg-day	1.0E-03	mg/kg-day	N/A	N/A	0.041
	4-Chloroaniline	**5.9**	**mg/L**	**N/A**	**N/A**	**M**	**1.9E-04**	**L/kg-day**	**4.0E-03**	**mg/kg-day**	**N/A**	**N/A**	**0.277**
	bis(2-Chloroethyl)ether	0.005	mg/L	N/A	N/A	M	1.9E-04	L/kg-day	1.0E-02	mg/kg-day	N/A	N/A	0.00009
	Dinoseb	0.042	mg/L	N/A	N/A	M	1.9E-04	L/kg-day	1.0E-03	mg/kg-day	N/A	N/A	0.0079
	1,2-Dichloroethane	**29**	**mg/L**	**N/A**	**N/A**	**M**	**1.9E-04**	**L/kg-day**	**2.9E-03**	**mg/kg-day**	**N/A**	**N/A**	**1.9**
	4-Methyl-2-Pentanone	2.2	mg/L	N/A	N/A	M	1.9E-04	L/kg-day	8.0E-02	mg/kg-day	N/A	N/A	0.005
	Acetone	4.8	mg/L	N/A	N/A	M	1.9E-04	L/kg-day	1.0E-01	mg/kg-day	N/A	N/A	0.009
	Benzene	0.017	mg/L	N/A	N/A	M	1.9E-04	L/kg-day	3.0E-03	mg/kg-day	N/A	N/A	0.0011
	Chloroform	0.7	mg/L	N/A	N/A	M	1.9E-04	L/kg-day	1.0E-02	mg/kg-day	N/A	N/A	0.0132
	Methylene chloride	**600**	**mg/L**	**N/A**	**N/A**	**M**	**1.9E-04**	**L/kg-day**	**6.0E-02**	**mg/kg-day**	**N/A**	**N/A**	**1.9**
	Trichloroethene	0.028	mg/L	N/A	N/A	M	1.9E-04	L/kg-day	6.0E-03	mg/kg-day	N/A	N/A	0.0009
Dermal	Arsenic	0.05	mg/L	N/A	N/A	M	7.7E-05	L/kg-day	3.0E-04	mg/kg-day	N/A	N/A	0.013
	4,4'-DDT	0.00034	mg/L	N/A	N/A	M	3.3E-02	L/kg-day	2.5E-04	mg/kg-day	N/A	N/A	0.045
	Alpha-BHC	0.00002	mg/L	N/A	N/A	M	1.5E-03	L/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	1,4-Dichlorobenzene	0.004	mg/L	N/A	N/A	M	4.8E-03	L/kg-day	4.5E-02	mg/kg-day	N/A	N/A	0.00042
	2,6-Dinitrotoluene	0.221	mg/L	N/A	N/A	M	1.9E-04	L/kg-day	5.0E-04	mg/kg-day	N/A	N/A	0.085
	4-Chloroaniline	**5.9**	**mg/L**	**N/A**	**N/A**	**M**	**2.4E-03**	**L/kg-day**	**2.0E-03**	**mg/kg-day**	**N/A**	**N/A**	**7**
	bis(2-Chloroethyl)ether	0.005	mg/L	N/A	N/A	M	1.6E-04	L/kg-day	5.0E-03	mg/kg-day	N/A	N/A	0.00016
	Dinoseb	0.042	mg/L	N/A	N/A	M	2.2E-03	L/kg-day	5.0E-04	mg/kg-day	N/A	N/A	0.181
	1,2-Dichloroethane	**29**	**mg/L**	**N/A**	**N/A**	**M**	**4.1E-04**	**L/kg-day**	**2.3E-03**	**mg/kg-day**	**N/A**	**N/A**	**5.2**
	4-Methyl-2-Pentanone	2.2	mg/L	N/A	N/A	M	2.5E-04	L/kg-day	6.4E-02	mg/kg-day	N/A	N/A	0.009
	Acetone	4.8	mg/L	N/A	N/A	M	4.4E-05	L/kg-day	8.0E-02	mg/kg-day	N/A	N/A	0.003
	Benzene	0.017	mg/L	N/A	N/A	M	1.6E-03	L/kg-day	2.4E-03	mg/kg-day	N/A	N/A	0.011
	Chloroform	0.7	mg/L	N/A	N/A	M	6.9E-04	L/kg-day	8.0E-03	mg/kg-day	N/A	N/A	0.06
	Methylene chloride	**600**	**mg/L**	**N/A**	**N/A**	**M**	**3.5E-04**	**L/kg-day**	**4.8E-02**	**mg/kg-day**	**N/A**	**N/A**	**4.3**
	Trichloroethene	0.028	mg/L	N/A	N/A	M	1.2E-03	L/kg-day	4.8E-03	mg/kg-day	N/A	N/A	0.007
												Total Hazard Index Across All Exposure Routes/Pathways	21

(1) Route-Specific (M) EPC selected for hazard calculation.
(2) Subchronic

See Table 41 for definitions and sources of equation variables for pathway-specific intake factor calculations.

mg/L = milligram per liter
L/kg-day = liter per kilogram day
N/A = not applicable

TABLE 61F
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	Perched Groundwater
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	Selected for Risk Calculation	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	0.05	mg/L	N/A	N/A	M	2.7E-06	L/kg-day	1.50E+00	(mg/kg-day)$^{-1}$	2.01E-07
	4,4'-DDT	0.00034	mg/L	N/A	N/A	M	2.7E-06	L/kg-day	3.40E-01	(mg/kg-day)$^{-1}$	3.10E-10
	Alpha-BHC	0.00002	mg/L	N/A	N/A	M	2.7E-06	L/kg-day	6.30E+00	(mg/kg-day)$^{-1}$	3.38E-10
	1,4-Dichlorobenzene	0.004	mg/L	N/A	N/A	M	2.7E-06	L/kg-day	2.40E-02	(mg/kg-day)$^{-1}$	2.58E-10
	2,6-Dinitrotoluene	0.22	mg/L	N/A	N/A	M	2.7E-06	L/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	4-Chloroaniline	5.9	mg/L	N/A	N/A	M	2.7E-06	L/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	bis(2-Chloroethyl)ether	0.005	mg/L	N/A	N/A	M	2.7E-06	L/kg-day	1.10E+00	(mg/kg-day)$^{-1}$	1.48E-08
	Dinoseb	0.04	mg/L	N/A	N/A	M	2.7E-06	L/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	1,2-Dichloroethane	**29**	**mg/L**	**N/A**	**N/A**	**M**	**2.7E-06**	**L/kg-day**	**9.10E-02**	**(mg/kg-day)$^{-1}$**	**7.08E-06**
	4-Methyl-2-Pentanone	2.2	mg/L	N/A	N/A	M	2.7E-06	L/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Acetone	4.8	mg/L	N/A	N/A	M	2.7E-06	L/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Benzene	0.02	mg/L	N/A	N/A	M	2.7E-06	L/kg-day	2.90E-02	(mg/kg-day)$^{-1}$	1.32E-09
	Chloroform	0.7	mg/L	N/A	N/A	M	2.7E-06	L/kg-day	6.10E-03	(mg/kg-day)$^{-1}$	1.15E-08
	Methylene chloride	**600**	**mg/L**	**N/A**	**N/A**	**M**	**2.7E-06**	**L/kg-day**	**7.50E-03**	**(mg/kg-day)$^{-1}$**	**1.21E-05**
	Trichloroethene	0.028	mg/L	N/A	N/A	M	2.7E-06	L/kg-day	1.10E-02	(mg/kg-day)$^{-1}$	8.27E-10
Dermal	Arsenic	0.05	mg/L	N/A	N/A	M	1.1E-06	L/kg-day	1.50E+00	(mg/kg-day)$^{-1}$	8.24E-08
	4,4'-DDT	0.00034	mg/L	N/A	N/A	M	4.7E-04	L/kg-day	1.70E-02	(mg/kg-day)$^{-1}$	2.73E-09
	Alpha-BHC	0.000020	mg/L	N/A	N/A	M	2.1E-05	L/kg-day	3.15E-01	(mg/kg-day)$^{-1}$	1.32E-10
	1,4-Dichlorobenzene	0.004	mg/L	N/A	N/A	M	6.8E-05	L/kg-day	1.20E-03	(mg/kg-day)$^{-1}$	3.27E-10
	2,6-Dinitrotoluene	0.22	mg/L	N/A	N/A	M	2.8E-06	L/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	4-Chloroaniline	5.90	mg/L	N/A	N/A	M	3.4E-05	L/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	bis(2-Chloroethyl)ether	0.005	mg/L	N/A	N/A	M	2.3E-06	L/kg-day	5.50E-02	(mg/kg-day)$^{-1}$	6.35E-10
	Dinoseb	0.04	mg/L	N/A	N/A	M	3.1E-05	L/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	1,2-Dichloroethane	**29**	**mg/L**	**N/A**	**N/A**	**M**	**5.8E-06**	**L/kg-day**	**7.28E-02**	**(mg/kg-day)$^{-1}$**	**1.23E-05**
	4-Methyl-2-Pentanone	2.2	mg/L	N/A	N/A	M	3.6E-06	L/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Acetone	4.8	mg/L	N/A	N/A	M	6.3E-07	L/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Benzene	0.02	mg/L	N/A	N/A	M	2.3E-05	L/kg-day	2.32E-02	(mg/kg-day)$^{-1}$	9.11E-09
	Chloroform	0.7	mg/L	N/A	N/A	M	9.8E-06	L/kg-day	4.86E-03	(mg/kg-day)$^{-1}$	3.35E-08
	Methylene chloride	**600**	**mg/L**	**N/A**	**N/A**	**M**	**5.0E-06**	**L/kg-day**	**6.00E-03**	**(mg/kg-day)$^{-1}$**	**1.78E-05**
	Trichloroethene	0.028	mg/L	N/A	N/A	M	1.8E-05	L/kg-day	8.80E-03	(mg/kg-day)$^{-1}$	4.34E-09
										Total Risk Across All Exposure Routes/Pathways	5E-05

(1) Route-Specific (M) EPC selected for hazard calculation

See Table 41 for definitions and sources of equation variables for pathway-specific intake factor calculations.
Risks presented in boldface type were calculated using the one-hit equation for high carcinogenic risk levels in RAGS Part A (USEPA, 1989). The equation used is:
Risk = 1 - exp(-CDI × SF).

mg/L = milligram per liter
L/kg-day = liter per kilogram day
N/A = not applicable

TABLE 61G
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface and Subsurface Soil	Site 1	Arsenic	2.4E-07	7.6E-11	6.1E-08	3.0E-07	Arsenic	0.04	N/A	0.0095	0.047
			Dieldrin	4.1E-09	1.3E-13	1.8E-09	5.9E-09	Dieldrin	0.00036	N/A	0.00062	0.00098
			1,2-Dichloroethane	6.3E-10	1.2E-08	4.3E-10	1.4E-08	1,2-Dichloroethane	N/A	0.0034	N/A	0.0034
Sediment	Sediment	Site 1	Arsenic	3.1E-07	N/A	3.8E-06	4.1E-06	Arsenic	0.05	N/A	0.1	0.17
			Chromium	N/A	N/A	N/A	N/A	Chromium	0.0032	N/A	0.005	0.008
Groundwater	Perched Groundwater	Site 1	Arsenic	2.0E-07	N/A	8.2E-08	2.8E-07	Arsenic	0.03	N/A	0.013	0.044
			4,4'-DDT	3.1E-10	N/A	2.7E-09	N/A	4,4'-DDT	0.00013	N/A	0.05	0.05
			Alpha-BHC	3.4E-10	N/A	1.3E-10	4.7E-10	Alpha-BHC	N/A	N/A	N/A	N/A
			1,4-Dichlorobenzene	2.8E-10	N/A	3.3E-10	5.9E-10	1,4-Dichlorobenzene	0.0000083	N/A	0.000424	0.000433
			2,6-Dinitrotoluene	N/A	N/A	N/A	N/A	2,6-Dinitrotoluene	0.041	N/A	0.085	0.126
			4-Chloroaniline	N/A	N/A	N/A	N/A	4-Chloroaniline	0.277	N/A	7.0	7.3
			bis(2-Chloroethyl)ether	1.5E-08	N/A	6.4E-10	1.5E-08	bis(2-Chloroethyl)ether	0.00009	N/A	0.00016	0.00026
			Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	0.008	N/A	0.181	0.189
			1,2-Dichloroethane	7.1E-06	N/A	1.2E-05	1.9E-05	1,2-Dichloroethane	1.905	N/A	5.174	7.079
			4-Methyl-2-Pentanone (MIBK)	N/A	N/A	N/A	N/A	4-Methyl-2-Pentanone (MIBK)	0.005	N/A	0.009	0.014
			Acetone	N/A	N/A	N/A	N/A	Acetone	0.009	N/A	0.003	0.01
			Benzene	1.3E-09	N/A	9.1E-09	1.0E-08	Benzene	0.0011	N/A	0.011	0.013
			Chloroform	1.1E-08	N/A	3.3E-08	4.5E-08	Chloroform	0.013	N/A	0.060	0.073
			Methylene chloride	1.2E-05	N/A	1.8E-05	3.0E-05	Methylene chloride	1.879	N/A	4.333	6.21
			Trichloroethene	8.3E-10	N/A	4.3E-09	5.2E-09	Trichloroethene	0.0009	N/A	0.007	0.008

Total Risk Across[Soil]	3.2E-07
Total Risk Across [Sediment]	4.1E-06
Total Risk Across[Groundwater]	5.0E-05
Total Risk Across All Media and All Exposure Routes	5.4E-05

Total Hazard Index Across All Media and All Exposure Routes	21

N/A = Not Applicable

TABLE 62A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 1 Surface Soil
Receptor Population:	Adult Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Arsenic	14.4	mg/kg	N/A	N/A	M	4.89E-07	kg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	0.023
	Dieldrin	0.593	mg/kg	N/A	N/A	M	4.89E-07	kg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	0.006
	1,2-Dichloroethane	7.5	mg/kg	N/A	N/A	M	4.89E-07	kg/kg-day	2.86E-03	mg/kg-day	N/A	N/A	0.0013
Inhalation	Arsenic	14.4	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dieldrin	0.593	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	1,2-Dichloroethane	7.5	mg/kg	N/A	N/A	M	9.32E-05	kg/kg-day	1.43E-03	mg/kg-day	N/A	N/A	0.49
Dermal	Arsenic	14.4	mg/kg	N/A	N/A	M	1.20E-06	kg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	0.288
	Dieldrin	1	mg/kg	N/A	N/A	M	4.01E-06	kg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	0.095
	1,2-Dichloroethane	7.5	mg/kg	N/A	N/A	M	4.01E-06	kg/kg-day	2.29E-03	mg/kg-day	N/A	N/A	0.013
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 62B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 1 Surface Soil
Receptor Population:	Adult Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	14.35	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	1.50E+00	(mg/kg-day) $^{-1}$	3.8E-06
	Dieldrin	0.593	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	1.60E+01	(mg/kg-day) $^{-1}$	1.7E-06
	1,2-Dichloroethane	7.5	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	9.10E-02	(mg/kg-day) $^{-1}$	1.2E-07
Inhalation	Arsenic	14.4	mg/kg	N/A	N/A	M	5.29E-11	kg/kg-day	1.51E+01	(mg/kg-day) $^{-1}$	1.1E-08
	Dieldrin	0.593	mg/kg	N/A	N/A	M	5.29E-11	kg/kg-day	1.60E+01	(mg/kg-day) $^{-1}$	5.0E-10
	1,2-Dichloroethane	7.5	mg/kg	N/A	N/A	M	3.33E-05	kg/kg-day	9.10E-02	(mg/kg-day) $^{-1}$	2.3E-05
Dermal	Arsenic	14.4	mg/kg	N/A	N/A	M	4.30E-07	kg/kg-day	7.50E+00	(mg/kg-day) $^{-1}$	4.6E-05
	Dieldrin	0.593	mg/kg	N/A	N/A	M	1.43E-06	kg/kg-day	3.20E+01	(mg/kg-day) $^{-1}$	2.7E-05
	1,2-Dichloroethane	7.5	mg/kg	N/A	N/A	M	1.43E-06	kg/kg-day	1.14E-01	(mg/kg-day) $^{-1}$	1.2E-06
										Total Risk Across All Exposure Routes/Pathways	1E-04

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 62C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Adult Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient		
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 1	Arsenic	4E-06	1E-08	5E-05	5E-05	Arsenic	N/A	0.288	0.31
			Dieldrin	2E-06	5E-10	3E-05	3E-05	Dieldrin	N/A	0.095	0.101
			1,2-Dichloroethane	1E-07	2E-05	1E-06	2E-05	1,2-Dichloroethane	0.489	0.013	N/A
							Total Risk Across[Soil]				1E-04
							Total Risk Across[Groundwater]				N/A
							Total Risk Across All Media and All Exposure Routes				1.0E-04
								Total Hazard Index Across All Media and All Exposure Routes			<1

N/A = Not applicable

TABLE 63A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe	Future
Medium	Soil
Exposure Medium	Surface Soil
Exposure Point	Site 1 Surface Soil
Receptor Population	Trespasser
Receptor Age	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Arsenic	14.4	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	0.008
	Dieldrin	0.593	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	0.0019
	1,2-Dichloroethane	7.5	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	2.86E-03	mg/kg-day	N/A	N/A	0.00042
Inhalation	Arsenic	14.4	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dieldrin	0.593	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	1,2-Dichloroethane	7.5	mg/kg	N/A	N/A	M	1.94E-05	kg/kg-day	1.43E-03	mg/kg-day	N/A	N/A	0.102
Dermal	Arsenic	14.4	mg/kg	N/A	N/A	M	3.69E-07	kg/kg-day	6.00E-05	mg/kg-day	N/A	N/A	0.093
	Dieldrin	0.593	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	0.031
	1,2-Dichloroethane	7.5	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	2.29E-03	mg/kg-day	N/A	N/A	0.0043
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 48 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 63B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 1 Surface Soil
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	14.35	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	1.50E+00	(mg/kg-day)$^{-1}$	4.9E-07
	Dieldrin	0.593	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	1.60E+01	(mg/kg-day)$^{-1}$	2.1E-07
	1,2-Dichloroethane	7.5	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	9.10E-02	(mg/kg-day)$^{-1}$	1.5E-08
Inhalation	Arsenic	14.4	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	1.51E+01	(mg/kg-day)$^{-1}$	9.5E-10
	Dieldrin	0.593	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	1.60E+01	(mg/kg-day)$^{-1}$	4.2E-11
	1,2-Dichloroethane	7.5	mg/kg	N/A	N/A	M	2.77E-06	kg/kg-day	9.10E-02	(mg/kg-day)$^{-1}$	1.9E-06
Dermal	Arsenic	14.4	mg/kg	N/A	N/A	M	5.56E-08	kg/kg-day	7.50E+00	(mg/kg-day)$^{-1}$	6.0E-06
	Dieldrin	0.593	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	3.20E+01	(mg/kg-day)$^{-1}$	3.5E-06
	1,2-Dichloroethane	7.5	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	1.14E-01	(mg/kg-day)$^{-1}$	1.6E-07
										Total Risk Across All Exposure Routes/Pathways	1E-05

See Table 48 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 63C
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Sediment
Exposure Medium:	Sediment
Exposure Point:	Site 1
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer	Intake (Non-Cancer Units	Referenc Dose (2)	Reference Dose Units	Reference Concentratio	Reference Concentration Units	Hazard Quotient
Ingestion	Arsenic	123	mg/kg	N/A	N/A	M	3.2E-07	kg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	0.13
	Chromium	82	mg/kg	N/A	N/A	M	3.2E-07	kg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	0.0087
Dermal	Arsenic	123	mg/kg	N/A	N/A	M	3.9E-07	kg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	0.160
	Chromium	82	mg/kg	N/A	N/A	M	1.3E-07	kg/kg-day	1.5E-03	mg/kg-day	N/A	N/A	0.0071
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 52 for definitions, sources of equation variables for pathway-specfic intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu M = milligram per cubic meter

TABLE 63D
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Sediment
Exposure Medium:	Sediment
Exposure Point:	Site 1
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC for Risk Calculation	Intake (Cancer)	Intake (Cancer) Units	Cancer Slop Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	123	mg/kg	N/A	N/A	M	4.52E-08	kg/kg-day	1.5	$(mg/kg\text{-}day)^{-1}$	8.34E-06
	Chromium	82	mg/kg	N/A	N/A	M	4.52E-08	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Dermal	Arsenic	123	mg/kg	N/A	N/A	M	5.6E-08	kg/kg-day	7.50E+00	$(mg/kg\text{-}day)^{-1}$	5.13E-05
	Chromium	82.0	mg/kg	N/A	N/A	M	1.9E-08	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	6.0E-05

See Table 52 for definitions, sources of equation variables for pathway-specfic intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration
ND = No data available

TABLE 63E
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Trespasser
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 1	Arsenic	5E-07	1E-09	6E-06	6E-06	Arsenic	0.008	N/A	0.093	0.1
			Dieldrin	2E-07	4E-11	4E-06	4E-06	Dieldrin	0.002	N/A	0.031	0.03
			1,2-Dichloroethane	2E-08	2E-06	2E-07	2E-06	1,2-Dichloroethane	0.0004	0.102	0.004	0.1
Sediment	Sediment	Site 1	Arsenic	8.E-06	N/A	5.E-05	6E-05	Arsenic	0.13	N/A	0.16	0.3
			Chromium	N/A	N/A	N/A	N/A	Chromium	0.009	N/A	0.007	0.02
							Total Risk Across [Soil]					1E-05
							Total Risk Across [Sediment]					6E-05
							Total Risk Across All Media and All Exposure Routes					7E-05
												al Hazard Index Across All Media and All Exposure Routes
												<1

TABLE 64A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface and Subsurface Soil
Exposure Point:	Site 2 Surface and Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Arsenic	18.3	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	0.069
	Cadmium	2.1	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.0047
	Mercury	111.7	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Aldrin	0.0363	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	3.00E-05	mg/kg-day	N/A	N/A	0.0014
	Dieldrin	0.4	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	0.0079
	1,2-Dichloroethane	170	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Carbon tetrachloride	0.7	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	7.00E-04	mg/kg-day	N/A	N/A	0.0011
	Chloroform	13	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	1.00E-02	mg/kg-day	N/A	N/A	0.0015
	Methylene chloride	380	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	6.00E-02	mg/kg-day	N/A	N/A	0.007
Inhalation	Arsenic	18.3	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Cadmium	2	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	5.70E-05	mg/kg-day	N/A	N/A	1.3E-06
	Mercury	112	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	8.57E-05	mg/kg-day	N/A	N/A	4.6E-05
	Aldrin	0.036	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	3.00E-05	mg/kg-day	N/A	N/A	4.3E-08
	Dieldrin	0.35	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	1,2-Dichloroethane	170	mg/kg	N/A	N/A	M	2.24E-05	kg/kg-day	2.86E-03	mg/kg-day	N/A	N/A	1.329
	Carbon tetrachloride	0.67	mg/kg	N/A	N/A	M	4.27E-05	kg/kg-day	5.71E-04	mg/kg-day	N/A	N/A	0.0501
	Chloroform	13	mg/kg	N/A	N/A	M	3.35E-05	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Methylene chloride	380	mg/kg	N/A	N/A	M	3.61E-05	kg/kg-day	8.57E-01	mg/kg-day	N/A	N/A	0.016

TABLE 64A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface and Subsurface Soil
Exposure Point:	Site 2 Surface and Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Dermal	Arsenic	18.3	mg/kg	N/A	N/A	M	2.89E-07	kg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	0.018
	Cadmium	2	mg/kg	N/A	N/A	M	9.63E-08	kg/kg-day	1.00E-04	mg/kg-day	N/A	N/A	0.002
	Mercury	112	mg/kg	N/A	N/A	M	9.63E-08	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Aldrin	0.036	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	1.50E-05	mg/kg-day	N/A	N/A	0.0023
	Dieldrin	0.35	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	0.013
	1,2-Dichloroethane	170	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Carbon tetrachloride	0.67	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	5.60E-04	mg/kg-day	N/A	N/A	0.0012
	Chloroform	13	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	8.00E-03	mg/kg-day	N/A	N/A	0.0016
	Methylene chloride	380	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	4.80E-02	mg/kg-day	N/A	N/A	0.0076
												Total Hazard Index Across All Exposure Routes/Pathways	2

See Table 34 for pathway-specific intake factor calculations

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 6-4B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface and Subsurface Soil
Exposure Point:	Site 2 Surface and Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	18.3	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.50E+00	(mg/kg-day) $^{-1}$	4.41E-07
	Cadmium	2.1	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Mercury	111.7	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	N/A	(mg/kg-day)	N/A
	Aldrin	0	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.70E+01	(mg/kg-day) $^{-1}$	9.93E-09
	Dieldrin	0.4	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.60E+01	(mg/kg-day) $^{-1}$	9.02E-08
	1,2-Dichloroethane	170	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	9.10E-02	(mg/kg-day) $^{-1}$	2.49E-07
	Carbon tetrachloride	1	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.30E-01	(mg/kg-day) $^{-1}$	1.40E-09
	Chloroform	13	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	6.10E-03	(mg/kg-day) $^{-1}$	1.28E-09
	Methylene chloride	380	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	7.50E-03	(mg/kg-day) $^{-1}$	4.59E-08
Inhalation	Arsenic	18.3	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	1.51E+01	(mg/kg-day) $^{-1}$	1.40E-10
	Cadmium	2.1	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	6.30E+00	(mg/kg-day) $^{-1}$	6.69E-12
	Mercury	111.7	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	N/A	(mg/kg-day)	N/A
	Aldrin	0	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	1.72E+01	(mg/kg-day) $^{-1}$	3.16E-13
	Dieldrin	0.4	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	1.61E+01	(mg/kg-day) $^{-1}$	2.86E-12
	1,2-Dichloroethane	170	mg/kg	N/A	N/A	M	3.20E-07	kg/kg-day	9.10E-02	(mg/kg-day) $^{-1}$	4.94E-06
	Carbon tetrachloride	1	mg/kg	N/A	N/A	M	6.10E-07	kg/kg-day	5.25E-02	(mg/kg-day) $^{-1}$	2.15E-08
	Chloroform	13	mg/kg	N/A	N/A	M	4.79E-07	kg/kg-day	8.05E-02	(mg/kg-day) $^{-1}$	5.02E-07
	Methylene chloride	380	mg/kg	N/A	N/A	M	5.16E-07	kg/kg-day	1.65E-03	(mg/kg-day) $^{-1}$	3.23E-07

TABLE 64B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface and Subsurface Soil
Exposure Point:	Site 2 Surface and Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	Arsenic	18.3	mg/kg	N/A	N/A	M	4.13E-09	kg/kg-day	1.50E+00	(mg/kg-day) $^{-1}$	1.13E-07
	Cadmium	2.1	mg/kg	N/A	N/A	M	1.38E-09	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Mercury	111.7	mg/kg	N/A	N/A	M	1.38E-09	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Aldrin	0	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	8.50E+00	(mg/kg-day) $^{-1}$	4.24E-09
	Dieldrin	0.4	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	8.00E+00	(mg/kg-day) $^{-1}$	3.85E-08
	1,2-Dichloroethane	170	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	7.28E-02	(mg/kg-day) $^{-1}$	1.70E-07
	Carbon tetrachloride	1	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	1.04E-01	(mg/kg-day) $^{-1}$	9.58E-10
	Chloroform	13	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	4.88E-03	(mg/kg-day) $^{-1}$	8.73E-10
	Methylene chloride	380	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	6.00E-03	(mg/kg-day) $^{-1}$	3.14E-08
										Total Risk Across All Exposure Routes/Pathways	7.0E-06

See Table 34 for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 64C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface and Subsurface Soil	Site 2	Arsenic	4E-07	1E-10	1E-07	6E-07	Arsenic	0.07	N/A	0.02	0.09
			Cadmium	N/A	7E-12	N/A	7E-12	Cadmium	0.00	0.000001	0.00	0.01
			Mercury	N/A	N/A	N/A	N/A	Mercury	N/A	0.00005	N/A	0.00005
			Aldrin	1E-08	3E-13	4E-09	1E-08	Aldrin	0.00	0.0000000	0.00	0.00
			Dieldrin	9E-08	3E-12	4E-08	1E-07	Dieldrin	0.01	N/A	0.01	0.02
			1,2-Dichloroethane	2E-07	5E-06	2E-07	5E-06	1,2-Dichloroethane	N/A	1.33	N/A	1.33
			Carbon tetrachloride	1E-09	2E-08	1E-09	2E-08	Carbon tetrachloride	0.001	0.05	0.001	0.05
			Chloroform	1E-09	5E-07	9E-10	5E-07	Chloroform	0.00	N/A	0.00	0.00
			Methylene chloride	5E-08	3E-07	3E-08	4E-07	Methylene chloride	0.01	0.02	0.01	0.03
Groundwater	Perched Groundwater	Site 2	Arsenic	2E-07	N/A	8E-08	3E-07	Arsenic	0.03	N/A	0.013	0.044
			4,4'-DDT	3E-10	N/A	3E-09	3E-09	4,4'-DDT	0.00	N/A	0	0
			Alpha-BHC	3E-10	N/A	1E-10	5E-10	Alpha-BHC	N/A	N/A	N/A	N/A
			1,4-Dichlorobenzene	3E-10	N/A	3E-10	6E-10	1,4-Dichlorobenzene	0.00000835	N/A	0.000424	0.0004328
			2,6-Dinitrotoluene	N/A	N/A	N/A	N/A	2,6-Dinitrotoluene	0.041	N/A	0.085	0.126
			4-Chloroaniline	N/A	N/A	N/A	N/A	4-Chloroaniline	0.277	N/A	7.0	7.3
			bis(2-Chloroethyl)ether	1E-08	N/A	6E-10	2E-08	bis(2-Chloroethyl)ether	0.00	N/A	0.000	0.0
			Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	0.008	N/A	0.181	0.189
			1,2-Dichloroethane	7E-06	N/A	1E-05	2E-05	1,2-Dichloroethane	1.905	N/A	5.174	7.079
			4-Methyl-2-Pentanone (MIBK)	N/A	N/A	N/A	N/A	4-Methyl-2-Pentanone (MIBK)	0.005	N/A	0.009	0.0
			Acetone	N/A	N/A	N/A	N/A	Acetone	0.009	N/A	0.003	0.01
			Benzene	1E-09	N/A	9E-09	1E-08	Benzene	0.001	N/A	0	0
			Chloroform	1E-08	N/A	3E-08	4E-08	Chloroform	0.013	N/A	0.060	0.073
			Methylene chloride	1E-05	N/A	2E-05	3E-05	Methylene chloride	1.679	N/A	4.333	6.21
			Trichloroethene	8E-10	N/A	4E-09	5E-09	Trichloroethene	0	N/A	0	0
						Total Risk Across[Soil]	7E-06				Total Hazard Index Across All Media and All Exposure Routes	9
						Total Risk Across[Groundwater]	3E-07					
						Total Risk Across All Media and All Exposure Routes	6E-05					

N/A= Not applicable

TABLE 65A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 2 Surface Soil
Receptor Population:	Adult Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Aldrin	0.058	mg/kg	N/A	N/A	M	4.89E-07	kg/kg-day	3.00E-05	mg/kg-day	N/A	N/A	0.001
	Dinoseb	100	mg/kg	N/A	N/A	M	4.89E-07	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	0.049
Inhalation	Aldrin	0.058	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	100	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Aldrin	0.058	mg/kg	N/A	N/A	M	4.01E-06	kg/kg-day	1.50E-05	mg/kg-day	N/A	N/A	0.016
	Dinoseb	100	mg/kg	N/A	N/A	M	4.01E-06	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.8
										Total Hazard Index Across All Exposure Routes/Pathways			<1

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 65B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 2 Surface Soil
Receptor Population:	Adult Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Aldrin	0.058	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	1.70E+01	$(mg/kg\text{-}day)^{-1}$	1.72E-07
	Dinoseb	100	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Inhalation	Aldrin	0.058	mg/kg	N/A	N/A	M	5.29E-11	kg/kg-day	1.72E+01	$(mg/kg\text{-}day)^{-1}$	5.27E-11
	Dinoseb	100	mg/kg	N/A	N/A	M	5.29E-11	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Dermal	Aldrin	0.058	mg/kg	N/A	N/A	M	1.43E-06	kg/kg-day	3.40E+01	$(mg/kg\text{-}day)^{-1}$	2.83E-06
	Dinoseb	100	mg/kg	N/A	N/A	M	1.43E-06	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	3.0E-06

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 65C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Adult Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 2	Aldrin	2E-07	5E-11	3E-06	3E-06	Aldrin	0.0009	N/A	0.02	0.016
			Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	0.05	N/A	0.8	0.9
						Total Risk Across[Soil]	3E-06	Total Hazard Index Across All Media and All Exposure Routes				<1
						Total Risk Across All Media and All Exposure Routes	3E-06					

N/A = Not applicable

TABLE 66A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 2 Surface Soil
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Aldrin	0.058	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	3.00E-05	mg/kg-day	N/A	N/A	0.00031
	Dinoseb	100	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	0.016
Inhalation	Aldrin	0.058	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	100	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Aldrin	0.058	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	1.50E-05	mg/kg-day	N/A	N/A	0.005
	Dinoseb	100	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.26
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 48 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 66B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 2 Surface Soil
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Aldrin	0.058	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	1.70E+01	$(mg/kg\text{-}day)^{-1}$	2.23E-08
	Dinoseb	100	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Inhalation	Aldrin	0.058	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	1.72E+01	$(mg/kg\text{-}day)^{-1}$	4.38E-12
	Dinoseb	100	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Dermal	Aldrin	0.058	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	3.40E+01	$(mg/kg\text{-}day)^{-1}$	3.66E-07
	Dinoseb	100	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	3.9E-07

See Table 48 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 66C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Trespasser
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 2	Aldrin	2E-08	4E-12	4E-07	4E-07	Aldrin	0.0003	N/A	0.005	0.0053
			Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	0.02	N/A	0.3	0.3
							Total Risk Across[Soil]	4E-07	Total Hazard Index Across All Media and All Exposure Routes			<1
							Total Risk Across All Media and All Exposure Routes	4E-07				

N/A = Not applicable

TABLE 67A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 3 Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Dinoseb	13,000	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	15
Inhalation	Dinoseb	13,000	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Dinoseb	13,000	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	25
										Total Hazard Index Across All Exposure Routes/Pathways			40

See Table 36 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 67B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 3 Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Dinoseb	13,000	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Inhalation	Dinoseb	13,000	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Dermal	Dinoseb	13,000	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	N/A

See Table 36 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 67C
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Sediment
Exposure Medium:	Sediment
Exposure Point:	Site 3
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer	Intake (Non-Cancer Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentratio Units	Hazard Quotient
Ingestion	Arsenic	8.36	mg/kg	N/A	N/A	M	1.2E-07	kg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	0.0033
	Aldrin	0.011	mg/kg	N/A	N/A	M	1.2E-07	kg/kg-day	5.0E-05	mg/kg-day	N/A	N/A	0.000026
	Dieldrin	0.25	mg/kg	N/A	N/A	M	1.2E-07	kg/kg-day	5.0E-05	mg/kg-day	N/A	N/A	0.00058
	Toxaphene	1.6	mg/kg	N/A	N/A	M	1.2E-07	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Pentachlorophenol	5.3	mg/kg	N/A	N/A	M	1.2E-07	kg/kg-day	3.0E-02	mg/kg-day	N/A	N/A	0.000021
Dermal	Arsenic	8	mg/kg	N/A	N/A	M	2.9E-07	kg/kg-day	6.0E-05	mg/kg-day	N/A	N/A	0.04
	Aldrin	0.011	mg/kg	N/A	N/A	M	9.6E-07	kg/kg-day	1.5E-05	mg/kg-day	N/A	N/A	0.0007
	Dieldrin	0.25	mg/kg	N/A	N/A	M	9.6E-07	kg/kg-day	2.5E-05	mg/kg-day	N/A	N/A	0.0094
	Toxaphene	1.6	mg/kg	N/A	N/A	M	9.6E-07	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Pentachlorophenol	5.3	mg/kg	N/A	N/A	M	2.4E-06	kg/kg-day	1.5E-02	mg/kg-day	N/A	N/A	0.00085
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 38 for definitions, sources of equation variables for pathway-specfic intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 67D
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Sediment
Exposure Medium:	Sediment
Exposure Point:	Site 3
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC for Risk Calculation	Intake (Cancer)	Intake (Cancer) Units	Cancer Slop Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	8.36	mg/kg	N/A	N/A	M	1.7E-09	kg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	2.10E-08
	Aldrin	0.011	mg/kg	N/A	N/A	M	1.7E-09	kg/kg-day	1.7E+01	(mg/kg-day)$^{-1}$	3.10E-10
	Dieldrin	0.25	mg/kg	N/A	N/A	M	1.7E-09	kg/kg-day	1.6E+01	(mg/kg-day)$^{-1}$	6.58E-09
	Toxaphene	1.6	mg/kg	N/A	N/A	M	1.7E-09	kg/kg-day	1.1E+00	(mg/kg-day)$^{-1}$	2.95E-09
	Pentachlorophenol	5.3	mg/kg	N/A	N/A	M	1.7E-09	kg/kg-day	1.2E-01	(mg/kg-day)$^{-1}$	1.07E-09
Dermal	Arsenic	8	mg/kg	N/A	N/A	M	4.1E-09	kg/kg-day	7.5E+00	(mg/kg-day)$^{-1}$	2.59E-07
	Aldrin	0.011	mg/kg	N/A	N/A	M	1.4E-08	kg/kg-day	3.4E+01	(mg/kg-day)$^{-1}$	5.08E-09
	Dieldrin	0.25	mg/kg	N/A	N/A	M	1.4E-08	kg/kg-day	3.2E+01	(mg/kg-day)$^{-1}$	1.08E-07
	Toxaphene	1.6	mg/kg	N/A	N/A	M	1.4E-08	kg/kg-day	2.2E+00	(mg/kg-day)$^{-1}$	4.84E-08
	Pentachlorophenol	5.3	mg/kg	N/A	N/A	M	3.4E-08	kg/kg-day	2.4E-01	(mg/kg-day)$^{-1}$	4.37E-08
										Total Risk Across All Exposure Routes/Pathways	5E-07

See Table 38 for definitions, sources of equation variables for pathway-specfic intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration
ND = No data available

TABLE 67E
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	Site 3	Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	15	N/A	25	40
Sediment	Sediment	Site 3	Arsenic	2E-08	N/A	3E-07	3E-07	Arsenic	0.0033	N/A	0.04	0.04
			Aldrin	3E-10	N/A	5E-09	N/A	Aldrin	0.000026	N/A	0.0007	0.00072
			Dieldrin	7E-09	N/A	1E-07	1E-07	Dieldrin	0.00058	N/A	0.0094	0.01
			Toxaphene	3E-09	N/A	5E-08	5E-08	Toxaphene	N/A	N/A	N/A	N/A
			Pentachlorophenol	1E-09	N/A	4E-08	N/A	Pentachlorophenol	0.000021	N/A	0.0009	0.00087
						Total Risk Across[Soil]	N/A				Total Hazard Index Across All Media and All Exposure Routes	40
						Total Risk Across[Sediment]	4.5E-07					
						oss All Media and All Exposure Routes	4.5E-07					

N/A = Not applicable

TABLE 68A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Sediment
Exposure Medium:	Sediment
Exposure Point:	Site 3
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer	Intake (Non-Cancer Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentratio Units	Hazard Quotient
Ingestion	Arsenic	8.36	mg/kg	N/A	N/A	M	3.2E-07	kg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	0.009
	Aldrin	0.011	mg/kg	N/A	N/A	M	3.2E-07	kg/kg-day	5.0E-05	mg/kg-day	N/A	N/A	0.000069
	Dieldrin	0.25	mg/kg	N/A	N/A	M	3.2E-07	kg/kg-day	5.0E-05	mg/kg-day	N/A	N/A	0.002
	Toxaphene	1.6	mg/kg	N/A	N/A	M	3.2E-07	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Pentachlorophenol	5.3	mg/kg	N/A	N/A	M	3.2E-07	kg/kg-day	3.0E-02	mg/kg-day	N/A	N/A	0.000056
Dermal	Arsenic	8	mg/kg	N/A	N/A	M	3.9E-07	kg/kg-day	6.0E-05	mg/kg-day	N/A	N/A	0.054
	Aldrin	0.011	mg/kg	N/A	N/A	M	1.3E-06	kg/kg-day	1.5E-05	mg/kg-day	N/A	N/A	0.00094
	Dieldrin	0.25	mg/kg	N/A	N/A	M	1.3E-06	kg/kg-day	2.5E-05	mg/kg-day	N/A	N/A	0.013
	Toxaphene	1.6	mg/kg	N/A	N/A	M	1.3E-06	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Pentachlorophenol	5.3	mg/kg	N/A	N/A	M	3.2E-06	kg/kg-day	1.5E-02	mg/kg-day	N/A	N/A	0.0011
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 50 for definitions, sources of equation variables for pathway-specfic intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 68B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Sediment
Exposure Medium:	Sediment
Exposure Point:	Site 3
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC for Risk Calculation	Intake (Cancer)	Intake (Cancer) Units	Cancer Slop Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	8.36	mg/kg	N/A	N/A	M	4.5E-08	kg/kg-day	1.5E+00	$(mg/kg-day)^{-1}$	5.67E-07
	Aldrin	0.011	mg/kg	N/A	N/A	M	4.5E-08	kg/kg-day	1.7E+01	$(mg/kg-day)^{-1}$	8.35E-09
	Dieldrin	0.25	mg/kg	N/A	N/A	M	4.5E-08	kg/kg-day	1.6E+01	$(mg/kg-day)^{-1}$	1.77E-07
	Toxaphene	1.6	mg/kg	N/A	N/A	M	4.5E-08	kg/kg-day	1.1E+00	$(mg/kg-day)^{-1}$	7.96E-08
	Pentachlorophenol	5.3	mg/kg	N/A	N/A	M	4.5E-08	kg/kg-day	1.2E-01	$(mg/kg-day)^{-1}$	2.88E-08
Dermal	Arsenic	8	mg/kg	N/A	N/A	M	1.9E-07	kg/kg-day	7.5E+00	$(mg/kg-day)^{-1}$	1.16E-05
	Aldrin	0.011	mg/kg	N/A	N/A	M	1.9E-07	kg/kg-day	3.4E+01	$(mg/kg-day)^{-1}$	6.85E-08
	Dieldrin	0.25	mg/kg	N/A	N/A	M	1.9E-07	kg/kg-day	3.2E+01	$(mg/kg-day)^{-1}$	1.45E-06
	Toxaphene	1.6	mg/kg	N/A	N/A	M	4.6E-07	kg/kg-day	2.2E+00	$(mg/kg-day)^{-1}$	1.63E-06
	Pentachlorophenol	5.3	mg/kg	N/A	N/A	M	0.0E+00	kg/kg-day	2.4E-01	$(mg/kg-day)^{-1}$	0.00E+00
										Total Risk Across All Exposure Routes/Pathways	1.6E-05

See Table 50 for definitions, sources of equation variables for pathway-specfic intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration
ND = No data available

TABLE 68C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Trespasser
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Sediment	Sediment	Site 3	Arsenic	6E-07	N/A	1E-05	1E-05	Arsenic	0.01	N/A	0.05	0.06
			Aldrin	8E-09	N/A	7E-08	8E-08	Aldrin	0.0001	N/A	0.0009	0.0010
			Dieldrin	2E-07	N/A	1E-06	2E-06	Dieldrin	0.00	N/A	0.0127	0.0143
			Toxaphene	8E-08	N/A	2E-06	2E-06	Toxaphene	N/A	N/A	N/A	N/A
			Pentachlorophenol	3E-08	N/A	0E+00	3E-08	Pentachlorophenol	0.0001	N/A	0.0011	0.0012
						Total Risk Across[Sediment]	1.6E-05				Total Hazard Index Across All Media and All Exposure Routes	<1
						Total Risk Across All Media and All Exposure Routes	1.6E-05					

N/A = Not applicable

TABLE 69A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe	Future
Medium	Soil
Exposure Medium	Surface and Subsurface Soil
Exposure Point	Site 4
Receptor Population	Construction Worker
Receptor Age	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Arsenic	8.72	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	0.033
	Dieldrin	0.037	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	0.00083
	3,4-Dichloroaniline	12,000	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	4.00E-03	mg/kg-day	N/A	N/A	3.4
	Dinoseb	1,100	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	1.2
	1,2-Dichloroethane	0.12	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Inhalation	Arsenic	8.7	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dieldrin	0.037	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	3,4-Dichloroaniline	12,000	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	1,100	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	1,2-Dichloroethane	0.12	mg/kg	N/A	N/A	M	2.24E-05	kg/kg-day	2.86E-03	mg/kg-day	N/A	N/A	0.00094
Dermal	Arsenic	8.7	mg/kg	N/A	N/A	M	2.89E-07	kg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	0.0084
	Dieldrin	0.037	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	0.0014
	3,4-Dichloroaniline	12,000	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	2.00E-03	mg/kg-day	N/A	N/A	5.6
	Dinoseb	1,100	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	2.1
	1,2-Dichloroethane	0.12	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	13

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 69B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface and Subsurface Soil
Exposure Point:	Site 4
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	8.7	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.50E+00	(mg/kg-day)$^{-1}$	2.11E-07
	Dieldrin	0.037	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.60E+01	(mg/kg-day)$^{-1}$	9.52E-09
	3,4-Dichloroaniline	12,000	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Dinoseb	1,100	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	1,2-Dichloroethane	0.12	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	9.10E-02	(mg/kg-day)$^{-1}$	1.76E-10
Inhalation	Arsenic	8.7	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	1.51E+01	(mg/kg-day)$^{-1}$	6.67E-11
	Dieldrin	0.037	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	1.61E+01	(mg/kg-day)$^{-1}$	3.02E-13
	3,4-Dichloroaniline	12,000	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Dinoseb	1,100	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	1,2-Dichloroethane	0.12	mg/kg	N/A	N/A	M	3.20E-07	kg/kg-day	9.10E-02	(mg/kg-day)$^{-1}$	3.49E-09
Dermal	Arsenic	8.7	mg/kg	N/A	N/A	M	4.13E-09	kg/kg-day	1.5	(mg/kg-day)$^{-1}$	5.40E-08
	Dieldrin	0.037	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	8	(mg/kg-day)$^{-1}$	4.07E-09
	3,4-Dichloroaniline	12,000	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Dinoseb	1,100	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	1,2-Dichloroethane	0.12	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	7.28E-02	(mg/kg-day)$^{-1}$	1.20E-10
										Total Risk Across All Exposure Routes/Pathways	2.8E-07

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 69C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface and Subsurface Soil	Site 4	Arsenic	2.1E-07	6.7E-11	5.4E-08	2.65E-07	Arsenic	0.033	N/A	0.0084	0.04
			Dieldrin	9.5E-09	3.0E-13	4.1E-09	1.36E-08	Dieldrin	0.0008	N/A	0.0014	0.0023
			3,4-Dichloroaniline	N/A	N/A	N/A	N/A	3,4-Dichloroaniline	3.38	N/A	5.76	9
			Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	1.24	N/A	2.12	3
			1,2-Dichloroethane	1.8E-10	3.5E-09	1.2E-10	3.78E-09	1,2-Dichloroethane	N/A	0.001	N/A	0.0009
						Total Risk Across[Soil]	3E-07	Total Hazard Index Across All Media and All Exposure Routes				13
						Total Risk Across All Media and All Exposure Routes	3E-07					

N/A = Not applicable

TABLE 70A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 4 Surface Soil
Receptor Population:	Adult Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Dieldrin	0.46	mg/kg	N/A	N/A	M	1.83E-07	kg/kg-day	2.86E-03	mg/kg-day	N/A	N/A	0.00003
	Dinoseb	248	mg/kg	N/A	N/A	M	1.83E-07	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	0.05
Inhalation	Dieldrin	0.46	mg/kg	N/A	N/A	M	5.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	248	mg/kg	N/A	N/A	M	5.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Dieldrin	0.46	mg/kg	N/A	N/A	M	1.50E-06	kg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	0.027
	Dinoseb	248	mg/kg	N/A	N/A	M	1.50E-06	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.747
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 70B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 4 Surface Soil
Receptor Population:	Adult Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Dieldrin	0.46	mg/kg	N/A	N/A	M	6.55E-08	kg/kg-day	1.60E+01	$(mg/kg-day)^{-1}$	4.77E-07
	Dinoseb	248	mg/kg	N/A	N/A	M	6.55E-08	kg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
Inhalation	Dieldrin	0.46	mg/kg	N/A	N/A	M	1.99E-11	kg/kg-day	1.60E+01	$(mg/kg-day)^{-1}$	1.45E-10
	Dinoseb	248	mg/kg	N/A	N/A	M	1.99E-11	kg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
Dermal	Dieldrin	0.46	mg/kg	N/A	N/A	M	5.37E-07	kg/kg-day	3.20E+01	$(mg/kg-day)^{-1}$	7.82E-06
	Dinoseb	248	mg/kg	N/A	N/A	M	5.37E-07	kg/kg-day	N/A	$(mg/kg-day)^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	8.3E-06

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration
ND = No data available

TABLE 70C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Adult Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 4	Dieldrin	5E-07	1E-10	8E-06	8E-06	Dieldrin	0.00003	N/A	0.03	0.03
			Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	0.05	N/A	1	1
						Total Risk Across[Soil]	8.3E-06	Total Hazard Index Across All Media and All Exposure Routes				<1
						Total Risk Across All Media and All Exposure Routes	8.3E-06					

N/A = Not applicable

TABLE 71A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 4 Surface Soil
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Dieldrin	0.46	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	0.0014
	Dinoseb	248	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	0.039
Inhalation	Dieldrin	0.46	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	248	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Dieldrin	0.46	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	0.024
	Dinoseb	248	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.645
										Total Hazard Index Across All Exposure Routes/Pathways			<1

See Table 48 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 71B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 4 Surface Soil
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Dieldrin	0.46	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	1.60E+01	(mg/kg-day) $^{-1}$	1.65E-07
	Dinoseb	248	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
Inhalation	Dieldrin	0.46	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	1.60E+01	(mg/kg-day) $^{-1}$	3.21E-11
	Dinoseb	248	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
Dermal	Dieldrin	0.46	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	3.20E+01	(mg/kg-day) $^{-1}$	2.70E-06
	Dinoseb	248	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	2.9E-06

See Table 48 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration
ND = No data available

TABLE 71C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Trespasser
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 4	Dieldrin	2.E-07	3.E-11	3.E-06	3.E-06	Dieldrin	0.0014	N/A	0.024	0.0251
			Dinoseb	N/A	N/A	N/A		Dinoseb	0.039	N/A	0.84	0.6841
						Total Risk Across[Soil]	3E-06	tal Hazard Index Across All Media and All Exposure Routes				<1
						Total Risk Across All Media and All Exposure Routes	3E-06					

N/A = Not applicable

TABLE 72A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 5 Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Arsenic	9.7	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	0.036
	Dinoseb	170	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	0.19
Inhalation	Arsenic	9.7	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	170	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Arsenic	9.7	mg/kg	N/A	N/A	M	2.89E-07	kg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	0.0093
	Dinoseb	170	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	5.0E-04	mg/kg-day	N/A	N/A	0.33
										Total Hazard Index Across All Exposure Routes/Pathways			<1

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 72B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 5 Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	9.7	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.50E+00	(mg/kg-day) $^{-1}$	2.34E-07
	Dinoseb	170	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
Inhalation	Arsenic	9.7	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	1.51E+01	(mg/kg-day) $^{-1}$	7.42E-11
	Dinoseb	170	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
Dermal	Arsenic	9.7	mg/kg	N/A	N/A	M	4.13E-09	kg/kg-day	1.50E+00	(mg/kg-day) $^{-1}$	6.00E-08
	Dinoseb	170	mg/kg	N/A	N/A	M	1.38E-06	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	2.9E-07

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 72C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	Site 5	Arsenic	2.34E-07	7.42E-11	6.00E-08	2.94E-07	Arsenic	0.0364	N/A	0.0093	0.046
			Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	0.19	N/A	0.33	0.52
						Total Risk Across [Soil]	2.9E-07	Total Hazard Index Across All Media and All Exposure Routes				<1

N/A = Not applicable

TABLE 73A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 6 Surface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
	Arsenic	7.90	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	0.030
	Aldrin	0.017	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	3.00E-05	mg/kg-day	N/A	N/A	0.0007
	Dieldrin	0.031	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	0.001
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	5.00E-03	mg/kg-day	N/A	N/A	0.005
	Toxaphene	0.78	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	ND	mg/kg-day	N/A	N/A	N/A
	Dinoseb	37.97	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	0.043
Inhalation	Arsenic	7.9	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Aldrin	0.017	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dieldrin	0.031	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Toxaphene	0.78	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	37.97	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Arsenic	7.9	mg/kg	N/A	N/A	M	2.89E-07	kg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	0.008
	Aldrin	0.017	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	1.50E-05	mg/kg-day	N/A	N/A	0.00112
	Dieldrin	0.031	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	0.001
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	2.50E-03	mg/kg-day	N/A	N/A	0.008
	Toxaphene	0.78	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	ND	mg/kg-day	N/A	N/A	N/A
	Dinoseb	37.97	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.073
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 73B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 6 Surface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	7.9	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.50E+00	(mg/kg-day) $^{-1}$	1.91E-07
	Aldrin	0.017	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.70E+01	(mg/kg-day) $^{-1}$	4.78E-09
	Dieldrin	0.031	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.60E+01	(mg/kg-day) $^{-1}$	7.91E-09
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Toxaphene	0.78	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.10E+00	(mg/kg-day) $^{-1}$	1.38E-08
	Dinoseb	37.97	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
Inhalation	Arsenic	7.9	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	1.51E+01	(mg/kg-day) $^{-1}$	8.04E-11
	Aldrin	0.017	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	1.72E+01	(mg/kg-day) $^{-1}$	1.52E-13
	Dieldrin	0.031	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	1.60E+01	(mg/kg-day) $^{-1}$	2.50E-13
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	ND	(mg/kg-day) $^{-1}$	N/A
	Toxaphene	0.78	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	1.12E+00	(mg/kg-day) $^{-1}$	4.43E-13
	Dinoseb	37.97	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
Dermal	Arsenic	7.9	mg/kg	N/A	N/A	M	4.13E-09	kg/kg-day	7.50E+00	(mg/kg-day) $^{-1}$	2.44E-07
	Aldrin	0.017	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	3.40E+01	(mg/kg-day) $^{-1}$	8.16E-09
	Dieldrin	0.031	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	3.20E+01	(mg/kg-day) $^{-1}$	1.35E-08
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Toxaphene	0.78	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	2.20E+00	(mg/kg-day) $^{-1}$	2.35E-08
	Dinoseb	37.97	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	5E-07

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration
ND = No data available

TABLE 73C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 6	Aldrin	5E-09	2E-13	8E-09	1E-08	Aldrin	0.0007	N/A	0.0011	0.002
			Dieldrin	8E-09	2E-13	1E-08	2E-08	Dieldrin	0.00069	N/A	0.001	0.0019
			Methoxychlor	N/A	N/A	N/A	N/A	Methoxychlor	0.005	N/A	0.008	0.012
			Toxaphene	1E-08	4E-13	2E-08	4E-08	Toxaphene	N/A	N/A	N/A	N/A
			Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	0.043	N/A	0.0731	0.116
						Total Risk Across[Soil]	7.2E-08		Total Hazard Index Across All Media and All Exposure Routes			<1
						oss All Media and All Exposure Routes	7.2E-08					

N/A = Not applicable

TABLE 74A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 6 Surface Soil
Receptor Population:	Adult Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Aldrin	0.017	mg/kg	N/A	N/A	M	4.89E-07	kg/kg-day	3.00E-05	mg/kg-day	N/A	N/A	0.00028
	Dieldrin	0.031	mg/kg	N/A	N/A	M	4.89E-07	kg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	0.0003
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	4.89E-07	kg/kg-day	5.00E-03	mg/kg-day	N/A	N/A	0.00196
	Toxaphene	0.78	mg/kg	N/A	N/A	M	4.89E-07	kg/kg-day	ND	mg/kg-day	N/A	N/A	N/A
	Dinoseb	37.97	mg/kg	N/A	N/A	M	4.89E-07	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	0.019
Inhalation	Aldrin	0.017	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dieldrin	0.031	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Toxaphene	0.78	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	37.97	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Aldrin	0.017	mg/kg	N/A	N/A	M	4.01E-06	kg/kg-day	1.50E-05	mg/kg-day	N/A	N/A	0.00467
	Dieldrin	0.031	mg/kg	N/A	N/A	M	4.01E-06	kg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	0.0049
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	4.01E-06	kg/kg-day	2.50E-03	mg/kg-day	N/A	N/A	0.032
	Toxaphene	0.78	mg/kg	N/A	N/A	M	4.01E-06	kg/kg-day	ND	mg/kg-day	N/A	N/A	N/A
	Dinoseb	37.97	mg/kg	N/A	N/A	M	4.01E-06	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.3
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 74B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 6 Surface Soil
Receptor Population:	Adult Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	7.9	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	1.50E+00	(mg/kg-day) $^{-1}$	2.07E-06
	Aldrin	0.017	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	1.70E+01	(mg/kg-day) $^{-1}$	5.18E-08
	Dieldrin	0.031	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	1.60E+01	(mg/kg-day) $^{-1}$	8.58E-08
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Toxaphene	0.78	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	1.10E+00	(mg/kg-day) $^{-1}$	1.49E-07
	Dinoseb	37.97	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
Inhalation	Arsenic	7.9	mg/kg	N/A	N/A	M	5.29E-11	kg/kg-day	1.51E+01	(mg/kg-day) $^{-1}$	6.30E-09
	Aldrin	0.017	mg/kg	N/A	N/A	M	5.29E-11	kg/kg-day	1.72E+01	(mg/kg-day) $^{-1}$	1.58E-11
	Dieldrin	0.031	mg/kg	N/A	N/A	M	5.29E-11	kg/kg-day	1.60E+01	(mg/kg-day) $^{-1}$	2.60E-11
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	5.29E-11	kg/kg-day	ND	(mg/kg-day) $^{-1}$	N/A
	Toxaphene	0.78	mg/kg	N/A	N/A	M	5.29E-11	kg/kg-day	1.12E+00	(mg/kg-day) $^{-1}$	4.61E-11
	Dinoseb	37.97	mg/kg	N/A	N/A	M	5.29E-11	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
Dermal	Arsenic	7.9	mg/kg	N/A	N/A	M	4.30E-07	kg/kg-day	7.50E+00	(mg/kg-day) $^{-1}$	2.55E-05
	Aldrin	0.017	mg/kg	N/A	N/A	M	1.43E-06	kg/kg-day	3.40E+01	(mg/kg-day) $^{-1}$	8.50E-07
	Dieldrin	0.031	mg/kg	N/A	N/A	M	1.43E-06	kg/kg-day	3.20E+01	(mg/kg-day) $^{-1}$	1.41E-06
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	1.43E-06	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Toxaphene	0.78	mg/kg	N/A	N/A	M	1.43E-06	kg/kg-day	2.20E+00	(mg/kg-day) $^{-1}$	2.45E-06
	Dinoseb	37.97	mg/kg	N/A	N/A	M	1.43E-06	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	3E-05

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration
ND = No data available

TABLE 74C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Adult Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 6	Aldrin	5.E-08	2.E-11	9.E-07	9.E-07	Aldrin	0.00028	N/A	0.0047	0.005
			Dieldrin	9.E-08	3.E-11	1.E-06	1.E-06	Dieldrin	0.0003	N/A	0.0049	0.0052
			Methoxychlor	N/A	N/A	N/A	N/A	Methoxychlor	0.00196	N/A	0.032	0.034
			Toxaphene	1.E-07	5.E-11	2.E-06	3.E-06	Toxaphene	N/A	N/A	N/A	N/A
			Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	0.019	N/A	0.3047	0.323
						Total Risk Across[Soil]	5.E-06	Total Hazard Index Across All Media and All Exposure Routes				<1
						Total Risk Across All Media and All Exposure Routes	5.E-06					

N/A = Not applicable

TABLE 75A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 6 Surface Soil
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Aldrin	0.017	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	3.00E-05	mg/kg-day	N/A	N/A	0.00009
	Dieldrin	0.031	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	5.00E-05	mg/kg-day	N/A	N/A	0.000
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	5.00E-03	mg/kg-day	N/A	N/A	0.001
	Toxaphene	0.78	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	ND	mg/kg-day	N/A	N/A	N/A
	Dinoseb	37.97	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	0.006
Inhalation	Aldrin	0.017	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dieldrin	0.031	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Toxaphene	0.78	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	37.97	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Aldrin	0.017	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	1.50E-05	mg/kg-day	N/A	N/A	0.00151
	Dieldrin	0.031	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	2.50E-05	mg/kg-day	N/A	N/A	0.002
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	2.50E-03	mg/kg-day	N/A	N/A	0.010
	Toxaphene	0.78	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	ND	mg/kg-day	N/A	N/A	N/A
	Dinoseb	37.97	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.099
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 48 for definitions and sources of equation variables for pathway-specific intake factor calculations

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 75B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 6 Surface Soil
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Aldrin	0.017	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	1.70E+01	(mg/kg-day)$^{-1}$	6.71E-09
	Dieldrin	0.031	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	1.60E+01	(mg/kg-day)$^{-1}$	1.11E-08
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Toxaphene	0.78	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	1.10E+00	(mg/kg-day)$^{-1}$	1.93E-08
	Dinoseb	37.97	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
Inhalation	Aldrin	0.017	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	1.72E+01	(mg/kg-day)$^{-1}$	1.32E-12
	Dieldrin	0.031	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	1.60E+01	(mg/kg-day)$^{-1}$	2.16E-12
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	ND	(mg/kg-day)$^{-1}$	N/A
	Toxaphene	0.78	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	1.12E+00	(mg/kg-day)$^{-1}$	3.84E-12
	Dinoseb	37.97	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
Dermal	Aldrin	0.017	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	3.40E+01	(mg/kg-day)$^{-1}$	1.10E-07
	Dieldrin	0.031	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	3.20E+01	(mg/kg-day)$^{-1}$	1.82E-07
	Methoxychlor	20.06	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	Toxaphene	0.78	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	2.20E+00	(mg/kg-day)$^{-1}$	3.17E-07
	Dinoseb	37.97	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	6E-07

See Table 48 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration
ND = No data available

TABLE 7SC
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Trespasser
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 6	Aldrin	7E-09	1E-12	1E-07	1E-07	Aldrin	0.0001	N/A	0.0015	0.002
			Dieldrin	1E-08	2E-12	2E-07	2E-07	Dieldrin	0.00010	N/A	0.002	0.0017
			Methoxychlor	N/A	N/A	N/A	N/A	Methoxychlor	0.001	N/A	0.010	0.011
			Toxaphene	2E-08	4E-12	3E-07	3E-07	Toxaphene	N/A	N/A	N/A	N/A
			Dinoseb	N/A	N/A	N/A		Dinoseb	0.006	N/A	0.0966	0.105
						Total Risk Across [Soil]	6E-07	Total Hazard Index Across All Media and All Exposure Routes				<1
						Total Risk Across All Media and All Exposure Routes	6E-07					

N/A = Not applicable

TABLE 7BA
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 9 Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Arsenic	7.3	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	0.027
	3,4-Dichloroaniline	450	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	4.00E-03	mg/kg-day	N/A	N/A	0.13
	Dinoseb	29,000	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	33
	Propanil	4,000	mg/kg	N/A	N/A	M	1.13E-06	kg/kg-day	5.00E-03	mg/kg-day	N/A	N/A	0.9
Inhalation	Arsenic	7.3	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	3,4-Dichloroaniline	450	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	29,000	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Propanil	4,000	mg/kg	N/A	N/A	M	3.56E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Arsenic	7.3	mg/kg	N/A	N/A	M	2.89E-07	kg/kg-day	3.00E-04	mg/kg-day	N/A	N/A	0.007
	3,4-Dichloroaniline	450	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	2.00E-03	mg/kg-day	N/A	N/A	0.22
	Dinoseb	29,000	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	56
	Propanil	4,000	mg/kg	N/A	N/A	M	9.63E-07	kg/kg-day	2.50E-03	mg/kg-day	N/A	N/A	1.5
												Total Hazard Index Across All Exposure Routes/Pathways	91

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration

TABLE 76B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 9 Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Arsenic	7.3	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	1.50E+00	(mg/kg-day) $^{-1}$	1.76E-07
	3,4-Dichloroaniline	450	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Dinoseb	29,000	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Propanil	4,000	mg/kg	N/A	N/A	M	1.61E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
Inhalation	Arsenic	7.3	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	1.51E+01	(mg/kg-day) $^{-1}$	5.58E-11
	3,4-Dichloroaniline	450	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Dinoseb	29,000	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Propanil	4,000	mg/kg	N/A	N/A	M	5.08E-13	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
Dermal	Arsenic	7.3	mg/kg	N/A	N/A	M	4.13E-09	kg/kg-day	1.50E+00	(mg/kg-day) $^{-1}$	4.52E-08
	3,4-Dichloroaniline	450	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Dinoseb	29,000	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Propanil	4,000	mg/kg	N/A	N/A	M	1.38E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	2.2E-07

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 76C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface and Subsurface Soil	Site 9	Arsenic	2 E-07	6 E-11	5 E-08	2 E-07	Arsenic	0.027	N/A	0.007	0.034
			3,4-Dichloroaniline	N/A	N/A	N/A	N/A	3,4-Dichloroaniline	0.13	N/A	0.22	0.34
			Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	33	N/A	56	89
			Propanil	N/A	N/A	N/A	N/A	Propanil	0.9	N/A	1.5	2
						Total Risk Across [Soil]	2 E-07	Total Hazard Index Across All Media and All Exposure Routes				91
						oss All Media and All Exposure Routes	2 E-07					

N/A = Not applicable

9/17/99

TABLE 77A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 9 Surface Soil
Receptor Population:	Adult Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Heptachlor	1.5	mg/kg	N/A	N/A	M	4.89E-07	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.0015
	Dinoseb	29,000	mg/kg	N/A	N/A	M	4.89E-07	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	14.2
	Propanil	4,000	mg/kg	N/A	N/A	M	4.89E-07	kg/kg-day	5.00E-03	mg/kg-day	N/A	N/A	0.391
Inhalation	Heptachlor	1.5	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	29,000	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Propanil	4,000	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Heptachlor	1.5	mg/kg	N/A	N/A	M	4.01E-06	kg/kg-day	2.50E-04	mg/kg-day	N/A	N/A	0.024
	Dinoseb	29,000	mg/kg	N/A	N/A	M	4.01E-06	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	233
	Propanil	4,000	mg/kg	N/A	N/A	M	4.01E-06	kg/kg-day	2.50E-03	mg/kg-day	N/A	N/A	6.4
												Total Hazard Index Across All Exposure Routes/Pathways	247

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 77B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 9 Surface Soil
Receptor Population:	Adult Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Heptachlor	1.5	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	4.50E+00	$(mg/kg\text{-}day)^{-1}$	1.18E-06
	Dinoseb	29,000	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Propanil	4,000	mg/kg	N/A	N/A	M	1.75E-07	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Inhalation	Heptachlor	1.5	mg/kg	N/A	N/A	M	5.29E-11	kg/kg-day	4.55E+00	$(mg/kg\text{-}day)^{-1}$	3.61E-10
	Dinoseb	29,000	mg/kg	N/A	N/A	M	5.29E-11	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Propanil	4,000	mg/kg	N/A	N/A	M	5.29E-11	kg/kg-day	ND	$(mg/kg\text{-}day)^{-1}$	N/A
Dermal	Heptachlor	1.5	mg/kg	N/A	N/A	M	1.43E-06	kg/kg-day	9.00E+00	$(mg/kg\text{-}day)^{-1}$	1.93E-05
	Dinoseb	29,000	mg/kg	N/A	N/A	M	1.43E-06	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Propanil	4,000	mg/kg	N/A	N/A	M	1.43E-06	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	2.1E-05

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration
ND = No data available

TABLE 77C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Adult Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 9	Heptachlor	1E-06	4E-10	2E-05	2E-05	Heptachlor	0.0015	N/A	0.0241	0.026
			Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	14	N/A	233	247
			Propanil	N/A	N/A	N/A	N/A	Propanil	0.39	N/A	6	7
						Total Risk Across[Soil]	2E-05	Total Hazard Index Across All Media and All Exposure Routes				254
						Total Risk Across All Media and All Exposure Routes	2E-05					

N/A = Not applicable

TABLE 78A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 9 Surface Soil
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Heptachlor	1.5	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.00047
	Dinoseb	29000	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	4.6
	Propanil	4000	mg/kg	N/A	N/A	M	1.58E-07	kg/kg-day	5.00E-03	mg/kg-day	N/A	N/A	0.127
Inhalation	Heptachlor	1.5	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	29000	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Propanil	4000	mg/kg	N/A	N/A	M	3.08E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Heptachlor	1.5	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	2.50E-04	mg/kg-day	N/A	N/A	0.00779
	Dinoseb	29000	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	75.3
	Propanil	4000	mg/kg	N/A	N/A	M	1.30E-06	kg/kg-day	2.50E-03	mg/kg-day	N/A	N/A	2.1
												Total Hazard Index Across All Exposure Routes/Pathways	82

See Table 48 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 78B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 9 Surface Soil
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Heptachlor	1.5	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	4.50E+00	(mg/kg-day) $^{-1}$	1.53E-07
	Dinoseb	29,000	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Propanil	4,000	mg/kg	N/A	N/A	M	2.26E-08	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
Inhalation	Heptachlor	1.50	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	4.55E+00	(mg/kg-day) $^{-1}$	3.01E-11
	Dinoseb	29,000	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Propanil	4,000	mg/kg	N/A	N/A	M	4.41E-12	kg/kg-day	ND	(mg/kg-day) $^{-1}$	N/A
Dermal	Heptachlor	1.50	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	9.00E+00	(mg/kg-day) $^{-1}$	2.50E-06
	Dinoseb	29,000	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Propanil	4,000	mg/kg	N/A	N/A	M	1.85E-07	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	2.7E-06

See Table 48 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration
ND = No data available

TABLE 78C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Trespasser
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 9	Heptachlor	2E-07	3E-11	3E-06	3E-06	Heptachlor	0.00047	N/A	0.0078	0.0083
			Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	4.5	N/A	75.3	80
			Propanil	N/A	N/A	N/A	N/A	Propanil	0.127	N/A	2.1	2
						Total Risk Across[Soil]	3E-06	Total Hazard Index Across All Media and All Exposure Routes				82
						Total Risk Across All Media and All Exposure Routes	3E-06					

N/A = Not applicable

TABLE 79A
CALCULATION OF NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Groundwater
Exposure Medium:	Alluvial Groundwater
Exposure Point:	Alluvial Groundwater
Receptor Population:	Offsite Agricultural Workers
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	1,1,2-Trichloroethane	0.027	mg/L	0.72	$\mu g/m^3$	R	5.80E-03	m^3/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	1,2-Dichlorobenzene	0.01	mg/L	0.58	$\mu g/m^3$	R	5.80E-03	m^3/kg-day	5.71E-02	mg/kg-day	N/A	N/A	0.059
	1,2-Dichloroethane	73	mg/L	3,897	$\mu g/m^4$	R	5.80E-03	m^3/kg-day	2.86E-03	mg/kg-day	N/A	N/A	7896
	1,2-Dichloropropane	0.043	mg/L	4.14	$\mu g/m^3$	R	5.80E-03	m^3/kg-day	1.14E-03	mg/kg-day	4.00E-03	mg/m3	21
	Benzene	0.046	mg/L	13.6	$\mu g/m^3$	R	5.80E-03	m^3/kg-day	1.71E-03	mg/kg-day	N/A	N/A	46
	Bromodichloromethane	0.0061	mg/L	0.23	$\mu g/m^3$	R	5.80E-03	m^3/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Chlorobenzene	0.069	mg/L	60	$\mu g/m^3$	R	5.80E-03	m^3/kg-day	5.71E-03	mg/kg-day	N/A	N/A	61
	Chloroform	0.1	mg/L	145	$\mu g/m^3$	R	5.80E-03	m^3/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dibromochloromethane	0.013	mg/L	0.19	$\mu g/m^3$	R	5.80E-03	m^3/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Methylene Chloride	0.65	mg/L	498	$\mu g/m^3$	R	5.80E-03	m^3/kg-day	8.57E-01	mg/kg-day	N/A	N/A	3.4
	Vinyl Acetate	0.01	mg/L	0.23	$\mu g/m^3$	R	5.80E-03	m^3/kg-day	5.71E-02	mg/kg-day	2.00E-01	mg/m3	0.023
												Total Hazard Index Across All Exposure Routes/Pathways	8027

See Table 55 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
R = Route-specific concentration
$\mu g/m^3$ = micrograms per cubic meter

TABLE 79B
CALCULATION OF CANCER RISKS
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Groundwater
Exposure Medium:	Alluvial Groundwater
Exposure Point:	Alluvial Groundwater
Receptor Population:	Offsite Agricultural Workers
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	1,1,2-Trichloroethane	0.027	mg/L	0.72	$\mu g/m^3$	R	2.07E-03	kg/kg-day	5.60E-02	$(mg/kg\text{-}day)^{-1}$	8.35E-05
	1,2-Dichlorobenzene	0.01	mg/L	1	$\mu g/m^3$	R	2.07E-03	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	1,2-Dichloroethane	72.816	mg/L	3,896.61	$\mu g/m^3$	R	2.07E-03	kg/kg-day	9.10E-02	$(mg/kg\text{-}day)^{-1}$	5.20E-01
	1,2-Dichloropropane	0.043	mg/L	4.14	$\mu g/m^3$	R	2.07E-03	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Benzene	0.046	mg/L	13.6	$\mu g/m^3$	R	2.07E-03	kg/kg-day	2.90E-02	$(mg/kg\text{-}day)^{-1}$	8.15E-04
	Bromodichloromethane	0.006	mg/L	0.23	$\mu g/m^3$	R	2.07E-03	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Chlorobenzene	0.069	mg/L	60	$\mu g/m^3$	R	2.07E-03	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Chloroform	0.103	mg/L	145	$\mu g/m^3$	R	2.07E-03	kg/kg-day	8.05E-02	$(mg/kg\text{-}day)^{-1}$	1.67E-04
	Dibromochloromethane	0.013	mg/L	0.19	$\mu g/m^3$	R	2.07E-03	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Methylene Chloride	0.648	mg/L	498	$\mu g/m^3$	R	2.07E-03	kg/kg-day	1.65E-03	$(mg/kg\text{-}day)^{-1}$	1.70E-03
	Vinyl Acetate	0.01	mg/L	0.23	$\mu g/m^3$	R	2.07E-03	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	5.2E-01

See Table 55 for definitions and sources of equation variables for pathway-specific intake factor calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
R = Route-specific concentration
$\mu g/m^3$ = micrograms per cubic meter

TABLE 79C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Offsite Agricultural Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Alluvial Groundwater	Offsite Agricultural Wells	1,1,2-Trichloroethane	N/A	8.35E-05	N/A	8.35E-05	1,1,2-Trichloroethane	N/A	N/A	N/A	N/A
			1,2-Dichlorobenzene	N/A	N/A	N/A	N/A	1,2-Dichlorobenzene	N/A	0.06	N/A	0.06
			1,2-Dichloroethane	N/A	5.20E-01	N/A	5.20E-01	1,2-Dichloroethane	N/A	7896	N/A	7896
			1,2-Dichloropropane	N/A	N/A	N/A	N/A	1,2-Dichloropropane	N/A	21	N/A	21
			Benzene	N/A	8.15E-04	N/A	8.15E-04	Benzene	N/A	46	N/A	46
			Bromodichloromethane	N/A	N/A	N/A	N/A	Bromodichloromethane	N/A	N/A	N/A	N/A
			Chlorobenzene	N/A	N/A	N/A	N/A	Chlorobenzene	N/A	61	N/A	61
			Chloroform	N/A	1.67E-04	N/A	1.67E-04	Chloroform	N/A	N/A	N/A	N/A
			Dibromochloromethane	N/A	N/A	N/A	N/A	Dibromochloromethane	N/A	N/A	N/A	N/A
			Methylene Chloride	N/A	1.70E-03	N/A	1.70E-03	Methylene Chloride	N/A	3	N/A	3
			Vinyl Acetate	N/A	N/A	N/A	N/A	Vinyl Acetate	N/A	0.02	N/A	0.02
						Total Risk Across[Alluvial Groundwater]	5.2E-01					
						II Media and All Exposure Routes	5.2E-01					
								Total Hazard Index Across All Media and All Exposure Routes				8027

N/A = Not applicable

TABLE 80
RISK ASSESSMENT SUMMARY
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Perched Groundwater (1)	Site 1 & 2	N/A	N/A	N/A	N/A	N/A	4-Chloroaniline 1,2-Dichloroethane Methylene chloride	0.3 1.9 1.9	N/A N/A N/A	7 5.2 4.3	7 7 6
Soil	Surface and Subsurface Soil	Site 2	N/A	N/A	N/A	N/A	N/A	1,2-Dichloroethane	N/A	1	N/A	1
Soil	Subsurface Soil	Site 3	N/A	N/A	N/A	N/A	N/A	Dinoseb	15	N/A	25	40
Soil	Surface and Subsurface Soil	Site 4	N/A	N/A	N/A	N/A	N/A	3,4-Dichloroaniline Dinoseb	3 1	N/A N/A	6 2	9 3
Soil	Surface and Subsurface Soil	Site 9	N/A	N/A	N/A	N/A	N/A	3,4-Dichloroaniline Dinoseb Propanil	0.13 33 1	N/A N/A N/A	0.22 56 2	0.3 89 2

Total Risk Across[Soil]	N/A
Total Risk Across[Groundwater]	N/A
Total Risk Across All Media and All Exposure Routes	N/A

Total Hazard Index Across All Media and All Exposure Routes By Site

*Site 1	21
Site 2	22
Site 3	40
Site 4	13

TABLE 81
RISK ASSESSMENT SUMMARY
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Adult Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 2	Aldrin	2.E-07	5.E-11	3.E-06	3.E-06	Aldrin	0.001	N/A	0.02	0.016
Soil	Surface Soil	Site 9	N/A	N/A	N/A	N/A	N/A	Dinoseb Propanil	14 0.4	N/A N/A	233 6	247 7
				Total Risk Across[Surface Soil]			3E-06	Total Hazard Index Across All Media and All Exposure Routes By Site				
											Site 2	0.016
											Site 9	254

N/A = Not Applicable Carcinogenic or noncarcinogenic risks did not exceed 1E-04 or 1, respectively

TABLE 82
RISK ASSESSMENT SUMMARY
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Trespasser
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 9	N/A	N/A	N/A	N/A	N/A	Dinoseb Propanil	5 0.1	N/A N/A	75 2	80 2
						Total Risk Across[Soil]	N/A				Total Hazard Index Across All Media and All Exposure Routes	82

N/A = Not Applicable Carcinogenic or noncarcinogenic risks did not exceed 1E-04 or 1, respectively.

TABLE 83
RISK ASSESSMENT SUMMARY
REASONABLE MAXIMUM EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Offsite Agricultural Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Alluvial Groundwater	Offsite	1,2-Dichloroethane	N/A	5E-01	N/A	5E-01	1,2-Dichloroethane	N/A	7896	N/A	7896
			Benzene	N/A	8E-04	N/A	8E-04	1,2-Dichloropropane	N/A	21	N/A	21
			Chloroform	N/A	2E-04	N/A	2E-04	Benzene	N/A	46	N/A	46
			Methylene Chloride	N/A	2E-03	N/A	2E-03	Chlorobenzene	N/A	61	N/A	61
								Methylene Chloride	N/A	3	N/A	3
						Total Risk Across[Soil]	5E-01				Total Hazard Index Across All Media and All Exposure Routes	8027

N/A = Not Applicable. Carcinogenic or noncarcinogenic risks did not exceed 1E-04 or 1, respectively.

TABLE 84A
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	Perched Groundwater
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	4-Chloroaniline	0.686	mg/L	N/A	N/A	M	3.1E-05	L/kg-day	5.0E-04	mg/kg-day	N/A	N/A	0.043
	1,2-Dichloroethane	3.67	mg/L	N/A	N/A	M	3.1E-05	L/kg-day	3.0E-03	mg/kg-day	N/A	N/A	0.038
	Methylene chloride	60	mg/L	N/A	N/A	M	3.1E-05	L/kg-day	6.0E-03	mg/kg-day	N/A	N/A	0.31
Dermal	4-Chloroaniline	0.686	mg/L	N/A	N/A	M	5.0E-06	L/kg-day	2.5E-04	mg/kg-day	N/A	N/A	0.014
	1,2-Dichloroethane	3.67	mg/L	N/A	N/A	M	6.0E-05	L/kg-day	2.4E-03	mg/kg-day	N/A	N/A	N/A
	Methylene chloride	60	mg/L	N/A	N/A	M	5.1E-05	L/kg-day	4.8E-03	mg/kg-day	N/A	N/A	N/A
												Total Hazard Index Across All Exposure Routes/Pathways	<1

(1) Route-Specific (M) EPC selected for hazard calculation.
(2) Subchronic

See Table 41 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E4 and E5 for pathway-specific intake factor calculations.

mg/L = milligram per liter
L/kg-day = liter per kilogram day
N/A = not applicable

TABLE 84B
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Current/Future
Medium:	Groundwater
Exposure Medium:	Groundwater
Exposure Point:	Perched Groundwater
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	4-Chloroaniline	0.69	mg/L	N/A	N/A	M	4.47E-07	L/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	1,2-Dichloroethane	3.67	mg/L	N/A	N/A	M	4.47E-07	L/kg-day	9.10E-02	(mg/kg-day)$^{-1}$	1.49E-07
	Methylene chloride	60	mg/L	N/A	N/A	M	4.47E-07	L/kg-day	7.50E-03	(mg/kg-day)$^{-1}$	2.01E-07
Dermal	4-Chloroaniline	0.69	mg/L	N/A	N/A	M	4.99E-06	L/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
	1,2-Dichloroethane	3.67	mg/L	N/A	N/A	M	8.53E-07	L/kg-day	7.28E-02	(mg/kg-day)$^{-1}$	2.28E-07
	Methylene chloride	60	mg/L	N/A	N/A	M	7.25E-07	L/kg-day	6.00E-03	(mg/kg-day)$^{-1}$	2.61E-07
										Total Risk Across All Exposure Routes/Pathways	8.4E-07

(1) Route-Specific (M) EPC selected for hazard calculation.

See Table 41 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E4 and E5 for pathway-specific inta

mg/L = milligram per liter
L/kg-day = liter per kilogram day
N/A = not applicable

TABLE 84C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Perched Groundwater	Site 1 & 2	4-Chloroaniline	N/A	N/A	N/A	N/A	4-Chloroaniline	0.043	N/A	0.014	0.057
			1,2-Dichloroethane	1E-07	N/A	2E-07	4E-07	1,2-Dichloroethane	0.038	N/A	N/A	0.04
			Methylene chloride	2E-07	N/A	3E-07	5E-07	Methylene chloride	0.31	N/A	N/A	0.31
						Total Risk Across[Groundwater]	8E-07	Total Hazard Index Across All Media and All Exposure Routes				<1
						Total Risk Across All Media and All Exposure Routes	8E-07					

N/A = Not applicable

TABLE 85A
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 3 Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Dinoseb	2.784	mg/kg	N/A	N/A	M	3.91E-08	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	0.1
Inhalation	Dinoseb	2.784	mg/kg	N/A	N/A	M	9.01E-12	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Dinoseb	2.784	mg/kg	N/A	N/A	M	1.03E-08	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.1
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E1 through E3 for pathway-specific intake calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 85B
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 3 Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Dinoseb	2,784	mg/kg	N/A	N/A	M	5.59E-10	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
Inhalation	Dinoseb	2,784	mg/kg	N/A	N/A	M	1.29E-13	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
Dermal	Dinoseb	2,784	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	(mg/kg-day)$^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	N/A

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E1 through E3 for pathway-specific intake calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 85C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	Site 3	Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	0.11	N/A	0.06	0.17
							Total Risk Across[Soil]	N/A				Total Hazard Index Across All Media and All Exposure Routes: <1
							Total Risk Across[Sediment]	N/A				
							oss All Media and All Exposure Routes	N/A				

N/A = Not applicable

TABLE 86A
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 4 Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	3,4-Dichloroaniline	602	mg/kg	N/A	N/A	M	3.91E-08	kg/kg-day	4.00E-03	mg/kg-day	N/A	N/A	0.0059
	Dinoseb	152	mg/kg	N/A	N/A	M	3.91E-08	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	0.006
Inhalation	3,4-Dichloroaniline	602	mg/kg	N/A	N/A	M	9.01E-12	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	152	mg/kg	N/A	N/A	M	9.01E-12	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	3,4-Dichloroaniline	602	mg/kg	N/A	N/A	M	1.03E-08	kg/kg-day	2.00E-03	mg/kg-day	N/A	N/A	0.0031
	Dinoseb	152	mg/kg	N/A	N/A	M	1.03E-08	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.0031
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E1 through E3 for pathway-specific intake calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 86B
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 4 Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	3,4-Dichloroaniline	602	mg/kg	N/A	N/A	M	5.59E-10	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Dinoseb	152	mg/kg	N/A	N/A	M	5.59E-10	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
Inhalation	3,4-Dichloroaniline	602	mg/kg	N/A	N/A	M	1.29E-13	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Dinoseb	152	mg/kg	N/A	N/A	M	1.29E-13	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
Dermal	3,4-Dichloroaniline	602	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
	Dinoseb	152	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	N/A

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E1 through E3 for pathway-specific intake calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 85C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface and Subsurface Soil	Site 4	N/A	N/A	N/A	N/A	N/A	3,4-Dichloroaniline	0.006	N/A	0.003	0.009
								Dinoseb	0.006	N/A	0.003	0.009
						Total Risk Across[Soil]	N/A	Total Hazard Index Across All Media and All Exposure Routes				<1
						Total Risk Across All Media and All Exposure Routes	N/A					

N/A = Not applicable

TABLE 87A
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe	Future
Medium	Soil
Exposure Medium	Subsurface Soil
Exposure Point	Site 5 Subsurface Soil
Receptor Population	Construction Worker
Receptor Age	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Dinoseb	39	mg/kg	N/A	N/A	M	3.91E-08	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	0.002
Inhalation	Dinoseb	39	mg/kg	N/A	N/A	M	9.01E-12	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Dinoseb	39	mg/kg	N/A	N/A	M	1.03E-08	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.0008
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E1 through E3 for pathway-specific intake calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu M = milligram per cubic meter

TABLE 87B
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 5 Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Dinoseb	39	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Inhalation	Dinoseb	39	mg/kg	N/A	N/A	M	1.29E-13	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Dermal	Dinoseb	39	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	N/A

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E1 through E3 for pathway-specific intake calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 87C

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical				
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Subsurface Soil	Site 5	Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	0.002	N/A	0.00	0.002
							Total Risk Across[Soil]	N/A	Total Hazard Index Across All Media and All Exposure Routes			<1

N/A = Not applicable

TABLE 88A
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe	Future
Medium	Soil
Exposure Medium	Subsurface Soil
Exposure Point	Site 9 Subsurface Soil
Receptor Population	Construction Worker
Receptor Age	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	3,4-Dichloroaniline	80	mg/kg	N/A	N/A	M	3.91E-08	kg/kg-day	4.0E-03	mg/kg-day	N/A	N/A	0.0008
	Dinoseb	3,708	mg/kg	N/A	N/A	M	3.91E-08	kg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	0.15
	Propanil	1,854	mg/kg	N/A	N/A	M	3.91E-08	kg/kg-day	5.0E-03	mg/kg-day	N/A	N/A	0.015
Inhalation	3,4-Dichloroaniline	80	mg/kg	N/A	N/A	M	9.01E-12	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Dinoseb	3,708	mg/kg	N/A	N/A	M	1.03E-08	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Propanil	1,854	mg/kg	N/A	N/A	M	1.03E-08	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	3,4-Dichloroaniline	80	mg/kg	N/A	N/A	M	1.03E-08	kg/kg-day	2.0E-03	mg/kg-day	N/A	N/A	0.00042
	Dinoseb	3,708	mg/kg	N/A	N/A	M	1.03E-08	kg/kg-day	5.0E-04	mg/kg-day	N/A	N/A	0.08
	Propanil	1,854	mg/kg	N/A	N/A	M	1.03E-08	kg/kg-day	2.5E-03	mg/kg-day	N/A	N/A	0.008
												Total Hazard Index Across All Exposure Routes/Pathways	<1

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E1 through E3 for pathway-specific intake calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration

TABLE 88B
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Subsurface Soil
Exposure Point:	Site 9 Subsurface Soil
Receptor Population:	Construction Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	3,4-Dichloroaniline	80	mg/kg	N/A	N/A	M	5.59E-10	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Dinoseb	3,708	mg/kg	N/A	N/A	M	5.59E-10	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Propanil	1,854	mg/kg	N/A	N/A	M	5.59E-10	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Inhalation	3,4-Dichloroaniline	80	mg/kg	N/A	N/A	M	1.29E-13	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Dinoseb	3,708	mg/kg	N/A	N/A	M	1.29E-13	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Propanil	1,854	mg/kg	N/A	N/A	M	1.29E-13	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Dermal	3,4-Dichloroaniline	80	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Dinoseb	3,708	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Propanil	1,854	mg/kg	N/A	N/A	M	1.48E-10	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	N/A

See Table 34 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E1 through E3 for pathway-specific intake calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 88C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Construction Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface and Subsurface Soil	Site 9	N/A	N/A	N/A	N/A	N/A	3,4-Dichloroaniline	0.0008	N/A	0.0004	0.0012
								Dinoseb	0.15	N/A	0.08	0.22
								Propanil	0.01	N/A	0.01	0.02
						Total Risk Across[Soil]	N/A	Total Hazard Index Across All Media and All Exposure Routes				<1
						s All Media and All Exposure Routes	N/A					

N/A = Not applicable

TABLE 89A
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe	Current/Future
Medium	Soil
Exposure Medium	Surface Soil
Exposure Point	Site 9 Surface Soil
Receptor Population	Adult Worker
Receptor Age	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Dinoseb	7,593	mg/kg	N/A	N/A	M	4.89E-08	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	0.4
	Propanil	3,796	mg/kg	N/A	N/A	M	4.89E-08	kg/kg-day	5.00E-03	mg/kg-day	N/A	N/A	0.037
Inhalation	Dinoseb	7,593	mg/kg	N/A	N/A	M	6.38E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Propanil	3,796	mg/kg	N/A	N/A	M	6.38E-11	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Dinoseb	7,593	mg/kg	N/A	N/A	M	1.29E-07	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	2
	Propanil	3,796	mg/kg	N/A	N/A	M	1.29E-07	kg/kg-day	2.50E-03	mg/kg-day	N/A	N/A	0.2
												Total Hazard Index Across All Exposure Routes/Pathways	2

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations See Tables E6 through E8 for pathway-specific intake calculations

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu M = milligram per cubic meter

TABLE 89B
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 9 Surface Soil
Receptor Population:	Adult Worker
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Dinoseb	7,593	mg/kg	N/A	N/A	M	4.61E-09	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Propanil	3,796	mg/kg	N/A	N/A	M	4.61E-09	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Inhalation	Dinoseb	7,593	mg/kg	N/A	N/A	M	8.38E-11	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Propanil	3,796	mg/kg	N/A	N/A	M	8.38E-11	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Dermal	Dinoseb	7,593	mg/kg	N/A	N/A	M	1.29E-07	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Propanil	3,796	mg/kg	N/A	N/A	M	1.29E-07	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	N/A

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E6 through E8 for pathway-specific intake calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration

TABLE 89C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Adult Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 9	Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	0.37	N/A	2	2
			Propanil	N/A	N/A	N/A	N/A	Propanil	0.04	N/A	0.20	0.23
							Total Risk Across[Soil]					
							N/A					
							Total Risk Across All Media and All Exposure Routes					
							N/A					
								Total Hazard Index Across All Media and All Exposure Routes				3

N/A = Not applicable

TABLE 90A
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe	Future
Medium	Soil
Exposure Medium	Surface Soil
Exposure Point	Site 9 Surface Soil
Receptor Population	Trespasser
Receptor Age	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose (2)	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Ingestion	Dinoseb	7,593	mg/kg	N/A	N/A	M	7.91E-09	kg/kg-day	1.00E-03	mg/kg-day	N/A	N/A	0.1
	Propanil	3,796	mg/kg	N/A	N/A	M	7.91E-09	kg/kg-day	5.00E-03	mg/kg-day	N/A	N/A	0.006
Inhalation	Dinoseb	7,593	mg/kg	N/A	N/A	M	6.71E-12	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Propanil	3,796	mg/kg	N/A	N/A	M	6.71E-12	kg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
Dermal	Dinoseb	7,593	mg/kg	N/A	N/A	M	2.38E-08	kg/kg-day	5.00E-04	mg/kg-day	N/A	N/A	0.4
	Propanil	3,796	mg/kg	N/A	N/A	M	2.38E-08	kg/kg-day	2.50E-03	mg/kg-day	N/A	N/A	0.036
										Total Hazard Index Across All Exposure Routes/Pathways			<1

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E6 through E8 for pathway-specific intake calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Media-specific concentration
mg/cu. M = milligram per cubic meter

TABLE 90B
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Soil
Exposure Medium:	Surface Soil
Exposure Point:	Site 9 Surface Soil
Receptor Population:	Trespasser
Receptor Age:	Adolescent

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Dinoseb	7,593	mg/kg	N/A	N/A	M	1.13E-09	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Propanil	3,796	mg/kg	N/A	N/A	M	1.13E-09	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
Inhalation	Dinoseb	7,593	mg/kg	N/A	N/A	M	1.24E-12	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Propanil	3,796	mg/kg	N/A	N/A	M	1.24E-12	kg/kg-day	ND	$(mg/kg\text{-}day)^{-1}$	N/A
Dermal	Dinoseb	7,593	mg/kg	N/A	N/A	M	3.40E-09	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Propanil	3,796	mg/kg	N/A	N/A	M	3.40E-09	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
										Total Risk Across All Exposure Routes/Pathways	N/A

See Table 44 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E6 through E8 for pathway-specific intake calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
M = Medium-specific concentration
ND = No data available

TABLE 90C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Trespasser
Receptor Age: Adolescent

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Soil	Surface Soil	Site 9	Dinoseb	N/A	N/A	N/A	N/A	Dinoseb	0.1	N/A	0.4	0.4
			Propanil	N/A	N/A	N/A	N/A	Propanil	0.006	N/A	0.04	0.04
							Total Risk Across[Soil]					<1
							Total Risk Across All Media and All Exposure Routes					

N/A = Not applicable

TABLE 91A
CALCULATION OF NON-CANCER HAZARDS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Groundwater
Exposure Medium:	Alluvial Groundwater
Exposure Point:	Alluvial Groundwater
Receptor Population:	Offsite Agricultural Workers
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
Inhalation	1,2-Dichloroethane	73	mg/L	263	$\mu g/m^3$	R	1.64E-03	m^3/kg-day	2.86E-04	mg/kg-day	N/A	N/A	1511
	1,2-Dichloropropane	0.043	mg/L	4.14	$\mu g/m^3$	R	1.64E-03	m^3/kg-day	1.14E-03	mg/kg-day	4.00E-03	mg/m3	6
	Benzene	0.046	mg/L	7.8	$\mu g/m^3$	R	1.64E-03	m^3/kg-day	1.71E-03	mg/kg-day	N/A	N/A	8
	Chlorobenzene	0.069	mg/L	13	$\mu g/m^3$	R	1.64E-03	m^3/kg-day	5.71E-03	mg/kg-day	N/A	N/A	4
	Chloroform	0.103	mg/L	40	$\mu g/m^3$	R	1.64E-03	m^3/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Methylene Chloride	0.648	mg/L	147	$\mu g/m^3$	R	1.64E-03	m^3/kg-day	8.57E-01	mg/kg-day	N/A	N/A	0.3
												Total Hazard Index Across All Exposure Routes/Pathways	1528

See Table 55 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E12 for pathway-specific intake calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
R = Route-specific concentration
$\mu g/m^3$ = micrograms per cubic meter

TABLE 91B
CALCULATION OF CANCER RISKS
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe:	Future
Medium:	Groundwater
Exposure Medium:	Alluvial Groundwater
Exposure Point:	Alluvial Groundwater
Receptor Population:	Offsite Agricultural Workers
Receptor Age:	Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Inhalation	1,2-Dichloroethane	72.816	mg/L	263	$\mu g/m^3$	R	5.87E-04	kg/kg-day	9.10E-02	$(mg/kg\text{-}day)^{-1}$	1.39E-02
	1,2-Dichloropropane	0.043	mg/L	4.14	$\mu g/m^3$	R	5.87E-04	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Benzene	0.046	mg/L	7.8	$\mu g/m^3$	R	5.87E-04	kg/kg-day	2.90E-02	$(mg/kg\text{-}day)^{-1}$	1.33E-04
	Chlorobenzene	0.069	mg/L	13	$\mu g/m^3$	R	5.87E-04	kg/kg-day	N/A	$(mg/kg\text{-}day)^{-1}$	N/A
	Chloroform	0.103	mg/L	40	$\mu g/m^3$	R	5.87E-04	kg/kg-day	8.05E-02	$(mg/kg\text{-}day)^{-1}$	4.73E-05
	Methylene Chloride	0.648	mg/L	147	$\mu g/m^3$	R	5.87E-04	kg/kg-day	1.65E-03	$(mg/kg\text{-}day)^{-1}$	1.42E-04
										Total Risk Across All Exposure Routes/Pathways	1E-02

See Table 55 for definitions and sources of equation variables for pathway-specific intake factor calculations. See Tables E12 for pathway-specific intake calculations.

EPC = Exposure point concentration
mg/kg = milligram per kilogram
N/A = Not applicable
R = Route-specific concentration
$\mu g/m^3$ = micrograms per cubic meter

TABLE 91C
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY EXPOSURE
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Future
Receptor Population: Offsite Agricultural Worker
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical	Carcinogenic Risk				Chemical	Non-Carcinogenic Hazard Quotient			
				Ingestion	Inhalation	Dermal	Exposure Routes Total		Ingestion	Inhalation	Dermal	Exposure Routes Total
Groundwater	Alluvial Groundwater	Offsite Agricultural Wells	1,2-Dichloroethane	N/A	1.39E-02	N/A	1.39E-02	1,2-Dichloroethane	N/A	1511	N/A	1511
			1,2-Dichloropropane	N/A	N/A	N/A	N/A	1,2-Dichloropropane	N/A	6	N/A	6
			Benzene	N/A	1.33E-04	N/A	1.33E-04	Benzene	N/A	8	N/A	8
			Chlorobenzene	N/A	N/A	N/A	N/A	Chlorobenzene	N/A	4	N/A	4
			Chloroform	N/A	4.73E-05	N/A	4.73E-05	Chloroform	N/A	N/A	N/A	N/A
			Methylene Chloride	N/A	1.42E-04	N/A	1.42E-04	Methylene Chloride	N/A	0.28	N/A	0.28
			Total Risk Across[Alluvial Groundwater]				1.4E-02	Total Hazard Index Across All Media and All Exposure Routes				1528
			ll Media and All Exposure Routes				1.4E-02					

N/A = Not applicable

TABLE 92
REMEDIAL GOAL OPTIONS
SITE 1 SEDIMENT
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

					Remedial Goal Options (mg/kg)					
					Carcinogenic Risk			Noncarcinogenic Risk		
Receptor	Parameter	EPC (1) (mg/kg)	Estimated Carcinogenic Risk	Estimated Noncarcinogenic Risk	1.00E-06	1.00E-05	1.00E-04	0.1	1	3
Construction Worker	Arsenic	123	4.1E-06	0.2	30	299	2988	N/A	N/A	N/A
Adult Worker (2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trespasser	Arsenic	123	6.0E-05	0.3	2.06	20.6	206	N/A	N/A	N/A

EPC = Exposure Point Concentration
mg/kg = milligram per kilogram
N/A = Not Applicable

(1) Because of the small sample size for this medium, the maximum concentration was selected as the EPC. Refer to Table 31 for the EPC statistics for this site.
(2) Based on the definition of their respective exposure scenarios, adult workers are not exposed to sediment. RGOs were not calculated for this receptor for this medium.

Refer to Tables 63 and 65 for a detailed presentation of carcinogenic and noncarcinogenic risks.

TABLE 93
REMEDIAL GOAL OPTIONS
SITE 2 SURFACE AND SUBSURFACE SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Medium: **Surface and Subsurface Soil**

					Remedial Goal Options (mg/kg)					
					Carcinogenic Risk			Noncarcinogenic Risk		
Receptor	Parameter	EPC (mg/kg)	Estimated Carcinogenic Risk	Estimated Noncarcinogenic Risk	1.00E-06	1.00E-05	1.00E-04	0.1	1	3
Construction Worker	1,2-Dichloroethane	170	5.4E-06	1	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
Adult Worker (1)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trespasser (1)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPC = Exposure Point Concentration
mg/kg = milligram per kilogram
N/A = Not Applicable

(1) Based on the definition of their respective exposure scenarios, adult workers and trespassers are not exposed to subsurface soil. RGOs were not calculated for these receptors for this medium.

TABLE 94
REMEDIAL GOAL OPTIONS
SITE 3 SUBSURFACE SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Medium: **Subsurface Soil**

Receptor	Parameter	EPC (mg/kg)	Estimated Carcinogenic Risk	Estimated Noncarcinogenic Risk	Remedial Goal Options (mg/kg)					
					Carcinogenic Risk			Noncarcinogenic Risk		
					1.00E-06	1.00E-05	1.00E-04	0.1	1	3
Construction Worker	Dinoseb (1)	13,000	N/A	40	N/A	N/A	N/A	33	328	983
Adult Worker (2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trespasser (2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPC = Exposure Point Concentration
mg/kg = milligram per kilogram
N/A = Not Applicable

(1) USEPA does not classify Dinoseb as a carcinogen; therefore, RGOs are calculated based on noncarcinogenic risk.
(2) Based on the definition of their respective exposure scenarios, adult workers and trespassers are not exposed to subsurface soil. RGOs were not calculated for these receptors for this medium.

TABLE 95
REMEDIAL GOAL OPTIONS
SITE 4 SURFACE AND SUBSURFACE SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Medium: **Surface and Subsurface Soil**

					Remedial Goal Options (mg/kg)					
					Carcinogenic Risk			Noncarcinogenic Risk		
Receptor	Parameter	EPC (mg/kg)	Estimated Carcinogenic Risk	Estimated Noncarcinogenic Risk	1.00E-06	1.00E-05	1.00E-04	0.1	1	3
Construction Worker	3,4-Dichloroaniline (1)	12,000	N/A	9	N/A	N/A	N/A	131	1310	3931
	Dinoseb (1)	1,100	N/A	3	N/A	N/A	N/A	33	328	983
Adult Worker (2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trespasser (2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPC = Exposure Point Concentration
mg/kg = milligram per kilogram
N/A = Not Applicable

(1) USEPA does not classify 3,4-dichloroaniline and Dinoseb as carcinogens; therefore, RGOs are calculated based on noncarcinogenic risk.
(2) Based on the definition of their respective exposure scenarios, adult workers and trespassers are not exposed to subsurface soil. RGOs were not calculated for these receptors for this medium.
Refer to Tables 70 through 73 for a detailed presentation of carcinogenic and noncarcinogenic risks.

TABLE 96
REMEDIAL GOAL OPTIONS
SITE 9 SURFACE AND SUBSURFACE SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Medium: **Surface Soil (1)**

					Remedial Goal Options (mg/kg)					
					Carcinogenic Risk			Noncarcinogenic Risk		
Receptor	Parameter	EPC (mg/kg)	Estimated Carcinogenic Risk	Estimated Noncarcinogenic Risk	1.00E-06	1.00E-05	1.00E-04	0.1	1	3
Adult Worker	Dinoseb (2)	29,000	N/A	247	N/A	N/A	N/A	11.7	117	352
	Propanil (2)	4,000	N/A	7	N/A	N/A	N/A	58.7	587	1762
Trespasser	Dinoseb	29,000	N/A	2	N/A	N/A	N/A	1316	13161	39483
	Propanil	4,000	N/A	80	N/A	N/A	N/A	5	50	150

Medium: **Surface and Subsurface Soil (1)**

					Remedial Goal Options (mg/kg)					
					Carcinogenic Risk			Noncarcinogenic Risk		
Receptor	Parameter	EPC (mg/kg)	Estimated Carcinogenic Risk	Estimated Noncarcinogenic Risk	1.00E-06	1.00E-05	1.00E-04	0.1	1	3
Construction Worker	Dinoseb (2)	29,000	N/A	89	N/A	N/A	N/A	33	328	983
	Propanil (2)	4,000	N/A	2	N/A	N/A	N/A	164	1638	4913
Adult Worker (3)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trespasser (3)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPC = Exposure Point Concentration
mg/kg = milligram per kilogram
N/A = Not Applicable

(1) Because of the small sample size for this site, the maximum concentration was selected as the EPC for both the surface and subsurface soil and surface soil pathways. Refer to Tables 24 and 30 for the EPC statistics for this site.
(2) USEPA does not classify Dinoseb, Propanil, and 3,4-dichloroaniline as carcinogens; therefore, RGOs are calculated based on noncarcinogenic risk.
(3) Based on the definition of their respective exposure scenarios, adult workers and trespassers are not exposed to subsurface soil. RGOs were not calculated for these receptors

Refer to Tables 80 through 82 for a detailed presentation of carcinogenic and noncarcinogenic risks.

TABLE 97
REMEDIAL GOAL OPTIONS
PERCHED GROUNDWATER
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

					Remedial Goal Options (mg/L)					
					Carcinogenic Risk			Noncarcinogenic Risk		
Receptor	Parameter	EPC (µg/L)	Estimated Carcinogenic Risk	Estimated Noncarcinogenic Risk	1.00E-06	1.00E-05	1.00E-04	0.1	1	3
Construction Worker	4-Chloroaniline (2)	5.9	N/A	7	N/A	N/A	N/A	0.08	0.81	2.42
	1,2-Dichloroethane	0.042	1.9E-05	7	2E-03	2E-02	2E-01	6E-04	6E-03	2E-02
	Methylene chloride	600	3.0E-05	6	20	201	2006	10	97	290
Adult Worker (3)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trespasser (3)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPC = Exposure Point Concentration
mg/kg = milligram per kilogram
N/A = Not Applicable

(1) Because of the small sample size for this medium, the maximum concentration was selected as the EPC for all COCs. Refer to Table 33 for the EPC statistics for this site.
(2) USEPA does not classify 4-chloroaniline as a carcinogen; therefore, RGOs are calculated based on noncarcinogenic risk.
(3) Based on the definition of their respective exposure scenarios, adult workers and trespassers are not exposed to perched groundwater. RGOs were not calculated for these receptors for this media. RGOs were not calculated for these receptors for this medium.

Refer to Tables 63E and 63F for a detailed presentation of carcinogenic and noncarcinogenic risks.

TABLE 98
REMEDIAL GOAL OPTIONS
ALLUVIAL GROUNDWATER
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

					Remedial Goal Options (mg/L)					
					Carcinogenic Risk			Noncarcinogenic Risk		
Receptor	Parameter	EPC (mg/kg)	Estimated Carcinogenic Risk	Estimated Noncarcinogenic Risk	1.00E-06	1.00E-05	1.00E-04	0.1	1	3
Offsite Agricultural Worker	1,2-Dichloroethane	73	5.2E-01	7,896	1.E-04	1.E-03	1.E-02	9E-04	9E-03	3E-02
	1,2-Dichloropropane (1)	0.043	N/A	21	N/A	N/A	N/A	2E-04	2E-03	6E-03
	Benzene	0.046	8.1E-04	46	6.E-05	6.E-04	6.E-03	1E-04	1E-03	3E-03
	Chlorobenzene (1)	0.069	N/A	61	N/A	N/A	N/A	1E-04	1E-03	3E-03
	Chloroform (2)	0.103	1.7E-04	N/A	6.E-04	6.E-03	6.E-02	N/A	N/A	N/A
	Methylene chloride	0.648	1.7E-03	3	4.E-04	4.E-03	4.E-02	2.E-02	2.E-01	6.E-01
Construction Worker	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Adult Worker	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trespasser	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

EPC = Exposure Point Concentration
mg/kg = milligram per kilogram
N/A = Not Applicable

(1) USEPA does not classify 1,2-dichloropropane and chlorobenzene as carcinogens; therefore, RGOs are calculated based on noncarcinogenic risk. Refer to Table 34 for the EPC statis
(2) USEPA does not classify chloroform as a noncarcinogen; therefore, RGOs are calculated based on carcinogenic risk.
(3) Based on the definition of their respective exposure scenarios, construction workers, adult workers and trespassers are not exposed to alluvial groundwater. RGOs were not calculated for these receptors for this media. RGOs were not calculated for these receptors for this medium.

Refer to Tables 83A and 83B for a detailed presentation of carcinogenic and noncarcinogenic risks.

Appendix B

Analytical Data

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CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SURFACE SOIL DATA

PEST	SHORT ID --------->	1HA-1 (0-1')		1HA-2 (0-1')		1HA-3 (0-1')		1HA-4 (0-1')		1HA-5 (0-1')		1MW-1 (0-5')	
	ORIGINAL ID ----->	CED1SHA-1		CED1SHA-2		CED1SHA-3		CED1SHA-4		CED1SHA-5		CED1SMW-1-1	
	SAMPLE DATE ----->	09/02/93		09/02/93		09/02/93		09/02/93		09/02/93		08/31/93	
	DATE ANALYZED --->	09/11/93		09/11/93		09/11/93		09/12/93		09/12/93		09/11/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E003	VAL	E003	VAL	E002	VAL
1024-57-3	Heptachlor Epoxide	340.	U	69.	U	60.	U	630.	U	3200.	U	67.	U
1031-07-8	Endosulfan Sulfate	270.	U	55.	U	48.	U	50.	U	4900.		53.	U
309-00-2	Aldrin	16.	U	22.		2.9	U	31.	U	150.	U	3.2	U
319-84-6	Alpha-BHC	12.	U	2.5	U	2.2	U	23.	U	110.	U	2.4	U
319-85-7	Beta-BHC	24.	U	5.	U	4.4	U	47.		510.		4.8	U
319-86-8	Delta-BHC	37.	U	7.5	U	6.6	U	69.	U	2100.		7.2	U
33213-65-9	Endosulfan II	16.	U	3.3	U	2.9	U	31.	U	150.	U	3.2	U
50-29-3	4,4'-DDT	380.		10.	U	31.		92.	U	460.	U	9.6	U
5103-71-9	alpha-Chlordane	57.	U	12.	U	10.	U	110.	U	530.	U	11.	U
5103-74-2	gamma-Chlordane	57.	U	12.	U	10.	U	110.	U	530.	U	11.	U
53494-70-5	Endrin ketone	98.	U	20.	U	17.	U	180.	U	920.	U	19.	U
58-89-9	gamma-BHC (Lindane)	16.	U	3.3	U	2.9	U	31.	U	150.	U	3.2	U
60-57-1	Dieldrin	8.1	U	1.7	U	1.4	U	15.	U	593.		1.6	U
72-20-8	Endrin	24.	U	5.	U	4.4	U	46.	U	230.	U	4.8	U
72-43-5	Methoxychlor	730.	U	150.	U	130.	U	140.	U	6900.	U	140.	U
72-54-8	4,4'-DDD	110.		9.2	U	8.	U	84.	U	420.	U	12.	
72-55-9	4,4'-DDE	98.		47.		7.8		31.		150.	U	11.	
76-44-8	Heptachlor	12.	U	2.5	U	2.2	U	23.	U	110.	U	2.4	U
8001-35-2	Toxaphene	980.	U	200.	U	170.	U	180.	U	9200.	U	190.	U
959-98-8	Endosulfan I	57.	U	12.	U	10.	U	110.	U	530.	U	11.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SURFACE SOIL DATA

PEST	SHORT ID --------->	1MW-2 (0-5')		1MW-3 (0-5')		1MW-4 (0-5')		1MW-5 (0-5')			
	ORIGINAL ID ----->	CED1SMW-2-1		CED1SMW-3-1		CED1SMW-4-1		CED1SMW-5-1			
	SAMPLE DATE ----->	08/31/93		09/01/93		09/01/93		09/01/93			
	DATE ANALYZED --->	09/11/93		09/11/93		09/11/93		09/11/93			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL		
1024-57-3	Heptachlor Epoxide	65.	U	64.	U	65.	U	65.	U		
1031-07-8	Endosulfan Sulfate	52.	U	51.	U	52.	U	52.	U		
309-00-2	Aldrin	3.1	U	3.1	U	3.1	U	3.2	U		
319-84-6	Alpha-BHC	2.4	U	2.3	U	2.4	U	2.4	U		
319-85-7	Beta-BHC	4.7	U	4.6	U	4.7	U	4.7	U		
319-86-8	Delta-BHC	7.1	U	7.	U	7.1	U	7.1	U		
33213-65-9	Endosulfan II	3.1	U	3.1	U	3.1	U	3.2	U		
50-29-3	4,4'-DDT	9.4	U	9.3	U	9.4	U	9.5	U		
5103-71-9	alpha-Chlordane	11.	U	11.	U	11.	U	11.	U		
5103-74-2	gamma-Chlordane	11.	U	11.	U	11.	U	11.	U		
53494-70-5	Endrin ketone	19.	U	18.	U	19.	U	19.	U		
58-89-9	gamma-BHC (Lindane)	3.1	U	3.1	U	3.1	U	3.2	U		
60-57-1	Dieldrin	1.6	U	1.5	U	1.6	U	1.6	U		
72-20-8	Endrin	4.7	U	4.6	U	4.7	U	4.7	U		
72-43-5	Methoxychlor	140.	U	140.	U	140.	U	140.	U		
72-54-8	4,4'-DDD	13.		8.5	U	8.6	U	15.			
72-55-9	4,4'-DDE	6.1		3.1	U	3.1	U	11.			
76-44-8	Heptachlor	2.4	U	2.3	U	2.4	U	2.4	U		
8001-35-2	Toxaphene	190.	U	190.	U	190.	U	190.	U		
959-98-8	Endosulfan I	11.	U	11.	U	11.	U	11.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SURFACE SOIL DATA

RCRA METAL	SHORT ID --------->	1HA-1 (0-1')	1HA-2 (0-1')	1HA-3 (0-1')	1HA-4 (0-1')	1HA-5 (0-1')	1MW-1 (0-5')
	ORIGINAL ID ----->	CED1SHA-1	CED1SHA-2	CED1SHA-3	CED1SHA-4	CED1SHA-5	CED1SMW-1-1
	SAMPLE DATE ----->	09/02/93	09/02/93	09/02/93	09/02/93	09/02/93	08/31/93
	DATE ANALYZED --->	09/16/93	09/16/93	09/16/93	10/01/93	10/01/93	09/16/93
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E003	VAL	E003	VAL	E002	VAL
7440-38-2	Arsenic (As)	5.1		44.6		5.8		7.3		3.2		5.7	
7440-39-3	Barium (Ba)	119.		164.		163.		152.		43.8		248.	
7440-43-9	Cadmium (Cd)	0.36	U	0.37	U	0.33	U	0.33	U	0.33	U	0.35	U
7440-47-3	Chromium (Cr)	10.6		14.2		12.7		13.5		9.3		12.7	
7439-92-1	Lead (Pb)	8.1		8.7		8.9		19.5		7.6		9.1	
7439-97-6	Mercury (Hg)	0.11	U	0.11	U	0.1	U	0.1	U	0.1	U	0.11	U
7782-49-2	Selenium (Se)	0.6	U	0.62	U	0.55	U	0.55	U	0.55	U	0.59	U
7440-22-4	Silver (Ag)	0.36	U	0.37	U	0.33	U	0.33	U	0.33	U	0.35	U

*** Validation Complete ***

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CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SURFACE SOIL DATA

RCRA METAL									
	SHORT ID --------->	1MW-2 (0-5')		1MW-3 (0-5')		1MW-4 (0-5')		1MW-5 (0-5')			
	ORIGINAL ID ----->	CED1SMW-2-1		CED1SMW-3-1		CED1SMW-4-1		CED1SMW-5-1			
	SAMPLE DATE ----->	08/31/93		09/01/93		09/01/93		09/01/93			
	DATE ANALYZED --->	09/16/93		09/16/93		09/16/93		09/16/93			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG			
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL		
7440-38-2	Arsenic (As)	14.		6.8		3.3		5.2			
7440-39-3	Barium (Ba)	156.		100.		271.		108.			
7440-43-9	Cadmium (Cd)	0.35	U	0.34	U	0.34	U	0.36	U		
7440-47-3	Chromium (Cr)	10.9		11.3		11.		13.5			
7439-92-1	Lead (Pb)	9.1		9.3		7.7		8.			
7439-97-6	Mercury (Hg)	0.12	U	0.12	U	0.11	U	0.12	U		
7782-49-2	Selenium (Se)	0.58	U	0.57	U	0.56	U	0.59	U		
7440-22-4	Silver (Ag)	0.35	U	0.34	U	0.34	U	0.36	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	1HA-1 (0-1')		1HA-2 (0-1')		1HA-3 (0-1')		1HA-4 (0-1')		1HA-5 (0-1')		1MW-1 (0-5')	
	ORIGINAL ID ----->	CED1SHA-1		CED1SHA-2		CED1SHA-3		CED1SHA-4		CED1SHA-5		CED1SMW-1-1	
	SAMPLE DATE ----->	09/02/93		09/02/93		09/02/93		09/02/93		09/02/93		08/31/93	
	DATE ANALYZED --->	09/28/93		09/28/93		09/24/93		10/08/93		10/01/93		09/23/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E003	VAL	E003	VAL	E002	VAL
100-01-6	4-Nitroaniline	1600.	U	1600.	U	1400.	U	300000.	U	4500.	U	1600.	U
100-02-7	4-Nitrophenol	4000.	U	4100.	U	3600.	U	760000.	U	11000.	U	4000.	U
100-51-6	Benzyl alcohol	1600.	U	1600.	U	1400.	U	300000.	U	4500.	U	1600.	U
101-55-3	4-Bromophenyl-phenylether	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
105-67-9	2,4-Dimethylphenol	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
106-44-5	4-Methylphenol (p-Cresol)	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
106-46-7	1,4-Dichlorobenzene	800.	U	820.	U	720.	U	150000.	U	260.		790.	U
106-47-8	4-Chloroaniline	1600.	U	1600.	U	1400.	U	300000.	U	4500.	U	1600.	U
108-60-1	bis(2-chloroisopropyl) ether	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
108-95-2	Phenol	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
111-44-4	bis(2-Chloroethyl)ether	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
111-91-1	bis(2-Chloroethoxy)methane	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
117-84-0	Di-n-octylphthalate	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
118-74-1	Hexachlorobenzene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
120-12-7	Anthracene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
120-82-1	1,2,4-Trichlorobenzene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
120-83-2	2,4-Dichlorophenol	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
121-14-2	2,4-Dinitrotoluene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
129-00-0	Pyrene	800.	U	160.		720.	U	150000.	U	2300.	U	790.	U
131-11-3	Dimethylphthalate	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
132-64-9	Dibenzofuran	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
191-24-2	Benzo(g,h,i)perylene	NR		NR		NR		NR		NR		NR	
193-39-5	Indeno(1,2,3-cd)pyrene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
205-99-2	Benzo(b)fluoranthene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
206-44-0	Fluoranthene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
207-08-9	Benzo(k)fluoranthene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
208-96-8	Acenaphthylene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
218-01-9	Chrysene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
50-32-8	Benzo(a)pyrene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
51-28-5	2,4-Dinitrophenol	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
534-52-1	4,6-Dinitro-2-methylphenol	4000.	U	4100.	U	3600.	U	760000.	U	11000.	U	4000.	U
53-70-3	Dibenz(a,h)anthracene	NR		NR		NR		NR		NR		NR	
541-73-1	1,3-Dichlorobenzene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
56-55-3	Benzo(a)anthracene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
59-50-7	4-Chloro-3-methylphenol	1600.	U	1600.	U	1400.	U	300000.	U	4500.	U	1600.	U
606-20-2	2,6-Dinitrotoluene	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
621-64-7	N-Nitroso-di-n-propylamine	800.	U	820.	U	720.	U	150000.	U	2300.	U	790.	U
65-85-0	Benzoic acid	4000.	U	4100.	U	3600.	U	760000.	U	11000.	U	4000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	1MW-2 (0-5')		1MW-3 (0-5')		1MW-4 (0-5')		1MW-5 (0-5')			
	ORIGINAL ID ----->	CED1SMW-2-1		CED1SMW-3-1		CED1SMW-4-1		CED1SMW-5-1			
	SAMPLE DATE ----->	08/31/93		09/01/93		09/01/93		09/01/93			
	DATE ANALYZED --->	09/23/93		09/23/93		09/23/93		09/24/93			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL		
100-01-6	4-Nitroaniline	1500.	U	1500.	U	1500.	U	1500.	U		
100-02-7	4-Nitrophenol	3900.	U	3800.	U	3900.	U	3900.	U		
100-51-6	Benzyl alcohol	1500.	U	1500.	U	1500.	U	1500.	U		
101-55-3	4-Bromophenyl-phenylether	780.	U	770.	U	770.	U	780.	U		
105-67-9	2,4-Dimethylphenol	780.	U	770.	U	770.	U	780.	U		
106-44-5	4-Methylphenol (p-Cresol)	780.	U	770.	U	770.	U	780.	U		
106-46-7	1,4-Dichlorobenzene	780.	U	770.	U	770.	U	780.	U		
106-47-8	4-Chloroaniline	1500.	U	1500.	U	1500.	U	1500.	U		
108-60-1	bis(2-chloroisopropyl) ether	780.	U	770.	U	770.	U	780.	U		
108-95-2	Phenol	780.	U	770.	U	770.	U	780.	U		
111-44-4	bis(2-Chloroethyl)ether	780.	U	770.	U	770.	U	780.	U		
111-91-1	bis(2-Chloroethoxy)methane	780.	U	770.	U	770.	U	780.	U		
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	780.	U	770.	U	770.	U	780.	U		
117-84-0	Di-n-octylphthalate	780.	U	770.	U	770.	U	780.	U		
118-74-1	Hexachlorobenzene	780.	U	770.	U	770.	U	780.	U		
120-12-7	Anthracene	780.	U	770.	U	770.	U	780.	U		
120-82-1	1,2,4-Trichlorobenzene	780.	U	770.	U	770.	U	780.	U		
120-83-2	2,4-Dichlorophenol	780.	U	770.	U	770.	U	780.	U		
121-14-2	2,4-Dinitrotoluene	780.	U	770.	U	770.	U	780.	U		
129-00-0	Pyrene	780.	U	770.	U	770.	U	780.	U		
131-11-3	Dimethylphthalate	780.	U	770.	U	770.	U	780.	U		
132-64-9	Dibenzofuran	780.	U	770.	U	770.	U	780.	U		
191-24-2	Benzo(g,h,i)perylene	NR		NR		NR		NR			
193-39-5	Indeno(1,2,3-cd)pyrene	780.	U	770.	U	770.	U	780.	U		
205-99-2	Benzo(b)fluoranthene	780.	U	770.	U	770.	U	780.	U		
206-44-0	Fluoranthene	780.	U	770.	U	770.	U	780.	U		
207-08-9	Benzo(k)fluoranthene	780.	U	770.	U	770.	U	780.	U		
208-96-8	Acenaphthylene	780.	U	770.	U	770.	U	780.	U		
218-01-9	Chrysene	780.	U	770.	U	770.	U	780.	U		
50-32-8	Benzo(a)pyrene	780.	U	770.	U	770.	U	780.	U		
51-28-5	2,4-Dinitrophenol	780.	U	770.	U	770.	U	780.	U		
534-52-1	4,6-Dinitro-2-methylphenol	3900.	U	3800.	U	3900.	U	3900.	U		
53-70-3	Dibenz(a,h)anthracene	NR		NR		NR		NR			
541-73-1	1,3-Dichlorobenzene	780.	U	770.	U	770.	U	780.	U		
56-55-3	Benzo(a)anthracene	780.	U	770.	U	770.	U	780.	U		
59-50-7	4-Chloro-3-methylphenol	1500.	U	1500.	U	1500.	U	1500.	U		
606-20-2	2,6-Dinitrotoluene	780.	U	770.	U	770.	U	780.	U		
621-64-7	N-Nitroso-di-n-propylamine	780.	U	770.	U	770.	U	780.	U		
65-85-0	Benzoic acid	3900.	U	3800.	U	3900.	U	3900.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	1MW-2 (0-5')		1MW-3 (0-5')		1MW-4 (0-5')		1MW-5 (0-5')			
	ORIGINAL ID ----->	CED1SMW-2-1		CED1SMW-3-1		CED1SMW-4-1		CED1SMW-5-1			
	SAMPLE DATE ----->	08/31/93		09/01/93		09/01/93		09/01/93			
	DATE ANALYZED --->	09/23/93		09/23/93		09/23/93		09/24/93			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL		
67-72-1	Hexachloroethane	780.	U	770.	U	770.	U	780.	U		
7005-72-3	4-Chlorophenyl-phenylether	780.	U	770.	U	770.	U	780.	U		
709-98-8	Propanil	780.	U	770.	U	770.	U	780.	U		
77-47-4	Hexachlorocyclopentadiene	780.	U	770.	U	770.	U	780.	U		
78-59-1	Isophorone	780.	U	770.	U	770.	U	780.	U		
83-32-9	Acenaphthene	780.	U	770.	U	770.	U	780.	U		
84-66-2	Diethylphthalate	780.	U	770.	U	770.	U	780.	U		
84-74-2	Di-n-butylphthalate	780.	U	770.	U	770.	U	780.	U		
85-01-8	Phenanthrene	780.	U	770.	U	770.	U	780.	U		
85-68-7	Butylbenzylphthalate	780.	U	770.	U	770.	U	780.	U		
86-30-6	N-Nitrosodiphenylamine	780.	U	770.	U	770.	U	780.	U		
86-73-7	Fluorene	780.	U	770.	U	770.	U	780.	U		
87-68-3	Hexachlorobutadiene	780.	U	770.	U	770.	U	780.	U		
87-86-5	Pentachlorophenol	3900.	U	3800.	U	3900.	U	3900.	U		
88-06-2	2,4,6-Trichlorophenol	780.	U	770.	U	770.	U	780.	U		
88-74-4	2-Nitroaniline	3900.	U	3800.	U	3900.	U	3900.	U		
88-75-5	2-Nitrophenol	780.	U	770.	U	770.	U	780.	U		
88-85-7	Dinoseb	780.	U	770.	U	770.	U	780.	U		
91-20-3	Naphthalene	780.	U	770.	U	770.	U	780.	U		
91-57-6	2-Methylnaphthalene	780.	U	770.	U	770.	U	780.	U		
91-58-7	2-Chloronaphthalene	780.	U	770.	U	770.	U	780.	U		
91-94-1	3,3'-Dichlorobenzidine	1500.	U	1500.	U	1500.	U	1500.	U		
95-48-7	2-Methylphenol (o-Cresol)	780.	U	770.	U	770.	U	780.	U		
95-50-1	1,2-Dichlorobenzene	780.	U	770.	U	770.	U	780.	U		
95-57-8	2-Chlorophenol	780.	U	770.	U	770.	U	780.	U		
95-76-1	3,4-Dichloroaniline	780.	U	770.	U	770.	U	780.	U		
95-95-4	2,4,5-Trichlorophenol	780.	U	770.	U	770.	U	780.	U		
98-95-3	Nitrobenzene	780.	U	770.	U	770.	U	780.	U		
99-09-2	3-Nitroaniline	3900.	U	3800.	U	3900.	U	3900.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SURFACE SOIL DATA

VOA	SHORT ID --------->	1HA-1 (0-1')		1HA-2 (0-1')		1HA-3 (0-1')		1HA-4 (0-1')		1HA-5 (0-1')		1MW-1 (0-5')	
	ORIGINAL ID ----->	CED1SHA-1		CED1SHA-2		CED1SHA-3		CED1SHA-4		CED1SHA-5		CED1SMW-1-1	
	SAMPLE DATE ----->	09/02/93		09/02/93		09/02/93		09/02/93		09/02/93		08/31/93	
	DATE ANALYZED --->	09/09/93		09/09/93		09/09/93		09/09/93		09/09/93		09/08/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E003	VAL	E003	VAL	E002	VAL
100-41-4	Ethylbenzene	6.	U	6.	U	5.	U	6.	U	13.		6.	U
100-42-5	Styrene	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
107-06-2	1,2-Dichloroethane	6.	U	6.	U	5.	U	6.	U	7500.		6.	U
108-05-4	Vinyl acetate	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	62.	U	65.	U	53.	U	60.	U	92.		60.	U
108-88-3	Toluene	6.	U	6.	U	5.	U	6.	U	930.		6.	U
108-90-7	Chlorobenzene	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
124-48-1	Dibromochloromethane	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
127-18-4	Tetrachloroethene	6.	U	6.	U	5.	U	6.	U	760.		6.	U
1330-20-7	Xylene (total)	6.	U	6.	U	5.	U	3.		440.		6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
56-23-5	Carbon tetrachloride	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
591-78-6	2-Hexanone	62.	U	65.	U	53.	U	60.	U	260.	U	60.	U
67-64-1	Acetone	12.	U	13.	U	11.	U	12.	U	64.		130.	
67-66-3	Chloroform	6.	U	6.	U	5.	U	6.	U	98.		6.	U
71-43-2	Benzene	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
74-83-9	Bromomethane	12.	U	13.	U	11.	U	12.	U	52.	U	12.	U
74-87-3	Chloromethane	12.	U	13.	U	11.	U	12.	U	52.	U	12.	U
75-00-3	Chloroethane	12.	U	13.	U	11.	U	12.	U	52.	U	12.	U
75-01-4	Vinyl chloride	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
75-09-2	Methylene chloride	6.	U	6.	U	5.	U	6.	U	6.		12.	U
75-15-0	Carbon disulfide	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
75-25-2	Bromoform	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
75-27-4	Bromodichloromethane	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
75-34-3	1,1-Dichloroethane	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
75-35-4	1,1-Dichloroethene	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
78-87-5	1,2-Dichloropropane	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
78-93-3	2-Butanone (MEK)	12.	U	13.	U	11.	U	57.		53.		12.	U
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
79-01-6	Trichloroethene	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	5.	U	6.	U	26.	U	6.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SURFACE SOIL DATA

VOA	SHORT ID --------->	1MW-2 (0-5')		1MW-3 (0-5')		1MW-4 (0-5')		1MW-5 (0-5')			
	ORIGINAL ID ----->	CED1SMW-2-1		CED1SMW-3-1		CED1SMW-4-1		CED1SMW-5-1			
	SAMPLE DATE ----->	08/31/93		09/01/93		09/01/93		09/01/93			
	DATE ANALYZED --->	09/08/93		09/08/93		09/08/93		09/08/93			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL		
100-41-4	Ethylbenzene	6.	U	6.	U	6.	U	6.	U		
100-42-5	Styrene	6.	U	6.	U	6.	U	6.	U		
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U		
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U		
107-06-2	1,2-Dichloroethane	6.	U	6.	U	6.	U	6.	U		
108-05-4	Vinyl acetate	6.	U	6.	U	6.	U	6.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	61.	U	58.	U	57.	U	56.	U		
108-88-3	Toluene	6.	U	6.	U	2.		6.	U		
108-90-7	Chlorobenzene	6.	U	6.	U	6.	U	6.	U		
124-48-1	Dibromochloromethane	6.	U	6.	U	6.	U	6.	U		
127-18-4	Tetrachloroethene	6.	U	6.	U	6.	U	6.	U		
1330-20-7	Xylene (total)	6.	U	6.	U	6.	U	6.	U		
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	6.	U	6.	U		
56-23-5	Carbon tetrachloride	6.	U	6.	U	6.	U	6.	U		
591-78-6	2-Hexanone	61.	U	58.	U	57.	U	56.	U		
67-64-1	Acetone	12.	U	47.	U	50.	U	68.	U		
67-66-3	Chloroform	6.	U	6.	U	6.	U	6.	U		
71-43-2	Benzene	6.	U	6.	U	6.	U	6.	U		
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	6.	U	6.	U		
74-83-9	Bromomethane	12.	U	12.	U	11.	U	11.	U		
74-87-3	Chloromethane	12.	U	12.	U	11.	U	11.	U		
75-00-3	Chloroethane	12.	U	12.	U	11.	U	11.	U		
75-01-4	Vinyl chloride	6.	U	6.	U	6.	U	6.	U		
75-09-2	Methylene chloride	7.	U	6.	U	6.	U	8.	U		
75-15-0	Carbon disulfide	6.	U	6.	U	6.	U	6.	U		
75-25-2	Bromoform	6.	U	6.	U	6.	U	6.	U		
75-27-4	Bromodichloromethane	6.	U	6.	U	6.	U	6.	U		
75-34-3	1,1-Dichloroethane	6.	U	6.	U	6.	U	6.	U		
75-35-4	1,1-Dichloroethene	6.	U	6.	U	6.	U	6.	U		
78-87-5	1,2-Dichloropropane	6.	U	6.	U	6.	U	6.	U		
78-93-3	2-Butanone (MEK)	12.	U	12.	U	11.	U	11.	U		
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	6.	U	6.	U		
79-01-6	Trichloroethene	6.	U	6.	U	6.	U	6.	U		
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	6.	U	6.	U		

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	1MW-1 (5-10')		1MW-2 (5-10')		1MW-3 (5-10')		1MW-4 (5-10')		1MW-5 (5-10')		1MW-6 (25-30')	
	ORIGINAL ID ----->	CED1SMW-1-2		CED1SMW-2-2		CED1SMW-3-2		CED1SMW-4-2		CED1SMW-5-2		CED1SMW66	
	SAMPLE DATE ----->	08/31/93		08/31/93		09/01/93		09/01/93		09/01/93		09/23/93	
	DATE ANALYZED --->	09/11/93		09/11/93		09/11/93		09/11/93		09/11/93		10/14/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E013	VAL
1024-57-3	Heptachlor Epoxide	70.	U	69.	U	70.	U	70.	U	68.	U	78.	U
1031-07-8	Endosulfan Sulfate	53.	U	54.	U	55.	U	55.	U	54.	U	62.	U
309-00-2	Aldrin	3.4	U	3.3	U	3.4	U	3.4	U	3.3	U	3.7	U
319-84-6	Alpha-BHC	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.8	U
319-85-7	Beta-BHC	5.1	U	5.	U	5.	U	5.	U	4.9	U	5.6	U
319-86-8	Delta-BHC	7.6	U	7.4	U	7.6	U	7.5	U	7.4	U	8.4	U
33213-65-9	Endosulfan II	3.4	U	3.3	U	3.4	U	3.4	U	3.3	U	3.7	U
50-29-3	4,4'-DDT	10.	U	9.9	U	10.	U	10.	U	9.9	U	11.	U
5103-71-9	alpha-Chlordane	12.	U	12.	U	12.	U	12.	U	12.	U	13.	U
5103-74-2	gamma-Chlordane	12.	U	12.	U	12.	U	12.	U	12.	U	13.	U
53494-70-5	Endrin ketone	20.	U	20.	U	20.	U	20.	U	20.	U	22.	U
58-89-9	gamma-BHC (Lindane)	3.4	U	3.3	U	3.4	U	3.4	U	3.3	U	3.7	U
60-57-1	Dieldrin	1.7	U	1.7	U	1.7	U	1.7	U	1.6	U	1.9	U
72-20-8	Endrin	5.1	U	5.	U	5.	U	5.	U	4.9	U	5.6	U
72-43-5	Methoxychlor	140.	U	150.	U	150.	U	150.	U	150.	U	170.	U
72-54-8	4,4'-DDD	9.3	U	9.1	U	9.2	U	9.2	U	9.1	U	10.	U
72-55-9	4,4'-DDE	3.4	U	3.3	U	3.4	U	3.4	U	3.3	U	3.7	U
76-44-8	Heptachlor	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.8	U
8001-35-2	Toxaphene	190.	U	200.	U	200.	U	200.	U	200.	U	220.	U
959-98-8	Endosulfan I	12.	U	12.	U	12.	U	12.	U	12.	U	13.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SUBSURFACE SOIL DATA

RCRA METAL	SHORT ID --------->	1MW-1 (5-10')		1MW-2 (5-10')		1MW-3 (5-10')		1MW-4 (5-10')		1MW-5 (5-10')		1MW-6 (25-30')	
	ORIGINAL ID ----->	CED1SMW-1-2		CED1SMW-2-2		CED1SMW-3-2		CED1SMW-4-2		CED1SMW-5-2		CED1SMW66	
	SAMPLE DATE ----->	08/31/93		08/31/93		09/01/93		09/01/93		09/01/93		09/23/93	
	DATE ANALYZED --->	09/16/93		09/16/93		09/16/93		09/16/93		09/16/93		10/15/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E013	VAL
7440-38-2	Arsenic (As)	6.1		7.		8.6		6.1		4.8		1.6	
7440-39-3	Barium (Ba)	130.		193.		169.		140.		141.		114.	
7440-43-9	Cadmium (Cd)	0.37	U	0.37	U	0.36	U	0.38	U	0.36	U	0.29	
7440-47-3	Chromium (Cr)	14.4		15.		12.9		13.5		8.6		12.	
7439-92-1	Lead (Pb)	8.5		11.2		9.6		7.3		5.9		8.5	
7439-97-6	Mercury (Hg)	0.12	U	0.12	U	0.13	U	0.12	U	0.12	U	0.13	U
7782-49-2	Selenium (Se)	0.61	U	0.61	U	0.61	U	0.63	U	0.61	U	0.67	U
7440-22-4	Silver (Ag)	0.37	U	0.37	U	0.36	U	0.38	U	0.36	U	0.4	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	1MW-1 (5-10')		1MW-2 (5-10')		1MW-3 (5-10')		1MW-4 (5-10')		1MW-5 (5-10')		1MW-6 (25-30')	
	ORIGINAL ID ----->	CED1SMW-1-2		CED1SMW-2-2		CED1SMW-3-2		CED1SMW-4-2		CED1SMW-5-2		CED1SMW66	
	SAMPLE DATE ----->	08/31/93		08/31/93		09/01/93		09/01/93		09/01/93		09/23/93	
	DATE ANALYZED --->	09/23/93		09/23/93		09/23/93		09/23/93		09/24/93		10/19/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E013	VAL
100-01-6	4-Nitroaniline	1600.	U	1600.	U	1600.	U	1600.	U	1600.	U	1100.	U
100-02-7	4-Nitrophenol	4200.	U	4100.	U	4200.	U	4100.	U	4100.	U	1100.	U
100-51-6	Benzyl alcohol	1600.	U	1600.	U	1600.	U	1600.	U	1600.	U	NR	
101-55-3	4-Bromophenyl-phenylether	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
105-67-9	2,4-Dimethylphenol	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
106-44-5	4-Methylphenol (p-Cresol)	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
106-46-7	1,4-Dichlorobenzene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
106-47-8	4-Chloroaniline	1600.	U	1600.	U	1600.	U	1600.	U	1600.	U	460.	U
108-60-1	bis(2-chloroisopropyl) ether	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
108-95-2	Phenol	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
111-44-4	bis(2-Chloroethyl)ether	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
111-91-1	bis(2-Chloroethoxy)methane	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
117-84-0	Di-n-octylphthalate	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
118-74-1	Hexachlorobenzene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
120-12-7	Anthracene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
120-82-1	1,2,4-Trichlorobenzene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
120-83-2	2,4-Dichlorophenol	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
121-14-2	2,4-Dinitrotoluene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
129-00-0	Pyrene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
131-11-3	Dimethylphthalate	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
132-64-9	Dibenzofuran	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
191-24-2	Benzo(g,h,i)perylene	NR		NR		NR		NR		NR		460.	U
193-39-5	Indeno(1,2,3-cd)pyrene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
205-99-2	Benzo(b)fluoranthene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
206-44-0	Fluoranthene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
207-08-9	Benzo(k)fluoranthene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
208-96-8	Acenaphthylene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
218-01-9	Chrysene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
50-32-8	Benzo(a)pyrene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
51-28-5	2,4-Dinitrophenol	840.	U	820.	U	840.	U	820.	U	810.	U	1100.	U
534-52-1	4,6-Dinitro-2-methylphenol	4200.	U	4100.	U	4200.	U	4100.	U	4100.	U	1100.	U
53-70-3	Dibenz(a,h)anthracene	NR		NR		NR		NR		NR		460.	U
541-73-1	1,3-Dichlorobenzene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
56-55-3	Benzo(a)anthracene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
59-50-7	4-Chloro-3-methylphenol	1600.	U	1600.	U	1600.	U	1600.	U	1600.	U	460.	U
606-20-2	2,6-Dinitrotoluene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
621-64-7	N-Nitroso-di-n-propylamine	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
65-85-0	Benzoic acid	4200.	U	4100.	U	4200.	U	4100.	U	4100.	U	NR	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	1MW-1 (5-10')		1MW-2 (5-10')		1MW-3 (5-10')		1MW-4 (5-10')		1MW-5 (5-10')		1MW-6 (25-30')	
	ORIGINAL ID ----->	CED1SMW-1-2		CED1SMW-2-2		CED1SMW-3-2		CED1SMW-4-2		CED1SMW-5-2		CED1SMW66	
	SAMPLE DATE ----->	08/31/93		08/31/93		09/01/93		09/01/93		09/01/93		09/23/93	
	DATE ANALYZED --->	09/23/93		09/23/93		09/23/93		09/23/93		09/24/93		10/19/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E013	VAL
67-72-1	Hexachloroethane	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
7005-72-3	4-Chlorophenyl-phenylether	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
709-98-8	Propanil	840.	U	820.	U	840.	U	820.	U	810.	U	1100.	U
77-47-4	Hexachlorocyclopentadiene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
78-59-1	Isophorone	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
83-32-9	Acenaphthene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
84-66-2	Diethylphthalate	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
84-74-2	Di-n-butylphthalate	840.	U	820.	U	840.	U	820.	U	810.	U	120.	
85-01-8	Phenanthrene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
85-68-7	Butylbenzylphthalate	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
86-30-6	N-Nitrosodiphenylamine	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
86-73-7	Fluorene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
87-68-3	Hexachlorobutadiene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
87-86-5	Pentachlorophenol	4200.	U	4100.	U	4200.	U	4100.	U	4100.	U	1100.	U
88-06-2	2,4,6-Trichlorophenol	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
88-74-4	2-Nitroaniline	4200.	U	4100.	U	4200.	U	4100.	U	4100.	U	1100.	U
88-75-5	2-Nitrophenol	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
88-85-7	Dinoseb	840.	U	820.	U	840.	U	820.	U	810.	U	1100.	U
91-20-3	Naphthalene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
91-57-6	2-Methylnaphthalene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
91-58-7	2-Chloronaphthalene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
91-94-1	3,3'-Dichlorobenzidine	1600.	U	1600.	U	1600.	U	1600.	U	1600.	U	460.	U
95-48-7	2-Methylphenol (o-Cresol)	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
95-50-1	1,2-Dichlorobenzene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
95-57-8	2-Chlorophenol	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
95-76-1	3,4-Dichloroaniline	840.	U	820.	U	840.	U	820.	U	810.	U	1100.	U
95-95-4	2,4,5-Trichlorophenol	840.	U	820.	U	840.	U	820.	U	810.	U	1100.	U
98-95-3	Nitrobenzene	840.	U	820.	U	840.	U	820.	U	810.	U	460.	U
99-09-2	3-Nitroaniline	4200.	U	4100.	U	4200.	U	4100.	U	4100.	U	1100.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	1MW-1 (5-10')		1MW-2 (5-10')		1MW-3 (5-10')		1MW-4 (5-10')		1MW-5 (5-10')		1MW-6 (25-30')	
	ORIGINAL ID ----->	CED1SMW-1-2		CED1SMW-2-2		CED1SMW-3-2		CED1SMW-4-2		CED1SMW-5-2		CED1SMW66	
	SAMPLE DATE ----->	08/31/93		08/31/93		09/01/93		09/01/93		09/01/93		09/23/93	
	DATE ANALYZED --->	09/08/93		09/08/93		09/08/93		09/08/93		09/08/93		10/07/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E013	VAL
100-41-4	Ethylbenzene	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
100-42-5	Styrene	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
107-06-2	1,2-Dichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	210.	
108-05-4	Vinyl acetate	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	63.	U	62.	U	61.	U	64.	U	64.	U	70.	U
108-88-3	Toluene	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
108-90-7	Chlorobenzene	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
124-48-1	Dibromochloromethane	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
127-18-4	Tetrachloroethene	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
1330-20-7	Xylene (total)	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
56-23-5	Carbon tetrachloride	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
591-78-6	2-Hexanone	63.	U	62.	U	61.	U	64.	U	64.	U	70.	U
67-64-1	Acetone	13.	U	12.	U	19.	U	59.	U	13.	U	54.	
67-66-3	Chloroform	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
71-43-2	Benzene	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
74-83-9	Bromomethane	13.	U	12.	U	12.	U	13.	U	13.	U	14.	U
74-87-3	Chloromethane	13.	U	12.	U	12.	U	13.	U	13.	U	14.	U
75-00-3	Chloroethane	13.	U	12.	U	12.	U	13.	U	13.	U	14.	U
75-01-4	Vinyl chloride	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
75-09-2	Methylene chloride	11.	U	6.	U	6.	U	8.	U	6.	U	33.	
75-15-0	Carbon disulfide	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
75-25-2	Bromoform	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
75-27-4	Bromodichloromethane	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
75-34-3	1,1-Dichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
75-35-4	1,1-Dichloroethene	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
78-87-5	1,2-Dichloropropane	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
78-93-3	2-Butanone (MEK)	13.	U	12.	U	12.	U	13.	U	13.	U	18.	U
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
79-01-6	Trichloroethene	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	7.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SEDIMENT DATA

PEST		SHORT ID --------->	1SED-1		1SED-2		1SED-3				
		ORIGINAL ID ----->	CED1SD1		CED1SD2		CED1SD3				
		SAMPLE DATE ----->	09/07/93		09/07/93		09/07/93				
		DATE ANALYZED --->	09/17/93		09/17/93		09/17/93				
		MATRIX ---------->	Sediment		Sediment		Sediment				
		UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter		E006	VAL	E006	VAL	E006	VAL			
1024-57-3	Heptachlor Epoxide		1100.	U	68.	U	390.	U			
1031-07-8	Endosulfan Sulfate		900.	U	54.	U	310.	U			
309-00-2	Aldrin		55.	U	3.3	U	19.	U			
319-84-6	Alpha-BHC		41.	U	2.5	U	14.	U			
319-85-7	Beta-BHC		180.		4.9	U	86.				
319-86-8	Delta-BHC		120.	U	7.4	U	43.	U			
33213-65-9	Endosulfan II		55.	U	3.3	U	19.	U			
50-29-3	4,4'-DDT		160.	U	9.9	U	450.				
5103-71-9	alpha-Chlordane		190.	U	12.	U	66.	U			
5103-74-2	gamma-Chlordane		300.		12.	U	66.	U			
53494-70-5	Endrin ketone		330.	U	20.	U	110.	U			
58-89-9	gamma-BHC (Lindane)		63.		3.3	U	38.	U			
60-57-1	Dieldrin		27.	U	1.6	U	9.5	U			
72-20-8	Endrin		82.	U	4.9	U	28.	U			
72-43-5	Methoxychlor		2500.	U	150.	U	850.	U			
72-54-8	4,4'-DDD		150.	U	9.	U	52.	U			
72-55-9	4,4'-DDE		55.	U	3.3	U	19.	U			
76-44-8	Heptachlor		41.	U	2.5	U	14.	U			
8001-35-2	Toxaphene		3300.	U	200.	U	1100.	U			
959-98-8	Endosulfan I		190.	U	12.	U	66.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SEDIMENT DATA

RCRA METAL		SHORT ID --------->	1SED-1		1SED-2		1SED-3	
		ORIGINAL ID ----->	CED1SD1		CED1SD2		CED1SD3	
		SAMPLE DATE ----->	09/07/93		09/07/93		09/07/93	
		DATE ANALYZED --->	10/01/93		10/01/93		10/01/93	
		MATRIX ---------->	Sediment		Sediment		Sediment	
		UNITS ----------->	MG/KG		MG/KG		MG/KG	
CAS #	Parameter		E006	VAL	E006	VAL	E006	VAL
7440-38-2	Arsenic (As)		61.		19.		123.	
7440-39-3	Barium (Ba)		58.5		27.8		69.2	
7440-43-9	Cadmium (Cd)		0.94		0.37	U	0.63	
7440-47-3	Chromium (Cr)		51.8		16.7		82.	
7439-92-1	Lead (Pb)		15.9		14.3		11.4	
7439-97-6	Mercury (Hg)		2.7		0.12	U	3.3	
7782-49-2	Selenium (Se)		1.	U	0.61	U	0.7	U
7440-22-4	Silver (Ag)		0.6	U	0.37	U	1.2	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SEDIMENT DATA

SVOA	SHORT ID --------->	1SED-1		1SED-2		1SED-3				
	ORIGINAL ID ----->	CED1SD1		CED1SD2		CED1SD3				
	SAMPLE DATE ----->	09/07/93		09/07/93		09/07/93				
	DATE ANALYZED --->	10/11/93		10/14/93		10/11/93				
	MATRIX ---------->	Sediment		Sediment		Sediment				
	UNITS ---------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E006	VAL	E006	VAL	E006	VAL			
100-01-6	4-Nitroaniline	680000.	U	20000.	U	470000.	U			
100-02-7	4-Nitrophenol	680000.	U	20000.	U	470000.	U			
100-51-6	Benzyl alcohol	140000.	U	4100.	U	94000.	U			
101-55-3	4-Bromophenyl-phenylether	140000.	U	4100.	U	94000.	U			
105-67-9	2,4-Dimethylphenol	140000.	U	4100.	U	94000.	U			
106-44-5	4-Methylphenol (p-Cresol)	39000.		4100.	U	94000.	U			
106-46-7	1,4-Dichlorobenzene	140000.	U	4100.	U	94000.	U			
106-47-8	4-Chloroaniline	140000.	U	4100.	U	94000.	U			
108-60-1	bis(2-chloroisopropyl) ether	140000.	U	4100.	U	94000.	U			
108-95-2	Phenol	140000.	U	4100.	U	94000.	U			
111-44-4	bis(2-Chloroethyl)ether	140000.	U	4100.	U	94000.	U			
111-91-1	bis(2-Chloroethoxy)methane	140000.	U	4100.	U	94000.	U			
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	140000.	U	4100.	U	13000.				
117-84-0	Di-n-octylphthalate	140000.	U	4100.	U	94000.	U			
118-74-1	Hexachlorobenzene	140000.	U	4100.	U	94000.	U			
120-12-7	Anthracene	140000.	U	4100.	U	94000.	U			
120-82-1	1,2,4-Trichlorobenzene	140000.	U	4100.	U	94000.	U			
120-83-2	2,4-Dichlorophenol	140000.	U	4100.	U	94000.	U			
121-14-2	2,4-Dinitrotoluene	140000.	U	4100.	U	94000.	U			
129-00-0	Pyrene	140000.	U	4100.	U	94000.	U			
131-11-3	Dimethylphthalate	140000.	U	4100.	U	94000.	U			
132-64-9	Dibenzofuran	140000.	U	4100.	U	94000.	U			
191-24-2	Benzo(g,h,i)perylene	140000.	U	4100.	U	94000.	U			
193-39-5	Indeno(1,2,3-cd)pyrene	140000.	U	4100.	U	94000.	U			
205-99-2	Benzo(b)fluoranthene	140000.	U	4100.	U	94000.	U			
206-44-0	Fluoranthene	140000.	U	4100.	U	94000.	U			
207-08-9	Benzo(k)fluoranthene	140000.	U	4100.	U	94000.	U			
208-96-8	Acenaphthylene	140000.	U	4100.	U	94000.	U			
218-01-9	Chrysene	140000.	U	4100.	U	94000.	U			
50-32-8	Benzo(a)pyrene	140000.	U	4100.	U	94000.	U			
51-28-5	2,4-Dinitrophenol	680000.	U	20000.	U	470000.	U			
534-52-1	4,6-Dinitro-2-methylphenol	680000.	U	20000.	U	470000.	U			
53-70-3	Dibenz(a,h)anthracene	140000.	U	4100.	U	94000.	U			
541-73-1	1,3-Dichlorobenzene	140000.	U	4100.	U	94000.	U			
56-55-3	Benzo(a)anthracene	140000.	U	4100.	U	94000.	U			
59-50-7	4-Chloro-3-methylphenol	140000.	U	4100.	U	94000.	U			
606-20-2	2,6-Dinitrotoluene	140000.	U	4100.	U	94000.	U			
621-64-7	N-Nitroso-di-n-propylamine	140000.	U	4100.	U	94000.	U			
65-85-0	Benzoic acid	680000.	U	20000.	U	470000.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SEDIMENT DATA

SVOA	SHORT ID --------->	1SED-1		1SED-2		1SED-3				
	ORIGINAL ID ----->	CED1SD1		CED1SD2		CED1SD3				
	SAMPLE DATE ----->	09/07/93		09/07/93		09/07/93				
	DATE ANALYZED --->	10/11/93		10/14/93		10/11/93				
	MATRIX ---------->	Sediment		Sediment		Sediment				
	UNITS ---------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E006	VAL	E006	VAL	E006	VAL			
67-72-1	Hexachloroethane	140000.	U	4100.	U	94000.	U			
7005-72-3	4-Chlorophenyl-phenylether	140000.	U	4100.	U	94000.	U			
709-98-8	Propanil	140000.	U	4100.	U	94000.	U			
77-47-4	Hexachlorocyclopentadiene	140000.	U	4100.	U	94000.	U			
78-59-1	Isophorone	140000.	U	4100.	U	94000.	U			
83-32-9	Acenaphthene	140000.	U	4100.	U	94000.	U			
84-66-2	Diethylphthalate	140000.	U	4100.	U	94000.	U			
84-74-2	Di-n-butylphthalate	140000.	U	4100.	U	94000.	U			
85-01-8	Phenanthrene	140000.	U	4100.	U	94000.	U			
85-68-7	Butylbenzylphthalate	140000.	U	4100.	U	94000.	U			
86-30-6	N-Nitrosodiphenylamine	140000.	U	4100.	U	94000.	U			
86-73-7	Fluorene	140000.	U	4100.	U	94000.	U			
87-68-3	Hexachlorobutadiene	140000.	U	4100.	U	94000.	U			
87-86-5	Pentachlorophenol	680000.	U	20000.	U	470000.	U			
88-06-2	2,4,6-Trichlorophenol	140000.	U	4100.	U	94000.	U			
88-74-4	2-Nitroaniline	680000.	U	20000.	U	470000.	U			
88-75-5	2-Nitrophenol	140000.	U	4100.	U	94000.	U			
88-85-7	Dinoseb	680000.	U	20000.	U	470000.	U			
91-20-3	Naphthalene	140000.	U	4100.	U	94000.	U			
91-57-6	2-Methylnaphthalene	140000.	U	4100.	U	94000.	U			
91-58-7	2-Chloronaphthalene	140000.	U	4100.	U	94000.	U			
91-94-1	3,3'-Dichlorobenzidine	270000.	U	8200.	U	190000.	U			
95-48-7	2-Methylphenol (o-Cresol)	140000.	U	4100.	U	94000.	U			
95-50-1	1,2-Dichlorobenzene	140000.	U	4100.	U	94000.	U			
95-57-8	2-Chlorophenol	140000.	U	4100.	U	94000.	U			
95-76-1	3,4-Dichloroaniline	1200000.		5500.		910000.				
95-95-4	2,4,5-Trichlorophenol	680000.	U	20000.	U	470000.	U			
98-95-3	Nitrobenzene	140000.	U	4100.	U	94000.	U			
99-09-2	3-Nitroaniline	680000.	U	20000.	U	470000.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE I SEDIMENT DATA

VOA		SHORT ID --------->	1SED-1		1SED-2		1SED-3				
		ORIGINAL ID ----->	CED1SD1		CED1SD2		CED1SD3				
		SAMPLE DATE ----->	09/07/93		09/07/93		09/07/93				
		DATE ANALYZED --->	09/14/93		09/15/93		09/15/93				
		MATRIX ---------->	Sediment		Sediment		Sediment				
		UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter		E006	VAL	E006	VAL	E006	VAL			
100-41-4	Ethylbenzene		46.	U	6.	U	19.				
100-42-5	Styrene		46.	U	6.	U	14.	U			
10061-01-5	cis-1,3-Dichloropropene		46.	U	6.	U	14.	U			
10061-02-6	trans-1,3-Dichloropropene		46.	U	6.	U	14.	U			
107-06-2	1,2-Dichloroethane		46.	U	6.	U	14.	U			
108-05-4	Vinyl acetate		46.	U	6.	U	14.	U			
108-10-1	4-Methyl-2-Pentanone (MIBK)		460.	U	62.	U	22.				
108-88-3	Toluene		170.		6.	U	87.				
108-90-7	Chlorobenzene		190.		6.	U	66.				
124-48-1	Dibromochloromethane		46.	U	6.	U	14.	U			
127-18-4	Tetrachloroethene		46.	U	6.	U	14.	U			
1330-20-7	Xylene (total)		74.		6.	U	330.				
540-59-0	1,2-Dichloroethene (total)		46.	U	6.	U	14.	U			
56-23-5	Carbon tetrachloride		46.	U	6.	U	14.	U			
591-78-6	2-Hexanone		210.		62.	U	12.				
67-64-1	Acetone		1200.		12.	U	280.				
67-66-3	Chloroform		46.	U	6.	U	14.	U			
71-43-2	Benzene		30.		6.	U	6.				
71-55-6	1,1,1-Trichloroethane		46.	U	6.	U	14.	U			
74-83-9	Bromomethane		93.	U	12.	U	28.	U			
74-87-3	Chloromethane		93.	U	12.	U	28.	U			
75-00-3	Chloroethane		93.	U	12.	U	28.	U			
75-01-4	Vinyl chloride		46.	U	6.	U	14.	U			
75-09-2	Methylene chloride		46.	U	6.	U	14.	U			
75-15-0	Carbon disulfide		46.	U	6.	U	14.	U			
75-25-2	Bromoform		46.	U	6.	U	14.	U			
75-27-4	Bromodichloromethane		46.	U	6.	U	14.	U			
75-34-3	1,1-Dichloroethane		46.	U	6.	U	14.	U			
75-35-4	1,1-Dichloroethene		46.	U	6.	U	14.	U			
78-87-5	1,2-Dichloropropane		46.	U	6.	U	14.	U			
78-93-3	2-Butanone (MEK)		1800.		2.		150.				
79-00-5	1,1,2-Trichloroethane		46.	U	6.	U	14.	U			
79-01-6	Trichloroethene		46.	U	6.	U	14.	U			
79-34-5	1,1,2,2-Tetrachloroethane		46.	U	6.	U	14.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE II SURFACE SOIL DATA

ARSENIC	SHORT ID --------->	1HA-7 (2-3')		1SB-1 (0-2')					
	ORIGINAL ID ----->	001S000701		001SGB0101					
	SAMPLE DATE ----->	12/12/94		12/20/94					
	DATE EXTRACTED -->	12/21/94		12/27/94					
	DATE ANALYZED --->	12/21/94		12/27/94					
	MATRIX ---------->	Soil		Soil					
	UNITS ----------->	MG/KG		MG/KG					
CAS #	Parameter	11097	VAL	11213	VAL				
7440-38-2	Arsenic (As)	5.	U	5.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE II SURFACE SOIL DATA

DCA	SHORT ID --------->	1HA-7 (2-3')					
	ORIGINAL ID ----->	001S000701					
	SAMPLE DATE ----->	01/31/95					
	DATE ANALYZED --->	02/07/95					
	MATRIX ---------->	Soil					
	UNITS ----------->	UG/KG					
CAS #	Parameter	11834	VAL				
95-76-1	3,4-Dichloroaniline	660.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE II SURFACE SOIL DATA

PEST	SHORT ID --------->	1HA-7 (2-3')		1SB-1 (0-2')		1HA-7 (2-3')				
	ORIGINAL ID ----->	001S000701		001SGB0101		001S000701				
	SAMPLE DATE ----->	12/12/94		12/20/94		01/31/95				
	DATE EXTRACTED -->	12/22/94		12/22/94		02/03/95				
	DATE ANALYZED --->	12/23/94		12/29/94		02/07/95				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	11097	VAL	11213	VAL	11834	VAL			
319-84-6	Alpha-BHC	2.	U	2.	U	2.	U			
319-85-7	Beta-BHC	4.	U	4.	U	4.	U			
319-86-8	Delta-BHC	6.	U	6.	U	6.	U			
58-89-9	gamma-BHC (Lindane)	2.7	U	2.7	U	2.7	U			
76-44-8	Heptachlor	2.	U	2.	U	2.	U			
309-00-2	Aldrin	2.7	U	2.7	U	2.7	U			
1024-57-3	Heptachlor Epoxide	56.	U	56.	U	56.	U			
959-98-8	Endosulfan I	9.4	U	9.4	U	9.4	U			
60-57-1	Dieldrin	1.3	U	1.3	U	1.3	U			
72-55-9	4,4'-DDE	2.7	U	3.8		23.				
72-20-8	Endrin	4.	U	4.	U	4.	U			
33213-65-9	Endosulfan II	2.7	U	2.7	U	2.7	U			
72-54-8	4,4'-DDD	7.	U	7.	U	19.				
7421-93-4	Endrin aldehyde	15.	U	15.	U	15.	U			
1031-07-8	Endosulfan Sulfate	44.	U	44.	U	44.	U			
50-29-3	4,4'-DDT	8.	U	9.7		8.	U			
72-43-5	Methoxychlor	120.	U	120.	U	120.	U			
57-74-9	Chlordane	9.4	U	9.4	U	9.4	U			
8001-35-2	Toxaphene	160.	U	160.	U	160.	U			
12674-11-2	Aroclor-1016	60.	U	60.	U	60.	U			
11104-28-2	Aroclor-1221	180.	U	180.	U	180.	U			
11141-16-5	Aroclor-1232	32.	U	32.	U	32.	U			
53469-21-9	Aroclor-1242	44.	U	44.	U	44.	U			
12672-29-6	Aroclor-1248	170.	U	170.	U	170.	U			
11097-69-1	Aroclor-1254	80.	U	80.	U	80.	U			
11096-82-5	Aroclor-1260	24.	U	24.	U	24.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	1HA-7 (2-3')		1SB-1 (0-2')		1HA-7 (2-3')				
	ORIGINAL ID ----->	001S000701		001SGB0101		001S000701				
	SAMPLE DATE ----->	12/12/94		12/20/94		01/31/95				
	DATE EXTRACTED -->	12/22/94		12/22/94		02/03/95				
	DATE ANALYZED --->	12/22/94		12/23/94		02/07/95				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	11097	VAL	11213	VAL	11834	VAL			
108-95-2	Phenol	660.	U	660.	U	660.	U			
111-44-4	bis(2-Chloroethyl)ether	660.	U	660.	U	660.	U			
95-57-8	2-Chlorophenol	660.	U	660.	U	660.	U			
541-73-1	1,3-Dichlorobenzene	660.	U	660.	U	660.	U			
106-46-7	1,4-Dichlorobenzene	660.	U	660.	U	660.	U			
100-51-6	Benzyl alcohol	1300.	U	1300.	U	1300.	U			
95-50-1	1,2-Dichlorobenzene	660.	U	660.	U	660.	U			
95-48-7	2-Methylphenol (o-Cresol)	660.	U	660.	U	660.	U			
108-60-1	bis(2-chloroisopropyl) ether	660.	U	660.	U	660.	U			
106-44-5	4-Methylphenol (p-Cresol)	660.	U	660.	U	660.	U			
621-64-7	N-Nitroso-di-n-propylamine	660.	U	660.	U	660.	U			
67-72-1	Hexachloroethane	660.	U	660.	U	660.	U			
98-95-3	Nitrobenzene	660.	U	660.	U	660.	U			
78-59-1	Isophorone	660.	U	660.	U	660.	U			
88-75-5	2-Nitrophenol	660.	U	660.	U	660.	U			
105-67-9	2,4-Dimethylphenol	660.	U	660.	U	660.	U			
111-91-1	bis(2-Chloroethoxy)methane	660.	U	660.	U	660.	U			
120-83-2	2,4-Dichlorophenol	660.	U	660.	U	660.	U			
120-82-1	1,2,4-Trichlorobenzene	660.	U	660.	U	660.	U			
91-20-3	Naphthalene	660.	U	660.	U	660.	U			
87-68-3	Hexachlorobutadiene	660.	U	660.	U	660.	U			
59-50-7	4-Chloro-3-methylphenol	1300.	U	1300.	U	1300.	U			
91-57-6	2-Methylnaphthalene	660.	U	660.	U	660.	U			
77-47-4	Hexachlorocyclopentadiene	660.	U	660.	U	660.	U			
88-06-2	2,4,6-Trichlorophenol	660.	U	660.	U	660.	U			
95-95-4	2,4,5-Trichlorophenol	660.	U	660.	U	660.	U			
91-58-7	2-Chloronaphthalene	660.	U	660.	U	660.	U			
88-74-4	2-Nitroaniline	3300.	U	3300.	U	3300.	U			
131-11-3	Dimethylphthalate	660.	U	660.	U	660.	U			
208-96-8	Acenaphthylene	660.	U	660.	U	660.	U			
99-09-2	3-Nitroaniline	3300.	U	3300.	U	3300.	U			
83-32-9	Acenaphthene	660.	U	660.	U	660.	U			
51-28-5	2,4-Dinitrophenol	3300.	U	3300.	U	3300.	U			
100-02-7	4-Nitrophenol	3300.	U	3300.	U	3300.	U			
132-64-9	Dibenzofuran	660.	U	660.	U	660.	U			
121-14-2	2,4-Dinitrotoluene	660.	U	660.	U	660.	U			
606-20-2	2,6-Dinitrotoluene	660.	U	660.	U	660.	U			
84-66-2	Diethylphthalate	660.	U	660.	U	660.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	1HA-7 (2-3')		1SB-1 (0-2')		1HA-7 (2-3')				
	ORIGINAL ID ----->	001S000701		001SGB0101		001S000701				
	SAMPLE DATE ----->	12/12/94		12/20/94		01/31/95				
	DATE EXTRACTED -->	12/22/94		12/22/94		02/03/95				
	DATE ANALYZED --->	12/22/94		12/23/94		02/07/95				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ---------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	11097	VAL	11213	VAL	11834	VAL			
7005-72-3	4-Chlorophenyl-phenylether	660.	U	660.	U	660.	U			
86-73-7	Fluorene	660.	U	660.	U	660.	U			
100-01-6	4-Nitroaniline	3300.	U	3300.	U	3300.	U			
534-52-1	4,6-Dinitro-2-methylphenol	3300.	U	3300.	U	3300.	U			
86-30-6	N-Nitrosodiphenylamine	660.	U	660.	U	660.	U			
101-55-3	4-Bromophenyl-phenylether	660.	U	660.	U	660.	U			
118-74-1	Hexachlorobenzene	660.	U	660.	U	660.	U			
87-86-5	Pentachlorophenol	3300.	U	3300.	U	3300.	U			
85-01-8	Phenanthrene	660.	U	660.	U	660.	U			
120-12-7	Anthracene	660.	U	660.	U	660.	U			
206-44-0	Fluoranthene	660.	U	660.	U	660.	U			
129-00-0	Pyrene	660.	U	660.	U	660.	U			
85-68-7	Butylbenzylphthalate	660.	U	660.	U	660.	U			
91-94-1	3,3'-Dichlorobenzidine	1300.	U	1300.	U	1300.	U			
56-55-3	Benzo(a)anthracene	660.	U	660.	U	660.	U			
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	660.	U	660.	U	660.	U			
218-01-9	Chrysene	660.	U	660.	U	660.	U			
117-84-0	Di-n-octylphthalate	660.	U	660.	U	660.	U			
205-99-2	Benzo(b)fluoranthene	660.	U	660.	U	660.	U			
207-08-9	Benzo(k)fluoranthene	660.	U	660.	U	660.	U			
50-32-8	Benzo(a)pyrene	660.	U	660.	U	660.	U			
193-39-5	Indeno(1,2,3-cd)pyrene	660.	U	660.	U	660.	U			
53-70-3	Dibenz(a,h)anthracene	660.	U	660.	U	660.	U			
191-24-2	Benzo(g,h,i)perylene	660.	U	660.	U	660.	U			
88-85-7	Dinoseb	462.	U	462.	U	462.	U			
65-85-0	Benzoic acid	3300.	U	3300.	U	3300.	U			
106-47-8	4-Chloroaniline	1300.	U	1300.	U	1300.	U			
84-74-2	Di-n-butylphthalate	660.	U	660.	U	660.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE II SURFACE SOIL DATA

VOA	SHORT ID --------->	1HA-7 (2-3')		1SB-1 (0-2')					
	ORIGINAL ID ----->	001S000701		001SGB0101					
	SAMPLE DATE ----->	12/12/94		12/20/94					
	DATE EXTRACTED -->	12/21/94		12/23/94					
	DATE ANALYZED --->	12/21/94		12/23/94					
	MATRIX ---------->	Soil		Soil					
	UNITS ---------->	UG/KG		UG/KG					
CAS #	Parameter	11097	VAL	11213	VAL				
74-87-3	Chloromethane	10.	U	10.	U				
74-83-9	Bromomethane	10.	U	10.	U				
75-01-4	Vinyl chloride	10.	U	10.	U				
75-00-3	Chloroethane	10.	U	10.	U				
75-09-2	Methylene chloride	20.	U	20.	U				
67-64-1	Acetone	100.	U	190.					
75-15-0	Carbon disulfide	100.	U	100.	U				
75-35-4	1,1-Dichloroethene	5.	U	5.	U				
75-34-3	1,1-Dichloroethane	5.	U	5.	U				
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U				
67-66-3	Chloroform	5.	U	5.	U				
107-06-2	1,2-Dichloroethane	16.		5.	U				
78-93-3	2-Butanone (MEK)	100.	U	100.	U				
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U				
56-23-5	Carbon tetrachloride	5.	U	5.	U				
108-05-4	Vinyl acetate	50.	U	50.	U				
75-27-4	Bromodichloromethane	5.	U	5.	U				
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U				
78-87-5	1,2-Dichloropropane	5.	U	5.	U				
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U				
79-01-6	Trichloroethene	5.	U	5.	U				
124-48-1	Dibromochloromethane	5.	U	5.	U				
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U				
71-43-2	Benzene	5.	U	5.	U				
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U				
110-75-8	2-Chloroethylvinylether	10.	U	10.	U				
75-25-2	Bromoform	5.	U	5.	U				
591-78-6	2-Hexanone	50.	U	50.	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U				
127-18-4	Tetrachloroethene	5.	U	5.	U				
108-88-3	Toluene	5.5		5.	U				
108-90-7	Chlorobenzene	5.	U	5.	U				
100-41-4	Ethylbenzene	5.	U	5.	U				
100-42-5	Styrene	5.	U	5.	U				
1330-20-7	Xylene (total)	15.		5.	U				

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE II SUBSURFACE SOIL DATA

ARSENIC		SHORT ID --------->	1SB-1 (4-6')		1SB-1 (12-14')					
		ORIGINAL ID ----->	001SGB0103		001SGB0107					
		SAMPLE DATE ----->	12/20/94		12/20/94					
		DATE EXTRACTED -->	12/27/94		12/27/94					
		DATE ANALYZED --->	12/27/94		12/27/94					
		MATRIX ---------->	Soil		Soil					
		UNITS ---------->	MG/KG		MG/KG					
CAS #	Parameter		11213	VAL	11213	VAL				
7440-38-2	Arsenic (As)		5.	U	5.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE II SUBSURFACE SOIL DATA

DCA		SHORT ID --------->	1HA-7 (5-6')		1HA-7 (11-12')					
		ORIGINAL ID ----->	001S000702		001S000704					
		SAMPLE DATE ----->	01/31/95		01/31/95					
		DATE ANALYZED --->	02/07/95		02/07/95					
		MATRIX ---------->	Soil		Soil					
		UNITS ----------->	UG/KG		UG/KG					
CAS #	Parameter		11834	VAL	11834	VAL				
95-76-1	3,4-Dichloroaniline		660.	U	660.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE II SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	1HA-6 (8-9')		1HA-6 (13-14')		1HA-7 (5-6')		1HA-7 (11-12')		1SB-1 (4-6')		1SB-1 (12-14')	
	ORIGINAL ID ----->	001S000603		001S000604		001S000702		001S000704		001SGB0103		001SGB0107	
	SAMPLE DATE ----->	11/28/94		11/28/94		01/31/95		01/31/95		12/20/94		12/20/94	
	DATE EXTRACTED -->	12/03/94		12/03/94		02/03/95		02/03/95		12/22/94		12/22/94	
	DATE ANALYZED --->	12/04/94		12/04/94		02/07/95		02/07/95		12/23/94		12/23/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	10834	VAL	10834	VAL	11834	VAL	11834	VAL	11213	VAL	11213	VAL
319-84-6	Alpha-BHC	2.	U	200.	U	2.	U	2.	U	2.	U	2.	U
319-85-7	Beta-BHC	4.	U	400.	U	4.	U	4.	U	4.	U	4.	U
319-86-8	Delta-BHC	6.	U	600.	U	6.	U	6.	U	6.	U	6.	U
58-89-9	gamma-BHC (Lindane)	2.7	U	270.	U	2.7	U	2.7	U	2.7	U	2.7	U
76-44-8	Heptachlor	2.	U	200.	U	2.	U	2.	U	2.	U	2.	U
309-00-2	Aldrin	2.7	U	270.	U	2.7	U	2.7	U	2.7	U	2.7	U
1024-57-3	Heptachlor Epoxide	56.	U	5600.	U	56.	U	56.	U	56.	U	56.	U
959-98-8	Endosulfan I	9.4	U	940.	U	9.4	U	9.4	U	9.4	U	9.4	U
60-57-1	Dieldrin	1.3	U	130.	U	1.3	U	1.3	U	1.3	U	1.3	U
72-55-9	4,4'-DDE	2.7	U	270.	U	13.		2.7	U	2.7	U	2.7	U
72-20-8	Endrin	4.	U	400.	U	4.	U	4.	U	4.	U	4.	U
33213-65-9	Endosulfan II	2.7	U	270.	U	2.7	U	2.7	U	2.7	U	2.7	U
72-54-8	4,4'-DDD	7.	U	700.	U	20.		7.	U	7.	U	7.	U
7421-93-4	Endrin aldehyde	15.	U	1500.	U	15.	U	15.	U	15.	U	15.	U
1031-07-8	Endosulfan Sulfate	44.	U	4400.	U	44.	U	44.	U	44.	U	44.	U
50-29-3	4,4'-DDT	8.	U	800.	U	8.	U	8.	U	8.	U	8.	U
72-43-5	Methoxychlor	120.	U	12000.	U	120.	U	120.	U	120.	U	120.	U
57-74-9	Chlordane	9.4	U	940.	U	9.4	U	9.4	U	9.4	U	9.4	U
8001-35-2	Toxaphene	160.	U	16000.	U	160.	U	160.	U	160.	U	160.	U
12674-11-2	Aroclor-1016	60.	U	6000.	U	60.	U	60.	U	60.	U	60.	U
11104-28-2	Aroclor-1221	180.	U	18000.	U	180.	U	180.	U	180.	U	180.	U
11141-16-5	Aroclor-1232	32.	U	3200.	U	32.	U	32.	U	32.	U	32.	U
53469-21-9	Aroclor-1242	44.	U	4400.	U	44.	U	44.	U	44.	U	44.	U
12672-29-6	Aroclor-1248	170.	U	17000.	U	170.	U	170.	U	170.	U	170.	U
11097-69-1	Aroclor-1254	80.	U	8000.	U	80.	U	80.	U	80.	U	80.	U
11096-82-5	Aroclor-1260	24.	U	2400.	U	24.	U	24.	U	24.	U	24.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE II SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	1HA-6 (8-9')		1HA-6 (13-14')		1HA-7 (5-6')		1HA-7 (11-12')		1SB-1 (4-6')		1SB-1 (12-14')	
	ORIGINAL ID ----->	001S000603		001S000604		001S000702		001S000704		001SGB0103		001SGB0107	
	SAMPLE DATE ----->	11/28/94		11/28/94		01/31/95		01/31/95		12/20/94		12/20/94	
	DATE EXTRACTED -->	12/02/94		12/02/94		02/03/95		02/03/95		12/22/94		12/22/94	
	DATE ANALYZED --->	12/07/94		12/07/94		02/07/95		02/07/95		12/23/94		12/23/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	10834	VAL	10834	VAL	11834	VAL	11834	VAL	11213	VAL	11213	VAL
108-95-2	Phenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
111-44-4	bis(2-Chloroethyl)ether	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
95-57-8	2-Chlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
541-73-1	1,3-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
106-46-7	1,4-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
100-51-6	Benzyl alcohol	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
95-50-1	1,2-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
95-48-7	2-Methylphenol (o-Cresol)	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
108-60-1	bis(2-chloroisopropyl) ether	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
106-44-5	4-Methylphenol (p-Cresol)	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
621-64-7	N-Nitroso-di-n-propylamine	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
67-72-1	Hexachloroethane	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
98-95-3	Nitrobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
78-59-1	Isophorone	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
88-75-5	2-Nitrophenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
105-67-9	2,4-Dimethylphenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
111-91-1	bis(2-Chloroethoxy)methane	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
120-83-2	2,4-Dichlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
120-82-1	1,2,4-Trichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
91-20-3	Naphthalene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
87-68-3	Hexachlorobutadiene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
59-50-7	4-Chloro-3-methylphenol	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
91-57-6	2-Methylnaphthalene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
77-47-4	Hexachlorocyclopentadiene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
88-06-2	2,4,6-Trichlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
95-95-4	2,4,5-Trichlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
91-58-7	2-Chloronaphthalene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
88-74-4	2-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
131-11-3	Dimethylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
208-96-8	Acenaphthylene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
99-09-2	3-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
83-32-9	Acenaphthene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
51-28-5	2,4-Dinitrophenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
100-02-7	4-Nitrophenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
132-64-9	Dibenzofuran	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
121-14-2	2,4-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
606-20-2	2,6-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
84-66-2	Diethylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE II SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	1HA-6 (8-9')		1HA-6 (13-14')		1HA-7 (5-6')		1HA-7 (11-12')		1SB-1 (4-6')		1SB-1 (12-14')	
	ORIGINAL ID ----->	001S000603		001S000604		001S000702		001S000704		001SGB0103		001SGB0107	
	SAMPLE DATE ----->	11/28/94		11/28/94		01/31/95		01/31/95		12/20/94		12/20/94	
	DATE EXTRACTED -->	12/02/94		12/02/94		02/03/95		02/03/95		12/22/94		12/22/94	
	DATE ANALYZED ---->	12/07/94		12/07/94		02/07/95		02/07/95		12/23/94		12/23/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	10834	VAL	10834	VAL	11834	VAL	11834	VAL	11213	VAL	11213	VAL
7005-72-3	4-Chlorophenyl-phenylether	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
86-73-7	Fluorene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
100-01-6	4-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
534-52-1	4,6-Dinitro-2-methylphenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
86-30-6	N-Nitrosodiphenylamine	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
101-55-3	4-Bromophenyl-phenylether	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
118-74-1	Hexachlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
87-86-5	Pentachlorophenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
85-01-8	Phenanthrene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
120-12-7	Anthracene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
206-44-0	Fluoranthene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
129-00-0	Pyrene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
85-68-7	Butylbenzylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
91-94-1	3,3'-Dichlorobenzidine	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
56-55-3	Benzo(a)anthracene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
218-01-9	Chrysene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
117-84-0	Di-n-octylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
205-99-2	Benzo(b)fluoranthene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
207-08-9	Benzo(k)fluoranthene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
50-32-8	Benzo(a)pyrene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
193-39-5	Indeno(1,2,3-cd)pyrene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
53-70-3	Dibenz(a,h)anthracene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
191-24-2	Benzo(g,h,i)perylene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
88-85-7	Dinoseb	462.	U	462.	U	462.	U	462.	U	462.	U	462.	U
65-85-0	Benzoic acid	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
106-47-8	4-Chloroaniline	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
84-74-2	Di-n-butylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 1 PHASE II SUBSURFACE SOIL DATA

VOA									
	SHORT ID --------->	1SB-1 (4-6')		1SB-1 (12-14')					
	ORIGINAL ID ----->	001SGB0103		001SGB0107					
	SAMPLE DATE ----->	12/20/94		12/20/94					
	DATE EXTRACTED -->	12/23/94		12/23/94					
	DATE ANALYZED --->	12/23/94		12/23/94					
	MATRIX ---------->	Soil		Soil					
	UNITS ---------->	UG/KG		UG/KG					
CAS #	Parameter	11213	VAL	11213	VAL				
74-87-3	Chloromethane	10.	U	10.	U				
74-83-9	Bromomethane	10.	U	10.	U				
75-01-4	Vinyl chloride	10.	U	10.	U				
75-00-3	Chloroethane	10.	U	10.	U				
75-09-2	Methylene chloride	20.	U	20.	U				
67-64-1	Acetone	100.	U	100.					
75-15-0	Carbon disulfide	100.	U	100.	U				
75-35-4	1,1-Dichloroethene	5.	U	5.	U				
75-34-3	1,1-Dichloroethane	5.	U	5.	U				
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U				
67-66-3	Chloroform	5.	U	5.	U				
107-06-2	1,2-Dichloroethane	5.	U	5.	U				
78-93-3	2-Butanone (MEK)	100.	U	100.	U				
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U				
56-23-5	Carbon tetrachloride	5.	U	5.	U				
108-05-4	Vinyl acetate	50.	U	50.	U				
75-27-4	Bromodichloromethane	5.	U	5.	U				
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U				
78-87-5	1,2-Dichloropropane	5.	U	5.	U				
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U				
79-01-6	Trichloroethene	5.	U	5.	U				
124-48-1	Dibromochloromethane	5.	U	5.	U				
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U				
71-43-2	Benzene	5.	U	5.	U				
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U				
110-75-8	2-Chloroethylvinylether	10.	U	10.	U				
75-25-2	Bromoform	5.	U	5.	U				
591-78-6	2-Hexanone	50.	U	50.	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U				
127-18-4	Tetrachloroethene	5.	U	5.	U				
108-88-3	Toluene	5.	U	5.	U				
108-90-7	Chlorobenzene	5.	U	5.	U				
100-41-4	Ethylbenzene	5.	U	5.	U				
100-42-5	Styrene	5.	U	5.	U				
1330-20-7	Xylene (total)	5.	U	5.	U				

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SURFACE SOIL DATA

RCRA METAL		SHORT ID --------->	2HA-5 (0-1')	2HA-5 (0-1')DUP				
		ORIGINAL ID ----->	CED2HA51	CED2HA51D				
		SAMPLE DATE ----->	09/13/93	09/13/93				
		MATRIX ---------->	Soil	Soil				
		UNITS ----------->	MG/KG	MG/KG				
CAS #	Parameter		E010 VAL	E010 VAL				
7440-38-2	Arsenic (As)		98.1	68.8				
7440-39-3	Barium (Ba)		89.4	86.				
7440-43-9	Cadmium (Cd)		161.8	163.8				
7440-47-3	Chromium (Cr)		95.3	64.				
7439-92-1	Lead (Pb)		65.9	19.				
7439-97-6	Mercury (Hg)		111.7	111.5				
7782-49-2	Selenium (Se)		70.9	67.9				
7440-22-4	Silver (Ag)		89.9	87.9				

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	2SB-1 (15-20')		2SB-1 (25-30')		2SB-2 (20-25')		2SB-2 (25-30')		2SB-3 (13-14')		2SB-3 (24-25')	
	ORIGINAL ID ----->	CED2SB14		CED2SB16		CED2-SB2-5		CED2-SB2-6		CED2-SB3-14		CED2-SB3-25	
	SAMPLE DATE ----->	09/22/93		09/22/93		09/21/93		09/21/93		09/17/93		09/17/93	
	DATE ANALYZED --->	10/08/93		10/08/93		10/07/93		10/07/93		10/07/93		10/07/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E011	VAL	E011	VAL	E011	VAL	E011	VAL
1024-57-3	Heptachlor Epoxide	72.	U	71.	U	73.	U	740.	U	70.	U	150.	U
1031-07-8	Endosulfan Sulfate	57.	U	56.	U	58.	U	590.	U	55.	U	120.	U
309-00-2	Aldrin	3.5	U	3.4	U	3.5	U	36.	U	3.4	U	7.	U
319-84-6	Alpha-BHC	2.6	U	2.6	U	2.6	U	27.	U	2.5	U	5.3	U
319-85-7	Beta-BHC	5.2	U	5.1	U	5.3	U	53.	U	5.	U	11.	U
319-86-8	Delta-BHC	7.8	U	7.7	U	7.9	U	80.	U	7.6	U	16.	U
33213-65-9	Endosulfan II	3.5	U	3.4	U	3.5	U	36.	U	3.4	U	7.	U
50-29-3	4,4'-DDT	10.	U	10.	U	11.	U	110.	U	10.	U	21.	U
5103-71-9	alpha-Chlordane	12.	U	12.	U	12.	U	120.	U	12.	U	25.	U
5103-74-2	gamma-Chlordane	12.	U	12.	U	12.	U	120.	U	12.	U	25.	U
53494-70-5	Endrin ketone	21.	U	20.	U	21.	U	200.	U	20.	U	42.	U
58-89-9	gamma-BHC (Lindane)	3.5	U	3.4	U	3.5	U	36.	U	3.6	U	7.	U
60-57-1	Dieldrin	1.7	U	1.7	U	1.8	U	18.	U	1.7	U	3.5	U
72-20-8	Endrin	5.2	U	5.1	U	5.3	U	53.	U	5.	U	11.	U
72-43-5	Methoxychlor	160.	U	150.	U	160.	U	34000.	U	150.	U	320.	U
72-54-8	4,4'-DDD	9.6	U	9.4	U	9.7	U	98.	U	9.2	U	19.	U
72-55-9	4,4'-DDE	3.5	U	3.4	U	3.5	U	36.	U	3.4	U	7.	U
76-44-8	Heptachlor	2.6	U	2.6	U	2.6	U	27.	U	2.5	U	5.3	U
8001-35-2	Toxaphene	210.	U	200.	U	210.	U	2100.	U	200.	U	420.	U
959-98-8	Endosulfan I	12.	U	12.	U	12.	U	120.	U	12.	U	25.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	2SB-4 (15-20')		2SB-4 (25-30')		2SB-5 (15-20')		2SB-5 (25-30')		2SB-6 (21-22')		2SB-6 (28-29')	
	ORIGINAL ID ----->	CED2SB44		CED2SB46		CED2SB54		CED2SB56		CED2SB622		CED2SB629	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/21/93		09/21/93		09/20/93		09/20/93	
	DATE ANALYZED --->	10/08/93		10/14/93		10/13/93		10/13/93		10/07/93		10/07/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E012	VAL	E012	VAL
1024-57-3	Heptachlor Epoxide	74.	U	71.	U	700.	U	770.	U	710.	U	3700.	U
1031-07-8	Endosulfan Sulfate	59.	U	56.	U	550.	U	610.	U	560.	U	2900.	U
309-00-2	Aldrin	3.6	U	3.4	U	34.	U	140.		34.	U	500.	
319-84-6	Alpha-BHC	9.8		2.6	U	25.	U	44.		26.	U	210.	
319-85-7	Beta-BHC	5.3	U	5.1	U	50.	U	56.	U	51.	U	270.	U
319-86-8	Delta-BHC	8.	U	7.7	U	76.	U	83.	U	77.	U	400.	U
33213-65-9	Endosulfan II	3.6	U	3.4	U	34.	U	37.	U	34.	U	180.	U
50-29-3	4,4'-DDT	11.	U	10.	U	100.	U	110.	U	420.		870.	
5103-71-9	alpha-Chlordane	12.	U	12.	U	120.	U	130.	U	120.	U	630.	U
5103-74-2	gamma-Chlordane	12.	U	12.	U	120.	U	130.	U	150.		630.	U
53494-70-5	Endrin ketone	21.	U	20.	U	200.	U	220.	U	200.	U	1100.	U
58-89-9	gamma-BHC (Lindane)	3.6	U	3.4	U	34.	U	37.	U	34.	U	180.	U
60-57-1	Dieldrin	1.8	U	1.7	U	17.	U	19.	U	17.	U	89.	U
72-20-8	Endrin	5.3	U	5.1	U	50.	U	75.		340.		680.	
72-43-5	Methoxychlor	230.		150.	U	160000.		160000.		16000.		290000.	
72-54-8	4,4'-DDD	10.	U	9.4	U	92.	U	100.	U	180.		490.	U
72-55-9	4,4'-DDE	3.6	U	3.4	U	34.	U	37.	U	34.	U	180.	U
76-44-8	Heptachlor	2.7	U	2.6	U	25.	U	81.		110.		270.	
8001-35-2	Toxaphene	210.	U	200.	U	2000.	U	2200.	U	1100.	U	1100.	U
959-98-8	Endosulfan I	12.	U	12.	U	120.	U	130.	U	120.	U	630.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	2SB-7 (10-15')		2SB-7 (25-30')		2SB-8 (15-20')		2SB-8 (25-30')		2SB-9 (4-5')		2SB-9 (26-27')	
	ORIGINAL ID ----->	CED2SB73		CED2SB76		CED2-SB8-4		CED2SB86		CED2SB905		CED2SB905	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/21/93		09/21/93		09/21/93		09/21/93	
	DATE ANALYZED --->	10/08/93		10/13/93		10/07/93		10/05/93		10/07/93		10/07/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E011	VAL	E011	VAL	E012	VAL	E012	VAL
1024-57-3	Heptachlor Epoxide	70.	U	750.	U	140.	U	750.	U	720.	U	740.	U
1031-07-8	Endosulfan Sulfate	56.	U	600.	U	110.	U	1600.	U	570.	U	590.	U
309-00-2	Aldrin	3.4	U	36.	U	6.9	U	36.	U	35.	U	36.	U
319-84-6	Alpha-BHC	14.		27.	U	30.		27.	U	26.	U	27.	U
319-85-7	Beta-BHC	5.1	U	54.	U	10.	U	54.	U	52.	U	53.	U
319-86-8	Delta-BHC	7.6	U	81.	U	16.	U	81.	U	78.	U	80.	U
33213-65-9	Endosulfan II	3.4	U	36.	U	6.9	U	110.	U	35.	U	36.	U
50-29-3	4,4'-DDT	10.	U	110.	U	21.	U	220.	U	100.	U	110.	U
5103-71-9	alpha-Chlordane	12.	U	130.	U	24.	U	130.	U	120.	U	120.	U
5103-74-2	gamma-Chlordane	12.	U	130.	U	24.	U	130.	U	120.	U	120.	U
53494-70-5	Endrin ketone	20.	U	220.	U	41.	U	600.	U	210.	U	200.	U
58-89-9	gamma-BHC (Lindane)	3.4	U	36.	U	6.9	U	36.	U	35.	U	36.	U
60-57-1	Dieldrin	1.7	U	18.	U	3.4	U	54.	U	17.	U	18.	U
72-20-8	Endrin	5.1	U	54.	U	10.	U	99.	U	52.	U	53.	U
72-43-5	Methoxychlor	150.	U	17000.		310.	U	1900.		240000.		340000.	
72-54-8	4,4'-DDD	9.3	U	99.	U	19.	U	36.	U	96.	U	98.	U
72-55-9	4,4'-DDE	3.4	U	36.	U	6.9	U	18.	U	35.	U	36.	U
76-44-8	Heptachlor	2.5	U	27.	U	5.2	U	27.	U	26.	U	27.	U
8001-35-2	Toxaphene	200.	U	2200.	U	410.	U	130.	U	2100.	U	2100.	U
959-98-8	Endosulfan I	12.	U	130.	U	24.	U	36.	U	120.	U	120.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	2S8-10 (15-20')		2S8-10 (25-30')		2S8-11 (20-25')		2S8-11 (25-30')		2S8-12 (15-20')		2S8-12 (25-30')	
	ORIGINAL ID ----->	CED2SB104		CED2SB106		CED2SB115		CED6SB116		CED2SB124		CED2SB126	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/23/93		09/23/93		09/23/93		09/23/93	
	DATE ANALYZED --->	10/15/93		10/15/93		10/14/93		10/20/93		10/13/93		10/13/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E013	VAL
1024-57-3	Heptachlor Epoxide	70000.	U	290.	U	78.	U	77.	U	710.	U	690.	U
1031-07-8	Endosulfan Sulfate	56000.	U	230.	U	62.	U	61.	U	570.	U	550.	U
309-00-2	Aldrin	3400.	U	14.	U	3.8	U	3.7	U	34.	U	33.	U
319-84-6	Alpha-BHC	2500.	U	11.	U	2.8	U	2.8	U	26.	U	25.	U
319-85-7	Beta-BHC	5100.	U	53.	U	7.2		5.5	U	52.	U	50.	U
319-86-8	Delta-BHC	7600.	U	32.	U	8.5	U	8.3	U	78.	U	74.	U
33213-65-9	Endosulfan II	3400.	U	14.	U	3.8	U	3.7	U	34.	U	33.	U
50-29-3	4,4'-DDT	10000.	U	42.	U	11.	U	11.	U	103.	U	99.	U
5103-71-9	alpha-Chlordane	12000.	U	50.	U	13.	U	13.	U	120.	U	120.	U
5103-74-2	gamma-Chlordane	12000.	U	50.	U	13.	U	13.	U	120.	U	120.	U
53494-70-5	Endrin ketone	20000.	U	85.	U	23.	U	22.	U	210.	U	200.	U
58-89-9	gamma-BHC (Lindane)	3400.	U	14.	U	3.8	U	3.7	U	34.	U	33.	U
60-57-1	Dieldrin	1700.	U	7.1	U	1.9	U	1.8	U	17.	U	17.	U
72-20-8	Endrin	5100.	U	21.	U	5.7	U	5.5	U	52.	U	50.	U
72-43-5	Methoxychlor	26000.		7300.		170.	U	170.	U	22000.		63000.	
72-54-8	4,4'-DDD	9300.	U	39.	U	10.	U	10.	U	95.	U	91.	U
72-55-9	4,4'-DDE	3400.	U	14.	U	3.8	U	3.7	U	34.	U	33.	U
76-44-8	Heptachlor	2500.	U	27.	U	2.8	U	2.8	U	26.	U	25.	U
8001-35-2	Toxaphene	20000.	U	850.	U	230.	U	220.	U	2100.	U	2000.	U
959-98-8	Endosulfan I	12000.	U	50.	U	13.	U	13.	U	120.	U	120.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	2MW-1 (15-20')		2MW-1 (20-25')		2MW-1 (30-35')		2MW-2 (5-10')		2MW-2 (15-20')		2MW-3 (15-20')	
	ORIGINAL ID ----->	CED2SMW1-4		CED2SMW1-5		CED2SMW1-7		CED2-SMW2-2		CED2-SMW2-4		CED2-SMW3-4	
	SAMPLE DATE ----->	09/10/93		09/10/93		09/10/93		09/13/93		09/13/93		09/13/93	
	DATE ANALYZED --->	09/16/93		09/16/93		09/16/93		10/06/93		10/06/93		10/06/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E008	VAL	E008	VAL	E008	VAL	E010	VAL	E010	VAL	E010	VAL
1024-57-3	Heptachlor Epoxide	72.	U	74.	U	70.	U	130.	U	73.	U	71.	U
1031-07-8	Endosulfan Sulfate	57.	U	58.	U	56.	U	56.	U	58.	U	56.	U
309-00-2	Aldrin	3.5	U	3.5	U	3.4	U	3.4	U	3.5	U	3.4	U
319-84-6	Alpha-BHC	2.6	U	2.7	U	2.5	U	4.4		2.6	U	2.6	U
319-85-7	Beta-BHC	5.2	U	5.3	U	5.1	U	5.1	U	5.3	U	5.1	U
319-86-8	Delta-BHC	7.8	U	8.	U	7.6	U	7.6	U	7.9	U	7.7	U
33213-65-9	Endosulfan II	3.5	U	3.5	U	3.4	U	3.4	U	3.5	U	3.4	U
50-29-3	4,4'-DDT	10.4	U	11.	U	10.	U	10.	U	11.	U	10.	U
5103-71-9	alpha-Chlordane	12.	U	12.	U	12.	U	12.	U	12.	U	12.	U
5103-74-2	gamma-Chlordane	12.	U	12.	U	12.	U	12.	U	12.	U	12.	U
53494-70-5	Endrin ketone	21.	U	21.	U	20.	U	20.	U	21.	U	21.	U
58-89-9	gamma-BHC (Lindane)	3.5	U	3.5	U	3.4	U	3.4	U	3.5	U	3.4	U
60-57-1	Dieldrin	1.7	U	1.8	U	1.7	U	1.7	U	1.8	U	1.7	U
72-20-8	Endrin	5.2	U	5.3	U	5.1	U	5.1	U	5.3	U	5.1	U
72-43-5	Methoxychlor	160.	U	160.	U	150.	U	150.	U	160.	U	150.	U
72-54-8	4,4'-DDD	9.5	U	9.7	U	9.3	U	9.3	U	9.7	U	9.4	U
72-55-9	4,4'-DDE	3.5	U	3.5	U	3.4	U	3.4	U	3.5	U	3.4	U
76-44-8	Heptachlor	2.6	U	2.7	U	2.5	U	2.5	U	2.6	U	2.6	U
8001-35-2	Toxaphene	210.	U	210.	U	200.	U	200.	U	210.	U	210.	U
959-98-8	Endosulfan I	12.	U	12.	U	12.	U	12.	U	12.	U	12.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	2MW-3 (20-25')		2MW-3 (30-35')					
	ORIGINAL ID ----->	CED2-SMW3-5		CED2-SMW3-7					
	SAMPLE DATE ----->	09/13/93		09/15/93					
	DATE ANALYZED --->	10/06/93		10/06/93					
	MATRIX ---------->	Soil		Soil					
	UNITS ----------->	UG/KG		UG/KG					
CAS #	Parameter	E010	VAL	E010	VAL				
1024-57-3	Heptachlor Epoxide	75.	U	75.	U				
1031-07-8	Endosulfan Sulfate	59.	U	59.	U				
309-00-2	Aldrin	3.6	U	3.6	U				
319-84-6	Alpha-BHC	2.7	U	2.7	U				
319-85-7	Beta-BHC	5.4	U	5.4	U				
319-86-8	Delta-BHC	8.1	U	8.1	U				
33213-65-9	Endosulfan II	3.6	U	3.6	U				
50-29-3	4,4'-DDT	11.	U	11.	U				
5103-71-9	alpha-Chlordane	13.	U	13.	U				
5103-74-2	gamma-Chlordane	13.	U	13.	U				
53494-70-5	Endrin ketone	22.	U	22.	U				
58-89-9	gamma-BHC (Lindane)	3.6	U	3.6	U				
60-57-1	Dieldrin	1.8	U	1.8	U				
72-20-8	Endrin	5.4	U	5.4	U				
72-43-5	Methoxychlor	160.	U	160.	U				
72-54-8	4,4'-DDD	9.9	U	9.9	U				
72-55-9	4,4'-DDE	3.6	U	3.6	U				
76-44-8	Heptachlor	2.7	U	2.7	U				
8001-35-2	Toxaphene	220.	U	220.	U				
959-98-8	Endosulfan I	13.	U	13.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

RCRA METAL		SHORT ID --------->	2SB-1 (15-20')		2SB-1 (25-30')		2SB-2 (20-25')		2SB-2 (25-30')		2SB-3 (13-14')		2SB-3 (24-25')	
		ORIGINAL ID ----->	CED2SB14		CED2SB16		CED2-SB2-5		CED2-SB2-6		CED2-SB3-14		CED2-SB3-25	
		SAMPLE DATE ----->	09/22/93		09/22/93		09/21/93		09/21/93		09/17/93		09/17/93	
		DATE ANALYZED --->	10/15/93		10/15/93		10/11/93		10/11/93		10/11/93		10/11/93	
		MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
		UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter		E013	VAL	E013	VAL	E011	VAL	E011	VAL	E011	VAL	E011	VAL
7440-38-2	Arsenic (As)		10.7		4.3		9.4		4.9		8.5		8.	
7440-39-3	Barium (Ba)		140.		151.		205.		133.		228.		145.	
7440-43-9	Cadmium (Cd)		0.29		0.94		0.39	U	0.36	U	0.36	U	0.39	U
7440-47-3	Chromium (Cr)		13.5		9.		15.4		11.5		10.5		12.2	
7439-92-1	Lead (Pb)		12.3		8.2		12.2		8.2		11.4		10.8	
7439-97-6	Mercury (Hg)		0.12	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U
7782-49-2	Selenium (Se)		0.63	U	0.63	U	0.65	U	0.61	U	0.6	U	0.64	U
7440-22-4	Silver (Ag)		0.38	U	0.38	U	0.39	U	0.36	U	0.36	U	0.39	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

RCRA METAL	SHORT ID --------->	2SB-4 (15-20')		2SB-4 (25-30')		2SB-5 (15-20')		2SB-5 (25-30')		2SB-6 (21-22')		2SB-6 (28-29')	
	ORIGINAL ID ----->	CED2SB44		CED2SB46		CED2SB54		CED2SB56		CED2-SB6-22		CED2-SB6-29	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/21/93		09/21/93		09/20/93		09/20/93	
	DATE ANALYZED --->	10/15/93		10/15/93		10/15/93		10/15/93		10/11/93		10/11/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E011	VAL	E011	VAL
7440-38-2	Arsenic (As)	7.2		14.7		9.1		5.6		18.7		3.7	
7440-39-3	Barium (Ba)	219.		126.		152.		181.		178.		98.8	
7440-43-9	Cadmium (Cd)	0.26	U	0.97		0.24	U	1.1		0.38	U	0.73	
7440-47-3	Chromium (Cr)	17.1		12.3		9.7		15.5		15.3		13.7	
7439-92-1	Lead (Pb)	14.2		12.8		7.1		13.8		17.4		12.6	
7439-97-6	Mercury (Hg)	0.13	U	0.13	U	0.11	U	0.13	U	0.12	U	0.13	U
7782-49-2	Selenium (Se)	0.65	U	0.63	U	0.6	U	0.67	U	0.63	U	0.65	U
7440-22-4	Silver (Ag)	0.39	U	0.38	U	0.36	U	0.4	U	0.38	U	0.39	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

RCRA METAL	SHORT ID --------->	2SB-7 (10-15')		2SB-7 (25-30')		2SB-8 (15-20')		2SB-8 (25-30')		2SB-9 (4-5')		2SB-9 (26-27')	
	ORIGINAL ID ----->	CED2SB73		CED2SB76		CED2-SB8-4		CED2-SB8-6		CED2-SB9-5		CED2-SB9-27	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/21/93		09/21/93		09/21/93		09/21/93	
	DATE ANALYZED --->	10/15/93		10/15/93		10/11/93		10/11/93		10/11/93		10/11/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E011	VAL	E011	VAL	E011	VAL	E011	VAL
7440-38-2	Arsenic (As)	10.9		12.1		7.2		27.7		10.7		9.1	
7440-39-3	Barium (Ba)	197.		102.		180.		174.		88.7		184.	
7440-43-9	Cadmium (Cd)	0.28		0.3		0.38	U	0.39	U	0.73		0.39	U
7440-47-3	Chromium (Cr)	13.9		18.4		9.2		19.9		10.9		15.2	
7439-92-1	Lead (Pb)	14.3		17.2		9.4		10.8		8.8		17.3	
7439-97-6	Mercury (Hg)	0.13	U	0.12	U	0.12	U	0.13	U	0.12	U	0.13	U
7782-49-2	Selenium (Se)	0.63	U	0.66	U	0.63	U	0.68		1.1		0.66	U
7440-22-4	Silver (Ag)	0.38	U	0.4	U	0.38	U	0.39	U	0.37	U	0.39	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

RCRA METAL	SHORT ID --------->	2SB-10 (15-20')	2SB-10 (25-30')	2SB-11 (20-25')	2SB-11 (25-30')	2SB-12 (15-20')	2SB-12 (25-30')
	ORIGINAL ID ----->	CED2SB104	CED2SB106	CED2SB115	CED2SB116	CED2SB124	CED2SB126
	SAMPLE DATE ----->	09/23/93	09/23/93	09/23/93	09/23/93	09/23/93	09/23/93
	DATE ANALYZED --->	10/15/93	10/15/93	10/15/93	10/15/93	10/15/93	10/15/93
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E013	VAL
7440-38-2	Arsenic (As)	8.8		9.9		8.8		20.1		7.7		24.4	
7440-39-3	Barium (Ba)	202.		109.		188.		172.		153.		85.1	
7440-43-9	Cadmium (Cd)	0.75		0.26	U	0.53		0.45		0.25	U	0.25	
7440-47-3	Chromium (Cr)	13.		20.2		18.4		20.2		12.5		13.	
7439-92-1	Lead (Pb)	12.1		13.7		17.7		12.8		8.1		8.1	
7439-97-6	Mercury (Hg)	0.12	U	0.13	U	0.14	U	0.13	U	0.12	U	0.12	U
7782-49-2	Selenium (Se)	0.61	U	0.66	U	0.69	U	0.67	U	0.63	U	0.6	U
7440-22-4	Silver (Ag)	0.36	U	0.4	U	0.42	U	0.4	U	0.38	U	0.36	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

RCRA METAL	SHORT ID --------->	2MW-1 (15-20')		2MW-1 (20-25')		2MW-1 (30-35')		2MW-2 (5-10')		2MW-2 (15-20')		2MW-3 (15-20')	
	ORIGINAL ID ----->	CED2SMW14		CED2SMW15		CED2SMW17		CED2-SMW2-2		CED2-SMW2-4		CED2-SMW3-4	
	SAMPLE DATE ----->	09/10/93		09/10/93		09/10/93		09/13/93		09/13/93		09/13/93	
	DATE ANALYZED --->	09/16/93		09/16/93		09/16/93		10/01/93		10/01/93		10/01/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	E008	VAL	E008	VAL	E008	VAL	E010	VAL	E010	VAL	E010	VAL
7440-38-2	Arsenic (As)	10.5		9.		5.		7.6		12.2		10.8	
7440-39-3	Barium (Ba)	187.		158.		83.8		197.		178.		151.	
7440-43-9	Cadmium (Cd)	0.75		0.39	U	0.47		0.37	U	0.51		0.37	U
7440-47-3	Chromium (Cr)	9.7		11.1		13.9		15.4		18.3		13.9	
7439-92-1	Lead (Pb)	9.3		7.1		9.2		21.2		14.6		9.7	
7439-97-6	Mercury (Hg)	0.12	U	0.13	U	0.12	U	0.12	U	0.13	U	0.13	U
7782-49-2	Selenium (Se)	0.65	U	0.65	U	0.75	U	0.61	U	0.63	U	0.62	U
7440-22-4	Silver (Ag)	0.39	U	0.39	U	0.38	U	0.37	U	0.38	U	0.37	U

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

RCRA METAL		SHORT ID --------->	2MW-3 (20-25')		2MW-3 (30-35')					
		ORIGINAL ID ----->	CED2-SMW3-5		CED2-SMW3-7					
		SAMPLE DATE ----->	09/13/93		09/15/93					
		DATE ANALYZED --->	10/01/93		10/01/93					
		MATRIX ---------->	Soil		Soil					
		UNITS ----------->	MG/KG		MG/KG					
CAS #	Parameter		E010	VAL	E010	VAL				
7440-38-2	Arsenic (As)		11.3		6.1					
7440-39-3	Barium (Ba)		133.		87.8					
7440-43-9	Cadmium (Cd)		0.44		0.4	U				
7440-47-3	Chromium (Cr)		15.		8.4					
7439-92-1	Lead (Pb)		10.		6.7					
7439-97-6	Mercury (Hg)		0.13	U	0.14	U				
7782-49-2	Selenium (Se)		0.67	U	0.66	U				
7440-22-4	Silver (Ag)		0.4	U	0.4	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	2SB-1 (15-20')		2SB-1 (25-30')		2SB-2 (20-25')		2SB-2 (25-30')		2SB-3 (13-14')		2SB-3 (24-25')	
	ORIGINAL ID ----->	CED2SB14		CED2SB16		CED2SB25		CED2SB26		CED2SB314		CED2SB325	
	SAMPLE DATE ----->	09/22/93		09/22/93		09/21/93		09/21/93		09/17/93		09/17/93	
	DATE ANALYZED --->	10/19/93		10/19/93		10/16/93		10/16/93		10/16/93		10/16/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E011	VAL	E011	VAL	E011	VAL	E011	VAL
100-01-6	4-Nitroaniline	1000.	U	1000.	U	5300.	U	2000.	U	10417.	U	11000.	U
100-02-7	4-Nitrophenol	67.		46.		12000.		2900.		25000.		22000.	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR		NR	
101-55-3	4-Bromophenyl-phenylether	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
105-67-9	2,4-Dimethylphenol	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
106-44-5	4-Methylphenol (p-Cresol)	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
106-46-7	1,4-Dichlorobenzene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
106-47-8	4-Chloroaniline	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
108-60-1	bis(2-chloroisopropyl) ether	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
108-95-2	Phenol	440.		580.		540.		360.		4100.	U	4300.	U
111-44-4	bis(2-Chloroethyl)ether	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
111-91-1	bis(2-Chloroethoxy)methane	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
117-84-0	Di-n-octylphthalate	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
118-74-1	Hexachlorobenzene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
120-12-7	Anthracene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
120-82-1	1,2,4-Trichlorobenzene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
120-83-2	2,4-Dichlorophenol	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
121-14-2	2,4-Dinitrotoluene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
129-00-0	Pyrene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
131-11-3	Dimethylphthalate	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
132-64-9	Dibenzofuran	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
191-24-2	Benzo(g,h,i)perylene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
193-39-5	Indeno(1,2,3-cd)pyrene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
205-99-2	Benzo(b)fluoranthene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
206-44-0	Fluoranthene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
207-08-9	Benzo(k)fluoranthene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
208-96-8	Acenaphthylene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
218-01-9	Chrysene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
50-32-8	Benzo(a)pyrene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
51-28-5	2,4-Dinitrophenol	1000.	U	1000.	U	5300.	U	2000.	U	10000.	U	11000.	U
534-52-1	4,6-Dinitro-2-methylphenol	1000.	U	1000.	U	5300.	U	2000.	U	10000.	U	11000.	U
53-70-3	Dibenz(a,h)anthracene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
541-73-1	1,3-Dichlorobenzene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
56-55-3	Benzo(a)anthracene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
59-50-7	4-Chloro-3-methylphenol	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
606-20-2	2,6-Dinitrotoluene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
621-64-7	N-Nitroso-di-n-propylamine	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
65-85-0	Benzoic acid	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	2SB-1 (15-20')		2SB-1 (25-30')		2SB-2 (20-25')		2SB-2 (25-30')		2SB-3 (13-14')		2SB-3 (24-25')	
	ORIGINAL ID ----->	CED2SB14		CED2SB16		CED2SB25		CED2SB26		CED2SB314		CED2SB325	
	SAMPLE DATE ----->	09/22/93		09/22/93		09/21/93		09/21/93		09/17/93		09/17/93	
	DATE ANALYZED --->	10/19/93		10/19/93		10/16/93		10/16/93		10/16/93		10/16/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E011	VAL	E011	VAL	E011	VAL	E011	VAL
67-72-1	Hexachloroethane	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
7005-72-3	4-Chlorophenyl-phenylether	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
709-98-8	Propanil	200.		100.		240.		2000.	U	11000.		2000.	
77-47-4	Hexachlorocyclopentadiene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
78-59-1	Isophorone	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
83-32-9	Acenaphthene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
84-66-2	Diethylphthalate	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
84-74-2	Di-n-butylphthalate	70.		53.		2200.	U	120.		4100.	U	4300.	U
85-01-8	Phenanthrene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
85-68-7	Butylbenzylphthalate	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
86-30-6	N-Nitrosodiphenylamine	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
86-73-7	Fluorene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
87-68-3	Hexachlorobutadiene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
87-86-5	Pentachlorophenol	1000.	U	1000.	U	5300.	U	2000.	U	10000.	U	11000.	U
88-06-2	2,4,6-Trichlorophenol	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
88-74-4	2-Nitroaniline	1000.	U	1000.	U	5300.	U	2000.	U	10000.	U	11000.	U
88-75-5	2-Nitrophenol	430.	U	420.	U	400.		180.		720.		4300.	U
88-85-7	Dinoseb	1000.	U	1000.	U	850.		2000.	U	29000.		11000.	U
91-20-3	Naphthalene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
91-57-6	2-Methylnaphthalene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
91-58-7	2-Chloronaphthalene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
91-94-1	3,3'-Dichlorobenzidine	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
95-48-7	2-Methylphenol (o-Cresol)	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
95-50-1	1,2-Dichlorobenzene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
95-57-8	2-Chlorophenol	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
95-76-1	3,4-Dichloroaniline	430.	U	1000.	U	5300.	U	2000.	U	10000.	U	11000.	U
95-95-4	2,4,5-Trichlorophenol	1000.	U	1000.	U	5300.	U	2000.	U	10000.	U	11000.	U
98-95-3	Nitrobenzene	430.	U	420.	U	2200.	U	840.	U	4100.	U	4300.	U
99-09-2	3-Nitroaniline	1000.	U	1000.	U	NR		NR		NR		NR	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	2SB-4 (15-20')		2SB-4 (25-30')		2SB-5 (15-20')		2SB-5 (25-30')		2SB-6 (21-22')		2SB-6 (28-29')	
	ORIGINAL ID ----->	CED2SB44		CED2SB46		CED2SB54		CED2SB56		CED2SB622		CED2SB629	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/21/93		09/21/93		09/20/93		09/20/93	
	DATE ANALYZED --->	10/18/93		10/19/93		10/19/93		10/18/93		10/16/93		10/16/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E011	VAL	E011	VAL
100-01-6	4-Nitroaniline	1100.	U	1000.	U	10000.	U	56000.	U	5100.	U	110000.	U
100-02-7	4-Nitrophenol	1100.	U	120.		9200.		3100.		4200.		9700.	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR		NR	
101-55-3	4-Bromophenyl-phenylether	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
105-67-9	2,4-Dimethylphenol	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
106-44-5	4-Methylphenol (p-Cresol)	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
106-46-7	1,4-Dichlorobenzene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
106-47-8	4-Chloroaniline	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
108-60-1	bis(2-chloroisopropyl) ether	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
108-95-2	Phenol	440.	U	1000.		4200.	U	23000.	U	330.		44000.	U
111-44-4	bis(2-Chloroethyl)ether	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
111-91-1	bis(2-Chloroethoxy)methane	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
117-84-0	Di-n-octylphthalate	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
118-74-1	Hexachlorobenzene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
120-12-7	Anthracene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
120-82-1	1,2,4-Trichlorobenzene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
120-83-2	2,4-Dichlorophenol	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
121-14-2	2,4-Dinitrotoluene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
129-00-0	Pyrene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
131-11-3	Dimethylphthalate	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
132-64-9	Dibenzofuran	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
191-24-2	Benzo(g,h,i)perylene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
205-99-2	Benzo(b)fluoranthene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
206-44-0	Fluoranthene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
207-08-9	Benzo(k)fluoranthene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
208-96-8	Acenaphthylene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
218-01-9	Chrysene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
50-32-8	Benzo(a)pyrene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
51-28-5	2,4-Dinitrophenol	1100.	U	1000.	U	10000.	U	56000.	U	5100.	U	110000.	U
534-52-1	4,6-Dinitro-2-methylphenol	1100.	U	1000.	U	10000.	U	56000.	U	5100.	U	110000.	U
53-70-3	Dibenz(a,h)anthracene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
541-73-1	1,3-Dichlorobenzene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
56-55-3	Benzo(a)anthracene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
59-50-7	4-Chloro-3-methylphenol	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
606-20-2	2,6-Dinitrotoluene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
621-64-7	N-Nitroso-di-n-propylamine	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
65-85-0	Benzoic acid	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	2SB-4 (15-20')		2SB-4 (25-30')		2SB-5 (15-20')		2SB-5 (25-30')		2SB-6 (21-22')		2SB-6 (28-29')	
	ORIGINAL ID ----->	CED2SB44		CED2SB46		CED2SB54		CED2SB56		CED2SB622		CED2SB629	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/21/93		09/21/93		09/20/93		09/20/93	
	DATE ANALYZED --->	10/18/93		10/19/93		10/19/93		10/18/93		10/16/93		10/16/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E011	VAL	E011	VAL
67-72-1	Hexachloroethane	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
7005-72-3	4-Chlorophenyl-phenylether	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
709-98-8	Propanil	1100.	U	100.		1200.		6400.		670.		11000.	
77-47-4	Hexachlorocyclopentadiene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
78-59-1	Isophorone	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
83-32-9	Acenaphthene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
84-66-2	Diethylphthalate	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
84-74-2	Di-n-butylphthalate	80.		100.		4200.	U	23000.	U	2100.	U	44000.	U
85-01-8	Phenanthrene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
85-68-7	Butylbenzylphthalate	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
86-30-6	N-Nitrosodiphenylamine	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
86-73-7	Fluorene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
87-68-3	Hexachlorobutadiene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
87-86-5	Pentachlorophenol	1100.	U	1000.	U	10000.	U	56000.	U	5100.	U	110000.	U
88-06-2	2,4,6-Trichlorophenol	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
88-74-4	2-Nitroaniline	1100.	U	1000.	U	10000.	U	56000.	U	5100.	U	110000.	U
88-75-5	2-Nitrophenol	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
88-85-7	Dinoseb	1100.	U	1000.	U	17000.	U	49000.		10000.		93000.	
91-20-3	Naphthalene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
91-57-6	2-Methylnaphthalene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
91-58-7	2-Chloronaphthalene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
91-94-1	3,3'-Dichlorobenzidine	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
95-48-7	2-Methylphenol (o-Cresol)	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
95-50-1	1,2-Dichlorobenzene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
95-57-8	2-Chlorophenol	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
95-76-1	3,4-Dichloroaniline	1100.	U	1000.	U	10000.	U	56000.	U	5100.	U	110000.	U
95-95-4	2,4,5-Trichlorophenol	1100.	U	1000.	U	10000.	U	56000.	U	5100.	U	110000.	U
98-95-3	Nitrobenzene	440.	U	420.	U	4200.	U	23000.	U	2100.	U	44000.	U
99-09-2	3-Nitroaniline	1000.	U	1000.	U	4200.	U	56000.	U	NR		NR	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	2SB-7 (10-15')		2SB-7 (25-30')		2SB-8 (15-20')		2SB-8 (25-30')		2SB-9 (4-5')		2SB-9 (26-27')	
	ORIGINAL ID ----->	CED2SB73		CED2SB76		CED2SB84		CED2SB86		CED2SB95		CED2SB927	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/21/93		09/21/93		09/21/93		09/21/93	
	DATE ANALYZED --->	10/18/93		10/18/93		10/16/93		10/16/93		10/16/93		10/16/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E011	VAL	E011	VAL	E011	VAL	E011	VAL
100-01-6	4-Nitroaniline	1000.	U	1100.	U	2100.	U	11000.	U	5200.	U	5300.	U
100-02-7	4-Nitrophenol	1000.	U	1100.		880.		900.		1200.		320.	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR		NR	
101-55-3	4-Bromophenyl-phenylether	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
105-67-9	2,4-Dimethylphenol	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
106-44-5	4-Methylphenol (p-Cresol)	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
106-46-7	1,4-Dichlorobenzene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
106-47-8	4-Chloroaniline	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
108-60-1	bis(2-chloroisopropyl) ether	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
108-95-2	Phenol	1600.	U	450.	U	3100.		22000.		3300.		1500.	
111-44-4	bis(2-Chloroethyl)ether	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
111-91-1	bis(2-Chloroethoxy)methane	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
117-84-0	Di-n-octylphthalate	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
118-74-1	Hexachlorobenzene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
120-12-7	Anthracene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
120-82-1	1,2,4-Trichlorobenzene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
120-83-2	2,4-Dichlorophenol	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
121-14-2	2,4-Dinitrotoluene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
129-00-0	Pyrene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
131-11-3	Dimethylphthalate	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
132-64-9	Dibenzofuran	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
191-24-2	Benzo(g,h,i)perylene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
193-39-5	Indeno(1,2,3-cd)pyrene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
205-99-2	Benzo(b)fluoranthene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
206-44-0	Fluoranthene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
207-08-9	Benzo(k)fluoranthene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
208-96-8	Acenaphthylene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
218-01-9	Chrysene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
50-32-8	Benzo(a)pyrene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
51-28-5	2,4-Dinitrophenol	1000.	U	1100.	U	2100.	U	11000.	U	5200.	U	5300.	U
534-52-1	4,6-Dinitro-2-methylphenol	1000.	U	1100.	U	2100.	U	11000.	U	5200.	U	5300.	U
53-70-3	Dibenz(a,h)anthracene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
541-73-1	1,3-Dichlorobenzene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
56-55-3	Benzo(a)anthracene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
59-50-7	4-Chloro-3-methylphenol	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
606-20-2	2,6-Dinitrotoluene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
621-64-7	N-Nitroso-di-n-propylamine	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
65-85-0	Benzoic acid	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	2SB-7 (10-15')		2SB-7 (25-30')		2SB-8 (15-20')		2SB-8 (25-30')		2SB-9 (4-5')		2SB-9 (26-27')	
	ORIGINAL ID ----->	CED2SB73		CED2SB76		CED2SB84		CED2SB86		CED2SB95		CED2SB927	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/21/93		09/21/93		09/21/93		09/21/93	
	DATE ANALYZED --->	10/18/93		10/18/93		10/16/93		10/16/93		10/16/93		10/16/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E011	VAL	E011	VAL	E011	VAL	E011	VAL
67-72-1	Hexachloroethane	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
7005-72-3	4-Chlorophenyl-phenylether	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
709-98-8	Propanil	270.		1600.	U	2100.		4800.		10000.		8600.	
77-47-4	Hexachlorocyclopentadiene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
78-59-1	Isophorone	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
83-32-9	Acenaphthene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
84-66-2	Diethylphthalate	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
84-74-2	Di-n-butylphthalate	74.		450.	U	220.		4500.	U	2100.	U	2200.	U
85-01-8	Phenanthrene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
85-68-7	Butylbenzylphthalate	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
86-30-6	N-Nitrosodiphenylamine	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
86-73-7	Fluorene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
87-68-3	Hexachlorobutadiene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
87-86-5	Pentachlorophenol	1000.	U	1100.	U	2100.	U	11000.	U	5200.	U	5300.	U
88-06-2	2,4,6-Trichlorophenol	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
88-74-4	2-Nitroaniline	1000.	U	1100.	U	2100.	U	11000.	U	5200.	U	5300.	U
88-75-5	2-Nitrophenol	420.	U	53.		89.		400.		2100.	U	2200.	U
88-85-7	Dinoseb	1000.	U	1100.	U	2100.	U	510.		1100.		920.	
91-20-3	Naphthalene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
91-57-6	2-Methylnaphthalene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
91-58-7	2-Chloronaphthalene	420.	U	72.		860.	U	4500.	U	2100.	U	310.	
91-94-1	3,3'-Dichlorobenzidine	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
95-48-7	2-Methylphenol (o-Cresol)	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
95-50-1	1,2-Dichlorobenzene	420.	U	450.	U	150.		1100.		5300.		12000.	
95-57-8	2-Chlorophenol	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
95-76-1	3,4-Dichloroaniline	1000.	U	1100.	U	2100.	U	11000.	U	5200.	U	5300.	U
95-95-4	2,4,5-Trichlorophenol	1000.	U	1100.	U	2100.	U	11000.	U	5200.	U	5300.	U
98-95-3	Nitrobenzene	420.	U	450.	U	860.	U	4500.	U	2100.	U	2200.	U
99-09-2	3-Nitroaniline	1000.	U	901.	U	NR		NR		NR		NR	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	2SB-10 (15-20')		2SB-10 (25-30')		2SB-11 (20-25')		2SB-11 (25-30')		2SB-12 (15-20')		2SB-12 (25-30')	
	ORIGINAL ID ----->	CED2SB104		CED2SB106		CED2SB115		CED6SB116		CED2SB124		CED2SB126	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/23/93		09/23/93		09/23/93		09/23/93	
	DATE ANALYZED --->	10/20/93		10/19/93		10/20/93		10/18/93		10/19/93		10/18/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E013	VAL
100-01-6	4-Nitroaniline	20000.	U	1100.	U	2300.	U	1100.	U	52000.	U	3000.	U
100-02-7	4-Nitrophenol	20000.	U	1100.	U	180.		560.		9200.		710.	
100-51-6	Benzyl alcohol	NR		NR		NR		NR		NR		NR	
101-55-3	4-Bromophenyl-phenylether	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
105-67-9	2,4-Dimethylphenol	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
106-44-5	4-Methylphenol (p-Cresol)	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
106-46-7	1,4-Dichlorobenzene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
106-47-8	4-Chloroaniline	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
108-60-1	bis(2-chloroisopropyl) ether	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
108-95-2	Phenol	2500.		440.	U	280.		460.		100000.		6900.	
111-44-4	bis(2-Chloroethyl)ether	8400.	U	440.	U	930.	U	460.	U	21000.	U	180.	
111-91-1	bis(2-Chloroethoxy)methane	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
117-84-0	Di-n-octylphthalate	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
118-74-1	Hexachlorobenzene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
120-12-7	Anthracene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
120-82-1	1,2,4-Trichlorobenzene	1200.		440.	U	930.	U	460.	U	21000.	U	1200.	U
120-83-2	2,4-Dichlorophenol	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
121-14-2	2,4-Dinitrotoluene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
129-00-0	Pyrene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
131-11-3	Dimethylphthalate	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
132-64-9	Dibenzofuran	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
191-24-2	Benzo(g,h,i)perylene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
193-39-5	Indeno(1,2,3-cd)pyrene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
205-99-2	Benzo(b)fluoranthene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
206-44-0	Fluoranthene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
207-08-9	Benzo(k)fluoranthene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
208-96-8	Acenaphthylene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
218-01-9	Chrysene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
50-32-8	Benzo(a)pyrene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
51-28-5	2,4-Dinitrophenol	20000.	U	1100.	U	2300.	U	1100.	U	52000.	U	3000.	U
534-52-1	4,6-Dinitro-2-methylphenol	20000.	U	1100.	U	2300.	U	1100.	U	52000.	U	3000.	U
53-70-3	Dibenz(a,h)anthracene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
541-73-1	1,3-Dichlorobenzene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
56-55-3	Benzo(a)anthracene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
59-50-7	4-Chloro-3-methylphenol	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
606-20-2	2,6-Dinitrotoluene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
621-64-7	N-Nitroso-di-n-propylamine	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
65-85-0	Benzoic acid	NR		NR		NR		NR		NR		NR	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	2SB-10 (15-20')		2SB-10 (25-30')		2SB-11 (20-25')		2SB-11 (25-30')		2SB-12 (15-20')		2SB-12 (25-30')	
	ORIGINAL ID ----->	CED2SB104		CED2SB106		CED2SB115		CED6SB116		CED2SB124		CED2SB126	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/23/93		09/23/93		09/23/93		09/23/93	
	DATE ANALYZED --->	10/20/93		10/19/93		10/20/93		10/18/93		10/19/93		10/18/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E013	VAL
67-72-1	Hexachloroethane	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
7005-72-3	4-Chlorophenyl-phenylether	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
709-98-8	Propanil	47000.		93.		6400.		300.		79000.		670.	
77-47-4	Hexachlorocyclopentadiene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
78-59-1	Isophorone	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
83-32-9	Acenaphthene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
84-66-2	Diethylphthalate	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
84-74-2	Di-n-butylphthalate	8400.	U	440.	U	130.		150.		3200.		1200.	U
85-01-8	Phenanthrene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
85-68-7	Butylbenzylphthalate	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
86-30-6	N-Nitrosodiphenylamine	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
86-73-7	Fluorene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
87-68-3	Hexachlorobutadiene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
87-86-5	Pentachlorophenol	20000.	U	1100.	U	2300.	U	1100.	U	52000.	U	3000.	U
88-06-2	2,4,6-Trichlorophenol	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
88-74-4	2-Nitroaniline	20000.	U	1100.	U	2300.	U	1100.	U	52000.	U	3000.	U
88-75-5	2-Nitrophenol	2900.		440.	U	930.	U	460.	U	21000.	U	150.	
88-85-7	Dinoseb	990.		440.	U	930.	U	460.	U	9800.		1200.	U
91-20-3	Naphthalene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
91-57-6	2-Methylnaphthalene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
91-58-7	2-Chloronaphthalene	850.		440.	U	930.	U	460.	U	5400.		1200.	U
91-94-1	3,3'-Dichlorobenzidine	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
95-48-7	2-Methylphenol (o-Cresol)	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
95-50-1	1,2-Dichlorobenzene	11000.		440.	U	930.	U	460.	U	21000.	U	1200.	U
95-57-8	2-Chlorophenol	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
95-76-1	3,4-Dichloroaniline	5300.		440.	U	930.	U	460.	U	21000.	U	1200.	U
95-95-4	2,4,5-Trichlorophenol	20000.	U	1100.	U	2300.	U	1100.	U	52000.	U	3000.	U
98-95-3	Nitrobenzene	8400.	U	440.	U	930.	U	460.	U	21000.	U	1200.	U
99-09-2	3-Nitroaniline	20000.	U	1100.	U	2300.	U	1100.	U	52000.	U	3000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	2MW-1 (15-20')		2MW-1 (20-25')		2MW-1 (30-35')		2MW-2 (5-10')		2MW-2 (15-20')		2MW-3 (15-20')	
	ORIGINAL ID ----->	CED2SMW14		CED2SMW15		CED2SMW17		CED2SMW2-2		CED2SMW2-4		CED2SMW3-4	
	SAMPLE DATE ----->	09/10/93		09/10/93		09/10/93		09/13/93		09/13/93		09/13/93	
	DATE ANALYZED --->	09/17/93		09/17/93		09/17/93		10/17/93		10/17/93		10/18/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E008	VAL	E008	VAL	E008	VAL	E010	VAL	E010	VAL	E010	VAL
100-01-6	4-Nitroaniline	1700.	U	1700.	U	1600.	U	4200.	U	4400.	U	4300.	U
100-02-7	4-Nitrophenol	4300.	U	4400.	U	4200.	U	4200.	U	4400.	U	4300.	U
100-51-6	Benzyl alcohol	1700.	U	1700.	U	1600.	U	850.	U	880.	U	850.	U
101-55-3	4-Bromophenyl-phenylether	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
105-67-9	2,4-Dimethylphenol	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
106-44-5	4-Methylphenol (p-Cresol)	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
106-46-7	1,4-Dichlorobenzene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
106-47-8	4-Chloroaniline	1700.	U	1700.	U	1600.	U	850.	U	880.	U	850.	U
108-60-1	bis(2-chloroisopropyl) ether	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
108-95-2	Phenol	850.	U	750.		170.		850.	U	880.	U	2700.	
111-44-4	bis(2-Chloroethyl)ether	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
111-91-1	bis(2-Chloroethoxy)methane	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
117-84-0	Di-n-octylphthalate	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
118-74-1	Hexachlorobenzene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
120-12-7	Anthracene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
120-82-1	1,2,4-Trichlorobenzene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
120-83-2	2,4-Dichlorophenol	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
121-14-2	2,4-Dinitrotoluene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
129-00-0	Pyrene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
131-11-3	Dimethylphthalate	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
132-64-9	Dibenzofuran	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
191-24-2	Benzo(g,h,i)perylene	NR		NR		NR		850.	U	880.	U	850.	U
193-39-5	Indeno(1,2,3-cd)pyrene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
205-99-2	Benzo(b)fluoranthene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
206-44-0	Fluoranthene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
207-08-9	Benzo(k)fluoranthene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
208-96-8	Acenaphthylene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
218-01-9	Chrysene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
50-32-8	Benzo(a)pyrene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
51-28-5	2,4-Dinitrophenol	850.	U	880.	U	840.	U	4200.	U	4400.	U	4300.	U
534-52-1	4,6-Dinitro-2-methylphenol	4300.	U	4400.	U	4200.	U	4200.	U	4400.	U	4300.	U
53-70-3	Dibenz(a,h)anthracene	NR		NR		NR		850.	U	880.	U	850.	U
541-73-1	1,3-Dichlorobenzene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
56-55-3	Benzo(a)anthracene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
59-50-7	4-Chloro-3-methylphenol	1700.	U	1700.	U	1600.	U	850.	U	880.	U	850.	U
606-20-2	2,6-Dinitrotoluene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
621-64-7	N-Nitroso-di-n-propylamine	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
65-85-0	Benzoic acid	4300.	U	540.		4200.	U	4200.	U	4400.	U	4300.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	2MW-1 (15-20')		2MW-1 (20-25')		2MW-1 (30-35')		2MW-2 (5-10')		2MW-2 (15-20')		2MW-3 (15-20')	
	ORIGINAL ID ----->	CED2SMW14		CED2SMW15		CED2SMW17		CED2SMW2-2		CED2SMW2-4		CED2SMW3-4	
	SAMPLE DATE ----->	09/10/93		09/10/93		09/10/93		09/13/93		09/13/93		09/13/93	
	DATE ANALYZED --->	09/17/93		09/17/93		09/17/93		10/17/93		10/17/93		10/18/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E008	VAL	E008	VAL	E008	VAL	E010	VAL	E010	VAL	E010	VAL
67-72-1	Hexachloroethane	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
7005-72-3	4-Chlorophenyl-phenylether	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
709-98-8	Propanil	330.		260.		840.	U	460.		880.	U	90.	
77-47-4	Hexachlorocyclopentadiene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
78-59-1	Isophorone	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
83-32-9	Acenaphthene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
84-66-2	Diethylphthalate	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
84-74-2	Di-n-butylphthalate	110.		880.	U	95.		850.	U	880.	U	850.	U
85-01-8	Phenanthrene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
85-68-7	Butylbenzylphthalate	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
86-30-6	N-Nitrosodiphenylamine	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
86-73-7	Fluorene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
87-68-3	Hexachlorobutadiene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
87-86-5	Pentachlorophenol	4300.	U	4400.	U	4200.	U	4200.	U	4400.	U	4300.	U
88-06-2	2,4,6-Trichlorophenol	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
88-74-4	2-Nitroaniline	4300.	U	4400.	U	4200.	U	4200.	U	4400.	U	4300.	U
88-75-5	2-Nitrophenol	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
88-85-7	Dinoseb	850.	U	880.	U	840.	U	4200.	U	4400.	U	1700.	U
91-20-3	Naphthalene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
91-57-6	2-Methylnaphthalene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
91-58-7	2-Chloronaphthalene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
91-94-1	3,3'-Dichlorobenzidine	1700.	U	1700.	U	1600.	U	1700.	U	1800.	U	1700.	U
95-48-7	2-Methylphenol (o-Cresol)	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
95-50-1	1,2-Dichlorobenzene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
95-57-8	2-Chlorophenol	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
95-76-1	3,4-Dichloroaniline	850.	U	880.	U	840.	U	390.		880.	U	850.	U
95-95-4	2,4,5-Trichlorophenol	850.	U	880.	U	840.	U	4200.	U	4400.	U	4300.	U
98-95-3	Nitrobenzene	850.	U	880.	U	840.	U	850.	U	880.	U	850.	U
99-09-2	3-Nitroaniline	4300.	U	4400.	U	4200.	U	4200.	U	4400.	U	4300.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

SVOA								
	SHORT ID --------->	2MW-3 (20-25')		2MW-3 (30-35')				
	ORIGINAL ID ------>	CED2SMW3-5		CED2SMW3-7				
	SAMPLE DATE ------>	09/13/93		09/15/93				
	DATE ANALYZED --->	10/18/93		10/19/93				
	MATRIX ---------->	Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG				
CAS #	Parameter	E010	VAL	E010	VAL			
100-01-6	4-Nitroaniline	4500.	U	4500.	U			
100-02-7	4-Nitrophenol	1600.		4500.	U			
100-51-6	Benzyl alcohol	900.	U	900.	U			
101-55-3	4-Bromophenyl-phenylether	900.	U	900.	U			
105-67-9	2,4-Dimethylphenol	900.	U	900.	U			
106-44-5	4-Methylphenol (p-Cresol)	900.	U	900.	U			
106-46-7	1,4-Dichlorobenzene	900.	U	900.	U			
106-47-8	4-Chloroaniline	900.	U	900.	U			
108-60-1	bis(2-chloroisopropyl) ether	900.	U	900.	U			
108-95-2	Phenol	49000.		900.	U			
111-44-4	bis(2-Chloroethyl)ether	900.	U	900.	U			
111-91-1	bis(2-Chloroethoxy)methane	900.	U	900.	U			
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	900.	U	900.	U			
117-84-0	Di-n-octylphthalate	900.	U	900.	U			
118-74-1	Hexachlorobenzene	900.	U	900.	U			
120-12-7	Anthracene	900.	U	900.	U			
120-82-1	1,2,4-Trichlorobenzene	900.	U	900.	U			
120-83-2	2,4-Dichlorophenol	900.	U	900.	U			
121-14-2	2,4-Dinitrotoluene	900.	U	900.	U			
129-00-0	Pyrene	900.	U	900.	U			
131-11-3	Dimethylphthalate	900.	U	900.	U			
132-64-9	Dibenzofuran	900.	U	900.	U			
191-24-2	Benzo(g,h,i)perylene	900.	U	900.	U			
193-39-5	Indeno(1,2,3-cd)pyrene	900.	U	900.	U			
205-99-2	Benzo(b)fluoranthene	900.	U	900.	U			
206-44-0	Fluoranthene	900.	U	900.	U			
207-08-9	Benzo(k)fluoranthene	900.	U	900.	U			
208-96-8	Acenaphthylene	900.	U	900.	U			
218-01-9	Chrysene	900.	U	900.	U			
50-32-8	Benzo(a)pyrene	900.	U	900.	U			
51-28-5	2,4-Dinitrophenol	4500.	U	4500.	U			
534-52-1	4,6-Dinitro-2-methylphenol	4500.	U	4500.	U			
53-70-3	Dibenz(a,h)anthracene	900.	U	900.	U			
541-73-1	1,3-Dichlorobenzene	900.	U	900.	U			
56-55-3	Benzo(a)anthracene	900.	U	900.	U			
59-50-7	4-Chloro-3-methylphenol	900.	U	900.	U			
606-20-2	2,6-Dinitrotoluene	900.	U	900.	U			
621-64-7	N-Nitroso-di-n-propylamine	900.	U	900.	U			
65-85-0	Benzoic acid	4500.	U	4500.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	2MW-3 (20-25')		2MW-3 (30-35')					
	ORIGINAL ID ----->	CED2SMW3-5		CED2SMW3-7					
	SAMPLE DATE ----->	09/13/93		09/15/93					
	DATE ANALYZED --->	10/18/93		10/19/93					
	MATRIX ---------->	Soil		Soil					
	UNITS ----------->	UG/KG		UG/KG					
CAS #	Parameter	E010	VAL	E010	VAL				
67-72-1	Hexachloroethane	900.	U	900.	U				
7005-72-3	4-Chlorophenyl-phenylether	900.	U	900.	U				
709-98-8	Propanil	190.		120.					
77-47-4	Hexachlorocyclopentadiene	900.	U	900.	U				
78-59-1	Isophorone	900.	U	900.	U				
83-32-9	Acenaphthene	900.	U	900.	U				
84-66-2	Diethylphthalate	900.	U	900.	U				
84-74-2	Di-n-butylphthalate	900.	U	320.					
85-01-8	Phenanthrene	900.	U	900.	U				
85-68-7	Butylbenzylphthalate	900.	U	900.	U				
86-30-6	N-Nitrosodiphenylamine	900.	U	900.	U				
86-73-7	Fluorene	900.	U	900.	U				
87-68-3	Hexachlorobutadiene	900.	U	900.	U				
87-86-5	Pentachlorophenol	4500.	U	4500.	U				
88-06-2	2,4,6-Trichlorophenol	900.	U	900.	U				
88-74-4	2-Nitroaniline	4500.	U	4500.	U				
88-75-5	2-Nitrophenol	900.	U	900.	U				
88-85-7	Dinoseb	4500.	U	4500.	U				
91-20-3	Naphthalene	900.	U	900.	U				
91-57-6	2-Methylnaphthalene	900.	U	900.	U				
91-58-7	2-Chloronaphthalene	900.	U	900.	U				
91-94-1	3,3'-Dichlorobenzidine	1800.	U	1800.	U				
95-48-7	2-Methylphenol (o-Cresol)	900.	U	900.	U				
95-50-1	1,2-Dichlorobenzene	900.	U	900.	U				
95-57-8	2-Chlorophenol	900.	U	900.	U				
95-76-1	3,4-Dichloroaniline	310.		250.					
95-95-4	2,4,5-Trichlorophenol	4500.	U	4500.	U				
98-95-3	Nitrobenzene	900.	U	900.	U				
99-09-2	3-Nitroaniline	4500.	U	4500.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	2SB-1 (15-20')		2SB-1 (25-30')		2SB-2 (20-25')		2SB-2 (25-30')		2SB-3 (13-14')		2SB-3 (24-25')	
	ORIGINAL ID ----->	CED2SB14		CED2SB16		CED2-SB2-5		CED2-SB2-6		CED2-SB3-14		CED2-SB3-25	
	SAMPLE DATE ----->	09/22/93		09/22/93		09/21/93		09/21/93		09/17/93		09/17/93	
	DATE ANALYZED --->	10/05/93		10/05/93		10/02/93		10/04/93		09/28/93		09/30/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E011	VAL	E011	VAL	E011	VAL	E011	VAL
100-41-4	Ethylbenzene	840.	U	1600.	U	8200.	U	750.	U	1.		620.	
100-42-5	Styrene	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
10061-01-5	cis-1,3-Dichloropropene	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
10061-02-6	trans-1,3-Dichloropropene	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
107-06-2	1,2-Dichloroethane	3300.		4100.		70000.		9600.		12.		620.	
108-05-4	Vinyl acetate	840.	U	1600.	U	8200.	U	750.	U	6.	U	1200.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	8400.	U	3200.	U	82000.	U	7500.	U	67.		1200.	
108-88-3	Toluene	840.	U	1600.	U	8200.	U	750.	U	3.		620.	U
108-90-7	Chlorobenzene	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
124-48-1	Dibromochloromethane	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
127-18-4	Tetrachloroethene	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
1330-20-7	Xylene (total)	840.	U	450.		8200.	U	750.	U	7.		620.	
540-59-0	1,2-Dichloroethene (total)	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
56-23-5	Carbon tetrachloride	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
591-78-6	2-Hexanone	8400.	U	3200.	U	82000.	U	7500.	U	64.	U	1200.	U
67-64-1	Acetone	1500.		3200.	U	16000.	U	1100.		25.		1200.	U
67-66-3	Chloroform	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	
71-43-2	Benzene	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
71-55-6	1,1,1-Trichloroethane	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
74-83-9	Bromomethane	1700.	U	3200.	U	16000.	U	1500.	U	13.	U	1200.	U
74-87-3	Chloromethane	1700.	U	3200.	U	16000.	U	1500.	U	13.	U	1200.	U
75-00-3	Chloroethane	1700.	U	3200.	U	16000.	U	1500.	U	13.	U	1200.	U
75-01-4	Vinyl chloride	840.	U	1600.	U	8200.	U	750.	U	6.	U	1200.	U
75-09-2	Methylene chloride	13000.		110000.		45000.		40000.		68.		8100.	
75-15-0	Carbon disulfide	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
75-25-2	Bromoform	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
75-27-4	Bromodichloromethane	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
75-34-3	1,1-Dichloroethane	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
75-35-4	1,1-Dichloroethene	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
78-87-5	1,2-Dichloropropane	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
78-93-3	2-Butanone (MEK)	1700.	U	1600.		16000.	U	1500.	U	22.		1200.	U
79-00-5	1,1,2-Trichloroethane	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
79-01-6	Trichloroethene	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U
79-34-5	1,1,2,2-Tetrachloroethane	840.	U	1600.	U	8200.	U	750.	U	6.	U	620.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	2SB-4 (15-20')		2SB-4 (25-30')		2SB-5 (15-20')		2SB-5 (25-30')		2SB-6 (21-22')		2SB-6 (28-29')	
	ORIGINAL ID ----->	CED2SB44		CED2SB46		CED2SB54		CED2SB56		CED2-SB6-22		CED2-SB6-29	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/21/93		09/21/93		09/20/93		09/20/93	
	DATE ANALYZED --->	10/05/93		10/07/93		10/05/93		10/04/93		10/01/93		10/01/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E011	VAL	E011	VAL
100-41-4	Ethylbenzene	10.		1600.	U	120.		89000.	U	7800.	U	8300.	U
100-42-5	Styrene	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
10061-01-5	cis-1,3-Dichloropropene	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
10061-02-6	trans-1,3-Dichloropropene	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
107-06-2	1,2-Dichloroethane	270.		2600.		1800.		110000.		32000.		170000.	
108-05-4	Vinyl acetate	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	180.		16000.	U	20.		890000.	U	78000.	U	83000.	U
108-88-3	Toluene	1200.		1600.	U	27.		89000.	U	7800.	U	8300.	U
108-90-7	Chlorobenzene	25.		1600.	U	14.		89000.	U	7800.	U	8300.	U
124-48-1	Dibromochloromethane	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
127-18-4	Tetrachloroethene	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
1330-20-7	Xylene (total)	49.		1600.	U	550.		89000.	U	7800.	U	4800.	
540-59-0	1,2-Dichloroethene (total)	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
56-23-5	Carbon tetrachloride	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
591-78-6	2-Hexanone	330.	U	16000.	U	290.	U	890000.	U	78000.	U	83000.	U
67-64-1	Acetone	1000.		2600.		150.		180000.	U	16000.	U	17000.	U
67-66-3	Chloroform	18.		1600.	U	250.		89000.	U	7800.	U	2800.	
71-43-2	Benzene	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
71-55-6	1,1,1-Trichloroethane	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
74-83-9	Bromomethane	67.	U	3200.	U	58.	U	180000.	U	16000.	U	17000.	U
74-87-3	Chloromethane	67.	U	3200.	U	58.	U	180000.	U	16000.	U	17000.	U
75-00-3	Chloroethane	67.	U	3200.	U	58.	U	180000.	U	16000.	U	17000.	U
75-01-4	Vinyl chloride	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
75-09-2	Methylene chloride	1200.		100000.		1900.		380000.		170000.		82000.	
75-15-0	Carbon disulfide	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
75-25-2	Bromoform	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
75-27-4	Bromodichloromethane	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
75-34-3	1,1-Dichloroethane	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
75-35-4	1,1-Dichloroethene	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
78-87-5	1,2-Dichloropropane	33.	U	1600.	U	32.		89000.	U	7800.	U	8300.	U
78-93-3	2-Butanone (MEK)	67.	U	3200.	U	58.	U	180000.	U	16000.	U	17000.	U
79-00-5	1,1,2-Trichloroethane	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
79-01-6	Trichloroethene	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U
79-34-5	1,1,2,2-Tetrachloroethane	33.	U	1600.	U	29.	U	89000.	U	7800.	U	8300.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	2SB-7 (10-15')		2SB-7 (25-30')		2SB-8 (15-20')		2SB-8 (25-30')		2SB-9 (4-5')		2SB-9 (26-27')	
	ORIGINAL ID ----->	CED2SB73		CED2SB76		CED2SB84		CED2SB86		CED2-SB9-5		CED2-SB9-27	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/21/93		09/21/93		09/21/93		09/21/93	
	DATE ANALYZED --->	10/06/93		10/06/93		10/05/93		10/05/93		10/01/93		10/02/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E011	VAL	E011	VAL	E011	VAL	E011	VAL
100-41-4	Ethylbenzene	7.	U	820.	U	32.	U	17.		2.		420.	
100-42-5	Styrene	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
10061-01-5	cis-1,3-Dichloropropene	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
10061-02-6	trans-1,3-Dichloropropene	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
107-06-2	1,2-Dichloroethane	11.		820.	U	130.		220.		14.		2900.	
108-05-4	Vinyl acetate	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.		8200.	U	27.		79.		68.	U	17000.	U
108-88-3	Toluene	4.		20000.		85.		1200.		15.		5000.	
108-90-7	Chlorobenzene	7.	U	820.	U	32.	U	100.		3.		530.	
124-48-1	Dibromochloromethane	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
127-18-4	Tetrachloroethene	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
1330-20-7	Xylene (total)	7.	U	820.	U	13.		170.		15.		2600.	
540-59-0	1,2-Dichloroethene (total)	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
56-23-5	Carbon tetrachloride	7.	U	820.	U	32.	U	34.	U	7.	U	670.	
591-78-6	2-Hexanone	70.	U	8200.	U	320.	U	340.	U	68.	U	17000.	U
67-64-1	Acetone	210.		2400.		980.		10000.		26.		3300.	U
67-66-3	Chloroform	7.	U	260.		50.		1100.		2.		13000.	
71-43-2	Benzene	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
71-55-6	1,1,1-Trichloroethane	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
74-83-9	Bromomethane	14.	U	1600.	U	65.	U	68.	U	14.	U	3300.	U
74-87-3	Chloromethane	14.	U	1600.	U	65.	U	68.	U	14.	U	3300.	U
75-00-3	Chloroethane	14.	U	1600.	U	65.	U	68.	U	14.	U	3300.	U
75-01-4	Vinyl chloride	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
75-09-2	Methylene chloride	46.		850.	U	1100.		2100.		28.		93000.	
75-15-0	Carbon disulfide	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
75-25-2	Bromoform	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
75-27-4	Bromodichloromethane	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
75-34-3	1,1-Dichloroethane	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
75-35-4	1,1-Dichloroethene	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
78-87-5	1,2-Dichloropropane	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
78-93-3	2-Butanone (MEK)	21.		1600.	U	65.	U	68.	U	14.	U	3300.	U
79-00-5	1,1,2-Trichloroethane	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
79-01-6	Trichloroethene	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U
79-34-5	1,1,2,2-Tetrachloroethane	7.	U	820.	U	32.	U	34.	U	7.	U	1700.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	2SB-10 (15-20')		2SB-10 (25-30')		2SB-11 (20-25')		2SB-11 (25-30')		2SB-12 (15-20')		2SB-12 (25-30')	
	ORIGINAL ID ----->	CED2SB104		CED2SB106		CED2SB115		CED2SB116		CED2SB124		CED2SB126	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/23/93		09/23/93		09/23/93		09/23/93	
	DATE ANALYZED --->	10/07/93		10/07/93		10/07/93		10/06/93		10/06/93		10/07/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E013	VAL	E013	VAL
100-41-4	Ethylbenzene	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
100-42-5	Styrene	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
10061-01-5	cis-1,3-Dichloropropene	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
10061-02-6	trans-1,3-Dichloropropene	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
107-06-2	1,2-Dichloroethane	8300.	U	33.	U	40.		170.		3400.		63.	
108-05-4	Vinyl acetate	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	83000.	U	20.		180.	U	8300.	U	7600.	U	60.	
108-88-3	Toluene	390000.		1100.		90.		180.		170.		30.	
108-90-7	Chlorobenzene	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
124-48-1	Dibromochloromethane	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
127-18-4	Tetrachloroethene	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
1330-20-7	Xylene (total)	2800.		33.	U	7.		830.	U	760.	U	31.	U
540-59-0	1,2-Dichloroethene (total)	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
56-23-5	Carbon tetrachloride	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
591-78-6	2-Hexanone	83000.	U	330.	U	180.	U	8300.	U	7600.	U	310.	U
67-64-1	Acetone	17000.	U	240.		84.		17000.		1500.	U	7400.	
67-66-3	Chloroform	8300.	U	64.		39.		2700.		620.		1100.	
71-43-2	Benzene	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
71-55-6	1,1,1-Trichloroethane	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
74-83-9	Bromomethane	17000.	U	67.	U	35.	U	1700.	U	1500.	U	62.	U
74-87-3	Chloromethane	17000.	U	67.	U	35.	U	1700.	U	1500.	U	62.	U
75-00-3	Chloroethane	17000.	U	67.	U	35.	U	1700.	U	1500.	U	62.	U
75-01-4	Vinyl chloride	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
75-09-2	Methylene chloride	8300.	U	370.		340.		3500.	U	45000.		4100.	
75-15-0	Carbon disulfide	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
75-25-2	Bromoform	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
75-27-4	Bromodichloromethane	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
75-34-3	1,1-Dichloroethane	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
75-35-4	1,1-Dichloroethene	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
78-87-5	1,2-Dichloropropane	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
78-93-3	2-Butanone (MEK)	1700.		67.	U	35.	U	1700.	U	1500.	U	31.	U
79-00-5	1,1,2-Trichloroethane	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
79-01-6	Trichloroethene	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U
79-34-5	1,1,2,2-Tetrachloroethane	8300.	U	33.	U	18.	U	830.	U	760.	U	31.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	2MW-1 (15-20')		2MW-1 (20-25')		2MW-1 (30-35')		2MW-2 (5-10')		2MW-2 (15-20')		2MW-3 (15-20')	
	ORIGINAL ID ----->	CED2SMW14		CED2SMW15		CED2SMW17		CED2-SMW2-2		CED2-SMW2-4		CED2-SMW3-4	
	SAMPLE DATE ----->	09/10/93		09/10/93		09/10/93		09/13/93		09/13/93		09/13/93	
	DATE ANALYZED --->	09/15/93		09/15/93		09/15/93		09/21/93		09/21/93		09/21/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E008	VAL	E008	VAL	E008	VAL	E010	VAL	E010	VAL	E010	VAL
100-41-4	Ethylbenzene	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
100-42-5	Styrene	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
10061-01-5	cis-1,3-Dichloropropene	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
10061-02-6	trans-1,3-Dichloropropene	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
107-06-2	1,2-Dichloroethane	43.		830.	U	7.	U	6.	U	6.	U	35.	
108-05-4	Vinyl acetate	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	140.	U	8300.	U	33.		63.	U	62.	U	9.	
108-88-3	Toluene	14.	U	830.	U	7.	U	6.	U	6.	U	29.	
108-90-7	Chlorobenzene	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
124-48-1	Dibromochloromethane	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
127-18-4	Tetrachloroethene	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
1330-20-7	Xylene (total)	14.	U	830.	U	7.	U	6.	U	6.	U	3.	
540-59-0	1,2-Dichloroethene (total)	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
56-23-5	Carbon tetrachloride	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
591-78-6	2-Hexanone	140.	U	8300.	U	66.	U	63.	U	62.	U	64.	U
67-64-1	Acetone	27.	U	1700.	U	13.		13.	U	12.	U	35.	
67-66-3	Chloroform	14.	U	830.	U	7.	U	6.	U	6.	U	190.	
71-43-2	Benzene	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
71-55-6	1,1,1-Trichloroethane	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
74-83-9	Bromomethane	27.	U	1700.	U	13.	U	13.	U	12.	U	13.	U
74-87-3	Chloromethane	27.	U	1700.	U	13.	U	13.	U	12.	U	13.	U
75-00-3	Chloroethane	27.	U	1700.	U	13.	U	13.	U	12.	U	13.	U
75-01-4	Vinyl chloride	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
75-09-2	Methylene chloride	320.		25000.		160.		6.	U	6.	U	250.	
75-15-0	Carbon disulfide	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
75-25-2	Bromoform	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
75-27-4	Bromodichloromethane	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
75-34-3	1,1-Dichloroethane	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
75-35-4	1,1-Dichloroethene	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
78-87-5	1,2-Dichloropropane	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
78-93-3	2-Butanone (MEK)	27.	U	1700.	U	13.	U	13.	U	12.	U	13.	U
79-00-5	1,1,2-Trichloroethane	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
79-01-6	Trichloroethene	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	14.	U	830.	U	7.	U	6.	U	6.	U	6.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 2 SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	2MW-3 (20-25')		2MW-3 (30-35')					
	ORIGINAL ID ----->	CED2-SMW3-5		CED2-SMW3-7					
	SAMPLE DATE ----->	09/13/93		09/15/93					
	DATE ANALYZED --->	09/24/93		09/24/93					
	MATRIX ---------->	Soil		Soil					
	UNITS ----------->	UG/KG		UG/KG					
CAS #	Parameter	E010	VAL	E010	VAL				
100-41-4	Ethylbenzene	31.	U	34.	U				
100-42-5	Styrene	31.	U	34.	U				
10061-01-5	cis-1,3-Dichloropropene	31.	U	34.	U				
10061-02-6	trans-1,3-Dichloropropene	31.	U	34.	U				
107-06-2	1,2-Dichloroethane	74.		110.					
108-05-4	Vinyl acetate	31.	U	34.	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.		1000.					
108-88-3	Toluene	140.		190.					
108-90-7	Chlorobenzene	31.	U	34.	U				
124-48-1	Dibromochloromethane	31.	U	34.	U				
127-18-4	Tetrachloroethene	31.	U	34.	U				
1330-20-7	Xylene (total)	31.	U	34.	U				
540-59-0	1,2-Dichloroethene (total)	31.	U	34.	U				
56-23-5	Carbon tetrachloride	31.	U	34.	U				
591-78-6	2-Hexanone	310.	U	340.	U				
67-64-1	Acetone	3100.		2700.					
67-66-3	Chloroform	390.		10.					
71-43-2	Benzene	31.	U	34.	U				
71-55-6	1,1,1-Trichloroethane	31.	U	34.	U				
74-83-9	Bromomethane	61.	U	68.	U				
74-87-3	Chloromethane	61.	U	68.	U				
75-00-3	Chloroethane	61.	U	68.	U				
75-01-4	Vinyl chloride	31.	U	34.	U				
75-09-2	Methylene chloride	890.		26.					
75-15-0	Carbon disulfide	31.	U	34.	U				
75-25-2	Bromoform	31.	U	34.	U				
75-27-4	Bromodichloromethane	31.	U	34.	U				
75-34-3	1,1-Dichloroethane	31.	U	34.	U				
75-35-4	1,1-Dichloroethene	31.	U	34.	U				
78-87-5	1,2-Dichloropropane	31.	U	34.	U				
78-93-3	2-Butanone (MEK)	35.		68.	U				
79-00-5	1,1,2-Trichloroethane	31.	U	34.	U				
79-01-6	Trichloroethene	31.	U	34.	U				
79-34-5	1,1,2,2-Tetrachloroethane	31.	U	34.	U				

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE I SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	IMSB-1 (1-3')		IMSB-1 (3-8')		IMSB-1 (8-12')		IMSB-2 (1-5')		IMSB-2 (5-10')		IMSB-2 (10-15')	
	ORIGINAL ID ----->	IM-SB-01-1		IM-SB-01-2		IM-SB-01-3		IM-SB-02-1		IM-SB-02-2		IMSB023	
	SAMPLE DATE ----->	04/08/93		04/08/93		05/06/93		04/08/93		04/08/93		04/08/93	
	DATE ANALYZED --->	04/17/93		04/17/93		05/03/93		04/22/93		04/17/93		04/30/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
1024-57-3	Heptachlor Epoxide	2400.	U	70.	U	72.	U	150.	U	72.	U	720.	U
1031-07-8	Endosulfan Sulfate	1900.	U	55.	U	57.	U	120.	U	56.	U	570.	U
309-00-2	Aldrin	420.		3.4	U	3.5	U	7.2	U	3.5	U	35.	U
319-84-6	Alpha-BHC	84.	U	2.5	U	2.6	U	5.3	U	2.6	U	55.	
319-85-7	Beta-BHC	170.	U	5.	U	5.2	U	11.	U	10.		52.	U
319-86-8	Delta-BHC	250.	U	7.5	U	26.		16.	U	7.7	U	78.	U
33213-65-9	Endosulfan II	110.	U	3.4	U	3.5	U	7.2	U	3.5	U	35.	U
50-29-3	4,4'-DDT	890.		10.	U	10.	U	55.		10.	U	100.	U
5103-71-9	alpha-Chlordane	400.	U	12.	U	12.	U	25.	U	12.	U	120.	U
5103-74-2	gamma-Chlordane	400.	U	12.	U	12.	U	25.	U	12.	U	120.	U
53494-70-5	Endrin ketone	670.	U	20.	U	21.	U	43.	U	20.	U	210.	U
58-89-9	gamma-BHC (Lindane)	110.	U	3.4		3.5	U	7.2	U	3.5	U	35.	U
60-57-1	Dieldrin	55.	U	1.6	U	1.7	U	7.4		1.7	U	350.	
72-20-8	Endrin	250.		5.	U	5.2	U	11.	U	5.1	U	52.	U
72-43-5	Methoxychlor	5100.	U	150.	U	160.	U	600.		150.	U	1500.	U
72-54-8	4,4'-DDD	310.	U	9.2	U	9.5	U	20.	U	9.5	U	95.	U
72-55-9	4,4'-DDE	190.		3.4	U	3.5	U	7.2	U	3.5	U	35.	U
76-44-8	Heptachlor	84.	U	2.5	U	2.6	U	5.3	U	31.		26.	U
8001-35-2	Toxaphene	6700.	U	200.	U	210.	U	430.	U	200.	U	2100.	U
959-98-8	Endosulfan I	400.	U	12.	U	12.	U	7.2	U	12.	U	120.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE I SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	IMSB-3 (1-5')		IMSB-3 (5-10')		IMSB-3 (10-15')		IMSB-4 (1-5')		IMSB-4 (5-10')		IMSB-5 (1-5')	
	ORIGINAL ID ----->	IM-SB-03-1		IM-SB-03-2		IM-SB-03-3		IM-SB-04-1		IM-SB-04-2		IM-SB-05-1	
	SAMPLE DATE ----->	04/09/93		04/09/93		04/09/93		04/09/93		04/09/93		04/09/93	
	DATE ANALYZED --->	04/17/93		04/22/93		04/30/93		04/17/93		04/17/93		04/17/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
1024-57-3	Heptachlor Epoxide	68.	U	70.	U	72.	U	140.	U	71.	U	69.	U
1031-07-8	Endosulfan Sulfate	54.	U	55.	U	57.	U	110.	U	56.	U	54.	U
309-00-2	Aldrin	2.4	U	9.3		3.5	U	6.8	U	3.4	U	3.3	U
319-84-6	Alpha-BHC	2.4	U	2.5	U	2.6	U	5.1	U	2.5	U	2.5	U
319-85-7	Beta-BHC	4.9	U	37.		5.2	U	10.	U	5.1	U	4.9	U
319-86-8	Delta-BHC	7.3	U	7.5	U	7.8	U	15.	U	7.6	U	7.4	U
33213-65-9	Endosulfan II	3.3	U	3.4	U	3.5	U	6.8	U	3.4	U	3.3	U
50-29-3	4,4'-DDT	9.8	U	10.	U	10.	U	20.	U	10.	U	9.9	U
5103-71-9	alpha-Chlordane	11.	U	12.	U	12.	U	24.	U	12.	U	12.	U
5103-74-2	gamma-Chlordane	11.	U	12.	U	12.	U	24.	U	12.	U	12.	U
53494-70-5	Endrin ketone	20.	U	20.	U	21.	U	40.	U	20.	U	20.	U
58-89-9	gamma-BHC (Lindane)	3.3	U	3.4		3.5	U	6.8	U	3.4	U	3.3	U
60-57-1	Dieldrin	1.6	U	1.6	U	1.7	U	56.		1.6	U	13.	
72-20-8	Endrin	4.9	U	5.	U	5.2	U	10.	U	5.1	U	4.9	U
72-43-5	Methoxychlor	150.	U	150.	U	150.	U	300.	U	150.	U	290.	U
72-54-8	4,4'-DDD	9.	U	10.		9.5	U	19.	U	9.4	U	9.1	U
72-55-9	4,4'-DDE	3.3	U	3.4	U	3.5	U	6.8	U	3.4	U	3.3	U
76-44-8	Heptachlor	2.4	U	4.9		2.6	U	5.1	U	2.5	U	2.5	U
8001-35-2	Toxaphene	200.	U	200.	U	210.	U	400.	U	200.	U	200.	U
959-98-8	Endosulfan I	11.	U	12.	U	12.	U	24.	U	12.	U	12.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE I SUBSURFACE SOIL DATA

PEST

SHORT ID --------->	IMSB-5 (5-10')
ORIGINAL ID ----->	IM-SB-05-2
SAMPLE DATE ----->	04/09/93
DATE ANALYZED --->	04/17/93
MATRIX ---------->	Soil
UNITS ----------->	UG/KG

CAS #	Parameter	ES1	VAL
1024-57-3	Heptachlor Epoxide	71.	U
1031-07-8	Endosulfan Sulfate	56.	U
309-00-2	Aldrin	3.4	U
319-84-6	Alpha-BHC	2.5	U
319-85-7	Beta-BHC	5.1	U
319-86-8	Delta-BHC	7.6	U
33213-65-9	Endosulfan II	3.4	U
50-29-3	4,4'-DDT	10.	U
5103-71-9	alpha-Chlordane	12.	U
5103-74-2	gamma-Chlordane	12.	U
53494-70-5	Endrin ketone	20.	U
58-89-9	gamma-BHC (Lindane)	3.4	U
60-57-1	Dieldrin	1.6	U
72-20-8	Endrin	5.1	U
72-43-5	Methoxychlor	150.	U
72-54-8	4,4'-DDD	9.4	U
72-55-9	4,4'-DDE	3.4	U
76-44-8	Heptachlor	2.5	U
8001-35-2	Toxaphene	200.	U
959-98-8	Endosulfan I	12.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE I SUBSURFACE SOIL DATA

RCRA METAL	SHORT ID ------>	IMSB-1 (1-3')	IMSB-1 (3-8')	IMSB-2 (1-5')	IMSB-2 (5-10')	IMSB-3 (1-5')	IMSB-3 (5-10')
	ORIGINAL ID ----->	IM-SB-01-1	IM-SB-01-2	IM-SB-02-1	IM-SB-02-2	IM-SB-03-1	IM-SB-03-2
	SAMPLE DATE ----->	04/08/93	04/08/93	04/08/93	04/08/93	04/09/93	04/09/93
	DATE ANALYZED --->	04/19/93	04/19/93	04/19/93	04/19/93	04/19/93	04/19/93
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG

CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
7440-38-2	Arsenic (As)	59.		9.3		3.4		7.4		7.4		7.3	
7440-39-3	Barium (Ba)	313.		143.		81.7		210.		130.		231.	
7440-43-9	Cadmium (Cd)	0.35	U	0.37	U	0.4	U	0.37	U	0.36	U	0.36	U
7440-47-3	Chromium (Cr)	12.4		9.2		8.2		9.9		12.5		14.2	
7439-92-1	Lead (Pb)	12.8		11.7		6.5		11.7		8.9		13.3	
7439-97-6	Mercury (Hg)	0.11	U	0.12	U	0.11	U	0.11	U	0.1	U	0.11	U
7782-49-2	Selenium (Se)	0.15		0.15		0.13	U	0.19		0.12	U	0.28	
7440-22-4	Silver (Ag)	0.83	U	0.85	U	0.93	U	0.87	U	0.85	U	0.85	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE I SUBSURFACE SOIL DATA

RCRA METAL	SHORT ID --------->	IMSB-4 (1-5')		IMSB-4 (5-10')		IMSB-5 (1-5')		IMSB-5 (5-10')			
	ORIGINAL ID ----->	IM-SB-04-1		IM-SB-04-2		IM-SB-05-1		IM-SB-05-2			
	SAMPLE DATE ----->	04/09/93		04/09/93		04/09/93		04/09/93			
	DATE ANALYZED --->	04/19/93		04/19/93		04/19/93		04/19/93			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG			
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL		
7440-38-2	Arsenic (As)	8.6		8.5		9.6		7.2			
7440-39-3	Barium (Ba)	130.		156.		146.		122.			
7440-43-9	Cadmium (Cd)	0.37	U	0.38	U	0.36	U	0.37	U		
7440-47-3	Chromium (Cr)	13.8		16.9		12.		11.7			
7439-92-1	Lead (Pb)	9.8		13.		11.4		9.7			
7439-97-6	Mercury (Hg)	0.11	U	0.12	U	0.1	U	0.12	U		
7782-49-2	Selenium (Se)	0.12	U	0.29		0.18		0.2			
7440-22-4	Silver (Ag)	0.86	U	0.88	U	0.85	U	0.87	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	IMSB-1 (1-3')		IMSB-1 (3-8')		IMSB-1 (8-12')		IMSB-2 (1-5')		IMSB-2 (5-10')		IMSB-2 (10-15')	
	ORIGINAL ID ----->	IM-SB-01-1		IM-SB-01-2		IM-SB-01-3		IM-SB-02-1		IM-SB-02-2		IM-SB-02-3	
	SAMPLE DATE ----->	04/08/93		04/08/93		04/08/93		04/08/93		04/08/93		04/08/93	
	DATE ANALYZED --->	04/20/93		04/22/93		04/20/93		04/20/93		04/20/93		04/21/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/L		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
100-01-6	4-Nitroaniline	4000.	U	4100.	U	4300.	U	4400.	U	4200.	U	4300.	U
100-02-7	4-Nitrophenol	4000.	U	4100.	U	4300.	U	4400.	U	4200.	U	4300.	U
100-51-6	Benzyl alcohol	1600.	U	1600.	U	1700.	U	1700.	U	1700.	U	1700.	U
101-55-3	4-Bromophenyl-phenylether	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
105-67-9	2,4-Dimethylphenol	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
106-44-5	4-Methylphenol (p-Cresol)	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
106-46-7	1,4-Dichlorobenzene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
106-47-8	4-Chloroaniline	1600.	U	1600.	U	1700.	U	1700.	U	1700.	U	1700.	U
108-60-1	bis(2-chloroisopropyl) ether	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
108-95-2	Phenol	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
111-44-4	bis(2-Chloroethyl)ether	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
111-91-1	bis(2-Chloroethoxy)methane	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
117-84-0	Di-n-octylphthalate	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
118-74-1	Hexachlorobenzene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
120-12-7	Anthracene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
120-82-1	1,2,4-Trichlorobenzene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
120-83-2	2,4-Dichlorophenol	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
121-14-2	2,4-Dinitrotoluene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
129-00-0	Pyrene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
131-11-3	Dimethylphthalate	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
132-64-9	Dibenzofuran	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
191-24-2	Benzo(g,h,i)perylene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
193-39-5	Indeno(1,2,3-cd)pyrene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
205-99-2	Benzo(b)fluoranthene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
206-44-0	Fluoranthene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
207-08-9	Benzo(k)fluoranthene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
208-96-8	Acenaphthylene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
218-01-9	Chrysene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
50-32-8	Benzo(a)pyrene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
51-28-5	2,4-Dinitrophenol	4000.	U	4100.	U	4300.	U	4400.	U	4200.	U	4300.	U
534-52-1	4,6-Dinitro-2-methylphenol	4000.	U	4100.	U	4300.	U	4400.	U	4200.	U	4300.	U
53-70-3	Dibenz(a,h)anthracene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
541-73-1	1,3-Dichlorobenzene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
56-55-3	Benzo(a)anthracene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
59-50-7	4-Chloro-3-methylphenol	1600.	U	1600.	U	1700.	U	1700.	U	1700.	U	1700.	U
606-20-2	2,6-Dinitrotoluene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
621-64-7	N-Nitroso-di-n-propylamine	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
65-85-0	Benzoic acid	4000.	U	4100.	U	4300.	U	4400.	U	4200.	U	4300.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	IMSB-1 (1-3')		IMSB-1 (3-8')		IMSB-1 (8-12')		IMSB-2 (1-5')		IMSB-2 (5-10')		IMSB-2 (10-15')	
	ORIGINAL ID ----->	IM-SB-01-1		IM-SB-01-2		IM-SB-01-3		IM-SB-02-1		IM-SB-02-2		IM-SB-02-3	
	SAMPLE DATE ----->	04/08/93		04/08/93		04/08/93		04/08/93		04/08/93		04/08/93	
	DATE ANALYZED --->	04/20/93		04/22/93		04/20/93		04/20/93		04/20/93		04/21/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/L		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
67-72-1	Hexachloroethane	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
7005-72-3	4-Chlorophenyl-phenylether	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
709-98-8	Propanil	4000.	U	4100.	U	4300.	U	4400.	U	4200.	U	8800.	
77-47-4	Hexachlorocyclopentadiene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
78-59-1	Isophorone	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
83-32-9	Acenaphthene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
84-66-2	Diethylphthalate	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
84-74-2	Di-n-butylphthalate	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
85-01-8	Phenanthrene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
85-68-7	Butylbenzylphthalate	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
86-30-6	N-Nitrosodiphenylamine	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
86-73-7	Fluorene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
87-68-3	Hexachlorobutadiene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
87-86-5	Pentachlorophenol	4000.	U	4100.	U	4300.	U	4400.	U	4200.	U	4300.	U
88-06-2	2,4,6-Trichlorophenol	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
88-74-4	2-Nitroaniline	4000.	U	4100.	U	4300.	U	4400.	U	4200.	U	4300.	U
88-75-5	2-Nitrophenol	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
88-85-7	Dinoseb	1600.	U	63000.		1700.	U	1700.	U	2900.		1700.	U
91-20-3	Naphthalene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
91-57-6	2-Methylnaphthalene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
91-58-7	2-Chloronaphthalene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
91-94-1	3,3'-Dichlorobenzidine	1600.	U	1600.	U	1700.	U	1700.	U	1700.	U	1700.	U
95-48-7	2-Methylphenol (o-Cresol)	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
95-50-1	1,2-Dichlorobenzene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
95-57-8	2-Chlorophenol	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
95-76-1	3,4-Dichloroaniline	1600.	U	1600.	U	1700.	U	1700.	U	6700.		1700.	U
95-95-4	2,4,5-Trichlorophenol	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
98-95-3	Nitrobenzene	800.	U	820.	U	860.	U	880.	U	850.	U	850.	U
99-09-2	3-Nitroaniline	4000.	U	4100.	U	4300.	U	4400.	U	4200.	U	4300.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	IMSB-3 (1-5')		IMSB-3 (5-10')		IMSB-3 (10-15')		IMSB-4 (1-5')		IMSB-4 (5-10')		IMSB-4 (10-15')	
	ORIGINAL ID ----->	IM-SB-03-1		IM-SB-03-2		IM-SB-03-3		IM-SB-04-1		IM-SB-04-2		IMSB043	
	SAMPLE DATE ----->	04/09/93		04/09/93		04/09/93		04/09/93		04/09/93		04/09/93	
	DATE ANALYZED --->	04/22/93		04/21/93		04/21/93		04/22/93		04/22/93		04/21/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	EST	VAL
100-01-6	4-Nitroaniline	4000.	U	4100.	U	4200.	U	4200.	U	4200.	U	4300.	U
100-02-7	4-Nitrophenol	4000.	U	4100.	U	4200.	U	4200.	U	4200.	U	4300.	U
100-51-6	Benzyl alcohol	1600.	U	1600.	U	1700.	U	1600.	U	1600.	U	1700.	U
101-55-3	4-Bromophenyl-phenylether	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
105-67-9	2,4-Dimethylphenol	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
106-44-5	4-Methylphenol (p-Cresol)	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
106-46-7	1,4-Dichlorobenzene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
106-47-8	4-Chloroaniline	1600.	U	1600.	U	1700.	U	1600.	U	1600.	U	1700.	U
108-60-1	bis(2-chloroisopropyl) ether	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
108-95-2	Phenol	800.	U	1000.		850.	U	840.	U	840.	U	850.	U
111-44-4	bis(2-Chloroethyl)ether	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
111-91-1	bis(2-Chloroethoxy)methane	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
117-84-0	Di-n-octylphthalate	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
118-74-1	Hexachlorobenzene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
120-12-7	Anthracene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
120-82-1	1,2,4-Trichlorobenzene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
120-83-2	2,4-Dichlorophenol	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
121-14-2	2,4-Dinitrotoluene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
129-00-0	Pyrene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
131-11-3	Dimethylphthalate	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
132-64-9	Dibenzofuran	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
191-24-2	Benzo(g,h,i)perylene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
193-39-5	Indeno(1,2,3-cd)pyrene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
205-99-2	Benzo(b)fluoranthene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
206-44-0	Fluoranthene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
207-08-9	Benzo(k)fluoranthene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
208-96-8	Acenaphthylene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
218-01-9	Chrysene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
50-32-8	Benzo(a)pyrene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
51-28-5	2,4-Dinitrophenol	4000.	U	4100.	U	4200.	U	4200.	U	4200.	U	4300.	U
534-52-1	4,6-Dinitro-2-methylphenol	4000.	U	4100.	U	4200.	U	4200.	U	4200.	U	4300.	U
53-70-3	Dibenz(a,h)anthracene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
541-73-1	1,3-Dichlorobenzene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
56-55-3	Benzo(a)anthracene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
59-50-7	4-Chloro-3-methylphenol	1600.	U	1600.	U	1700.	U	1600.	U	1600.	U	1700.	U
606-20-2	2,6-Dinitrotoluene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
621-64-7	N-Nitroso-di-n-propylamine	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
65-85-0	Benzoic acid	4000.	U	4100.	U	4200.	U	4200.	U	4200.	U	4300.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	IMSB-3 (1-5')		IMSB-3 (5-10')		IMSB-3 (10-15')		IMSB-4 (1-5')		IMSB-4 (5-10')		IMSB-4 (10-15')	
	ORIGINAL ID ----->	IM-SB-03-1		IM-SB-03-2		IM-SB-03-3		IM-SB-04-1		IM-SB-04-2		IMSB043	
	SAMPLE DATE ----->	04/09/93		04/09/93		04/09/93		04/09/93		04/09/93		04/09/93	
	DATE ANALYZED --->	04/22/93		04/21/93		04/21/93		04/22/93		04/22/93		04/21/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
67-72-1	Hexachloroethane	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
7005-72-3	4-Chlorophenyl-phenylether	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
709-98-8	Propanil	4000.	U	4100.	U	4200.	U	4200.	U	4200.	U	4300.	U
77-47-4	Hexachlorocyclopentadiene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
78-59-1	Isophorone	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
83-32-9	Acenaphthene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
84-66-2	Diethylphthalate	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
84-74-2	Di-n-butylphthalate	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
85-01-8	Phenanthrene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
85-68-7	Butylbenzylphthalate	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
86-30-6	N-Nitrosodiphenylamine	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
86-73-7	Fluorene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
87-68-3	Hexachlorobutadiene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
87-86-5	Pentachlorophenol	4000.	U	4100.	U	4200.	U	4200.	U	4200.	U	4300.	U
88-06-2	2,4,6-Trichlorophenol	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
88-74-4	2-Nitroaniline	4000.	U	4100.	U	4200.	U	4200.	U	4200.	U	4300.	U
88-75-5	2-Nitrophenol	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
88-85-7	Dinoseb	1600.	U	12000.		1700.	U	1600.	U	1600.	U	1700.	U
91-20-3	Naphthalene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
91-57-6	2-Methylnaphthalene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
91-58-7	2-Chloronaphthalene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
91-94-1	3,3'-Dichlorobenzidine	1600.	U	1600.	U	1700.	U	1600.	U	1600.	U	1700.	U
95-48-7	2-Methylphenol (o-Cresol)	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
95-50-1	1,2-Dichlorobenzene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
95-57-8	2-Chlorophenol	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
95-76-1	3,4-Dichloroaniline	1600.	U	2600.		1700.	U	1600.	U	1600.	U	1700.	U
95-95-4	2,4,5-Trichlorophenol	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
98-95-3	Nitrobenzene	800.	U	820.	U	850.	U	840.	U	840.	U	850.	U
99-09-2	3-Nitroaniline	4000.	U	4100.	U	4200.	U	4200.	U	4200.	U	4300.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	IMSB-5 (1-5')		IMSB-5 (5-10')		IMSB-5 (10-15')				
	ORIGINAL ID ----->	IM-SB-05-1		IM-SB-05-2		IM-SB-05-3				
	SAMPLE DATE ----->	04/09/93		04/09/93		04/09/93				
	DATE ANALYZED --->	04/23/93		04/22/93		04/22/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL			
100-01-6	4-Nitroaniline	4100.	U	4200.	U	4200.	U			
100-02-7	4-Nitrophenol	4100.	U	4200.	U	4200.	U			
100-51-6	Benzyl alcohol	1600.	U	1600.	U	1600.	U			
101-55-3	4-Bromophenyl-phenylether	810.	U	830.	U	830.	U			
105-67-9	2,4-Dimethylphenol	810.	U	830.	U	830.	U			
106-44-5	4-Methylphenol (p-Cresol)	810.	U	830.	U	830.	U			
106-46-7	1,4-Dichlorobenzene	810.	U	830.	U	830.	U			
106-47-8	4-Chloroaniline	1600.	U	1600.	U	1600.	U			
108-60-1	bis(2-chloroisopropyl) ether	810.	U	830.	U	830.	U			
108-95-2	Phenol	810.	U	830.	U	830.	U			
111-44-4	bis(2-Chloroethyl)ether	810.	U	830.	U	830.	U			
111-91-1	bis(2-Chloroethoxy)methane	810.	U	830.	U	830.	U			
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	810.	U	830.	U	830.	U			
117-84-0	Di-n-octylphthalate	810.	U	830.	U	830.	U			
118-74-1	Hexachlorobenzene	810.	U	830.	U	830.	U			
120-12-7	Anthracene	810.	U	830.	U	830.	U			
120-82-1	1,2,4-Trichlorobenzene	810.	U	830.	U	830.	U			
120-83-2	2,4-Dichlorophenol	810.	U	830.	U	830.	U			
121-14-2	2,4-Dinitrotoluene	810.	U	830.	U	830.	U			
129-00-0	Pyrene	810.	U	830.	U	830.	U			
131-11-3	Dimethylphthalate	810.	U	830.	U	830.	U			
132-64-9	Dibenzofuran	810.	U	830.	U	830.	U			
191-24-2	Benzo(g,h,i)perylene	810.	U	830.	U	830.	U			
193-39-5	Indeno(1,2,3-cd)pyrene	810.	U	830.	U	830.	U			
205-99-2	Benzo(b)fluoranthene	810.	U	830.	U	830.	U			
206-44-0	Fluoranthene	810.	U	830.	U	830.	U			
207-08-9	Benzo(k)fluoranthene	810.	U	830.	U	830.	U			
208-96-8	Acenaphthylene	810.	U	830.	U	830.	U			
218-01-9	Chrysene	810.	U	830.	U	830.	U			
50-32-8	Benzo(a)pyrene	810.	U	830.	U	830.	U			
51-28-5	2,4-Dinitrophenol	4100.	U	4200.	U	4200.	U			
534-52-1	4,6-Dinitro-2-methylphenol	4100.	U	4200.	U	4200.	U			
53-70-3	Dibenz(a,h)anthracene	810.	U	830.	U	830.	U			
541-73-1	1,3-Dichlorobenzene	810.	U	830.	U	830.	U			
56-55-3	Benzo(a)anthracene	810.	U	830.	U	830.	U			
59-50-7	4-Chloro-3-methylphenol	1600.	U	1600.	U	1600.	U			
606-20-2	2,6-Dinitrotoluene	810.	U	830.	U	830.	U			
621-64-7	N-Nitroso-di-n-propylamine	810.	U	830.	U	830.	U			
65-85-0	Benzoic acid	4100.	U	4200.	U	4200.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	IMSB-5 (1-5')		IMSB-5 (5-10')		IMSB-5 (10-15')				
	ORIGINAL ID ----->	IM-SB-05-1		IM-SB-05-2		IM-SB-05-3				
	SAMPLE DATE ----->	04/09/93		04/09/93		04/09/93				
	DATE ANALYZED --->	04/23/93		04/22/93		04/22/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ---------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL			
67-72-1	Hexachloroethane	810.	U	830.	U	830.	U			
7005-72-3	4-Chlorophenyl-phenylether	810.	U	830.	U	830.	U			
709-98-8	Propanil	4100.	U	4200.	U	4200.	U			
77-47-4	Hexachlorocyclopentadiene	810.	U	830.	U	830.	U			
78-59-1	Isophorone	810.	U	830.	U	830.	U			
83-32-9	Acenaphthene	810.	U	830.	U	830.	U			
84-66-2	Diethylphthalate	810.	U	830.	U	830.	U			
84-74-2	Di-n-butylphthalate	810.	U	830.	U	830.	U			
85-01-8	Phenanthrene	810.	U	830.	U	830.	U			
85-68-7	Butylbenzylphthalate	810.	U	830.	U	830.	U			
86-30-6	N-Nitrosodiphenylamine	810.	U	830.	U	830.	U			
86-73-7	Fluorene	810.	U	830.	U	830.	U			
87-68-3	Hexachlorobutadiene	810.	U	830.	U	830.	U			
87-86-5	Pentachlorophenol	4100.	U	4200.	U	4200.	U			
88-06-2	2,4,6-Trichlorophenol	810.	U	830.	U	830.	U			
88-74-4	2-Nitroaniline	4100.	U	4200.	U	4200.	U			
88-75-5	2-Nitrophenol	810.	U	830.	U	1600.	U			
88-85-7	Dinoseb	1600.	U	1600.	U	830.	U			
91-20-3	Naphthalene	810.	U	830.	U	830.	U			
91-57-6	2-Methylnaphthalene	810.	U	830.	U	830.	U			
91-58-7	2-Chloronaphthalene	810.	U	830.	U	830.	U			
91-94-1	3,3'-Dichlorobenzidine	1600.	U	1600.	U	1600.	U			
95-48-7	2-Methylphenol (o-Cresol)	810.	U	830.	U	830.	U			
95-50-1	1,2-Dichlorobenzene	810.	U	830.	U	830.	U			
95-57-8	2-Chlorophenol	810.	U	830.	U	830.	U			
95-76-1	3,4-Dichloroaniline	1600.	U	1600.	U	1600.	U			
95-95-4	2,4,5-Trichlorophenol	810.	U	830.	U	830.	U			
98-95-3	Nitrobenzene	810.	U	830.	U	830.	U			
99-09-2	3-Nitroaniline	4100.	U	4200.	U	4200.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE I SUBSURFACE SOIL DATA

VOA																	
	SHORT ID --------->	IMSB-1 (1-3')		IMSB-1 (3-8')		IMSB-2 (1-5')		IMSB-2 (5-10')		IMSB-2 (10-15')		IMSB-3 (1-5')	
	ORIGINAL ID ----->	IM-SB-01-1		IM-SB-01-2		IM-SB-02-1		IM-SB-02-2		IM-SB-02-3		IM-SB-03-1	
	SAMPLE DATE ----->	04/08/93		04/08/93		04/08/93		04/08/93		04/08/93		04/09/93	
	DATE ANALYZED --->	04/15/93		04/15/93		04/15/93		04/15/93		04/22/93		04/15/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
100-41-4	Ethylbenzene	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
100-42-5	Styrene	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
107-06-2	1,2-Dichloroethane	6.	U	6.	U	7.	U	7.	U	10.		6.	U
108-05-4	Vinyl acetate	60.	U	62.	U	65.	U	65.	U	68.	U	61.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	60.	U	62.	U	65.	U	65.	U	68.	U	61.	U
108-88-3	Toluene	6.	U	6.	U	7.	U	9.		7.	U	6.	U
108-90-7	Chlorobenzene	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
124-48-1	Dibromochloromethane	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
127-18-4	Tetrachloroethene	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
1330-20-7	Xylene (total)	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
56-23-5	Carbon tetrachloride	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
591-78-6	2-Hexanone	60.	U	62.	U	65.	U	65.	U	68.	U	61.	U
67-64-1	Acetone	120.	U	200.		240.		320.		140.	U	120.	U
67-66-3	Chloroform	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
71-43-2	Benzene	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
74-83-9	Bromomethane	12.	U	12.	U	13.	U	13.	U	14.	U	12.	U
74-87-3	Chloromethane	12.	U	12.	U	13.	U	13.	U	14.	U	12.	U
75-00-3	Chloroethane	12.	U	12.	U	13.	U	13.	U	14.	U	12.	U
75-01-4	Vinyl chloride	12.	U	12.	U	13.	U	13.	U	14.	U	12.	U
75-09-2	Methylene chloride	6.	U	6.	U	7.	U	7.	U	66.		6.	U
75-15-0	Carbon disulfide	120.	U	120.	U	130.	U	130.	U	140.	U	120.	U
75-25-2	Bromoform	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
75-27-4	Bromodichloromethane	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
75-34-3	1,1-Dichloroethane	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
75-35-4	1,1-Dichloroethene	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
78-87-5	1,2-Dichloropropane	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
78-93-3	2-Butanone (MEK)	120.	U	120.	U	130.	U	130.	U	140.	U	120.	U
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
79-01-6	Trichloroethene	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	7.	U	7.	U	7.	U	6.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE I SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	IMSB-3 (5-10')		IMSB-4 (1-5')		IMSB-4 (5-10')		IMSB-5 (1-5')		IMSB-5 (5-10')	
	ORIGINAL ID ----->	IM-SB-03-2		IM-SB-04-1		IM-SB-04-2		IM-SB-05-1		IM-SB-05-2	
	SAMPLE DATE ----->	04/09/93		04/09/93		04/09/93		04/09/93		04/09/93	
	DATE ANALYZED --->	04/15/93		04/15/93		04/15/93		04/15/93		04/15/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
100-41-4	Ethylbenzene	6.	U	6.	U	6.	U	6.	U	6.	U
100-42-5	Styrene	6.	U	6.	U	6.	U	6.	U	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U	6.	U
107-06-2	1,2-Dichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U
108-05-4	Vinyl acetate	62.	U	60.	U	63.	U	62.	U	65.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	62.	U	60.	U	63.	U	62.	U	65.	U
108-88-3	Toluene	6.	U	6.	U	6.	U	6.	U	6.	U
108-90-7	Chlorobenzene	6.	U	6.	U	6.	U	6.	U	6.	U
124-48-1	Dibromochloromethane	6.	U	6.	U	6.	U	6.	U	6.	U
127-18-4	Tetrachloroethene	6.	U	6.	U	6.	U	6.	U	6.	U
1330-20-7	Xylene (total)	6.	U	6.	U	6.	U	6.	U	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	6.	U	6.	U	6.	U
56-23-5	Carbon tetrachloride	6.	U	6.	U	6.	U	6.	U	6.	U
591-78-6	2-Hexanone	62.	U	60.	U	63.	U	62.	U	65.	U
67-64-1	Acetone	120.	U	120.	U	130.	U	120.	U	130.	U
67-66-3	Chloroform	6.	U	6.	U	6.	U	6.	U	6.	U
71-43-2	Benzene	6.	U	6.	U	6.	U	6.	U	6.	U
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U
74-83-9	Bromomethane	12.	U	12.	U	13.	U	12.	U	13.	U
74-87-3	Chloromethane	12.	U	12.	U	13.	U	12.	U	13.	U
75-00-3	Chloroethane	12.	U	12.	U	13.	U	12.	U	13.	U
75-01-4	Vinyl chloride	12.	U	12.	U	13.	U	12.	U	13.	U
75-09-2	Methylene chloride	12.		6.	U	6.	U	6.	U	6.	U
75-15-0	Carbon disulfide	120.	U	120.	U	130.	U	120.	U	130.	U
75-25-2	Bromoform	6.	U	6.	U	6.	U	6.	U	6.	U
75-27-4	Bromodichloromethane	6.	U	6.	U	6.	U	6.	U	6.	U
75-34-3	1,1-Dichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U
75-35-4	1,1-Dichloroethene	6.	U	6.	U	6.	U	6.	U	6.	U
78-87-5	1,2-Dichloropropane	6.	U	6.	U	6.	U	6.	U	6.	U
78-93-3	2-Butanone (MEK)	120.	U	120.	U	130.	U	120.	U	130.	U
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U
79-01-6	Trichloroethene	6.	U	6.	U	6.	U	6.	U	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	6.	U	6.	U	6.	U

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SURFACE SOIL DATA

ARSENIC	SHORT ID --------->	2MW-5 (0-1')		2MW-7 (0-5')		2HA-10 (0-1')		2SB-13 (0-2')			
	ORIGINAL ID ----->	002S000501		002S000701		002S001001		002S001301			
	SAMPLE DATE ----->	11/30/94		12/09/94		11/30/94		12/06/94			
	DATE EXTRACTED -->	12/02/94		12/14/94		12/02/94		12/14/94			
	DATE ANALYZED --->	12/03/94		12/15/94		12/03/94		12/15/94			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG			
CAS #	Parameter	10834	VAL	11008	VAL	10834	VAL	11008	VAL		
7440-38-2	Arsenic (As)	0.2	U	5.	U	0.2	U	5.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SURFACE SOIL DATA

CATION EXC							
SHORT ID --------->	2MW-5 (0-1')		2MA-10 (0-1')				
ORIGINAL ID ------>	002S000501		002S001001				
SAMPLE DATE ------>	11/30/94		11/30/94				
DATE EXTRACTED -->	12/06/94		12/06/94				
DATE ANALYZED --->	12/08/94		12/08/94				
MATRIX ----------->	Soil		Soil				
UNITS ------------>	MEQ/1		MEQ/1				
CAS # Parameter	10834	VAL	10834	VAL			
9999900-02-6 Cation-Exchange Capacity	14.		14.				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SURFACE SOIL DATA

CHLORIDE							
	SHORT ID --------->	2MW-5 (0-1')		2MA-10 (0-1')			
	ORIGINAL ID ------>	002S000501		002S001001			
	SAMPLE DATE ------>	11/30/94		11/30/94			
	DATE EXTRACTED --->	12/02/94		12/02/94			
	DATE ANALYZED ---->	12/02/94		12/02/94			
	MATRIX ----------->	Soil		Soil			
	UNITS ------------>	MG/KG		MG/KG			
CAS #	Parameter	10834	VAL	10834	VAL		
16887-00-6	Chloride	82.		5.1			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SURFACE SOIL DATA

PEST	SHORT ID --------->	2MW-5 (0-1')		2MW-7 (0-5')		2MA-10 (0-1')		2SB-13 (0-2')			
	ORIGINAL ID ----->	002S000501		002S000701		002S001001		002S001301			
	SAMPLE DATE ----->	11/30/94		12/09/94		11/30/94		12/06/94			
	DATE EXTRACTED -->	12/03/94		12/12/94		12/03/94		12/12/94			
	DATE ANALYZED --->	12/05/94		12/15/94		12/05/94		12/15/94			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	10834	VAL	11008	VAL	10834	VAL	11008	VAL		
319-84-6	Alpha-BHC	2.	U	2.	U	2.	U	2.	U		
319-85-7	Beta-BHC	4.	U	4.	U	4.	U	4.	U		
319-86-8	Delta-BHC	6.	U	6.	U	6.	U	6.	U		
58-89-9	gamma-BHC (Lindane)	0.0002	U	2.7	U	0.0002	U	2.7	U		
76-44-8	Heptachlor	2.	U	2.	U	2.	U	2.	U		
309-00-2	Aldrin	58.		2.7	U	2.7	U	2.7	U		
1024-57-3	Heptachlor Epoxide	56.	U	56.	U	56.	U	56.	U		
959-98-8	Endosulfan I	9.4	U	9.4	U	9.4	U	9.4	U		
60-57-1	Dieldrin	1.3	U	1.3	U	1.3	U	1.3	U		
72-55-9	4,4'-DDE	2.7	U	2.7	U	2.7	U	2.7	U		
72-20-8	Endrin	4.	U	4.	U	4.	U	4.	U		
33213-65-9	Endosulfan II	2.7	U	2.7	U	2.7	U	2.7	U		
72-54-8	4,4'-DDD	7.	U	7.	U	7.	U	7.	U		
7421-93-4	Endrin aldehyde	15.	U	15.	U	15.	U	15.	U		
1031-07-8	Endosulfan Sulfate	44.	U	44.	U	44.	U	44.	U		
50-29-3	4,4'-DDT	190.		8.	U	8.	U	8.	U		
72-43-5	Methoxychlor	15000.		180.		1200.		260.			
57-74-9	Chlordane	9.4	U	9.4	U	9.4	U	9.4	U		
8001-35-2	Toxaphene	160.	U	160.	U	160.	U	160.	U		
12674-11-2	Aroclor-1016	60.	U	60.	U	60.	U	60.	U		
11104-28-2	Aroclor-1221	180.	U	180.	U	180.	U	180.	U		
11141-16-5	Aroclor-1232	32.	U	32.	U	32.	U	32.	U		
53469-21-9	Aroclor-1242	44.	U	44.	U	44.	U	44.	U		
12672-29-6	Aroclor-1248	170.	U	170.	U	170.	U	170.	U		
11097-69-1	Aroclor-1254	80.	U	80.	U	80.	U	80.	U		
11096-82-5	Aroclor-1260	24.	U	24.	U	24.	U	24.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SURFACE SOIL DATA

SOIL PH							
	SHORT ID --------->	2MW-5 (0-1')	2HA-10 (0-1')				
	ORIGINAL ID ----->	002S000501	002S001001				
	SAMPLE DATE ----->	11/30/94	11/30/94				
	DATE EXTRACTED -->	12/05/94	12/05/94				
	DATE ANALYZED --->	12/05/94	12/05/94				
	MATRIX ---------->	Soil	Soil				
	UNITS ----------->	UNITS	UNITS				
CAS #	Parameter	10834 VAL	10834 VAL				
9999900-02-7	pH	7.6	7.7				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SURFACE SOIL DATA

SULFATE	SHORT ID --------->	2MW-5 (0-1')	2HA-10 (0-1')				
	ORIGINAL ID ----->	002S000501	002S001001				
	SAMPLE DATE ----->	11/30/94	11/30/94				
	DATE EXTRACTED -->	12/02/94	12/02/94				
	DATE ANALYZED --->	12/02/94	12/02/94				
	MATRIX ---------->	Soil	Soil				
	UNITS ----------->	MG/KG	MG/KG				

CAS #	Parameter	10834 VAL	10834 VAL				
14808-79-8	Sulfate	190.	34.				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	2MW-5 (0-1')		2MW-7 (0-5')		2HA-10 (0-1')		2SB-13 (0-2')			
	ORIGINAL ID ----->	002S000501		002S000701		002S001001		002S001301			
	SAMPLE DATE ----->	11/30/94		12/09/94		11/30/94		12/06/94			
	DATE EXTRACTED -->	12/02/94		12/13/94		12/02/94		12/12/94			
	DATE ANALYZED --->	12/08/94		12/16/94		12/07/94		12/14/94			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	10834	VAL	11008	VAL	10834	VAL	11008	VAL		
108-95-2	Phenol	660.	U	660.	U	660.	U	660.	U		
111-44-4	bis(2-Chloroethyl)ether	660.	U	660.	U	660.	U	660.	U		
95-57-8	2-Chlorophenol	660.	U	660.	U	660.	U	660.	U		
541-73-1	1,3-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U		
106-46-7	1,4-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U		
100-51-6	Benzyl alcohol	1300.	U	1300.	U	1300.	U	1300.	U		
95-50-1	1,2-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U		
95-48-7	2-Methylphenol (o-Cresol)	660.	U	660.	U	660.	U	660.	U		
108-60-1	bis(2-chloroisopropyl) ether	660.	U	660.	U	660.	U	660.	U		
106-44-5	4-Methylphenol (p-Cresol)	660.	U	660.	U	660.	U	660.	U		
621-64-7	N-Nitroso-di-n-propylamine	660.	U	660.	U	660.	U	660.	U		
67-72-1	Hexachloroethane	660.	U	660.	U	660.	U	660.	U		
98-95-3	Nitrobenzene	660.	U	660.	U	660.	U	660.	U		
78-59-1	Isophorone	660.	U	660.	U	660.	U	660.	U		
88-75-5	2-Nitrophenol	660.	U	660.	U	660.	U	660.	U		
105-67-9	2,4-Dimethylphenol	660.	U	660.	U	660.	U	660.	U		
111-91-1	bis(2-Chloroethoxy)methane	660.	U	660.	U	660.	U	660.	U		
120-83-2	2,4-Dichlorophenol	660.	U	660.	U	660.	U	660.	U		
120-82-1	1,2,4-Trichlorobenzene	660.	U	660.	U	660.	U	660.	U		
91-20-3	Naphthalene	660.	U	660.	U	660.	U	660.	U		
87-68-3	Hexachlorobutadiene	660.	U	660.	U	660.	U	660.	U		
59-50-7	4-Chloro-3-methylphenol	1300.	U	1300.	U	1300.	U	1300.	U		
91-57-6	2-Methylnaphthalene	660.	U	660.	U	660.	U	660.	U		
77-47-4	Hexachlorocyclopentadiene	660.	U	660.	U	660.	U	660.	U		
88-06-2	2,4,6-Trichlorophenol	660.	U	660.	U	660.	U	660.	U		
95-95-4	2,4,5-Trichlorophenol	660.	U	660.	U	660.	U	660.	U		
91-58-7	2-Chloronaphthalene	660.	U	660.	U	660.	U	660.	U		
88-74-4	2-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U		
131-11-3	Dimethylphthalate	660.	U	660.	U	660.	U	660.	U		
208-96-8	Acenaphthylene	660.	U	660.	U	660.	U	660.	U		
99-09-2	3-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U		
83-32-9	Acenaphthene	660.	U	660.	U	660.	U	660.	U		
51-28-5	2,4-Dinitrophenol	3300.	U	3300.	U	3300.	U	3300.	U		
100-02-7	4-Nitrophenol	3300.	U	3300.	U	3300.	U	3300.	U		
132-64-9	Dibenzofuran	660.	U	660.	U	660.	U	660.	U		
121-14-2	2,4-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U		
606-20-2	2,6-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U		
84-66-2	Diethylphthalate	660.	U	660.	U	660.	U	660.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	2MW-5 (0-1')		2MW-7 (0-5')		2MA-10 (0-1')		2SB-13 (0-2')			
	ORIGINAL ID ----->	002S000501		002S000701		002S001001		002S001301			
	SAMPLE DATE ----->	11/30/94		12/09/94		11/30/94		12/06/94			
	DATE EXTRACTED -->	12/02/94		12/13/94		12/02/94		12/12/94			
	DATE ANALYZED --->	12/08/94		12/16/94		12/07/94		12/14/94			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	10834	VAL	11008	VAL	10834	VAL	11008	VAL		
7005-72-3	4-Chlorophenyl-phenylether	660.	U	660.	U	660.	U	660.	U		
86-73-7	Fluorene	660.	U	660.	U	660.	U	660.	U		
100-01-6	4-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U		
534-52-1	4,6-Dinitro-2-methylphenol	3300.	U	3300.	U	3300.	U	3300.	U		
86-30-6	N-Nitrosodiphenylamine	660.	U	660.	U	660.	U	660.	U		
101-55-3	4-Bromophenyl-phenylether	660.	U	660.	U	660.	U	660.	U		
118-74-1	Hexachlorobenzene	660.	U	660.	U	660.	U	660.	U		
87-86-5	Pentachlorophenol	3300.	U	3300.	U	3300.	U	3300.	U		
85-01-8	Phenanthrene	660.	U	660.	U	660.	U	660.	U		
120-12-7	Anthracene	660.	U	660.	U	660.	U	660.	U		
206-44-0	Fluoranthene	660.	U	660.	U	660.	U	660.	U		
129-00-0	Pyrene	660.	U	660.	U	660.	U	660.	U		
85-68-7	Butylbenzylphthalate	660.	U	660.	U	660.	U	660.	U		
91-94-1	3,3'-Dichlorobenzidine	1300.	U	1300.	U	1300.	U	1300.	U		
56-55-3	Benzo(a)anthracene	660.	U	660.	U	660.	U	660.	U		
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	660.	U	660.	U	660.	U	660.	U		
218-01-9	Chrysene	660.	U	660.	U	660.	U	660.	U		
117-84-0	Di-n-octylphthalate	660.	U	660.	U	660.	U	660.	U		
205-99-2	Benzo(b)fluoranthene	660.	U	660.	U	660.	U	660.	U		
207-08-9	Benzo(k)fluoranthene	660.	U	660.	U	660.	U	660.	U		
50-32-8	Benzo(a)pyrene	660.	U	660.	U	660.	U	660.	U		
193-39-5	Indeno(1,2,3-cd)pyrene	660.	U	660.	U	660.	U	660.	U		
53-70-3	Dibenz(a,h)anthracene	660.	U	660.	U	660.	U	660.	U		
191-24-2	Benzo(g,h,i)perylene	660.	U	660.	U	660.	U	660.	U		
88-85-7	Dinoseb	100000.		462.	U	462.	U	462.	U		
65-85-0	Benzoic acid	3300.	U	3300.	U	3300.	U	3300.	U		
106-47-8	4-Chloroaniline	1300.	U	1300.	U	1300.	U	1300.	U		
84-74-2	Di-n-butylphthalate	660.	U	660.	U	660.	U	660.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SURFACE SOIL DATA

VOA	SHORT ID --------->	2MW-5 (0-1')		2MW-7 (0-5')		2MA-10 (0-1')		2SB-13 (0-2')			
	ORIGINAL ID ------>	002S000501		002S000701		002S001001		002S001301			
	SAMPLE DATE ------>	11/30/94		12/09/94		11/30/94		12/06/94			
	DATE EXTRACTED -->	12/04/94		12/20/94		12/04/94		12/11/94			
	DATE ANALYZED ---->	12/02/94		12/20/94		12/02/94		12/11/94			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	10834	VAL	11008	VAL	10834	VAL	11008	VAL		
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U		
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U		
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U		
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U		
75-09-2	Methylene chloride	20.	U	20.	U	20.	U	20.	U		
67-64-1	Acetone	200.		100.	U	1900.		100.	U		
75-15-0	Carbon disulfide	100.	U	100.	U	100.	U	100.	U		
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U		
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U		
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U		
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U		
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	5.	U		
78-93-3	2-Butanone (MEK)	100.	U	100.	U	100.	U	100.	U		
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U		
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U		
108-05-4	Vinyl acetate	50.	U	50.	U	50.	U	50.	U		
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U		
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U		
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U		
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U		
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U		
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U		
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U		
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U		
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U		
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U		
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U		
591-78-6	2-Hexanone	50.	U	50.	U	50.	U	50.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U	50.	U	50.	U		
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U		
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U		
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U		
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U		
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U		
1330-20-7	Xylene (total)	5.	U	5.	U	5.	U	5.	U		

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SUBSURFACE SOIL DATA

ARSENIC	SHORT ID --------->	2MW-7 (5-10')	2MW-7 (20-25')	2SB-13 (8-10')	2SB-13 (10-12')		
	ORIGINAL ID ----->	002S000702	002S000705	002S001305	002S001306		
	SAMPLE DATE ----->	12/09/94	12/09/94	12/06/94	12/06/94		
	DATE EXTRACTED -->	12/14/94	12/14/94	12/14/94	12/14/94		
	DATE ANALYZED --->	12/15/94	12/15/94	12/15/94	12/15/94		
	MATRIX ---------->	Soil	Soil	Soil	Soil		
	UNITS ---------->	MG/KG	MG/KG	MG/KG	MG/KG		

CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL		
7440-38-2	Arsenic (As)	5.	U	5.	U	5.	U	5.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	2MW-7 (5-10')		2MW-7 (20-25')		2SB-13 (8-10')		2SB-13 (10-12')			
	ORIGINAL ID ----->	002S000702		002S000705		002S001305		002S001306			
	SAMPLE DATE ----->	12/09/94		12/09/94		12/06/94		12/06/94			
	DATE EXTRACTED -->	12/12/94		12/12/94		12/12/94		12/12/94			
	DATE ANALYZED --->	12/15/94		12/15/94		12/15/94		12/15/94			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL		
319-84-6	Alpha-BHC	2.	U	2.	U	2.	U	2.	U		
319-85-7	Beta-BHC	4.	U	4.	U	4.	U	4.	U		
319-86-8	Delta-BHC	6.	U	6.	U	6.	U	6.	U		
58-89-9	gamma-BHC (Lindane)	2.7	U	2.7	U	2.7	U	2.7	U		
76-44-8	Heptachlor	2.	U	2.	U	2.	U	2.	U		
309-00-2	Aldrin	2.7	U	2.7	U	2.7	U	2.7	U		
1024-57-3	Heptachlor Epoxide	56.	U	56.	U	56.	U	56.	U		
959-98-8	Endosulfan I	9.4	U	9.4	U	9.4	U	9.4	U		
60-57-1	Dieldrin	1.3	U	1.3	U	1.3	U	1.3	U		
72-55-9	4,4'-DDE	2.7	U	2.7	U	2.7	U	2.7	U		
72-20-8	Endrin	4.	U	4.	U	4.	U	4.	U		
33213-65-9	Endosulfan II	2.7	U	2.7	U	2.7	U	2.7	U		
72-54-8	4,4'-DDD	49.		7.	U	7.	U	7.	U		
7421-93-4	Endrin aldehyde	15.	U	15.	U	15.	U	15.	U		
1031-07-8	Endosulfan Sulfate	44.	U	44.	U	44.	U	44.	U		
50-29-3	4,4'-DDT	8.	U	8.	U	8.	U	8.	U		
72-43-5	Methoxychlor	280000.		120.	U	120.	U	120.	U		
57-74-9	Chlordane	9.4	U	9.4	U	9.4	U	9.4	U		
8001-35-2	Toxaphene	160.	U	160.	U	160.	U	160.	U		
12674-11-2	Aroclor-1016	60.	U	60.	U	60.	U	60.	U		
11104-28-2	Aroclor-1221	180.	U	180.	U	180.	U	180.	U		
11141-16-5	Aroclor-1232	32.	U	32.	U	32.	U	32.	U		
53469-21-9	Aroclor-1242	44.	U	44.	U	44.	U	44.	U		
12672-29-6	Aroclor-1248	170.	U	170.	U	170.	U	170.	U		
11097-69-1	Aroclor-1254	80.	U	80.	U	80.	U	80.	U		
11096-82-5	Aroclor-1260	24.	U	24.	U	24.	U	24.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	2MW-7 (5-10')		2MW-7 (20-25')		2SB-13 (8-10')		2SB-13 (10-12')			
	ORIGINAL ID ----->	002S000702		002S000705		002S001305		002S001306			
	SAMPLE DATE ----->	12/09/94		12/09/94		12/06/94		12/06/94			
	DATE EXTRACTED -->	12/13/94		12/13/94		12/12/94		12/12/94			
	DATE ANALYZED --->	12/16/94		12/16/94		12/14/94		12/14/94			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL		
108-95-2	Phenol	660.	U	660.	U	660.	U	660.	U		
111-44-4	bis(2-Chloroethyl)ether	660.	U	660.	U	660.	U	660.	U		
95-57-8	2-Chlorophenol	660.	U	660.	U	660.	U	660.	U		
541-73-1	1,3-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U		
106-46-7	1,4-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U		
100-51-6	Benzyl alcohol	1300.	U	1300.	U	1300.	U	1300.	U		
95-50-1	1,2-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U		
95-48-7	2-Methylphenol (o-Cresol)	660.	U	660.	U	660.	U	660.	U		
108-60-1	bis(2-chloroisopropyl) ether	660.	U	660.	U	660.	U	660.	U		
106-44-5	4-Methylphenol (p-Cresol)	660.	U	660.	U	660.	U	660.	U		
621-64-7	N-Nitroso-di-n-propylamine	660.	U	660.	U	660.	U	660.	U		
67-72-1	Hexachloroethane	660.	U	660.	U	660.	U	660.	U		
98-95-3	Nitrobenzene	660.	U	660.	U	660.	U	660.	U		
78-59-1	Isophorone	660.	U	660.	U	660.	U	660.	U		
88-75-5	2-Nitrophenol	660.	U	660.	U	660.	U	660.	U		
105-67-9	2,4-Dimethylphenol	660.	U	660.	U	660.	U	660.	U		
111-91-1	bis(2-Chloroethoxy)methane	660.	U	660.	U	660.	U	660.	U		
120-83-2	2,4-Dichlorophenol	660.	U	660.	U	660.	U	660.	U		
120-82-1	1,2,4-Trichlorobenzene	660.	U	660.	U	660.	U	660.	U		
91-20-3	Naphthalene	660.	U	660.	U	660.	U	660.	U		
87-68-3	Hexachlorobutadiene	660.	U	660.	U	660.	U	660.	U		
59-50-7	4-Chloro-3-methylphenol	1300.	U	1300.	U	1300.	U	1300.	U		
91-57-6	2-Methylnaphthalene	660.	U	660.	U	660.	U	660.	U		
77-47-4	Hexachlorocyclopentadiene	660.	U	660.	U	660.	U	660.	U		
88-06-2	2,4,6-Trichlorophenol	660.	U	660.	U	660.	U	660.	U		
95-95-4	2,4,5-Trichlorophenol	660.	U	660.	U	660.	U	660.	U		
91-58-7	2-Chloronaphthalene	660.	U	660.	U	660.	U	660.	U		
88-74-4	2-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U		
131-11-3	Dimethylphthalate	660.	U	660.	U	660.	U	660.	U		
208-96-8	Acenaphthylene	660.	U	660.	U	660.	U	660.	U		
99-09-2	3-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U		
83-32-9	Acenaphthene	660.	U	660.	U	660.	U	660.	U		
51-28-5	2,4-Dinitrophenol	3300.	U	3300.	U	3300.	U	3300.	U		
100-02-7	4-Nitrophenol	3300.	U	3300.	U	3300.	U	3300.	U		
132-64-9	Dibenzofuran	660.	U	660.	U	660.	U	660.	U		
121-14-2	2,4-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U		
606-20-2	2,6-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U		
84-66-2	Diethylphthalate	660.	U	660.	U	660.	U	660.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	2MW-7 (5-10')		2MW-7 (20-25')		2SB-13 (8-10')		2SB-13 (10-12')			
	ORIGINAL ID ----->	002S000702		002S000705		002S001305		002S001306			
	SAMPLE DATE ----->	12/09/94		12/09/94		12/06/94		12/06/94			
	DATE EXTRACTED -->	12/13/94		12/13/94		12/12/94		12/12/94			
	DATE ANALYZED --->	12/16/94		12/16/94		12/14/94		12/14/94			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL		
7005-72-3	4-Chlorophenyl-phenylether	660.	U	660.	U	660.	U	660.	U		
86-73-7	Fluorene	660.	U	660.	U	660.	U	660.	U		
100-01-6	4-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U		
534-52-1	4,6-Dinitro-2-methylphenol	3300.	U	3300.	U	3300.	U	3300.	U		
86-30-6	N-Nitrosodiphenylamine	660.	U	660.	U	660.	U	660.	U		
101-55-3	4-Bromophenyl-phenylether	660.	U	660.	U	660.	U	660.	U		
118-74-1	Hexachlorobenzene	660.	U	660.	U	660.	U	660.	U		
87-86-5	Pentachlorophenol	3300.	U	3300.	U	3300.	U	3300.	U		
85-01-8	Phenanthrene	660.	U	660.	U	660.	U	660.	U		
120-12-7	Anthracene	660.	U	660.	U	660.	U	660.	U		
206-44-0	Fluoranthene	660.	U	660.	U	660.	U	660.	U		
129-00-0	Pyrene	660.	U	660.	U	660.	U	660.	U		
85-68-7	Butylbenzylphthalate	660.	U	660.	U	660.	U	660.	U		
91-94-1	3,3'-Dichlorobenzidine	1300.	U	1300.	U	1300.	U	1300.	U		
56-55-3	Benzo(a)anthracene	660.	U	660.	U	660.	U	660.	U		
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	660.	U	660.	U	660.	U	660.	U		
218-01-9	Chrysene	660.	U	660.	U	660.	U	660.	U		
117-84-0	Di-n-octylphthalate	660.	U	660.	U	660.	U	660.	U		
205-99-2	Benzo(b)fluoranthene	660.	U	660.	U	660.	U	660.	U		
207-08-9	Benzo(k)fluoranthene	660.	U	660.	U	660.	U	660.	U		
50-32-8	Benzo(a)pyrene	660.	U	660.	U	660.	U	660.	U		
193-39-5	Indeno(1,2,3-cd)pyrene	660.	U	660.	U	660.	U	660.	U		
53-70-3	Dibenz(a,h)anthracene	660.	U	660.	U	660.	U	660.	U		
191-24-2	Benzo(g,h,i)perylene	660.	U	660.	U	660.	U	660.	U		
88-85-7	Dinoseb	462.	U	462.	U	580.		462.	U		
65-85-0	Benzoic acid	3300.	U	3300.	U	3300.	U	3300.	U		
106-47-8	4-Chloroaniline	1300.	U	1300.	U	1300.	U	1300.	U		
84-74-2	Di-n-butylphthalate	660.	U	660.	U	660.	U	660.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 2 PHASE II SUBSURFACE SOIL DATA

VOA													
	SHORT ID --------->	2MW-7 (5-10')		2MW-7 (20-25')		2SB-13 (8-10')		2SB-13 (10-12')					
	ORIGINAL ID ----->	002S000702		002S000705		002S001305		002S001306					
	SAMPLE DATE ----->	12/09/94		12/09/94		12/06/94		12/06/94					
	DATE EXTRACTED -->	12/20/94		12/20/94		12/11/94		12/13/94					
	DATE ANALYZED --->	12/20/94		12/20/94		12/11/94		12/12/94					
	MATRIX ---------->	Soil		Soil		Soil		Soil					
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG					
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL				
74-87-3	Chloromethane	10.	U	10.	U	46.	U	50.	U				
74-83-9	Bromomethane	10.	U	10.	U	46.	U	50.	U				
75-01-4	Vinyl chloride	10.	U	10.	U	46.	U	50.	U				
75-00-3	Chloroethane	10.	U	10.	U	46.	U	50.	U				
75-09-2	Methylene chloride	20.	U	20.	U	4000.		3600.					
67-64-1	Acetone	840.		1200.		820.		1600.					
75-15-0	Carbon disulfide	100.	U	100.	U	460.	U	500.	U				
75-35-4	1,1-Dichloroethene	5.	U	5.	U	23.	U	25.	U				
75-34-3	1,1-Dichloroethane	5.	U	5.	U	23.	U	25.	U				
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	23.	U	25.	U				
67-66-3	Chloroform	5.	U	5.	U	23.	U	25.	U				
107-06-2	1,2-Dichloroethane	5.	U	5.	U	810.		740.					
78-93-3	2-Butanone (MEK)	100.	U	100.	U	460.	U	500.	U				
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	23.	U	25.	U				
56-23-5	Carbon tetrachloride	5.	U	5.	U	23.	U	25.	U				
108-05-4	Vinyl acetate	50.	U	50.	U	230.	U	250.	U				
75-27-4	Bromodichloromethane	5.	U	5.	U	23.	U	25.	U				
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	23.	U	25.	U				
78-87-5	1,2-Dichloropropane	5.	U	5.	U	23.	U	25.	U				
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	23.	U	25.	U				
79-01-6	Trichloroethene	5.	U	5.	U	23.	U	25.	U				
124-48-1	Dibromochloromethane	5.	U	5.	U	23.	U	25.	U				
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	23.	U	25.	U				
71-43-2	Benzene	5.	U	5.	U	23.	U	25.	U				
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	23.	U	25.	U				
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	46.	U	50.	U				
75-25-2	Bromoform	5.	U	5.	U	23.	U	25.	U				
591-78-6	2-Hexanone	50.	U	50.	U	230.	U	250.	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U	230.	U	250.	U				
127-18-4	Tetrachloroethene	5.	U	5.	U	23.	U	25.	U				
108-88-3	Toluene	5.	U	5.	U	23.	U	25.	U				
108-90-7	Chlorobenzene	5.	U	5.	U	24.		30.					
100-41-4	Ethylbenzene	5.	U	5.	U	23.	U	25.	U				
100-42-5	Styrene	5.	U	5.	U	23.	U	25.	U				
1330-20-7	Xylene (total)	5.	U	5.	U	38.		25.	U				

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
CEDAR CHEMICAL - PHASE 3 DATA
SITE 2 PHASE III SURFACE SOIL DATA

PEST	SHORT ID --------->	2SB-14 (8-10')		2SB-15 (8-10')					
	ORIGINAL ID ----->	002S001405		002S001505					
	SAMPLE DATE ----->	09/29/95		09/29/95					
	DATE EXTRACTED -->	10/04/95		10/04/95					
	DATE ANALYZED --->	10/09/95		10/09/95					
	MATRIX ---------->	Soil		Soil					
	UNITS ----------->	UG/KG		UG/KG					
CAS #	Parameter	G114-5	VAL	G114-5	VAL				
319-84-6	Alpha-BHC	4.1	U	4.2	U				
319-85-7	Beta-BHC	4.1	U	4.2	U				
319-86-8	Delta-BHC	4.1	U	4.2	U				
58-89-9	gamma-BHC (Lindane)	4.1	U	4.2	U				
76-44-8	Heptachlor	4.1	U	4.2	U				
309-00-2	Aldrin	4.1	U	16.					
1024-57-3	Heptachlor Epoxide	4.1	U	4.2	U				
959-98-8	Endosulfan I	4.1	U	4.2	U				
60-57-1	Dieldrin	4.1	U	9.5					
72-55-9	4,4'-DDE	4.1	U	4.2	U				
72-20-8	Endrin	4.1	U	4.2	U				
72-54-8	4,4'-DDD	4.1	U	4.2	U				
33213-65-9	Endosulfan II	20.	U	21.	U				
50-29-3	4,4'-DDT	4.1	U	11.					
72-43-5	Methoxychlor	20.	U	21.	U				
8001-35-2	Toxaphene	41.	U	42.	U				
57-74-9	Chlordane	41.	U	42.	U				
7421-93-4	Endrin aldehyde	4.1	U	4.2	U				
1031-07-8	Endosulfan Sulfate	4.1	U	17.					
53494-70-5	Endrin ketone	4.1	U	6.4					

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
CEDAR CHEMICAL - PHASE 3 DATA
SITE 2 PHASE III SUBSURFACE SOIL DATA

PEST								
	SHORT ID --------->	2SB-14 (8-10')		2SB-15 (8-10')				
	ORIGINAL ID ----->	002S001405		002S001505				
	SAMPLE DATE ----->	09/29/95		09/29/95				
	DATE EXTRACTED -->	10/04/95		10/04/95				
	DATE ANALYZED --->	10/09/95		10/09/95				
	MATRIX ---------->	Soil		Soil				
	UNITS ---------->	UG/KG		UG/KG				
CAS #	Parameter	G114-5	VAL	G114-5	VAL			
319-84-6	Alpha-BHC	4.1	U	4.2	U			
319-85-7	Beta-BHC	4.1	U	4.2	U			
319-86-8	Delta-BHC	4.1	U	4.2	U			
58-89-9	gamma-BHC (Lindane)	4.1	U	4.2	U			
76-44-8	Heptachlor	4.1	U	4.2	U			
309-00-2	Aldrin	4.1	U	16.				
1024-57-3	Heptachlor Epoxide	4.1	U	4.2	U			
959-98-8	Endosulfan I	4.1	U	4.2	U			
60-57-1	Dieldrin	4.1	U	9.5				
72-55-9	4,4'-DDE	4.1	U	4.2	U			
72-20-8	Endrin	4.1	U	4.2	U			
72-54-8	4,4'-DDD	4.1	U	4.2	U			
33213-65-9	Endosulfan II	20.	U	21.	U			
50-29-3	4,4'-DDT	4.1	U	11.				
72-43-5	Methoxychlor	20.	U	21.	U			
8001-35-2	Toxaphene	41.	U	42.	U			
57-74-9	Chlordane	41.	U	42.	U			
7421-93-4	Endrin aldehyde	4.1	U	4.2	U			
1031-07-8	Endosulfan Sulfate	4.1	U	17.				
53494-70-5	Endrin ketone	4.1	U	6.4				

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
CEDAR CHEMICAL - PHASE 3 DATA
SITE 2 PHASE III SURFACE SOIL DATA

PEST

SHORT ID --------->	2SB-15 (0-2')
ORIGINAL ID ------>	002S001501
SAMPLE DATE ------>	09/29/95
DATE EXTRACTED -->	10/04/95
DATE ANALYZED --->	10/09/95
MATRIX ----------->	Soil
UNITS ------------>	UG/KG

CAS #	Parameter	G114-5	VAL
319-84-6	Alpha-BHC	3.8	U
319-85-7	Beta-BHC	3.8	U
319-86-8	Delta-BHC	3.8	U
58-89-9	gamma-BHC (Lindane)	3.8	U
76-44-8	Heptachlor	3.8	U
309-00-2	Aldrin	11.	
1024-57-3	Heptachlor Epoxide	3.8	U
959-98-8	Endosulfan I	3.8	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	11.	
72-20-8	Endrin	7.	
72-54-8	4,4'-DDD	15.	
33213-65-9	Endosulfan II	19.	U
50-29-3	4,4'-DDT	20.	
72-43-5	Methoxychlor	55.	
8001-35-2	Toxaphene	38.	U
57-74-9	Chlordane	38.	U
7421-93-4	Endrin aldehyde	3.8	U
1031-07-8	Endosulfan Sulfate	3.8	U
53494-70-5	Endrin ketone	3.8	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
CEDAR CHEMICAL - PHASE 3 DATA
SITE 3 PHASE III SUBSURFACE SOIL DATA

SVOA									
	SHORT ID --------->	3SB-1 (4-6')		3SB-1 (6-12')					
	ORIGINAL ID ----->	003SSB0103		003SSB0106					
	SAMPLE DATE ----->	09/29/95		09/29/95					
	DATE EXTRACTED -->	10/02/95		10/02/95					
	DATE ANALYZED --->	10/03/95		10/12/95					
	MATRIX ---------->	Soil		Soil					
	UNITS ---------->	UG/KG		UG/KG					
CAS #	Parameter	G114-5	VAL	G114-5	VAL				
83-32-9	Acenaphthene	19000.	U	390.	U				
208-96-8	Acenaphthylene	19000.	U	390.	U				
120-12-7	Anthracene	19000.	U	390.	U				
56-55-3	Benzo(a)anthracene	19000.	U	390.	U				
50-32-8	Benzo(a)pyrene	19000.	U	390.	U				
205-99-2	Benzo(b)fluoranthene	19000.	U	390.	U				
191-24-2	Benzo(g,h,i)perylene	19000.	U	390.	U				
207-08-9	Benzo(k)fluoranthene	19000.	U	390.	U				
65-85-0	Benzoic acid	38000.	U	780.	U				
100-51-6	Benzyl alcohol	19000.	U	390.	U				
111-91-1	bis(2-Chloroethoxy)methane	19000.	U	390.	U				
111-44-4	bis(2-Chloroethyl)ether	19000.	U	390.	U				
39638-32-9	2,2'-Oxybis(2-chloro)propane	19000.	U	390.	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	19000.	U	390.	U				
101-55-3	4-Bromophenyl-phenylether	19000.	U	390.	U				
85-68-7	Butylbenzylphthalate	19000.	U	390.	U				
106-47-8	4-Chloroaniline	19000.	U	390.	U				
59-50-7	4-Chloro-3-methylphenol	19000.	U	390.	U				
91-58-7	2-Chloronaphthalene	19000.	U	390.	U				
95-57-8	2-Chlorophenol	19000.	U	390.	U				
7005-72-3	4-Chlorophenyl-phenylether	19000.	U	390.	U				
218-01-9	Chrysene	19000.	U	390.	U				
84-74-2	Di-n-butylphthalate	19000.	U	390.	U				
117-84-0	Di-n-octylphthalate	19000.	U	390.	U				
53-70-3	Dibenz(a,h)anthracene	19000.	U	390.	U				
132-64-9	Dibenzofuran	19000.	U	390.	U				
95-76-1	3,4-Dichloroaniline	19000.	U	390.	U				
95-50-1	1,2-Dichlorobenzene	19000.	U	390.	U				
541-73-1	1,3-Dichlorobenzene	19000.	U	390.	U				
106-46-7	1,4-Dichlorobenzene	19000.	U	390.	U				
91-94-1	3,3'-Dichlorobenzidine	38000.	U	780.	U				
120-83-2	2,4-Dichlorophenol	19000.	U	390.	U				
84-66-2	Diethylphthalate	19000.	U	390.	U				
105-67-9	2,4-Dimethylphenol	19000.	U	390.	U				
131-11-3	Dimethylphthalate	19000.	U	390.	U				
534-52-1	4,6-Dinitro-2-methylphenol	95000.	U	2000.	U				
51-28-5	2,4-Dinitrophenol	95000.	U	2000.	U				
121-14-2	2,4-Dinitrotoluene	19000.	U	390.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
CEDAR CHEMICAL - PHASE 3 DATA
SITE 3 PHASE III SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	3SB-1 (4-6')		3SB-1 (6-12')					
	ORIGINAL ID ----->	003SSB0103		003SSB0106					
	SAMPLE DATE ----->	09/29/95		09/29/95					
	DATE EXTRACTED -->	10/02/95		10/02/95					
	DATE ANALYZED --->	10/03/95		10/12/95					
	MATRIX ---------->	Soil		Soil					
	UNITS ----------->	UG/KG		UG/KG					
CAS #	Parameter	G114-5	VAL	G114-5	VAL				
606-20-2	2,6-Dinitrotoluene	19000.	U	390.	U				
88-85-7	Dinoseb	180000.		630.					
206-44-0	Fluoranthene	19000.	U	390.	U				
86-73-7	Fluorene	19000.	U	390.	U				
118-74-1	Hexachlorobenzene	19000.	U	390.	U				
87-68-3	Hexachlorobutadiene	19000.	U	390.	U				
77-47-4	Hexachlorocyclopentadiene	38000.	U	780.	U				
67-72-1	Hexachloroethane	19000.	U	390.	U				
193-39-5	Indeno(1,2,3-cd)pyrene	19000.	U	390.	U				
78-59-1	Isophorone	19000.	U	390.	U				
91-57-6	2-Methylnaphthalene	19000.	U	390.	U				
95-48-7	2-Methylphenol (o-Cresol)	19000.	U	390.	U				
106-44-5	4-Methylphenol (p-Cresol)	19000.	U	390.	U				
621-64-7	N-Nitroso-di-n-propylamine	19000.	U	390.	U				
86-30-6	N-Nitrosodiphenylamine	19000.	U	390.	U				
91-20-3	Naphthalene	19000.	U	390.	U				
88-74-4	2-Nitroaniline	19000.	U	390.	U				
99-09-2	3-Nitroaniline	19000.	U	390.	U				
100-01-6	4-Nitroaniline	19000.	U	390.	U				
98-95-3	Nitrobenzene	19000.	U	390.	U				
88-75-5	2-Nitrophenol	19000.	U	390.	U				
100-02-7	4-Nitrophenol	95000.	U	2000.	U				
87-86-5	Pentachlorophenol	95000.	U	2000.	U				
85-01-8	Phenanthrene	19000.	U	390.	U				
108-95-2	Phenol	19000.	U	390.	U				
709-98-8	Propanil	19000.	U	390.	U				
129-00-0	Pyrene	19000.	U	390.	U				
120-82-1	1,2,4-Trichlorobenzene	19000.	U	390.	U				
95-95-4	2,4,5-Trichlorophenol	19000.	U	390.	U				
88-06-2	2,4,6-Trichlorophenol	19000.	U	390.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 3 SEDIMENT DATA

PEST	SHORT ID --------->	3SED-1		3SED-2		3SED-3		3SED-4		3SED-5		3SED-6	
	ORIGINAL ID ----->	CED3-SED-1		CED3-SED-2		CED3-SED-3		CED3-SED-4		CED3-SED-5		CED3-SED-6	
	SAMPLE DATE ----->	09/13/93		09/13/93		09/13/93		09/13/93		09/14/93		09/14/93	
	DATE ANALYZED --->	10/06/93		10/06/93		10/06/93		10/06/93		10/06/93		10/06/93	
	MATRIX ---------->	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E010	VAL	E010	VAL	E010	VAL	E010	VAL	E010	VAL	E010	VAL
1024-57-3	Heptachlor Epoxide	690.	U	70.	U	670.	U	77.	U	210.	U	260.	U
1031-07-8	Endosulfan Sulfate	540.	U	56.	U	540.	U	61.	U	170.	U	210.	U
309-00-2	Aldrin	33.	U	3.4	U	354.		3.7	U	10.	U	13.	U
319-84-6	Alpha-BHC	25.	U	2.5	U	24.	U	2.8	U	7.7	U	9.5	U
319-85-7	Beta-BHC	50.	U	5.1	U	49.	U	5.5	U	15.	U	19.	U
319-86-8	Delta-BHC	74.	U	7.6	U	73.	U	8.3	U	23.	U	29.	U
33213-65-9	Endosulfan II	33.	U	3.4	U	33.	U	3.7	U	10.	U	13.	U
50-29-3	4,4'-DDT	99.	U	10.	U	8.		11.	U	31.	U	38.	U
5103-71-9	alpha-Chlordane	120.	U	12.	U	110.	U	13.	U	36.	U	44.	U
5103-74-2	gamma-Chlordane	120.	U	12.	U	110.	U	13.	U	36.	U	44.	U
53494-70-5	Endrin ketone	200.	U	20.	U	200.	U	22.	U	61.	U	76.	U
58-89-9	gamma-BHC (Lindane)	33.	U	3.4	U	33.	U	3.7	U	10.	U	13.	U
60-57-1	Dieldrin	17.	U	12.		3400.		2.9		57.		86.	
72-20-8	Endrin	50.	U	5.1	U	49.	U	5.5	U	15.	U	19.	U
72-43-5	Methoxychlor	3600.		260.		2400.		170.	U	460.	U	740.	
72-54-8	4,4'-DDD	91.	U	39.		89.	U	10.	U	28.	U	35.	U
72-55-9	4,4'-DDE	33.	U	6.6		33.	U	7.9		10.	U	13.	U
76-44-8	Heptachlor	25.	U	2.5	U	24.	U	2.8	U	7.7	U	9.5	U
8001-35-2	Toxaphene	2000.	U	200.	U	2000.	U	220.	U	610.	U	760.	U
959-98-8	Endosulfan I	120.	U	12.	U	110.	U	13.	U	36.	U	44.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 3 SEDIMENT DATA

PEST	SHORT ID --------->	3SED-7		3SED-8		3SED-9		3SED-10			
	ORIGINAL ID ----->	CED3-SED-7		CED3-SED-8		CED3-SED-9		CED3-SED-10			
	SAMPLE DATE ----->	09/14/93		09/14/93		09/14/93		09/16/93			
	DATE ANALYZED --->	10/06/93		10/06/93		10/06/93		10/07/93			
	MATRIX ---------->	Sediment		Sediment		Sediment		Sediment			
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E010	VAL	E010	VAL	E010	VAL	E011	VAL		
1024-57-3	Heptachlor Epoxide	330.	U	310.	U	72.	U	65.	U		
1031-07-8	Endosulfan Sulfate	260.	U	240.	U	57.	U	51.	U		
309-00-2	Aldrin	16.	U	15.	U	3.5	U	3.1	U		
319-84-6	Alpha-BHC	12.	U	11.	U	2.6	U	2.3	U		
319-85-7	Beta-BHC	24.	U	22.	U	5.2	U	4.7	U		
319-86-8	Delta-BHC	36.	U	33.	U	7.8	U	7.	U		
33213-65-9	Endosulfan II	16.	U	15.	U	3.5	U	3.1	U		
50-29-3	4,4'-DDT	48.	U	44.	U	10.	U	12.			
5103-71-9	alpha-Chlordane	56.	U	52.	U	12.	U	11.	U		
5103-74-2	gamma-Chlordane	56.	U	52.	U	12.	U	11.	U		
53494-70-5	Endrin ketone	95.	U	89.	U	21.	U	19.			
58-89-9	gamma-BHC (Lindane)	16.	U	15.	U	3.5	U	3.1	U		
60-57-1	Dieldrin	200.		34.		4.5		1.6	U		
72-20-8	Endrin	24.	U	22.	U	5.2	U	4.7	U		
72-43-5	Methoxychlor	890.		1300.		160.	U	140.	U		
72-54-8	4,4'-DDD	44.	U	41.	U	9.5	U	29.			
72-55-9	4,4'-DDE	16.	U	15.	U	3.5	U	26.			
76-44-8	Heptachlor	12.	U	11.	U	2.6	U	2.3	U		
8001-35-2	Toxaphene	950.	U	890.	U	210.	U	190.	U		
959-98-8	Endosulfan I	56.	U	52.	U	12.	U	11.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 3 SEDIMENT DATA

RCRA METAL		SHORT ID --------->	3SED-1		3SED-2		3SED-3		3SED-4		3SED-5		3SED-6	
		ORIGINAL ID ----->	CED3-SED-1		CED3-SED-2		CED3-SED-3		CED3-SED-4		CED3-SED-5		CED3-SED-6	
		SAMPLE DATE ----->	09/13/93		09/13/93		09/13/93		09/13/93		09/14/93		09/14/93	
		DATE ANALYZED --->	10/01/93		10/01/93		10/01/93		10/01/93		10/01/93		10/01/93	
		MATRIX ---------->	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
		UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter		E010	VAL	E010	VAL	E010	VAL	E010	VAL	E010	VAL	E010	VAL
7440-38-2	Arsenic (As)		6.5		6.6		4.5		3.6		7.2		12.5	
7440-39-3	Barium (Ba)		114.		138.		95.6		87.2		114.		123.	
7440-43-9	Cadmium (Cd)		0.36	U	0.38	U	0.37	U	0.41	U	0.37	U	0.35	U
7440-47-3	Chromium (Cr)		9.5		16.6		16.1		12.3		11.2		19.1	
7439-92-1	Lead (Pb)		7.4		13.9		9.5		9.		9.9		12.2	
7439-97-6	Mercury (Hg)		0.12	U	0.12	U	0.12	U	0.13	U	0.13	U	0.11	U
7782-49-2	Selenium (Se)		0.61	U	0.64	U	0.61	U	0.69	U	0.62	U	0.58	U
7440-22-4	Silver (Ag)		0.36	U	0.38	U	0.37	U	0.41	U	0.37	U	0.35	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 3 SEDIMENT DATA

RCRA METAL		SHORT ID --------->	3SED-7		3SED-8		3SED-9		3SED-10			
		ORIGINAL ID ----->	CED3-SED-7		CED3-SED-8		CED3-SED-9		CED3-SED-10			
		SAMPLE DATE ----->	09/14/93		09/14/93		09/14/93		09/16/93			
		DATE ANALYZED --->	10/01/93		10/01/93		10/01/93		10/11/93			
		MATRIX ---------->	Sediment		Sediment		Sediment		Sediment			
		UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG			
CAS #	Parameter		E010	VAL	E010	VAL	E010	VAL	E011	VAL		
7440-38-2	Arsenic (As)		6.6		9.3		222.		4.3			
7440-39-3	Barium (Ba)		143.		112.		150.		215.			
7440-43-9	Cadmium (Cd)		0.35	U	0.4	U	0.38	U	0.34	U		
7440-47-3	Chromium (Cr)		15.8		10.3		12.1		8.			
7439-92-1	Lead (Pb)		11.5		7.5		10.9		11.			
7439-97-6	Mercury (Hg)		0.11	U	0.14	U	0.13	U	0.11	U		
7782-49-2	Selenium (Se)		0.59	U	0.67	U	0.63	U	0.57	U		
7440-22-4	Silver (Ag)		0.35	U	0.4	U	0.38	U	0.34	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 3 SEDIMENT DATA

SVOA	SHORT ID --------->	3SED-1		3SED-2		3SED-3		3SED-4		3SED-5		3SED-6	
	ORIGINAL ID ----->	CED3SED-1		CED3SED-2		CED3SED-3		CED3SED-4		CED3-SED5		CED3-SED6	
	SAMPLE DATE ----->	09/13/93		09/13/93		09/13/93		09/13/93		09/14/93		09/14/93	
	DATE ANALYZED --->	10/18/93		10/18/93		10/18/93		10/18/93		10/19/93		10/19/93	
	MATRIX ---------->	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E010	VAL	E010	VAL	E010	VAL	E010	VAL	E010	VAL	E010	VAL
100-01-6	4-Nitroaniline	4100.	U	4200.	U	4100.	U	4600.	U	4300.	U	4000.	U
100-02-7	4-Nitrophenol	350.		4200.	U	4100.	U	4600.	U	4300.	U	4000.	U
100-51-6	Benzyl alcohol	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
101-55-3	4-Bromophenyl-phenylether	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
105-67-9	2,4-Dimethylphenol	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
106-44-5	4-Methylphenol (p-Cresol)	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
106-46-7	1,4-Dichlorobenzene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
106-47-8	4-Chloroaniline	830.	U	190.		500.		930.	U	850.	U	790.	U
108-60-1	bis(2-chloroisopropyl) ether	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
108-95-2	Phenol	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
111-44-4	bis(2-Chloroethyl)ether	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
111-91-1	bis(2-Chloroethoxy)methane	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
117-84-0	Di-n-octylphthalate	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
118-74-1	Hexachlorobenzene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
120-12-7	Anthracene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
120-82-1	1,2,4-Trichlorobenzene	830.	U	230.		92.		930.	U	850.	U	790.	U
120-83-2	2,4-Dichlorophenol	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
121-14-2	2,4-Dinitrotoluene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
129-00-0	Pyrene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
131-11-3	Dimethylphthalate	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
132-64-9	Dibenzofuran	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
191-24-2	Benzo(g,h,i)perylene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
193-39-5	Indeno(1,2,3-cd)pyrene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
205-99-2	Benzo(b)fluoranthene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
206-44-0	Fluoranthene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
207-08-9	Benzo(k)fluoranthene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
208-96-8	Acenaphthylene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
218-01-9	Chrysene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
50-32-8	Benzo(a)pyrene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
51-28-5	2,4-Dinitrophenol	4100.	U	4200.	U	4100.	U	4600.	U	4300.	U	4000.	U
534-52-1	4,6-Dinitro-2-methylphenol	4100.	U	4200.	U	4100.	U	4600.	U	4300.	U	4000.	U
53-70-3	Dibenz(a,h)anthracene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
541-73-1	1,3-Dichlorobenzene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
56-55-3	Benzo(a)anthracene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
59-50-7	4-Chloro-3-methylphenol	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
606-20-2	2,6-Dinitrotoluene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
621-64-7	N-Nitroso-di-n-propylamine	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
65-85-0	Benzoic acid	4100.	U	4200.	U	4100.	U	4600.	U	4300.	U	4000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 3 SEDIMENT DATA

SVOA	SHORT ID --------->	3SED-1		3SED-2		3SED-3		3SED-4		3SED-5		3SED-6	
	ORIGINAL ID ----->	CED3SED-1		CED3SED-2		CED3SED-3		CED3SED-4		CED3-SED5		CED3-SED6	
	SAMPLE DATE ----->	09/13/93		09/13/93		09/13/93		09/13/93		09/14/93		09/14/93	
	DATE ANALYZED --->	10/18/93		10/18/93		10/18/93		10/18/93		10/19/93		10/19/93	
	MATRIX ---------->	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E010	VAL	E010	VAL	E010	VAL	E010	VAL	E010	VAL	E010	VAL
67-72-1	Hexachloroethane	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
7005-72-3	4-Chlorophenyl-phenylether	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
709-98-8	Propanil	830.	U	110.		44.		930.	U	850.	U	790.	U
77-47-4	Hexachlorocyclopentadiene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
78-59-1	Isophorone	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
83-32-9	Acenaphthene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
84-66-2	Diethylphthalate	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
84-74-2	Di-n-butylphthalate	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
85-01-8	Phenanthrene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
85-68-7	Butylbenzylphthalate	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
86-30-6	N-Nitrosodiphenylamine	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
86-73-7	Fluorene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
87-68-3	Hexachlorobutadiene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
87-86-5	Pentachlorophenol	5300.		200.		4100.	U	4600.	U	4300.	U	4000.	U
88-06-2	2,4,6-Trichlorophenol	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
88-74-4	2-Nitroaniline	4100.	U	4200.	U	4100.	U	4600.	U	4300.	U	4000.	U
88-75-5	2-Nitrophenol	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
88-85-7	Dinoseb	6300.	U	4200.	U	4100.	U	4600.	U	1700.	U	4000.	U
91-20-3	Naphthalene	830.	U	850.	U	810.	U	930.	U	86.		790.	U
91-57-6	2-Methylnaphthalene	830.	U	850.	U	810.	U	930.	U	550.		790.	U
91-58-7	2-Chloronaphthalene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
91-94-1	3,3'-Dichlorobenzidine	1700.	U	1700.	U	1600.	U	1900.	U	1700.	U	1600.	U
95-48-7	2-Methylphenol (o-Cresol)	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
95-50-1	1,2-Dichlorobenzene	830.	U	850.	U	300.		930.	U	120.		790.	U
95-57-8	2-Chlorophenol	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
95-76-1	3,4-Dichloroaniline	830.	U	2800.		1300.		440.		100000.		400.	
95-95-4	2,4,5-Trichlorophenol	4100.	U	4200.	U	4100.	U	4600.	U	4300.	U	4000.	U
98-95-3	Nitrobenzene	830.	U	850.	U	810.	U	930.	U	850.	U	790.	U
99-09-2	3-Nitroaniline	4100.	U	4200.	U	4100.	U	4600.	U	4300.	U	4000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 3 SEDIMENT DATA

SVOA	SHORT ID --------->	3SED-7		3SED-8		3SED-9		3SED-10			
	ORIGINAL ID ----->	CED3-SED7		CED3-SED8		CED3-SED9		CED3SED10			
	SAMPLE DATE ----->	09/14/93		09/14/93		09/14/93		09/16/93			
	DATE ANALYZED --->	10/19/93		10/19/93		10/19/93		10/15/93			
	MATRIX ---------->	Sediment		Sediment		Sediment		Sediment			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E010	VAL	E010	VAL	E010	VAL	E011	VAL		
100-01-6	4-Nitroaniline	4000.	U	4600.	U	4300.	U	930.	U		
100-02-7	4-Nitrophenol	4000.	U	4600.	U	4300.	U	930.	U		
100-51-6	Benzyl alcohol	800.	U	920.	U	870.	U	NR			
101-55-3	4-Bromophenyl-phenylether	800.	U	920.	U	870.	U	380.	U		
105-67-9	2,4-Dimethylphenol	800.	U	920.	U	870.	U	380.	U		
106-44-5	4-Methylphenol (p-Cresol)	800.	U	920.	U	870.	U	380.	U		
106-46-7	1,4-Dichlorobenzene	800.	U	920.	U	870.	U	380.	U		
106-47-8	4-Chloroaniline	800.	U	920.	U	870.	U	380.	U		
108-60-1	bis(2-chloroisopropyl) ether	800.	U	920.	U	870.	U	380.	U		
108-95-2	Phenol	800.	U	920.	U	870.	U	380.	U		
111-44-4	bis(2-Chloroethyl)ether	800.	U	920.	U	870.	U	380.	U		
111-91-1	bis(2-Chloroethoxy)methane	800.	U	920.	U	870.	U	380.	U		
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	800.	U	920.	U	870.	U	380.	U		
117-84-0	Di-n-octylphthalate	800.	U	180.		870.	U	380.	U		
118-74-1	Hexachlorobenzene	800.	U	920.	U	870.	U	380.	U		
120-12-7	Anthracene	800.	U	920.	U	870.	U	380.	U		
120-82-1	1,2,4-Trichlorobenzene	800.	U	920.	U	870.	U	380.	U		
120-83-2	2,4-Dichlorophenol	800.	U	920.	U	870.	U	380.	U		
121-14-2	2,4-Dinitrotoluene	800.	U	920.	U	870.	U	380.	U		
129-00-0	Pyrene	800.	U	920.	U	870.	U	380.	U		
131-11-3	Dimethylphthalate	800.	U	920.	U	870.	U	380.	U		
132-64-9	Dibenzofuran	800.	U	920.	U	870.	U	380.	U		
191-24-2	Benzo(g,h,i)perylene	800.	U	920.	U	870.	U	380.	U		
193-39-5	Indeno(1,2,3-cd)pyrene	800.	U	920.	U	870.	U	380.	U		
205-99-2	Benzo(b)fluoranthene	800.	U	920.	U	870.	U	380.	U		
206-44-0	Fluoranthene	800.	U	920.	U	870.	U	380.	U		
207-08-9	Benzo(k)fluoranthene	800.	U	920.	U	870.	U	380.	U		
208-96-8	Acenaphthylene	800.	U	920.	U	870.	U	380.	U		
218-01-9	Chrysene	800.	U	920.	U	870.	U	380.	U		
50-32-8	Benzo(a)pyrene	800.	U	920.	U	870.	U	380.	U		
51-28-5	2,4-Dinitrophenol	4000.	U	4600.	U	4300.	U	930.	U		
534-52-1	4,6-Dinitro-2-methylphenol	4000.	U	4600.	U	4300.	U	930.	U		
53-70-3	Dibenz(a,h)anthracene	800.	U	920.	U	870.	U	380.	U		
541-73-1	1,3-Dichlorobenzene	800.	U	920.	U	870.	U	380.	U		
56-55-3	Benzo(a)anthracene	800.	U	920.	U	870.	U	380.	U		
59-50-7	4-Chloro-3-methylphenol	800.	U	920.	U	870.	U	380.	U		
606-20-2	2,6-Dinitrotoluene	800.	U	920.	U	870.	U	380.	U		
621-64-7	N-Nitroso-di-n-propylamine	800.	U	920.	U	870.	U	380.	U		
65-85-0	Benzoic acid	4000.	U	4600.	U	4300.	U	NR			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 3 SEDIMENT DATA

SVOA	SHORT ID --------->	3SED-7		3SED-8		3SED-9		3SED-10			
	ORIGINAL ID ----->	CED3-SED7		CED3-SED8		CED3-SED9		CED3SED10			
	SAMPLE DATE ----->	09/14/93		09/14/93		09/14/93		09/16/93			
	DATE ANALYZED --->	10/19/93		10/19/93		10/19/93		10/15/93			
	MATRIX ---------->	Sediment		Sediment		Sediment		Sediment			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E010	VAL	E010	VAL	E010	VAL	E011	VAL		
67-72-1	Hexachloroethane	800.	U	920.	U	870.	U	380.	U		
7005-72-3	4-Chlorophenyl-phenylether	800.	U	920.	U	870.	U	380.	U		
709-98-8	Propanil	800.	U	920.	U	870.	U	930.	U		
77-47-4	Hexachlorocyclopentadiene	800.	U	920.	U	870.	U	380.	U		
78-59-1	Isophorone	800.	U	920.	U	870.	U	380.	U		
83-32-9	Acenaphthene	800.	U	920.	U	870.	U	380.	U		
84-66-2	Diethylphthalate	800.	U	920.	U	870.	U	380.	U		
84-74-2	Di-n-butylphthalate	800.	U	920.	U	870.	U	380.	U		
85-01-8	Phenanthrene	800.	U	920.	U	870.	U	380.	U		
85-68-7	Butylbenzylphthalate	800.	U	920.	U	870.	U	380.	U		
86-30-6	N-Nitrosodiphenylamine	800.	U	920.	U	870.	U	380.	U		
86-73-7	Fluorene	800.	U	920.	U	870.	U	380.	U		
87-68-3	Hexachlorobutadiene	800.	U	920.	U	870.	U	380.	U		
87-86-5	Pentachlorophenol	4000.	U	4600.	U	4300.	U	930.	U		
88-06-2	2,4,6-Trichlorophenol	800.	U	920.	U	870.	U	380.	U		
88-74-4	2-Nitroaniline	4000.	U	4600.	U	4300.	U	930.	U		
88-75-5	2-Nitrophenol	800.	U	920.	U	870.	U	380.	U		
88-85-7	Dinoseb	4000.		4600.	U	4300.	U	930.	U		
91-20-3	Naphthalene	800.	U	920.	U	870.	U	380.	U		
91-57-6	2-Methylnaphthalene	800.	U	920.	U	870.	U	380.	U		
91-58-7	2-Chloronaphthalene	800.	U	920.	U	870.	U	380.	U		
91-94-1	3,3'-Dichlorobenzidine	1600.	U	1800.	U	1700.	U	380.	U		
95-48-7	2-Methylphenol (o-Cresol)	800.	U	920.	U	870.	U	380.	U		
95-50-1	1,2-Dichlorobenzene	800.	U	920.	U	870.	U	380.	U		
95-57-8	2-Chlorophenol	800.	U	920.	U	870.	U	380.	U		
95-76-1	3,4-Dichloroaniline	370.		840.		310.		930.	U		
95-95-4	2,4,5-Trichlorophenol	4000.	U	4600.	U	4300.	U	930.	U		
98-95-3	Nitrobenzene	800.	U	920.	U	870.	U	380.	U		
99-09-2	3-Nitroaniline	4000.	U	4600.	U	4300.	U	NR			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 3 SEDIMENT DATA

VOA	SHORT ID --------->	3SED-1		3SED-2		3SED-3		3SED-4		3SED-5		3SED-6	
	ORIGINAL ID ----->	CED3-SED-1		CED3-SED-2		CED3-SED-3		CED3-SED-4		CED3-SED-5		CED3-SED-6	
	SAMPLE DATE ----->	09/13/93		09/13/93		09/13/93		09/13/93		09/14/93		09/14/93	
	DATE ANALYZED --->	09/20/93		09/20/93		09/21/93		09/21/93		09/24/93		09/21/93	
	MATRIX ---------->	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E010	VAL	E010	VAL	E010	VAL	E010	VAL	E010	VAL	E010	VAL
100-41-4	Ethylbenzene	6.	U	6.	U	6.	U	7.	U	7.		6.	U
100-42-5	Styrene	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
107-06-2	1,2-Dichloroethane	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
108-05-4	Vinyl acetate	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	59.	U	60.	U	59.	U	71.	U	64.	U	60.	U
108-88-3	Toluene	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
108-90-7	Chlorobenzene	6.	U	34.		11.		7.	U	6.	U	6.	U
124-48-1	Dibromochloromethane	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
127-18-4	Tetrachloroethene	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
1330-20-7	Xylene (total)	6.	U	6.	U	6.	U	7.	U	44.		6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
56-23-5	Carbon tetrachloride	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
591-78-6	2-Hexanone	59.	U	60.	U	59.	U	71.	U	64.	U	60.	U
67-64-1	Acetone	12.	U	12.	U	130.		14.	U	13.	U	12.	U
67-66-3	Chloroform	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
71-43-2	Benzene	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
74-83-9	Bromomethane	12.	U	12.	U	12.	U	14.	U	13.	U	12.	U
74-87-3	Chloromethane	12.	U	12.	U	12.	U	14.	U	13.	U	12.	U
75-00-3	Chloroethane	12.	U	12.	U	12.	U	14.	U	13.	U	12.	U
75-01-4	Vinyl chloride	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
75-09-2	Methylene chloride	6.	U	6.	U	6.	U	7.	U	2.		6.	U
75-15-0	Carbon disulfide	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
75-25-2	Bromoform	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
75-27-4	Bromodichloromethane	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
75-34-3	1,1-Dichloroethane	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
75-35-4	1,1-Dichloroethene	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
78-87-5	1,2-Dichloropropane	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
78-93-3	2-Butanone (MEK)	12.	U	12.	U	12.	U	14.	U	13.	U	12.	U
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
79-01-6	Trichloroethene	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	6.	U	7.	U	6.	U	6.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE 1 SITE 3 SEDIMENT DATA

VOA	SHORT ID --------->	3SED-7		3SED-8		3SED-9		3SED-10			
	ORIGINAL ID ----->	CED3-SED-7		CED3-SED-8		CED3-SED-9		CED3-SED-10			
	SAMPLE DATE ----->	09/14/93		09/14/93		09/14/93		09/16/93			
	DATE ANALYZED --->	09/21/93		09/21/93		09/21/93		09/28/93			
	MATRIX ---------->	Sediment		Sediment		Sediment		Sediment			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E010	VAL	E010	VAL	E010	VAL	E011	VAL		
100-41-4	Ethylbenzene	6.	U	7.	U	6.	U	2.			
100-42-5	Styrene	6.	U	7.	U	6.	U	6.	U		
10061-01-5	cis-1,3-Dichloropropene	6.	U	7.	U	6.	U	6.	U		
10061-02-6	trans-1,3-Dichloropropene	6.	U	7.	U	6.	U	6.	U		
107-06-2	1,2-Dichloroethane	6.	U	7.	U	6.	U	43.			
108-05-4	Vinyl acetate	6.	U	7.	U	6.	U	6.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	56.	U	69.	U	61.	U	60.	U		
108-88-3	Toluene	6.	U	7.	U	6.	U	6.	U		
108-90-7	Chlorobenzene	6.	U	7.	U	6.	U	6.	U		
124-48-1	Dibromochloromethane	6.	U	7.	U	6.	U	6.	U		
127-18-4	Tetrachloroethene	6.	U	7.	U	6.	U	6.	U		
1330-20-7	Xylene (total)	6.	U	7.	U	6.	U	12.			
540-59-0	1,2-Dichloroethene (total)	6.	U	7.	U	6.	U	6.	U		
56-23-5	Carbon tetrachloride	6.	U	7.	U	6.	U	6.	U		
591-78-6	2-Hexanone	56.	U	69.	U	61.	U	60.	U		
67-64-1	Acetone	11.	U	14.	U	12.	U	12.	U		
67-66-3	Chloroform	6.	U	7.	U	6.	U	6.	U		
71-43-2	Benzene	6.	U	7.	U	6.	U	6.	U		
71-55-6	1,1,1-Trichloroethane	6.	U	7.	U	6.	U	6.	U		
74-83-9	Bromomethane	11.	U	14.	U	12.	U	12.	U		
74-87-3	Chloromethane	11.	U	14.	U	12.	U	12.	U		
75-00-3	Chloroethane	11.	U	14.	U	12.	U	12.	U		
75-01-4	Vinyl chloride	6.	U	7.	U	6.	U	6.	U		
75-09-2	Methylene chloride	6.	U	7.	U	6.	U	160.			
75-15-0	Carbon disulfide	6.	U	7.	U	6.	U	6.	U		
75-25-2	Bromoform	6.	U	7.	U	6.	U	6.	U		
75-27-4	Bromodichloromethane	6.	U	7.	U	6.	U	6.	U		
75-34-3	1,1-Dichloroethane	6.	U	7.	U	6.	U	6.	U		
75-35-4	1,1-Dichloroethene	6.	U	7.	U	6.	U	6.	U		
78-87-5	1,2-Dichloropropane	6.	U	7.	U	6.	U	6.	U		
78-93-3	2-Butanone (MEK)	11.	U	14.	U	12.	U	12.	U		
79-00-5	1,1,2-Trichloroethane	6.	U	7.	U	6.	U	6.	U		
79-01-6	Trichloroethene	6.	U	7.	U	6.	U	6.	U		
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	7.	U	6.	U	6.	U		

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 3 PHASE II SEDIMENT DATA

ARSENIC	SHORT ID --------->	3SED-11-S		3SED-12-S		3SED-13-S		3SED-14-S		3SED-15-S		3SED-16-S	
	ORIGINAL ID ----->	003M000101		003M000201		003M000301		003M000401		003M000501		003M000601	
	SAMPLE DATE ----->	11/29/94		11/29/94		11/29/94		11/29/94		11/29/94		11/29/94	
	DATE EXTRACTED -->	12/02/94		12/02/94		12/02/94		12/02/94		12/02/94		12/02/94	
	DATE ANALYZED --->	12/02/94		12/02/94		12/02/94		12/02/94		12/02/94		12/02/94	
	MATRIX ---------->	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL
7440-38-2	Arsenic (As)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 3 PHASE II SEDIMENT DATA

ARSENIC		SHORT ID --------->	3SED-17-S		3SED-18-S		3SED-19-S		3SED-20-S		3SED-20-S DUP		3SED-21-S	
		ORIGINAL ID ----->	003M000701		003M000801		003M000901		003M001001		003M001001		003M001101	
		SAMPLE DATE ----->	11/29/94		11/29/94		11/29/94		11/29/94		11/29/94		11/29/94	
		DATE EXTRACTED -->	12/02/94		12/02/94		12/02/94		12/02/94		12/02/94		12/02/94	
		DATE ANALYZED --->	12/02/94		12/02/94		12/02/94		12/02/94		12/02/94		12/03/94	
		MATRIX ---------->	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
		UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter		10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL
7440-38-2	Arsenic (As)		5.	U	5.	U	5.	U	5.	U	5.	U	5.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 3 PHASE II SEDIMENT DATA

ARSENIC	SHORT ID --------->	3SED-22-S					
	ORIGINAL ID ----->	003M001201					
	SAMPLE DATE ----->	11/29/94					
	DATE EXTRACTED -->	12/02/94					
	DATE ANALYZED --->	12/03/94					
	MATRIX ---------->	Sediment					
	UNITS ----------->	MG/KG					

CAS #	Parameter	10834	VAL					
7440-38-2	Arsenic (As)	5.	U					

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 3 PHASE II SEDIMENT DATA

PEST													
	SHORT ID --------->	3SED-11-S		3SED-12-S		3SED-13-S		3SED-14-S		3SED-15-S		3SED-16-S	
	ORIGINAL ID ----->	003M000101		003M000201		003M000301		003M000401		003M000501		003M000601	
	SAMPLE DATE ----->	11/29/94		11/29/94		11/29/94		11/29/94		11/29/94		11/29/94	
	DATE EXTRACTED -->	12/03/94		12/03/94		12/03/94		12/03/94		12/03/94		*2/03/94	
	DATE ANALYZED --->	12/04/94		12/04/94		12/04/94		12/04/94		12/04/94		12/04/94	
	MATRIX ---------->	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL
319-84-6	Alpha-BHC	2.	U	2.	U	2.	U	2.	U	20.	U	2.	U
319-85-7	Beta-BHC	4.	U	4.	U	4.	U	4.	U	40.	U	4.	U
319-86-8	Delta-BHC	6.	U	6.	U	6.	U	6.	U	60.	U	6.	U
58-89-9	gamma-BHC (Lindane)	2.7	U	2.7	U	2.7	U	2.7	U	27.	U	2.7	U
76-44-8	Heptachlor	2.	U	2.	U	2.	U	2.	U	20.	U	2.	U
309-00-2	Aldrin	2.7	U	2.7	U	2.7	U	2.7	U	27.	U	2.7	U
1024-57-3	Heptachlor Epoxide	56.	U	56.	U	56.	U	56.	U	560.	U	56.	U
959-98-8	Endosulfan I	9.4	U	9.4	U	9.4	U	9.4	U	94.	U	9.4	U
60-57-1	Dieldrin	1.3	U	1.3	U	1.3	U	5.6		13.	U	1.3	U
72-55-9	4,4'-DDE	5.1		2.7	U	2.7	U	2.7	U	27.	U	2.7	U
72-20-8	Endrin	4.	U	4.	U	4.	U	4.	U	40.	U	4.	U
33213-65-9	Endosulfan II	2.7	U	2.7	U	2.7	U	2.7	U	27.	U	2.7	U
72-54-8	4,4'-DDD	7.	U	7.	U	76.		7.	U	70.	U	27.	
7421-93-4	Endrin aldehyde	15.	U	15.	U	15.	U	15.	U	150.	U	15.	U
1031-07-8	Endosulfan Sulfate	44.	U	44.	U	44.	U	44.	U	440.	U	44.	U
50-29-3	4,4'-DDT	15.		8.	U	8.	U	8.	U	80.	U	8.	U
72-43-5	Methoxychlor	120.	U	630.		380.		120.	U	2400.		410.	
57-74-9	Chlordane	9.4	U	9.4	U	9.4	U	9.4	U	94.	U	9.4	U
8001-35-2	Toxaphene	160.	U	160.	U	160.	U	160.	U	1600.	U	160.	U
12674-11-2	Aroclor-1016	60.	U	60.	U	60.	U	60.	U	600.	U	60.	U
11104-28-2	Aroclor-1221	180.	U	180.	U	180.	U	180.	U	1800.	U	180.	U
11141-16-5	Aroclor-1232	32.	U	32.	U	32.	U	32.	U	320.	U	32.	U
53469-21-9	Aroclor-1242	44.	U	44.	U	44.	U	44.	U	440.	U	44.	U
12672-29-6	Aroclor-1248	170.	U	170.	U	170.	U	170.	U	1700.	U	170.	U
11097-69-1	Aroclor-1254	80.	U	80.	U	80.	U	80.	U	800.	U	80.	U
11096-82-5	Aroclor-1260	24.	U	24.	U	24.	U	24.	U	240.	U	24.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 3 PHASE II SEDIMENT DATA

PEST																	
	SHORT ID --------->	3SED-17-S		3SED-18-S		3SED-19-S		3SED-20-S		3SED-20-S DUP		3SED-21-S	
	ORIGINAL ID ----->	003M000701		003M000801		003M000901		003M001001		003N001001		003M001101	
	SAMPLE DATE ----->	11/29/94		11/29/94		11/29/94		11/29/94		11/29/94		11/29/94	
	DATE EXTRACTED -->	12/03/94		12/03/94		12/03/94		12/03/94		12/03/94		12/03/94	
	DATE ANALYZED --->	12/04/94		12/05/94		12/05/94		12/05/94		12/05/94		12/05/94	
	MATRIX ---------->	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL
319-84-6	Alpha-BHC	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
319-85-7	Beta-BHC	4.	U	4.	U	4.	U	4.	U	4.	U	4.	U
319-86-8	Delta-BHC	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
58-89-9	gamma-BHC (Lindane)	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
76-44-8	Heptachlor	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
309-00-2	Aldrin	2.8		2.7	U	2.7	U	27.		58.		2.7	U
1024-57-3	Heptachlor Epoxide	56.	U	56.	U	56.	U	56.	U	56.	U	56.	U
959-98-8	Endosulfan I	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
60-57-1	Dieldrin	1.3	U	1.3	U	1.3	U	220.		550.		1.3	U
72-55-9	4,4'-DDE	2.7	U	2.7	U	2.7	U	2.7	U	78.		2.7	U
72-20-8	Endrin	4.	U	4.	U	4.	U	4.	U	4.	U	76.	
33213-65-9	Endosulfan II	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
72-54-8	4,4'-DDD	21.		7.	U	7.	U	36.		180.		7.	U
7421-93-4	Endrin aldehyde	15.	U	15.	U	15.	U	15.	U	15.	U	15.	U
1031-07-8	Endosulfan Sulfate	44.	U	44.	U	44.	U	44.	U	44.	U	44.	U
50-29-3	4,4'-DDT	8.	U	8.	U	8.	U	8.	U	8.	U	91.	
72-43-5	Methoxychlor	2500.		1900.		130.		2000.		1200.		1700.	
57-74-9	Chlordane	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
8001-35-2	Toxaphene	160.	U	160.	U	160.	U	160.	U	160.	U	1600.	
12674-11-2	Aroclor-1016	60.	U	60.	U	60.	U	60.	U	60.	U	60.	U
11104-28-2	Aroclor-1221	180.	U	180.	U	180.	U	180.	U	180.	U	180.	U
11141-16-5	Aroclor-1232	32.	U	32.	U	32.	U	32.	U	32.	U	32.	U
53469-21-9	Aroclor-1242	44.	U	44.	U	44.	U	44.	U	44.	U	44.	U
12672-29-6	Aroclor-1248	170.	U	170.	U	170.	U	170.	U	170.	U	170.	U
11097-69-1	Aroclor-1254	80.	U	80.	U	80.	U	80.	U	80.	U	80.	U
11096-82-5	Aroclor-1260	24.	U	24.	U	24.	U	24.	U	24.	U	24.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 3 PHASE II SEDIMENT DATA

PEST

SHORT ID --------->	3SED-22-S
ORIGINAL ID ----->	003M001201
SAMPLE DATE ----->	11/29/94
DATE EXTRACTED -->	12/03/94
DATE ANALYZED --->	12/05/94
MATRIX ---------->	Sediment
UNITS ---------->	UG/KG

CAS #	Parameter	10834	VAL
319-84-6	Alpha-BHC	2.	U
319-85-7	Beta-BHC	4.	U
319-86-8	Delta-BHC	6.	U
58-89-9	gamma-BHC (Lindane)	2.7	U
76-44-8	Heptachlor	2.	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor Epoxide	56.	U
959-98-8	Endosulfan I	9.4	U
60-57-1	Dieldrin	1.3	U
72-55-9	4,4'-DDE	2.7	U
72-20-8	Endrin	4.	U
33213-65-9	Endosulfan II	2.7	U
72-54-8	4,4'-DDD	7.	U
7421-93-4	Endrin aldehyde	15.	U
1031-07-8	Endosulfan Sulfate	44.	U
50-29-3	4,4'-DDT	8.	U
72-43-5	Methoxychlor	750.	
57-74-9	Chlordane	9.4	U
8001-35-2	Toxaphene	160.	U
12674-11-2	Aroclor-1016	60.	U
11104-28-2	Aroclor-1221	180.	U
11141-16-5	Aroclor-1232	32.	U
53469-21-9	Aroclor-1242	44.	U
12672-29-6	Aroclor-1248	170.	U
11097-69-1	Aroclor-1254	80.	U
11096-82-5	Aroclor-1260	24.	U

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SURFACE SOIL DATA

PEST	SHORT ID --------->	4HA-1 (0-1')		4HA-2 (0-1')		4HA-3 (0-1')		4HA-4 (0-1')		4HA-5 (0-1')		4HA-6 (0-1')	
	ORIGINAL ID ----->	CED4SHA-1-1		CED4SHA-2-1		CED4SHA-3-1		CED4SHA-4-1		CED4-HA5-1		CED4SHA-6-1	
	SAMPLE DATE ----->	09/02/93		09/02/93		09/03/93		09/03/93		09/15/93		09/03/93	
	DATE ANALYZED --->	09/11/93		09/11/93		09/15/93		09/15/93		10/06/93		09/15/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E003	VAL	E003	VAL	E010	VAL	E003	VAL
1024-57-3	Heptachlor Epoxide	60.	U	620.	U	58.	U	59.	U	130.	U	190.	U
1031-07-8	Endosulfan Sulfate	48.	U	490.	U	46.	U	46.	U	100.	U	150.	U
309-00-2	Aldrin	2.9	U	30.	U	2.8	U	2.8	U	6.2	U	9.	U
319-84-6	Alpha-BHC	2.2	U	22.	U	2.1	U	2.1	U	4.6	U	14.	
319-85-7	Beta-BHC	4.4	U	44.	U	4.2	U	4.3	U	9.2	U	14.	U
319-86-8	Delta-BHC	6.5	U	67.	U	6.3	U	6.4	U	14.	U	20.	U
33213-65-9	Endosulfan II	2.9	U	30.	U	2.8	U	3.4		6.2	U	9.	U
50-29-3	4,4'-DDT	8.7	U	260.		8.4	U	8.4	U	18.	U	100.	
5103-71-9	alpha-Chlordane	10.	U	100.	U	9.8	U	10.	U	22.	U	32.	U
5103-74-2	gamma-Chlordane	10.	U	100.	U	9.8	U	10.	U	22.	U	32.	U
53494-70-5	Endrin ketone	17.	U	180.	U	17.	U	17.	U	37.	U	54.	U
58-89-9	gamma-BHC (Lindane)	2.9	U	30.	U	2.8	U	2.8	U	6.2	U	9.	U
60-57-1	Dieldrin	1.5	U	15.	U	1.4	U	1.6		3.1	U	190.	
72-20-8	Endrin	4.4	U	44.	U	4.2	U	4.3	U	9.2	U	14.	U
72-43-5	Methoxychlor	130.	U	15000.		8400.		12000.		3200.		9400.	
72-54-8	4,4'-DDD	8.	U	82.	U	7.7	U	7.8	U	44.		33.	
72-55-9	4,4'-DDE	6.5		56.		5.2		25.		19.		36.	
76-44-8	Heptachlor	2.2	U	22.	U	2.1	U	2.1	U	12.		6.8	U
8001-35-2	Toxaphene	170.	U	1800.	U	170.	U	170.	U	370.	U	540.	U
959-98-8	Endosulfan I	10.	U	100.	U	9.8	U	10.	U	22.	U	32.	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SURFACE SOIL DATA

PEST	SHORT ID --------->	4HA-7 (5-6')		4HA-8 (5-6')		4MW-2 (0-5')				
	ORIGINAL ID ----->	CED4SHA-7-1		CED4SHA-8-1		CED4-SMW2-1				
	SAMPLE DATE ----->	09/03/93		09/03/93		09/16/93				
	DATE ANALYZED --->	09/15/93		09/15/93		10/07/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E003	VAL	E003	VAL	E011	VAL			
1024-57-3	Heptachlor Epoxide	69.	U	68.	U	66.	U			
1031-07-8	Endosulfan Sulfate	55.	U	54.	U	52.	U			
309-00-2	Aldrin	3.3	U	3.3	U	3.2	U			
319-84-6	Alpha-BHC	2.5	U	2.4	U	2.4	U			
319-85-7	Beta-BHC	5.	U	4.9	U	4.7	U			
319-86-8	Delta-BHC	7.5	U	7.3	U	7.1	U			
33213-65-9	Endosulfan II	3.3	U	3.3	U	3.2	U			
50-29-3	4,4'-DDT	10.	U	9.8	U	9.5	U			
5103-71-9	alpha-Chlordane	12.	U	11.	U	11.	U			
5103-74-2	gamma-Chlordane	12.	U	11.	U	11.	U			
53494-70-5	Endrin ketone	20.	U	20.	U	19.	U			
58-89-9	gamma-BHC (Lindane)	3.3	U	3.3	U	3.2	U			
60-57-1	Dieldrin	1.7	U	1.6	U	1.6	U			
72-20-8	Endrin	5.	U	4.9	U	4.8	U			
72-43-5	Methoxychlor	150.	U	150.	U	140.	U			
72-54-8	4,4'-DDD	9.2	U	8.9	U	8.7	U			
72-55-9	4,4'-DDE	3.3	U	3.3	U	3.2	U			
76-44-8	Heptachlor	2.5	U	2.4	U	2.4	U			
8001-35-2	Toxaphene	200.	U	200.	U	190.	U			
959-98-8	Endosulfan I	12.	U	11.	U	11.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SURFACE SOIL DATA

RCRA METAL	SHORT ID --------->	4HA-1 (0-1')		4HA-2 (0-1')		4HA-3 (0-1')		4HA-4 (0-1')		4HA-5 (0-1')		4HA-6 (0-1')	
	ORIGINAL ID ----->	CED4SHA-1-1		CED4SHA-2-1		CED4SHA-3-1		CED4SHA-4-1		CED4-HA5-1		CED4SHA-6-1	
	SAMPLE DATE ---->	09/02/93		09/02/93		09/03/93		09/03/93		09/15/93		09/03/93	
	DATE ANALYZED --->	09/16/93		09/16/93		10/01/93		10/01/93		10/01/93		10/01/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E003	VAL	E003	VAL	E010	VAL	E003	VAL
7440-38-2	Arsenic (As)	5.2		3.8		3.4		4.1		4.6		4.4	
7440-39-3	Barium (Ba)	101.		94.1		54.		52.6		75.3		76.2	
7440-43-9	Cadmium (Cd)	0.32	U	0.32	U	0.44		0.44		0.35	U	0.37	
7440-47-3	Chromium (Cr)	11.7		14.3		10.6		10.2		19.1		13.9	
7439-92-1	Lead (Pb)	5.6		7.7		3.9		5.5		13.		10.2	
7439-97-6	Mercury (Hg)	0.1	U	0.11	U	0.1	U	0.1	U	0.12	U	0.1	U
7782-49-2	Selenium (Se)	0.53	U	0.54	U	0.52	U	0.51	U	0.58	U	0.56	U
7440-22-4	Silver (Ag)	0.32	U	0.32	U	0.31	U	0.31	U	0.35	U	0.33	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SURFACE SOIL DATA

RCRA METAL	SHORT ID --------->	4HA-7 (5-6')		4HA-8 (5-6')		4MW-2 (0-5')				
	ORIGINAL ID ----->	CED4SHA-7-1		CED4SHA-8-1		CED4-SMW2-1				
	SAMPLE DATE ----->	09/03/93		09/03/93		09/16/93				
	DATE ANALYZED --->	10/01/93		10/01/93		10/11/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	MG/KG		MG/KG		MG/KG				
CAS #	Parameter	E003	VAL	E003	VAL	E011	VAL			
7440-38-2	Arsenic (As)	6.8		7.		6.				
7440-39-3	Barium (Ba)	106.		113.		112.				
7440-43-9	Cadmium (Cd)	0.37	U	0.35	U	0.35	U			
7440-47-3	Chromium (Cr)	17.8		18.2		10.9				
7439-92-1	Lead (Pb)	10.5		11.4		9.1				
7439-97-6	Mercury (Hg)	0.11	U	0.11	U	0.12	U			
7782-49-2	Selenium (Se)	0.62	U	0.59	U	0.58	U			
7440-22-4	Silver (Ag)	0.37	U	0.35	U	0.35	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	4HA-1 (0-1')		4HA-2 (0-1')		4HA-3 (0-1')		4HA-4 (0-1')		4HA-5 (0-1')		4HA-6 (0-1')	
	ORIGINAL ID ----->	CED4SHA-1-1		CED4SHA-2-1		CED4SHA-3-1		CED4SHA-4-1		CED4HA5-1		CED4SHA-6-1	
	SAMPLE DATE ----->	09/02/93		09/02/93		09/03/93		09/03/93		09/15/93		09/03/93	
	DATE ANALYZED --->	09/24/93		10/01/93		10/05/93		10/06/93		10/19/93		10/05/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E003	VAL	E003	VAL	E010	VAL	E003	VAL
100-01-6	4-Nitroaniline	1400.	U	72000.	U	1400.	U	1400.	U	15000.	U	2900.	U
100-02-7	4-Nitrophenol	3600.	U	180000.	U	3500.	U	3500.	U	15000.	U	7400.	U
100-51-6	Benzyl alcohol	1400.	U	72000.	U	1400.	U	1400.	U	3100.	U	2900.	U
101-55-3	4-Bromophenyl-phenylether	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
105-67-9	2,4-Dimethylphenol	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
106-44-5	4-Methylphenol (p-Cresol)	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
106-46-7	1,4-Dichlorobenzene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
106-47-8	4-Chloroaniline	1400.	U	72000.	U	1400.	U	700.	U	8600.		2900.	U
108-60-1	bis(2-chloroisopropyl) ether	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
108-95-2	Phenol	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
111-44-4	bis(2-Chloroethyl)ether	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
111-91-1	bis(2-Chloroethoxy)methane	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	720.	U	37000.	U	690.	U	700.	U	1200.		1700.	U
117-84-0	Di-n-octylphthalate	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
118-74-1	Hexachlorobenzene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
120-12-7	Anthracene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
120-82-1	1,2,4-Trichlorobenzene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
120-83-2	2,4-Dichlorophenol	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
121-14-2	2,4-Dinitrotoluene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
129-00-0	Pyrene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
131-11-3	Dimethylphthalate	720.	U	37000.	U	690.	U	94.		3100.	U	1500.	U
132-64-9	Dibenzofuran	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
191-24-2	Benzo(g,h,i)perylene	NR		NR		NR		NR		3100.	U	NR	
193-39-5	Indeno(1,2,3-cd)pyrene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
205-99-2	Benzo(b)fluoranthene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
206-44-0	Fluoranthene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
207-08-9	Benzo(k)fluoranthene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
208-96-8	Acenaphthylene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
218-01-9	Chrysene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
50-32-8	Benzo(a)pyrene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
51-28-5	2,4-Dinitrophenol	720.	U	37000.	U	690.	U	700.	U	15000.	U	1500.	U
534-52-1	4,6-Dinitro-2-methylphenol	3600.	U	180000.	U	3500.	U	3500.	U	15000.	U	7400.	U
53-70-3	Dibenz(a,h)anthracene	NR		NR		NR		NR		3100.	U	NR	
541-73-1	1,3-Dichlorobenzene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
56-55-3	Benzo(a)anthracene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
59-50-7	4-Chloro-3-methylphenol	1400.	U	72000.	U	1400.	U	1400.	U	3100.	U	2900.	U
606-20-2	2,6-Dinitrotoluene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
621-64-7	N-Nitroso-di-n-propylamine	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
65-85-0	Benzoic acid	3600.	U	180000.	U	3500.	U	3500.	U	15000.	U	7400.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	4HA-1 (0-1')		4HA-2 (0-1')		4HA-3 (0-1')		4HA-4 (0-1')		4HA-5 (0-1')		4HA-6 (0-1')	
	ORIGINAL ID ----->	CED4SHA-1-1		CED4SHA-2-1		CED4SHA-3-1		CED4SHA-4-1		CED4HA5-1		CED4SHA-6-1	
	SAMPLE DATE ----->	09/02/93		09/02/93		09/03/93		09/03/93		09/15/93		09/03/93	
	DATE ANALYZED --->	09/24/93		10/01/93		10/05/93		10/06/93		10/19/93		10/05/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E003	VAL	E003	VAL	E010	VAL	E003	VAL
67-72-1	Hexachloroethane	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
7005-72-3	4-Chlorophenyl-phenylether	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
709-98-8	Propanil	720.	U	37000.	U	690.	U	700.	U	690.		2500.	
77-47-4	Hexachlorocyclopentadiene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
78-59-1	Isophorone	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
83-32-9	Acenaphthene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
84-66-2	Diethylphthalate	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
84-74-2	Di-n-butylphthalate	720.	U	37000.	U	690.	U	700.	U	540.		400.	
85-01-8	Phenanthrene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
85-68-7	Butylbenzylphthalate	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
86-30-6	N-Nitrosodiphenylamine	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
86-73-7	Fluorene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
87-68-3	Hexachlorobutadiene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
87-86-5	Pentachlorophenol	3600.	U	180000.	U	3500.	U	3500.	U	15000.	U	7400.	U
88-06-2	2,4,6-Trichlorophenol	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
88-74-4	2-Nitroaniline	3600.	U	180000.	U	3500.	U	3500.	U	15000.	U	7400.	U
88-75-5	2-Nitrophenol	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
88-85-7	Dinoseb	720.	U	500000.		690.	U	700.	U	1400.		190000.	
91-20-3	Naphthalene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
91-57-6	2-Methylnaphthalene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
91-58-7	2-Chloronaphthalene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
91-94-1	3,3'-Dichlorobenzidine	1400.	U	72000.	U	1400.	U	1400.	U	6200.	U	2900.	U
95-48-7	2-Methylphenol (o-Cresol)	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
95-50-1	1,2-Dichlorobenzene	720.	U	37000.	U	690.	U	700.	U	1500.		3700.	
95-57-8	2-Chlorophenol	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
95-76-1	3,4-Dichloroaniline	720.	U	37000.	U	690.	U	700.	U	85000.		1500.	U
95-95-4	2,4,5-Trichlorophenol	720.	U	37000.	U	690.	U	700.	U	15000.	U	1500.	U
98-95-3	Nitrobenzene	720.	U	37000.	U	690.	U	700.	U	3100.	U	1500.	U
99-09-2	3-Nitroaniline	3600.	U	180000.	U	3500.	U	3500.	U	15000.	U	7400.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	4HA-7 (5-6')		4HA-8 (5-6')		4MW-2 (0-5')				
	ORIGINAL ID ----->	CED4SHA-7-1		CED4SHA-8-1		CED4SMW21				
	SAMPLE DATE ----->	09/03/93		09/03/93		09/16/93				
	DATE ANALYZED --->	10/06/93		10/05/93		10/16/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E003	VAL	E003	VAL	E011	VAL			
100-01-6	4-Nitroaniline	1600.	U	1600.	U	9500.	U			
100-02-7	4-Nitrophenol	4100.	U	4000.	U	9500.	U			
100-51-6	Benzyl alcohol	1600.	U	1600.	U	NR				
101-55-3	4-Bromophenyl-phenylether	820.	U	800.	U	3900.	U			
105-67-9	2,4-Dimethylphenol	820.	U	800.	U	3900.	U			
106-44-5	4-Methylphenol (p-Cresol)	820.	U	800.	U	3900.	U			
106-46-7	1,4-Dichlorobenzene	820.	U	800.	U	3900.	U			
106-47-8	4-Chloroaniline	1600.	U	1600.	U	3900.	U			
108-60-1	bis(2-chloroisopropyl) ether	820.	U	800.	U	3900.	U			
108-95-2	Phenol	820.	U	800.	U	3900.	U			
111-44-4	bis(2-Chloroethyl)ether	820.	U	800.	U	3900.	U			
111-91-1	bis(2-Chloroethoxy)methane	820.	U	800.	U	3900.	U			
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	820.	U	800.	U	3900.	U			
117-84-0	Di-n-octylphthalate	820.	U	800.	U	3900.	U			
118-74-1	Hexachlorobenzene	820.	U	800.	U	3900.	U			
120-12-7	Anthracene	820.	U	800.	U	3900.	U			
120-82-1	1,2,4-Trichlorobenzene	820.	U	800.	U	3900.	U			
120-83-2	2,4-Dichlorophenol	820.	U	800.	U	3900.	U			
121-14-2	2,4-Dinitrotoluene	820.	U	800.	U	3900.	U			
129-00-0	Pyrene	820.	U	800.	U	3900.	U			
131-11-3	Dimethylphthalate	180.		800.	U	3900.	U			
132-64-9	Dibenzofuran	820.	U	800.	U	3900.	U			
191-24-2	Benzo(g,h,i)perylene	NR		NR		3900.	U			
193-39-5	Indeno(1,2,3-cd)pyrene	820.	U	800.	U	3900.	U			
205-99-2	Benzo(b)fluoranthene	820.	U	800.	U	3900.	U			
206-44-0	Fluoranthene	820.	U	800.	U	3900.	U			
207-08-9	Benzo(k)fluoranthene	820.	U	800.	U	3900.	U			
208-96-8	Acenaphthylene	820.	U	800.	U	3900.	U			
218-01-9	Chrysene	820.	U	800.	U	3900.	U			
50-32-8	Benzo(a)pyrene	820.	U	800.	U	3900.	U			
51-28-5	2,4-Dinitrophenol	820.	U	800.	U	9500.	U			
534-52-1	4,6-Dinitro-2-methylphenol	4100.	U	4000.	U	9500.	U			
53-70-3	Dibenz(a,h)anthracene	NR		NR		3900.	U			
541-73-1	1,3-Dichlorobenzene	820.	U	800.	U	3900.	U			
56-55-3	Benzo(a)anthracene	820.	U	800.	U	3900.	U			
59-50-7	4-Chloro-3-methylphenol	1600.	U	1600.	U	3900.	U			
606-20-2	2,6-Dinitrotoluene	820.	U	800.	U	3900.	U			
621-64-7	N-Nitroso-di-n-propylamine	820.	U	800.	U	3900.	U			
65-85-0	Benzoic acid	4100.	U	4000.	U	NR				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	4HA-7 (5-6')		4NA-8 (5-6')		4MW-2 (0-5')				
	ORIGINAL ID ----->	CED4SHA-7-1		CED4SHA-8-1		CED4SMW21				
	SAMPLE DATE ----->	09/03/93		09/03/93		09/16/93				
	DATE ANALYZED --->	10/06/93		10/05/93		10/16/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E003	VAL	E003	VAL	E011	VAL			
67-72-1	Hexachloroethane	820.	U	800.	U	3900.	U			
7005-72-3	4-Chlorophenyl-phenylether	820.	U	800.	U	3900.	U			
709-98-8	Propanil	820.	U	800.	U	9500.	U			
77-47-4	Hexachlorocyclopentadiene	820.	U	800.	U	3900.	U			
78-59-1	Isophorone	820.	U	800.	U	3900.	U			
83-32-9	Acenaphthene	820.	U	800.	U	3900.	U			
84-66-2	Diethylphthalate	820.	U	800.	U	3900.	U			
84-74-2	Di-n-butylphthalate	820.	U	800.	U	3900.	U			
85-01-8	Phenanthrene	820.	U	800.	U	3900.	U			
85-68-7	Butylbenzylphthalate	820.	U	800.	U	3900.	U			
86-30-6	N-Nitrosodiphenylamine	820.	U	800.	U	3900.	U			
86-73-7	Fluorene	820.	U	800.	U	3900.	U			
87-68-3	Hexachlorobutadiene	820.	U	800.	U	3900.	U			
87-86-5	Pentachlorophenol	4100.	U	4000.	U	9500.	U			
88-06-2	2,4,6-Trichlorophenol	820.	U	800.	U	3900.	U			
88-74-4	2-Nitroaniline	4100.	U	4000.	U	9500.	U			
88-75-5	2-Nitrophenol	820.	U	800.	U	3900.	U			
88-85-7	Dinoseb	840000.		91000.		18000.				
91-20-3	Naphthalene	820.	U	800.	U	3900.	U			
91-57-6	2-Methylnaphthalene	820.	U	800.	U	3900.	U			
91-58-7	2-Chloronaphthalene	820.	U	800.	U	3900.	U			
91-94-1	3,3'-Dichlorobenzidine	1600.	U	1600.	U	3900.	U			
95-48-7	2-Methylphenol (o-Cresol)	820.	U	800.	U	3900.	U			
95-50-1	1,2-Dichlorobenzene	120.		800.	U	3900.	U			
95-57-8	2-Chlorophenol	820.	U	800.	U	3900.	U			
95-76-1	3,4-Dichloroaniline	820.	U	800.	U	9500.	U			
95-95-4	2,4,5-Trichlorophenol	820.	U	800.	U	9500.	U			
98-95-3	Nitrobenzene	820.	U	800.	U	3900.	U			
99-09-2	3-Nitroaniline	4100.	U	4000.	U	NR				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SURFACE SOIL DATA

VOA	SHORT ID --------->	4HA-1 (0-1')		4HA-2 (0-1')		4HA-3 (0-1')		4HA-4 (0-1')		4HA-5 (0-1')		4HA-6 (0-1')	
	ORIGINAL ID ----->	CED4SHA-1-1		CED4SHA-2-1		CED4SHA-3-1		CED4SHA-4-1		CED4-HA5-1		CED4SHA-6-1	
	SAMPLE DATE ----->	09/02/93		09/02/93		09/03/93		09/03/93		09/15/93		09/03/93	
	DATE ANALYZED --->	09/09/93		09/09/93		09/09/93		09/10/93		09/24/93		09/10/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E003	VAL	E003	VAL	E010	VAL	E003	VAL
100-41-4	Ethylbenzene	6.	U	4.		5.	U	5.	U	7.		6.	U
100-42-5	Styrene	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
107-06-2	1,2-Dichloroethane	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
108-05-4	Vinyl acetate	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	56.	U	54.	U	53.	U	51.	U	19.		58.	U
108-88-3	Toluene	6.	U	8.		5.	U	5.	U	350.		5.	
108-90-7	Chlorobenzene	6.	U	5.	U	5.	U	5.	U	3.		6.	U
124-48-1	Dibromochloromethane	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
127-18-4	Tetrachloroethene	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
1330-20-7	Xylene (total)	6.	U	13.	U	5.	U	5.	U	76.		36.	
540-59-0	1,2-Dichloroethene (total)	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
56-23-5	Carbon tetrachloride	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
591-78-6	2-Hexanone	56.	U	54.	U	53.	U	51.	U	97.	U	58.	U
67-64-1	Acetone	11.	U	19.		11.	U	170.		25.		12.	U
67-66-3	Chloroform	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
71-43-2	Benzene	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
71-55-6	1,1,1-Trichloroethane	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
74-83-9	Bromomethane	11.	U	11.	U	11.	U	10.	U	19.	U	12.	U
74-87-3	Chloromethane	11.	U	11.	U	11.	U	10.	U	19.	U	12.	U
75-00-3	Chloroethane	11.	U	11.	U	11.	U	10.	U	19.	U	12.	U
75-01-4	Vinyl chloride	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
75-09-2	Methylene chloride	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
75-15-0	Carbon disulfide	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
75-25-2	Bromoform	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
75-27-4	Bromodichloromethane	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
75-34-3	1,1-Dichloroethane	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
75-35-4	1,1-Dichloroethene	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
78-87-5	1,2-Dichloropropane	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
78-93-3	2-Butanone (MEK)	11.	U	17.		9.		12.		19.	U	12.	U
79-00-5	1,1,2-Trichloroethane	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
79-01-6	Trichloroethene	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	5.	U	5.	U	5.	U	10.	U	6.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SURFACE SOIL DATA

VOA		SHORT ID --------->	4HA-7 (5-6')		4HA-8 (5-6')		4MW-2 (0-5')				
		ORIGINAL ID ----->	CED4SHA-7-1		CED4SHA-8-1		CED4-SMW2-1				
		SAMPLE DATE ----->	09/03/93		09/03/93		09/16/93				
		DATE ANALYZED --->	09/11/93		09/11/93		09/28/93				
		MATRIX ---------->	Soil		Soil		Soil				
		UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter		E003	VAL	E003	VAL	E011	VAL			
100-41-4	Ethylbenzene		6.	U	6.	U	6.	U			
100-42-5	Styrene		6.	U	6.	U	6.	U			
10061-01-5	cis-1,3-Dichloropropene		6.	U	6.	U	6.	U			
10061-02-6	trans-1,3-Dichloropropene		6.	U	6.	U	6.	U			
107-06-2	1,2-Dichloroethane		6.	U	6.	U	6.	U			
108-05-4	Vinyl acetate		6.	U	6.	U	6.	U			
108-10-1	4-Methyl-2-Pentanone (MIBK)		64.	U	61.	U	60.	U			
108-88-3	Toluene		6.	U	6.	U	2.				
108-90-7	Chlorobenzene		6.	U	6.	U	6.	U			
124-48-1	Dibromochloromethane		6.	U	6.	U	6.	U			
127-18-4	Tetrachloroethene		6.	U	6.	U	6.	U			
1330-20-7	Xylene (total)		6.	U	6.	U	6.	U			
540-59-0	1,2-Dichloroethene (total)		6.	U	6.	U	6.	U			
56-23-5	Carbon tetrachloride		6.	U	6.	U	6.	U			
591-78-6	2-Hexanone		64.	U	61.	U	60.	U			
67-64-1	Acetone		13.	U	12.	U	27.				
67-66-3	Chloroform		6.	U	6.	U	6.	U			
71-43-2	Benzene		6.	U	6.	U	6.	U			
71-55-6	1,1,1-Trichloroethane		6.	U	6.	U	6.	U			
74-83-9	Bromomethane		13.	U	12.	U	12.	U			
74-87-3	Chloromethane		13.	U	12.	U	12.	U			
75-00-3	Chloroethane		13.	U	12.	U	12.	U			
75-01-4	Vinyl chloride		6.	U	6.	U	6.	U			
75-09-2	Methylene chloride		6.	U	6.	U	6.	U			
75-15-0	Carbon disulfide		6.	U	6.	U	6.	U			
75-25-2	Bromoform		6.	U	6.	U	6.	U			
75-27-4	Bromodichloromethane		6.	U	6.	U	6.	U			
75-34-3	1,1-Dichloroethane		6.	U	6.	U	6.	U			
75-35-4	1,1-Dichloroethene		6.	U	6.	U	6.	U			
78-87-5	1,2-Dichloropropane		6.	U	6.	U	6.	U			
78-93-3	2-Butanone (MEK)		13.	U	12.	U	60.				
79-00-5	1,1,2-Trichloroethane		6.	U	6.	U	6.	U			
79-01-6	Trichloroethene		6.	U	6.	U	6.	U			
79-34-5	1,1,2,2-Tetrachloroethane		6.	U	6.	U	6.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

METAL		SHORT ID --------->	4MW-1		4MW-2		4MW-2 DUP		EMW-1		EMW-2		EMW-3	
		ORIGINAL ID ----->	CED4GWMW1		CED4GWMW2		CED4GWMW2D		CEDE-GWMW-1		CEDE-GWMW-2		CEDE-GWMW-3	
		SAMPLE DATE ----->	09/29/93		09/29/93		09/29/93		09/22/93		09/22/93		09/23/93	
		DATE ANALYZED --->	10/21/93		10/21/93		10/21/93		10/19/93		10/19/93		10/19/93	
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter		E015	VAL	E015	VAL	E015	VAL	E012	VAL	E012	VAL	E012	VAL
7440-38-2	Arsenic (As)		21.6		24.6		25.8		29.3		26.5		39.9	
7440-39-3	Barium (Ba)		1450.		1530.		1370.		799.		1120.		319.	
7440-43-9	Cadmium (Cd)		2.	U	2.3		2.	U	3.6		8.5		180.	
7440-70-2	Calcium (Ca)		186000.		382000.		322000.		232000.		109000.		522000.	
7440-47-3	Chromium (Cr)		41.		120.		107.		63.2		104.		800.	
7439-89-6	Iron (Fe)		32000.		122000.		108000.		64200.		121000.		82900.	
7439-92-1	Lead (Pb)		33.2		134.		119.		30.8		89.4		38.4	
7439-95-4	Magnesium (Mg)		53000.		201000.		169000.		133000.		58700.		140000.	
7439-97-6	Mercury (Hg)		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
7782-49-2	Selenium (Se)		5.		5.		5.		5.	U	5.	U	5.	U
7440-22-4	Silver (Ag)		3.	U	3.	U	3.	U	3.	U	3.	U	3.	U
7440-23-5	Sodium (Na)		87200.		27000.		26700.		98300.		33400.		171000.	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

METAL		SHORT ID --------->	EMW-3 DUP		EMW-4		EMW-6		EMW-7		EMW-6A		EMW-6B	
		ORIGINAL ID ----->	CEDEGWMW3D		CEDE-GWMW-4		CEDE-GWMW6		CEDE-GWMW7		CEDE-GWMW6A		CEDE-GWMW6B	
		SAMPLE DATE ----->	09/23/93		09/23/93		09/24/93		09/23/93		09/24/93		09/24/93	
		DATE ANALYZED --->	10/19/93		10/19/93		10/19/93		10/19/93		10/19/93		10/19/93	
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter		E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
7440-38-2	Arsenic (As)		43.5		44.4		10.		29.7		47.8		28.	
7440-39-3	Barium (Ba)		332.		2400.		336.		441.		1010.		830.	
7440-43-9	Cadmium (Cd)		212.		4.3		2.	U	2.	U	2.	U	16.3	
7440-70-2	Calcium (Ca)		524000.		919000.		128000.		211000.		292000.		301000.	
7440-47-3	Chromium (Cr)		972.		226.		18.6		63.9		72.6		58.6	
7439-89-6	Iron (Fe)		85200.		347000.		14900.		38200.		106000.		50100.	
7439-92-1	Lead (Pb)		40.8		174.		10.1		25.		66.4		29.3	
7439-95-4	Magnesium (Mg)		141000.		472000.		48400.		87600.		121000.		151000.	
7439-97-6	Mercury (Hg)		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
7782-49-2	Selenium (Se)		5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
7440-22-4	Silver (Ag)		3.	U	3.	U	3.	U	3.	U	3.	U	3.	U
7440-23-5	Sodium (Na)		170000.		137000.		40800.		15100.		17400.		226000.	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	4HA-1 (1-2')		4HA-1 (2-3')		4HA-2 (1-2')		4HA-2 (2-3')		4HA-4 (1-2')		4HA-4 (2-3')	
	ORIGINAL ID ----->	CED4SHA-1-2		CED4SHA-1-3		CED4SHA-2-2		CED4SHA-2-3		CED4SHA-4-2		CED4SHA-4-3	
	SAMPLE DATE ----->	09/02/93		09/02/93		09/02/93		09/02/93		09/03/93		09/03/93	
	DATE ANALYZED --->	09/11/93		09/18/93		09/11/93		09/11/93		09/15/93		09/15/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E003	VAL	E003	VAL
1024-57-3	Heptachlor Epoxide	64.	U	66.	U	650.	U	650.	U	680.	U	340.	U
1031-07-8	Endosulfan Sulfate	51.	U	53.	U	520.	U	520.	U	540.	U	270.	U
309-00-2	Aldrin	3.1	U	3.2	U	31.	U	31.	U	33.	U	17.	U
319-84-6	Alpha-BHC	8.1		2.4	U	24.	U	24.	U	24.	U	12.	U
319-85-7	Beta-BHC	4.6	U	5.1		47.	U	47.	U	49.	U	25.	U
319-86-8	Delta-BHC	6.9	U	7.2	U	71.	U	71.	U	73.	U	37.	U
33213-65-9	Endosulfan II	3.1	U	3.2	U	72.		31.	U	33.	U	17.	U
50-29-3	4,4'-DDT	9.2	U	19.		430.		170.		98.	U	50.	U
5103-71-9	alpha-Chlordane	11.	U	11.	U	110.	U	110.	U	110.	U	58.	U
5103-74-2	gamma-Chlordane	11.	U	11.	U	110.	U	110.	U	110.	U	58.	U
53494-70-5	Endrin ketone	18.	U	19.	U	770.		190.	U	200.	U	100.	U
58-89-9	gamma-BHC (Lindane)	3.1	U	3.2	U	31.	U	31.	U	33.	U	17.	U
60-57-1	Dieldrin	1.5	U	50.		16.	U	16.	U	16.	U	8.3	U
72-20-8	Endrin	4.6	U	4.8	U	47.	U	47.	U	49.	U	25.	U
72-43-5	Methoxychlor	8100.		5700.		74000.		15000.		26000.		1600.	
72-54-8	4,4'-DDD	33.		84.		120.		86.	U	90.	U	46.	U
72-55-9	4,4'-DDE	25.		37.		150.		75.		280.		17.	U
76-44-8	Heptachlor	2.3	U	2.4	U	24.	U	24.	U	24.	U	12.	U
8001-35-2	Toxaphene	180.	U	190.	U	1900.	U	1900.	U	20000.	U	1000.	U
959-98-8	Endosulfan I	11.	U	11.	U	110.	U	110.	U	110.	U	58.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	4HA-4 (2-3')DUP		4HA-5 (1-2')		4HA-5 (2-3')		4HA-6 (1-2')		4HA-7 (6-7')		4HA-7 (7-8')	
	ORIGINAL ID ----->	CED4SHA-4-3		CED4-HA5-2		CED4-HA5-3		CED4SHA-6-2		CED4SHA-7-2		CED4SHA-7-3	
	SAMPLE DATE ----->	09/03/93		09/15/93		09/15/93		09/03/93		09/03/93		09/03/93	
	DATE ANALYZED --->	09/15/93		10/06/93		10/06/93		09/15/93		09/15/93		09/15/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E003	VAL	E010	VAL	E010	VAL	E003	VAL	E003	VAL	E003	VAL
1024-57-3	Heptachlor Epoxide	140.	U	3200.	U	340.	U	640.	U	69.	U	69.	U
1031-07-8	Endosulfan Sulfate	110.	U	2600.	U	270.	U	510.	U	54.	U	55.	U
309-00-2	Aldrin	6.6	U	160.	U	16.	U	31.	U	3.3	U	3.3	U
319-84-6	Alpha-BHC	4.9	U	120.	U	12.	U	23.	U	2.5	U	2.5	U
319-85-7	Beta-BHC	9.9	U	230.	U	38.		46.	U	5.	U	5.	U
319-86-8	Delta-BHC	15.	U	350.	U	37.	U	69.	U	7.4	U	7.4	U
33213-65-9	Endosulfan II	6.6	U	160.	U	16.	U	31.	U	3.3	U	3.3	U
50-29-3	4,4'-DDT	20.	U	470.	U	49.	U	450.		9.9	U	9.9	U
5103-71-9	alpha-Chlordane	23.	U	550.	U	57.	U	110.	U	12.	U	12.	U
5103-74-2	gamma-Chlordane	23.	U	550.	U	57.	U	110.	U	12.	U	12.	U
53494-70-5	Endrin ketone	40.	U	940.	U	98.	U	180.	U	19.	U	20.	U
58-89-9	gamma-BHC (Lindane)	6.6	U	160.	U	16.	U	31.	U	3.3	U	3.3	U
60-57-1	Dieldrin	3.3	U	78.	U	8.2	U	630.		1.7	U	1.7	U
72-20-8	Endrin	9.9	U	230.	U	25.	U	46.	U	5.	U	5.	U
72-43-5	Methoxychlor	430.		7400.		740.	U	34000.		150.	U	150.	U
72-54-8	4,4'-DDD	18.	U	430.	U	NR		140.		9.1	U	9.1	U
72-55-9	4,4'-DDE	6.6	U	160.	U	19.		110.		3.3	U	3.3	U
76-44-8	Heptachlor	4.9	U	120.	U	12.	U	23.	U	2.5	U	2.5	U
8001-35-2	Toxaphene	400.	U	9400.	U	980.	U	1800.	U	200.	U	200.	U
959-98-8	Endosulfan I	23.	U	550.	U	57.	U	110.	U	12.	U	12.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	4HA-8 (6-7')		4HA-8 (7-8')		4MW-1		4MW-1 (10-15')		4MW-1 (25-30')		4MW-2	
	ORIGINAL ID ----->	CED4SHA-8-2		CED4SHA-8-3		CED4GWMW1		CED4MW013		CED4-SMW1-6		CED4GWMW2	
	SAMPLE DATE ----->	09/03/93		09/03/93		09/29/93		09/16/93		09/17/93		09/29/93	
	DATE ANALYZED --->	09/15/93		09/15/93		10/09/93		10/07/93		10/07/93		10/09/93	
	MATRIX ---------->	Soil		Soil		Water		Soil		Soil		Water	
	UNITS ----------->	UG/KG		UG/KG		UG/L		UG/L		UG/KG		UG/L	
CAS #	Parameter	E003	VAL	E003	VAL	E015	VAL	E011	VAL	E011	VAL	E015	VAL
1024-57-3	Heptachlor Epoxide	68.	U	68.	U	0.2	U	140.	U	73.	U	0.2	U
1031-07-8	Endosulfan Sulfate	54.	U	54.	U	0.66	U	110.	U	58.	U	0.66	U
309-00-2	Aldrin	3.3	U	3.3	U	0.04	U	6.8	U	3.5	U	0.04	U
319-84-6	Alpha-BHC	2.5	U	2.5	U	0.03	U	5.1	U	2.6	U	0.03	U
319-85-7	Beta-BHC	4.9	U	4.9	U	0.06	U	10.	U	5.3	U	0.06	U
319-86-8	Delta-BHC	7.4	U	7.4	U	0.09	U	15.	U	7.9	U	0.09	U
33213-65-9	Endosulfan II	3.3	U	3.3	U	0.04	U	6.8	U	3.5	U	0.04	U
50-29-3	4,4'-DDT	9.9	U	9.8	U	0.12	U	20.	U	11.	U	0.12	U
5103-71-9	alpha-Chlordane	12.	U	11.	U	0.14	U	24.	U	12.	U	0.14	U
5103-74-2	gamma-Chlordane	12.	U	11.	U	0.14	U	24.	U	12.	U	0.14	U
53494-70-5	Endrin ketone	20.	U	20.	U	0.1	U	41.	U	21.	U	0.1	U
58-89-9	gamma-BHC (Lindane)	3.3	U	3.3	U	0.04	U	6.8	U	3.5	U	0.04	U
60-57-1	Dieldrin	1.6	U	1.6	U	0.02	U	5.7		1.8	U	0.02	U
72-20-8	Endrin	4.9	U	4.9	U	0.06	U	10.2	U	5.3	U	0.06	U
72-43-5	Methoxychlor	150.	U	150.	U	1.8	U	460.		160.	U	1.8	U
72-54-8	4,4'-DDD	9.1	U	9.	U	0.11	U	18.6	U	9.7	U	0.11	U
72-55-9	4,4'-DDE	3.3	U	3.3	U	0.04	U	6.8	U	3.5	U	0.04	U
76-44-8	Heptachlor	2.5	U	2.5	U	0.03	U	5.1	U	2.6	U	0.03	U
8001-35-2	Toxaphene	200.	U	200.	U	2.4	U	410.	U	210.	U	2.4	U
959-98-8	Endosulfan I	12.	U	11.	U	0.14	U	24.	U	12.	U	0.14	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	4MW-2 DUP		4MW-2 (25-30')		IMSB-1 (3-8')		IMSB-1 (8-12')		IMSB-2 (5-10')		IMSB-2 (10-15')	
	ORIGINAL ID ----->	CED4GWMW2D		CED4-SMW2-6		IM-SB-01-2		IM-SB-01-3		IM-SB-02-2		IMSB023	
	SAMPLE DATE ----->	09/29/93		09/22/93		04/08/93		05/06/93		04/08/93		04/08/93	
	DATE ANALYZED --->	10/09/93		10/07/93		04/17/93		05/03/93		04/17/93		04/30/93	
	MATRIX ---------->	Water		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/L		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E015	VAL	E011	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
1024-57-3	Heptachlor Epoxide	0.2	U	72.	U	70.	U	72.	U	72.	U	720.	U
1031-07-8	Endosulfan Sulfate	0.66	U	57.	U	55.	U	57.	U	56.	U	570.	U
309-00-2	Aldrin	0.04	U	3.5	U	3.4	U	3.5	U	3.5	U	35.	U
319-84-6	Alpha-BHC	0.03	U	26.	U	2.5	U	2.6	U	2.6	U	55.	
319-85-7	Beta-BHC	0.06	U	5.2	U	5.	U	5.2	U	10.		52.	U
319-86-8	Delta-BHC	0.09	U	7.8	U	7.5	U	26.		7.7	U	78.	U
33213-65-9	Endosulfan II	0.04	U	3.5	U	3.4	U	3.5	U	3.5	U	35.	U
50-29-3	4,4'-DDT	0.12	U	10.	U	10.	U	10.	U	10.	U	100.	U
5103-71-9	alpha-Chlordane	0.14	U	12.	U	12.	U	12.	U	12.	U	120.	U
5103-74-2	gamma-Chlordane	0.14	U	12.	U	12.	U	12.	U	12.	U	120.	U
53494-70-5	Endrin ketone	0.1	U	21.	U	20.	U	21.	U	20.	U	210.	U
58-89-9	gamma-BHC (Lindane)	0.04	U	3.5	U	3.4		3.5	U	3.5	U	35.	U
60-57-1	Dieldrin	0.02	U	1.7	U	1.6	U	1.7	U	1.7	U	350.	
72-20-8	Endrin	0.06	U	5.2	U	5.	U	5.2	U	5.1	U	52.	U
72-43-5	Methoxychlor	1.8	U	160.	U	150.	U	160.	U	150.	U	1500.	U
72-54-8	4,4'-DDD	0.11	U	9.5	U	9.2	U	9.5	U	9.5	U	95.	U
72-55-9	4,4'-DDE	0.04	U	3.5	U	3.4	U	3.5	U	3.5	U	35.	U
76-44-8	Heptachlor	0.03	U	2.6	U	2.5	U	2.6	U	31.		26.	U
8001-35-2	Toxaphene	2.4	U	210.	U	200.	U	210.	U	200.	U	2100.	U
959-98-8	Endosulfan I	0.14	U	12.	U	12.	U	12.	U	12.	U	120.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	IMSB-3 (5-10')		IMSB-3 (10-15')		IMSB-4 (5-10')		IMSB-5 (5-10')		BGHA-2 (0-1')		BGHA-3 (0-1')	
	ORIGINAL ID ----->	IM-SB-03-2		IM-SB-03-3		IM-SB-04-2		IM-SB-05-2		CED-SBG-2		CED-SBG-3	
	SAMPLE DATE ----->	04/09/93		04/09/93		04/09/93		04/09/93		09/16/93		09/16/93	
	DATE ANALYZED --->	04/22/93		04/30/93		04/17/93		04/17/93		10/07/93		10/07/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	E011	VAL	E011	VAL
1024-57-3	Heptachlor Epoxide	70.	U	72.	U	71.	U	71.	U	66.	U	6.4	U
1031-07-8	Endosulfan Sulfate	55.	U	57.	U	56.	U	56.	U	52.	U	51.	U
309-00-2	Aldrin	9.3		3.5	U	3.4	U	3.4	U	3.2	U	3.1	U
319-84-6	Alpha-BHC	2.5	U	2.6	U	2.5	U	2.5	U	2.4	U	2.3	U
319-85-7	Beta-BHC	37.		5.2	U	5.1	U	5.1	U	4.7	U	4.6	U
319-86-8	Delta-BHC	7.5	U	7.8	U	7.6	U	7.6	U	7.1	U	6.9	U
33213-65-9	Endosulfan II	3.4	U	3.5	U	3.4	U	3.4	U	3.2	U	3.1	U
50-29-3	4,4'-DDT	10.	U	10.	U	10.	U	10.	U	9.5	U	29.	
5103-71-9	alpha-Chlordane	12.	U	12.	U	12.	U	12.	U	11.	U	11.	U
5103-74-2	gamma-Chlordane	12.	U	12.	U	12.	U	12.	U	11.	U	11.	U
53494-70-5	Endrin ketone	20.	U	21.	U	20.	U	20.	U	19.	U	18.	U
58-89-9	gamma-BHC (Lindane)	3.4		3.5	U	3.4	U	3.4	U	3.2	U	3.1	U
60-57-1	Dieldrin	1.6	U	1.7	U	1.6	U	1.6	U	1.6	U	1.5	U
72-20-8	Endrin	5.	U	5.2	U	5.1	U	5.1	U	4.8	U	4.6	U
72-43-5	Methoxychlor	150.	U	150.	U	150.	U	150.	U	140.	U	140.	U
72-54-8	4,4'-DDD	10.		9.5	U	9.4	U	9.4	U	8.7	U	8.4	U
72-55-9	4,4'-DDE	3.4	U	3.5	U	3.4	U	3.4	U	3.2	U	20.	
76-44-8	Heptachlor	4.9		2.6	U	2.5	U	2.5	U	2.4	U	2.3	U
8001-35-2	Toxaphene	200.	U	210.	U	200.	U	200.	U	190.	U	180.	U
959-98-8	Endosulfan I	12.	U	12.	U	12.	U	12.	U	11.	U	11.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	EMW-1		EMW-2		EMW-3		EMW-3 DUP		EMW-4		EMW-6	
	ORIGINAL ID ----->	CEDE-GWMW-1		CEDE-GWMW-2		CEDE-GWMW-3		CEDEGWMW3		CEDE-GWMW-4		CEDE-GWMW6	
	SAMPLE DATE ----->	09/22/93		09/22/93		09/23/93		09/23/93		09/23/93		09/24/93	
	DATE ANALYZED --->	10/07/93		10/07/93		10/08/93		10/08/93		10/07/93		10/08/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
1024-57-3	Heptachlor Epoxide	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1031-07-8	Endosulfan Sulfate	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-84-6	Alpha-BHC	0.05		0.03	U	0.07		0.06		0.03	U	0.03	U
319-85-7	Beta-BHC	0.06	U	0.06	U	0.06	U	0.08		0.06	U	0.06	U
319-86-8	Delta-BHC	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U
33213-65-9	Endosulfan II	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
50-29-3	4,4'-DDT	0.49		0.12	U	0.12	U	0.12	U	0.56		0.12	U
5103-71-9	alpha-Chlordane	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
5103-74-2	gamma-Chlordane	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
53494-70-5	Endrin ketone	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.03		0.02		0.02	U	0.02	U
72-20-8	Endrin	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
72-43-5	Methoxychlor	1.8	U	1.8	U	1.8	U	1.8		1.8	U	1.8	U
72-54-8	4,4'-DDD	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
72-55-9	4,4'-DDE	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
8001-35-2	Toxaphene	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
959-98-8	Endosulfan I	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	EMW-7		EMW-6A		EMW-6B				
	ORIGINAL ID ----->	CEDE-GWMW7		CEDE-GWMW6A		CEDE-GWMW6B				
	SAMPLE DATE ----->	09/23/93		09/24/93		09/24/93				
	DATE ANALYZED --->	10/08/93		10/08/93		10/09/93				
	MATRIX ---------->	Water		Water		Water				
	UNITS ----------->	UG/L		UG/L		UG/L				
CAS #	Parameter	E012	VAL	E012	VAL	E012	VAL			
1024-57-3	Heptachlor Epoxide	0.2	U	0.2	U	0.2	U			
1031-07-8	Endosulfan Sulfate	0.66	U	0.66	U	0.66	U			
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U			
319-84-6	Alpha-BHC	0.03	U	0.03	U	0.03	U			
319-85-7	Beta-BHC	0.06	U	0.06	U	0.06	U			
319-86-8	Delta-BHC	0.09	U	0.09	U	0.09	U			
33213-65-9	Endosulfan II	0.04	U	0.04	U	0.04	U			
50-29-3	4,4'-DDT	0.12	U	0.12	U	0.12	U			
5103-71-9	alpha-Chlordane	0.14	U	0.14	U	0.14	U			
5103-74-2	gamma-Chlordane	0.14	U	0.14	U	0.14	U			
53494-70-5	Endrin ketone	0.1	U	0.1	U	0.1	U			
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U			
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U			
72-20-8	Endrin	0.06	U	0.06	U	0.06	U			
72-43-5	Methoxychlor	1.8	U	1.8	U	1.8	U			
72-54-8	4,4'-DDD	0.11	U	0.11	U	0.11	U			
72-55-9	4,4'-DDE	0.04	U	0.04	U	0.04	U			
76-44-8	Heptachlor	0.03	U	0.03	U	0.03	U			
8001-35-2	Toxaphene	2.4	U	2.4	U	2.4	U			
959-98-8	Endosulfan I	0.14	U	0.14	U	0.14	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

RCRA METAL	SHORT ID --------->	4HA-1 (1-2')	4HA-1 (2-3')	4HA-2 (1-2')	4HA-2 (2-3')	4HA-4 (1-2')	4HA-4 (2-3')
	ORIGINAL ID ----->	CED4SHA-1-2	CED4SHA-1-3	CED4SHA-2-2	CED4SHA-2-3	CED4SHA-4-2	CED4SHA-4-3
	SAMPLE DATE ----->	09/02/93	09/02/93	09/02/93	09/02/93	09/03/93	09/03/93
	DATE ANALYZED --->	09/16/93	09/16/93	09/16/93	09/16/93	10/01/93	10/01/93
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ----------->	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
CAS #	Parameter	E002 VAL	E002 VAL	E002 VAL	E002 VAL	E003 VAL	E003 VAL
7440-38-2	Arsenic (As)	5.	3.3	3.8	4.4	7.2	7.5
7440-39-3	Barium (Ba)	72.6	111.	91.1	86.6	80.9	96.8
7440-43-9	Cadmium (Cd)	0.35 U	0.34 U	0.35 U	0.35 U	0.36 U	0.36 U
7440-47-3	Chromium (Cr)	10.6	12.	14.2	14.1	8.6	11.4
7439-92-1	Lead (Pb)	6.9	7.4	9.3	8.3	8.6	9.
7439-97-6	Mercury (Hg)	0.12 U	0.11 U	0.11 U	0.11 U	0.12 U	0.11 U
7782-49-2	Selenium (Se)	0.58 U	0.57 U	0.59 U	0.58 U	0.61 U	0.59 U
7440-22-4	Silver (Ag)	0.35 U	0.34 U	0.35 U	0.35 U	0.36 U	0.36 U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

RCRA METAL		SHORT ID --------->	4HA-4 (2-3')DUP		4HA-5 (1-2')		4HA-5 (2-3')		4HA-6 (1-2')		4HA-7 (6-7')		4HA-7 (7-8')	
		ORIGINAL ID ----->	CED4SHA-4-3		CED4-HA5-2		CED4-HA5-3		CED4SHA-6-2		CED4SHA-7-2		CED4SHA-7-3	
		SAMPLE DATE ----->	09/03/93		09/15/93		09/15/93		09/03/93		09/03/93		09/03/93	
		DATE ANALYZED --->	10/01/93		10/01/93		10/01/93		10/01/93		10/01/93		10/01/93	
		MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
		UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter		E003	VAL	E010	VAL	E01D	VAL	E003	VAL	E003	VAL	E003	VAL
7440-38-2	Arsenic (As)		9.8		4.1		3.1		5.2		7.4		6.2	
7440-39-3	Barium (Ba)		79.7		93.5		113.		83.8		118.		127.	
7440-43-9	Cadmium (Cd)		0.36	U	0.34	U	0.36	U	0.35	U	0.36	U	0.36	U
7440-47-3	Chromium (Cr)		13.5		18.1		14.2		20.9		14.7		11.3	
7439-92-1	Lead (Pb)		8.7		8.8		6.9		15.8		11.1		9.	
7439-97-6	Mercury (Hg)		0.11	U	0.12	U	0.12	U	0.11	U	0.11	U	0.12	U
7782-49-2	Selenium (Se)		0.59	U	0.56	U	0.59	U	0.58	U	0.6	U	0.6	U
7440-22-4	Silver (Ag)		0.36	U	0.34	U	0.36	U	0.35	U	0.36	U	0.36	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

RCRA METAL	SHORT ID --------->	4HA-8 (6-7')		4HA-8 (7-8')		4MW-1 (10-15')		4MW-1 (25-30')		4MW-2 (25-30')		IMSB-1 (3-8')	
	ORIGINAL ID ----->	CED4SHA-8-2		CED4SHA-8-3		CED4-SMW1-3		CED4-SMW1-6		CED4-SMW2-6		IM-SB-01-2	
	SAMPLE DATE ----->	09/03/93		09/03/93		09/16/93		09/17/93		09/22/93		04/08/93	
	DATE ANALYZED --->	10/01/93		10/01/93		10/11/93		10/11/93		10/11/93		04/19/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	E003	VAL	E003	VAL	E011	VAL	E011	VAL	E011	VAL	ES1	VAL
7440-38-2	Arsenic (As)	8.3		6.6		9.4		15.5		1.3		9.3	
7440-39-3	Barium (Ba)	118.		95.9		218.		95.2		109.		143.	
7440-43-9	Cadmium (Cd)	0.36	U	0.36	U	0.38	U	0.39	U	0.37	U	0.37	U
7440-47-3	Chromium (Cr)	14.7		13.2		12.4		14.9		11.5		9.2	
7439-92-1	Lead (Pb)	12.5		10.5		30.		11.		11.3		11.7	
7439-97-6	Mercury (Hg)	0.12	U	0.1	U	0.13	U	0.13	U	0.12	U	0.12	U
7782-49-2	Selenium (Se)	0.6	U	0.61	U	0.63	U	0.65	U	0.64		0.15	
7440-22-4	Silver (Ag)	0.36	U	0.36	U	0.38	U	0.39	U	0.37	U	0.85	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

RCRA METAL												
	SHORT ID --------->	IMSB-2 (5-10')		IMSB-3 (5-10')		IMSB-4 (5-10')		IMSB-5 (5-10')		BGHA-2 (0-1')		BGHA-3 (0-1')	
	ORIGINAL ID ------>	IM-SB-02-2		IM-SB-03-2		IM-SB-04-2		IM-SB-05-2		CED-SBG-2		CED-SBG-3	
	SAMPLE DATE ------>	04/08/93		04/09/93		04/09/93		04/09/93		09/16/93		09/16/93	
	DATE ANALYZED --->	04/19/93		04/19/93		04/19/93		04/19/93		10/11/93		10/11/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	E011	VAL	E011	VAL
7440-38-2	Arsenic (As)	7.4		7.3		8.5		7.2		6.2		5.3	
7440-39-3	Barium (Ba)	210.		231.		156.		122.		174.		138.	
7440-43-9	Cadmium (Cd)	0.37	U	0.36	U	0.38	U	0.37	U	0.35	U	0.34	U
7440-47-3	Chromium (Cr)	9.9		14.2		16.9		11.7		14.7	U	10.7	
7439-92-1	Lead (Pb)	11.7		13.3		13.		9.7		10.3		11.2	
7439-97-6	Mercury (Hg)	0.11	U	0.11	U	0.12	U	0.12	U	0.12	U	0.11	U
7782-49-2	Selenium (Se)	0.19		0.28		0.29		0.2		0.58	U	0.57	U
7440-22-4	Silver (Ag)	0.87	U	0.85	U	0.88	U	0.87	U	0.35	U	0.34	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	4HA-1 (1-2')		4HA-1 (2-3')		4HA-2 (1-2')		4HA-2 (2-3')		4HA-4 (1-2')		4HA-4 (2-3')	
	ORIGINAL ID ----->	CED4SHA-1-2		CED4SHA-1-3		CED4SHA-2-2		CED4SHA-2-3		CED4SHA-4-2		CED4SHA-4-3	
	SAMPLE DATE ----->	09/02/93		09/02/93		09/02/93		09/02/93		09/03/93		09/03/93	
	DATE ANALYZED --->	09/28/93		09/29/93		09/29/93		09/29/93		10/06/93		10/05/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E003	VAL	E003	VAL
100-01-6	4-Nitroaniline	1500.	U	1500.	U	15000.	U	46000.	U	1600.	U	1600.	U
100-02-7	4-Nitrophenol	3800.	U	3900.	U	39000.	U	120000.	U	4100.	U	4100.	U
100-51-6	Benzyl alcohol	1500.	U	1500.	U	15000.	U	46000.	U	1600.	U	1600.	U
101-55-3	4-Bromophenyl-phenylether	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
105-67-9	2,4-Dimethylphenol	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
106-44-5	4-Methylphenol (p-Cresol)	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
106-46-7	1,4-Dichlorobenzene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
106-47-8	4-Chloroaniline	1500.	U	1500.	U	15000.	U	46000.	U	12000.		4500.	
108-60-1	bis(2-chloroisopropyl) ether	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
108-95-2	Phenol	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
111-44-4	bis(2-Chloroethyl)ether	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
111-91-1	bis(2-Chloroethoxy)methane	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
117-84-0	Di-n-octylphthalate	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
118-74-1	Hexachlorobenzene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
120-12-7	Anthracene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
120-82-1	1,2,4-Trichlorobenzene	760.	U	790.	U	7800.	U	23000.	U	470.		820.	U
120-83-2	2,4-Dichlorophenol	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
121-14-2	2,4-Dinitrotoluene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
129-00-0	Pyrene	760.	U	790.	U	7800.	U	23000.	U	110.		820.	U
131-11-3	Dimethylphthalate	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
132-64-9	Dibenzofuran	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
191-24-2	Benzo(g,h,i)perylene	NR		NR		NR		NR		NR		NR	
193-39-5	Indeno(1,2,3-cd)pyrene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
205-99-2	Benzo(b)fluoranthene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
206-44-0	Fluoranthene	760.	U	790.	U	7800.	U	23000.	U	130.		820.	U
207-08-9	Benzo(k)fluoranthene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
208-96-8	Acenaphthylene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
218-01-9	Chrysene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
50-32-8	Benzo(a)pyrene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
51-28-5	2,4-Dinitrophenol	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
534-52-1	4,6-Dinitro-2-methylphenol	3800.	U	3900.	U	39000.	U	120000.	U	4100.	U	4100.	U
53-70-3	Dibenz(a,h)anthracene	NR		NR		NR		NR		NR		NR	
541-73-1	1,3-Dichlorobenzene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
56-55-3	Benzo(a)anthracene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
59-50-7	4-Chloro-3-methylphenol	1500.	U	1500.	U	15000.	U	46000.	U	1600.	U	1600.	U
606-20-2	2,6-Dinitrotoluene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
621-64-7	N-Nitroso-di-n-propylamine	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
65-85-0	Benzoic acid	3800.	U	3900.	U	39000.	U	120000.	U	4100.	U	4100.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	4HA-1 (1-2')		4HA-1 (2-3')		4HA-2 (1-2')		4HA-2 (2-3')		4HA-4 (1-2')		4HA-4 (2-3')	
	ORIGINAL ID ----->	CED4SHA-1-2		CED4SHA-1-3		CED4SHA-2-2		CED4SHA-2-3		CED4SHA-4-2		CED4SHA-4-3	
	SAMPLE DATE ----->	09/02/93		09/02/93		09/02/93		09/02/93		09/03/93		09/03/93	
	DATE ANALYZED --->	09/28/93		09/29/93		09/29/93		09/29/93		10/06/93		10/05/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E003	VAL	E003	VAL
67-72-1	Hexachloroethane	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
7005-72-3	4-Chlorophenyl-phenylether	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
709-98-8	Propanil	760.	U	410.		7800.	U	23000.	U	810.	U	820.	U
77-47-4	Hexachlorocyclopentadiene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
78-59-1	Isophorone	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
83-32-9	Acenaphthene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
84-66-2	Diethylphthalate	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
84-74-2	Di-n-butylphthalate	760.	U	790.	U	2700.		23000.	U	810.	U	820.	U
85-01-8	Phenanthrene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
85-68-7	Butylbenzylphthalate	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
86-30-6	N-Nitrosodiphenylamine	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
86-73-7	Fluorene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
87-68-3	Hexachlorobutadiene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
87-86-5	Pentachlorophenol	3800.	U	3900.	U	39000.	U	120000.	U	4100.	U	4100.	U
88-06-2	2,4,6-Trichlorophenol	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
88-74-4	2-Nitroaniline	3800.	U	3900.	U	39000.	U	120000.	U	4100.	U	4100.	U
88-75-5	2-Nitrophenol	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
88-85-7	Dinoseb	760.	U	740.		1100000.		470000.		810.	U	820.	U
91-20-3	Naphthalene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
91-57-6	2-Methylnaphthalene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
91-58-7	2-Chloronaphthalene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
91-94-1	3,3'-Dichlorobenzidine	1500.	U	1500.	U	15000.	U	46000.	U	1600.	U	1600.	U
95-48-7	2-Methylphenol (o-Cresol)	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
95-50-1	1,2-Dichlorobenzene	760.	U	790.	U	7800.	U	23000.	U	160.		820.	U
95-57-8	2-Chlorophenol	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
95-76-1	3,4-Dichloroaniline	1900.		4900.		7400.		23000.	U	810.	U	820.	U
95-95-4	2,4,5-Trichlorophenol	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
98-95-3	Nitrobenzene	760.	U	790.	U	7800.	U	23000.	U	810.	U	820.	U
99-09-2	3-Nitroaniline	3800.	U	3900.	U	39000.	U	120000.	U	4100.	U	4100.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	4HA-4 (2-3')DUP		4HA-5 (1-2')		4HA-5 (2-3')		4HA-6 (1-2')		4HA-7 (6-7')		4HA-7 (7-8')	
	ORIGINAL ID ----->	CED4SHA-4-3		CED4HA5-2		CED4HA5-3		CED4SHA-6-2		CED4SHA-7-2		CED4SHA-7-3	
	SAMPLE DATE ----->	09/03/93		09/15/93		09/15/93		09/03/93		09/03/93		09/03/93	
	DATE ANALYZED --->	10/14/93		10/19/93		10/19/93		10/09/93		10/05/93		10/14/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E003	VAL	E010	VAL	E010	VAL	E003	VAL	E003	VAL	E003	VAL
100-01-6	4-Nitroaniline	1600.	U	16000.	U	16000.	U	2700000.	U	1600.	U	3200.	U
100-02-7	4-Nitrophenol	4100.	U	16000.	U	16000.	U	6800000.	U	4100.	U	8100.	U
100-51-6	Benzyl alcohol	1600.	U	3100.	U	3300.	U	2700000.	U	1600.	U	3200.	U
101-55-3	4-Bromophenyl-phenylether	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
105-67-9	2,4-Dimethylphenol	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
106-44-5	4-Methylphenol (p-Cresol)	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
106-46-7	1,4-Dichlorobenzene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
106-47-8	4-Chloroaniline	1100.		9100.		3300.	U	2700000.	U	1600.	U	3200.	U
108-60-1	bis(2-chloroisopropyl) ether	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
108-95-2	Phenol	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
111-44-4	bis(2-Chloroethyl)ether	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
111-91-1	bis(2-Chloroethoxy)methane	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	810.	U	1300.		3300.	U	1400000.	U	810.	U	1600.	U
117-84-0	Di-n-octylphthalate	810.	U	4300.		3300.	U	1400000.	U	810.	U	1600.	U
118-74-1	Hexachlorobenzene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
120-12-7	Anthracene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
120-82-1	1,2,4-Trichlorobenzene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
120-83-2	2,4-Dichlorophenol	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
121-14-2	2,4-Dinitrotoluene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
129-00-0	Pyrene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
131-11-3	Dimethylphthalate	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
132-64-9	Dibenzofuran	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
191-24-2	Benzo(g,h,i)perylene	NR		3100.	U	3300.	U	NR		NR		NR	
193-39-5	Indeno(1,2,3-cd)pyrene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
205-99-2	Benzo(b)fluoranthene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
206-44-0	Fluoranthene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
207-08-9	Benzo(k)fluoranthene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
208-96-8	Acenaphthylene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
218-01-9	Chrysene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
50-32-8	Benzo(a)pyrene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
51-28-5	2,4-Dinitrophenol	810.	U	16000.	U	16000.	U	1400000.	U	810.	U	1600.	U
534-52-1	4,6-Dinitro-2-methylphenol	4100.	U	16000.	U	16000.	U	6800000.	U	4100.	U	8100.	U
53-70-3	Dibenz(a,h)anthracene	NR		3100.	U	3300.	U	NR		NR		NR	
541-73-1	1,3-Dichlorobenzene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
56-55-3	Benzo(a)anthracene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
59-50-7	4-Chloro-3-methylphenol	1600.	U	3100.	U	3300.	U	2700000.	U	1600.	U	3200.	U
606-20-2	2,6-Dinitrotoluene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
621-64-7	N-Nitroso-di-n-propylamine	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
65-85-0	Benzoic acid	4100.	U	16000.	U	16000.	U	6800000.	U	4100.	U	8100.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	4HA-4 (2-3')DUP		4HA-5 (1-2')		4HA-5 (2-3')		4HA-6 (1-2')		4HA-7 (6-7')		4HA-7 (7-8')	
	ORIGINAL ID ----->	CED4SHA-4-3		CED4HA5-2		CED4HA5-3		CED4SHA-6-2		CED4SHA-7-2		CED4SHA-7-3	
	SAMPLE DATE ----->	09/03/93		09/15/93		09/15/93		09/03/93		09/03/93		09/03/93	
	DATE ANALYZED --->	10/14/93		10/19/93		10/19/93		10/09/93		10/05/93		10/14/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E003	VAL	E010	VAL	E010	VAL	E003	VAL	E003	VAL	E003	VAL
67-72-1	Hexachloroethane	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
7005-72-3	4-Chlorophenyl-phenylether	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
709-98-8	Propanil	810.	U	49000.		130000.		1400000.	U	810.	U	1600.	U
77-47-4	Hexachlorocyclopentadiene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
78-59-1	Isophorone	810.	U	730.		3300.	U	1400000.	U	810.	U	1600.	U
83-32-9	Acenaphthene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
84-66-2	Diethylphthalate	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
84-74-2	Di-n-butylphthalate	810.	U	460.		3300.	U	1400000.	U	810.	U	1600.	U
85-01-8	Phenanthrene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
85-68-7	Butylbenzylphthalate	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
86-30-6	N-Nitrosodiphenylamine	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
86-73-7	Fluorene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
87-68-3	Hexachlorobutadiene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
87-86-5	Pentachlorophenol	4100.	U	16000.	U	16000.	U	6800000.	U	4100.	U	8100.	U
88-06-2	2,4,6-Trichlorophenol	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
88-74-4	2-Nitroaniline	4100.	U	16000.	U	16000.	U	6800000.	U	4100.	U	8100.	U
88-75-5	2-Nitrophenol	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
88-85-7	Dinoseb	810.	U	30000.		920000.		1400000.	U	98000.		19000.	
91-20-3	Naphthalene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
91-57-6	2-Methylnaphthalene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
91-58-7	2-Chloronaphthalene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
91-94-1	3,3'-Dichlorobenzidine	1600.	U	6200.	U	6500.	U	2700000.	U	1600.	U	3200.	U
95-48-7	2-Methylphenol (o-Cresol)	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
95-50-1	1,2-Dichlorobenzene	350.		1700.		3300.	U	1400000.	U	810.	U	1600.	U
95-57-8	2-Chlorophenol	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
95-76-1	3,4-Dichloroaniline	810.	U	2500000.		400000.		12000000.		810.	U	1600.	U
95-95-4	2,4,5-Trichlorophenol	810.	U	16000.	U	16000.	U	1400000.	U	810.	U	1600.	U
98-95-3	Nitrobenzene	810.	U	3100.	U	3300.	U	1400000.	U	810.	U	1600.	U
99-09-2	3-Nitroaniline	4100.	U	16000.	U	16000.	U	6800000.	U	4100.	U	8100.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	4HA-8 (6-7')		4HA-8 (7-8')		4MW-1		4MW-1 (10-15')		4MW-1 (25-30')		4MW-2	
	ORIGINAL ID ----->	CED4SHA-8-2		CED4SHA-8-3		CED4GWMW1		CED4SMW13		CED4SMW16		CED4GWMW2	
	SAMPLE DATE ----->	09/03/93		09/03/93		09/29/93		09/16/93		09/17/93		09/29/93	
	DATE ANALYZED --->	10/05/93		10/05/93		10/26/93		10/16/93		10/16/93		10/26/93	
	MATRIX ---------->	Soil		Soil		Water		Soil		Soil		Water	
	UNITS ----------->	UG/KG		UG/KG		UG/L		UG/KG		UG/KG		UG/L	
CAS #	Parameter	E003	VAL	E003	VAL	E015	VAL	E011	VAL	E011	VAL	E015	VAL
100-01-6	4-Nitroaniline	1600.	U	1600.	U	50.	U	5100.	U	1100.	U	50.	U
100-02-7	4-Nitrophenol	4100.	U	4000.	U	50.	U	5100.	U	2.		50.	U
100-51-6	Benzyl alcohol	1600.	U	1600.	U	10.	U	NR		NR		10.	U
101-55-3	4-Bromophenyl-phenylether	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
105-67-9	2,4-Dimethylphenol	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	810.	U	800.	U	23.		2100.	U	430.	U	10.	U
106-46-7	1,4-Dichlorobenzene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
106-47-8	4-Chloroaniline	1600.	U	1600.	U	23.		2100.	U	430.	U	5.	
108-60-1	bis(2-chloroisopropyl) ether	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
108-95-2	Phenol	810.	U	800.	U	10.	U	2100.	U	7.		10.	U
111-44-4	bis(2-Chloroethyl)ether	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	810.	U	800.	U	10.	U	2100.	U	430.	U	12.	U
117-84-0	Di-n-octylphthalate	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
118-74-1	Hexachlorobenzene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
120-12-7	Anthracene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
120-83-2	2,4-Dichlorophenol	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
121-14-2	2,4-Dinitrotoluene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
129-00-0	Pyrene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
131-11-3	Dimethylphthalate	810.	U	170.		10.	U	2100.	U	430.	U	10.	U
132-64-9	Dibenzofuran	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	NR		NR		10.	U	2100.	U	430.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
205-99-2	Benzo(b)fluoranthene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
206-44-0	Fluoranthene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
207-08-9	Benzo(k)fluoranthene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
208-96-8	Acenaphthylene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
218-01-9	Chrysene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
50-32-8	Benzo(a)pyrene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
51-28-5	2,4-Dinitrophenol	810.	U	800.	U	50.	U	5100.	U	1100.	U	110.	
534-52-1	4,6-Dinitro-2-methylphenol	4100.	U	4000.	U	50.	U	5100.	U	1100.	U	50.	U
53-70-3	Dibenz(a,h)anthracene	NR		NR		10.	U	2100.	U	430.	U	10.	U
541-73-1	1,3-Dichlorobenzene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
56-55-3	Benzo(a)anthracene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	1600.	U	1600.	U	10.	U	2100.	U	430.	U	10.	U
606-20-2	2,6-Dinitrotoluene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
65-85-0	Benzoic acid	4100.	U	4000.	U	57.		NR		NR		50.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	4HA-8 (6-7')		4HA-8 (7-8')		4MW-1		4MW-1 (10-15')		4MW-1 (25-30')		4MW-2	
	ORIGINAL ID ----->	CED4SHA-8-2		CED4SHA-8-3		CED4GWMW1		CED4SMW13		CED4SMW16		CED4GWMW2	
	SAMPLE DATE ----->	09/03/93		09/03/93		09/29/93		09/16/93		09/17/93		09/29/93	
	DATE ANALYZED --->	10/05/93		10/05/93		10/26/93		10/16/93		10/16/93		10/26/93	
	MATRIX ---------->	Soil		Soil		Water		Soil		Soil		Water	
	UNITS ---------->	UG/KG		UG/KG		UG/L		UG/KG		UG/KG		UG/L	
CAS #	Parameter	E003	VAL	E003	VAL	E015	VAL	E011	VAL	E011	VAL	E015	VAL
67-72-1	Hexachloroethane	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
7005-72-3	4-Chlorophenyl-phenylether	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
709-98-8	Propanil	810.	U	800.	U	45.		5100.	U	64.		10.	U
77-47-4	Hexachlorocyclopentadiene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
78-59-1	Isophorone	810.	U	800.	U	17.		2100.	U	430.	U	2.	
83-32-9	Acenaphthene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
84-66-2	Diethylphthalate	810.	U	800.	U	1.		2100.	U	430.	U	10.	U
84-74-2	Di-n-butylphthalate	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
85-01-8	Phenanthrene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
85-68-7	Butylbenzylphthalate	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
86-30-6	N-Nitrosodiphenylamine	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
86-73-7	Fluorene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
87-68-3	Hexachlorobutadiene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
87-86-5	Pentachlorophenol	4100.	U	4000.	U	50.	U	5100.	U	1100.	U	50.	U
88-06-2	2,4,6-Trichlorophenol	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
88-74-4	2-Nitroaniline	4100.	U	4000.	U	50.	U	5100.	U	1100.	U	50.	U
88-75-5	2-Nitrophenol	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
88-85-7	Dinoseb	73000.		26000.		50.	U	6300.		1100.	U	41000.	
91-20-3	Naphthalene	810.	U	800.	U	2.		2100.	U	430.	U	10.	U
91-57-6	2-Methylnaphthalene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
91-58-7	2-Chloronaphthalene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	1600.	U	1600.	U	20.	U	2100.	U	430.	U	20.	U
95-48-7	2-Methylphenol (o-Cresol)	810.	U	800.	U	15.		2100.	U	2.		10.	U
95-50-1	1,2-Dichlorobenzene	810.	U	800.	U	960.		2100.	U	430.	U	33.	
95-57-8	2-Chlorophenol	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
95-76-1	3,4-Dichloroaniline	810.	U	800.	U	66.		5100.	U	12.		22.	
95-95-4	2,4,5-Trichlorophenol	810.	U	800.	U	50.	U	5100.	U	1100.	U	50.	U
98-95-3	Nitrobenzene	810.	U	800.	U	10.	U	2100.	U	430.	U	10.	U
99-09-2	3-Nitroaniline	4100.	U	4000.	U	50.	U	NR		NR		50.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	4MW-2 DUP		4MW-2 (25-30')		IMSB-1 (3-8')		IMSB-1 (8-12')		IMSB-2 (5-10')		IMSB-2 (10-15')	
	ORIGINAL ID ----->	CED4GWMW20		CED4SMW26		IM-SB-01-2		IM-SB-01-3		IM-SB-02-2		IM-SB-02-3	
	SAMPLE DATE ----->	09/29/93		09/22/93		04/08/93		04/08/93		04/08/93		04/08/93	
	DATE ANALYZED --->	10/26/93		10/15/93		04/22/93		04/20/93		04/20/93		04/21/93	
	MATRIX ---------->	Water		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/L		UG/KG		UG/L		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E015	VAL	E011	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
100-01-6	4-Nitroaniline	50.	U	1000.	U	4100.	U	4300.	U	4200.	U	4300.	U
100-02-7	4-Nitrophenol	100.	U	1000.	U	4100.	U	4300.	U	4200.	U	4300.	U
100-51-6	Benzyl alcohol	10.	U	NR		1600.	U	1700.	U	1700.	U	1700.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
105-67-9	2,4-Dimethylphenol	20.	U	430.	U	820.	U	860.	U	850.	U	850.	U
106-44-5	4-Methylphenol (p-Cresol)	20.	U	430.	U	820.	U	860.	U	850.	U	850.	U
106-46-7	1,4-Dichlorobenzene	2.		430.	U	820.	U	860.	U	850.	U	850.	U
106-47-8	4-Chloroaniline	5.		430.	U	1600.	U	1700.	U	1700.	U	1700.	U
108-60-1	bis(2-chloroisopropyl) ether	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
108-95-2	Phenol	20.	U	430.	U	820.	U	860.	U	850.	U	850.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	37.	U	430.	U	820.	U	860.	U	850.	U	850.	U
117-84-0	Di-n-octylphthalate	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
118-74-1	Hexachlorobenzene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
120-12-7	Anthracene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
120-83-2	2,4-Dichlorophenol	20.	U	430.	U	820.	U	860.	U	850.	U	850.	U
121-14-2	2,4-Dinitrotoluene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
129-00-0	Pyrene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
131-11-3	Dimethylphthalate	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
132-64-9	Dibenzofuran	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
205-99-2	Benzo(b)fluoranthene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
206-44-0	Fluoranthene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
207-08-9	Benzo(k)fluoranthene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
208-96-8	Acenaphthylene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
218-01-9	Chrysene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
50-32-8	Benzo(a)pyrene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
51-28-5	2,4-Dinitrophenol	109.		1000.	U	4100.	U	4300.	U	4200.	U	4300.	U
534-52-1	4,6-Dinitro-2-methylphenol	100.	U	1000.	U	4100.	U	4300.	U	4200.	U	4300.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
541-73-1	1,3-Dichlorobenzene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
56-55-3	Benzo(a)anthracene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	430.	U	1600.	U	1700.	U	1700.	U	1700.	U
606-20-2	2,6-Dinitrotoluene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
65-85-0	Benzoic acid	50.	U	NR		4100.	U	4300.	U	4200.	U	4300.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	4MW-2 DUP		4MW-2 (25-30')		IMSB-1 (3-8')		IMSB-1 (8-12')		IMSB-2 (5-10')		IMSB-2 (10-15')	
	ORIGINAL ID ----->	CED4GWMW2D		CED4SMW26		IM-SB-01-2		IM-SB-01-3		IM-SB-02-2		IM-SB-02-3	
	SAMPLE DATE ----->	09/29/93		09/22/93		04/08/93		04/08/93		04/08/93		04/08/93	
	DATE ANALYZED --->	10/26/93		10/15/93		04/22/93		04/20/93		04/20/93		04/21/93	
	MATRIX ---------->	Water		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/L		UG/KG		UG/L		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E015	VAL	E011	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
67-72-1	Hexachloroethane	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
709-98-8	Propanil	10.	U	1000.	U	4100.	U	4300.	U	4200.	U	8800.	
77-47-4	Hexachlorocyclopentadiene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
78-59-1	Isophorone	2.		430.	U	820.	U	860.	U	850.	U	850.	U
83-32-9	Acenaphthene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
84-66-2	Diethylphthalate	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
84-74-2	Di-n-butylphthalate	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
85-01-8	Phenanthrene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
85-68-7	Butylbenzylphthalate	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
86-73-7	Fluorene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
87-68-3	Hexachlorobutadiene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
87-86-5	Pentachlorophenol	100.	U	1000.	U	4100.	U	4300.	U	4200.	U	4300.	U
88-06-2	2,4,6-Trichlorophenol	20.	U	430.	U	820.	U	860.	U	850.	U	850.	U
88-74-4	2-Nitroaniline	50.	U	1000.	U	4100.	U	4300.	U	4200.	U	4300.	U
88-75-5	2-Nitrophenol	20.	U	430.	U	820.	U	860.	U	850.	U	850.	U
88-85-7	Dinoseb	47000.		45.		63000.		1700.	U	2900.		1700.	U
91-20-3	Naphthalene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
91-57-6	2-Methylnaphthalene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
91-58-7	2-Chloronaphthalene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	430.	U	1600.	U	1700.	U	1700.	U	1700.	U
95-48-7	2-Methylphenol (o-Cresol)	20.	U	430.	U	820.	U	860.	U	850.	U	850.	U
95-50-1	1,2-Dichlorobenzene	35.		430.	U	820.	U	860.	U	850.	U	850.	U
95-57-8	2-Chlorophenol	20.	U	430.	U	820.	U	860.	U	850.	U	850.	U
95-76-1	3,4-Dichloroaniline	26.		1000.	U	1600.	U	1700.	U	6700.		1700.	U
95-95-4	2,4,5-Trichlorophenol	100.	U	1000.	U	820.	U	860.	U	850.	U	850.	U
98-95-3	Nitrobenzene	10.	U	430.	U	820.	U	860.	U	850.	U	850.	U
99-09-2	3-Nitroaniline	50.	U	NR		4100.	U	4300.	U	4200.	U	4300.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	IMSB-3 (5-10')		IMSB-3 (10-15')		IMSB-4 (5-10')		IMSB-4 (10-15')		IMSB-5 (5-10')		IMSB-5 (10-15')	
	ORIGINAL ID ----->	IM-SB-03-2		IM-SB-03-3		IM-SB-04-2		IMSB043		IM-SB-05-2		IM-SB-05-3	
	SAMPLE DATE ----->	04/09/93		04/09/93		04/09/93		04/09/93		04/09/93		04/09/93	
	DATE ANALYZED --->	04/21/93		04/21/93		04/22/93		04/21/93		04/22/93		04/22/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
100-01-6	4-Nitroaniline	4100.	U	4200.	U	4200.	U	4300.	U	4200.	U	4200.	U
100-02-7	4-Nitrophenol	4100.	U	4200.	U	4200.	U	4300.	U	4200.	U	4200.	U
100-51-6	Benzyl alcohol	1600.	U	1700.	U	1600.	U	1700.	U	1600.	U	1600.	U
101-55-3	4-Bromophenyl-phenylether	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
105-67-9	2,4-Dimethylphenol	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
106-44-5	4-Methylphenol (p-Cresol)	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
106-46-7	1,4-Dichlorobenzene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
106-47-8	4-Chloroaniline	1600.	U	1700.	U	1600.	U	1700.	U	1600.	U	1600.	U
108-60-1	bis(2-chloroisopropyl) ether	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
108-95-2	Phenol	1000.		850.	U	840.	U	850.	U	830.	U	830.	U
111-44-4	bis(2-Chloroethyl)ether	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
111-91-1	bis(2-Chloroethoxy)methane	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
117-84-0	Di-n-octylphthalate	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
118-74-1	Hexachlorobenzene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
120-12-7	Anthracene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
120-82-1	1,2,4-Trichlorobenzene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
120-83-2	2,4-Dichlorophenol	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
121-14-2	2,4-Dinitrotoluene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
129-00-0	Pyrene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
131-11-3	Dimethylphthalate	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
132-64-9	Dibenzofuran	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
191-24-2	Benzo(g,h,i)perylene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
193-39-5	Indeno(1,2,3-cd)pyrene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
205-99-2	Benzo(b)fluoranthene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
206-44-0	Fluoranthene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
207-08-9	Benzo(k)fluoranthene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
208-96-8	Acenaphthylene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
218-01-9	Chrysene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
50-32-8	Benzo(a)pyrene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
51-28-5	2,4-Dinitrophenol	4100.	U	4200.	U	4200.	U	4300.	U	4200.	U	4200.	U
534-52-1	4,6-Dinitro-2-methylphenol	4100.	U	4200.	U	4200.	U	4300.	U	4200.	U	4200.	U
53-70-3	Dibenz(a,h)anthracene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
541-73-1	1,3-Dichlorobenzene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
56-55-3	Benzo(a)anthracene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
59-50-7	4-Chloro-3-methylphenol	1600.	U	1700.	U	1600.	U	1700.	U	1600.	U	1600.	U
606-20-2	2,6-Dinitrotoluene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
621-64-7	N-Nitroso-di-n-propylamine	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
65-85-0	Benzoic acid	4100.	U	4200.	U	4200.	U	4300.	U	4200.	U	4200.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	IMSB-3 (5-10')		IMSB-3 (10-15')		IMSB-4 (5-10')		IMSB-4 (10-15')		IMSB-5 (5-10')		IMSB-5 (10-15')	
	ORIGINAL ID ----->	IM-SB-03-2		IM-SB-03-3		IM-SB-04-2		IMSB043		IM-SB-05-2		IM-SB-05-3	
	SAMPLE DATE ----->	04/09/93		04/09/93		04/09/93		04/09/93		04/09/93		04/09/93	
	DATE ANALYZED --->	04/21/93		04/21/93		04/22/93		04/21/93		04/22/93		04/22/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
67-72-1	Hexachloroethane	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
7005-72-3	4-Chlorophenyl-phenylether	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
709-98-8	Propanil	4100.	U	4200.	U	4200.	U	4300.	U	4200.	U	4200.	U
77-47-4	Hexachlorocyclopentadiene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
78-59-1	Isophorone	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
83-32-9	Acenaphthene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
84-66-2	Diethylphthalate	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
84-74-2	Di-n-butylphthalate	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
85-01-8	Phenanthrene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
85-68-7	Butylbenzylphthalate	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
86-30-6	N-Nitrosodiphenylamine	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
86-73-7	Fluorene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
87-68-3	Hexachlorobutadiene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
87-86-5	Pentachlorophenol	4100.	U	4200.	U	4200.	U	4300.	U	4200.	U	4200.	U
88-06-2	2,4,6-Trichlorophenol	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
88-74-4	2-Nitroaniline	4100.	U	4200.	U	4200.	U	4300.	U	4200.	U	4200.	U
88-75-5	2-Nitrophenol	820.	U	850.	U	840.	U	850.	U	830.	U	1600.	U
88-85-7	Dinoseb	12000.		1700.	U	1600.	U	1700.	U	1600.	U	830.	U
91-20-3	Naphthalene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
91-57-6	2-Methylnaphthalene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
91-58-7	2-Chloronaphthalene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
91-94-1	3,3'-Dichlorobenzidine	1600.	U	1700.	U	1600.	U	1700.	U	1600.	U	1600.	U
95-48-7	2-Methylphenol (o-Cresol)	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
95-50-1	1,2-Dichlorobenzene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
95-57-8	2-Chlorophenol	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
95-76-1	3,4-Dichloroaniline	2600.		1700.	U	1600.	U	1700.	U	1600.	U	1600.	U
95-95-4	2,4,5-Trichlorophenol	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
98-95-3	Nitrobenzene	820.	U	850.	U	840.	U	850.	U	830.	U	830.	U
99-09-2	3-Nitroaniline	4100.	U	4200.	U	4200.	U	4300.	U	4200.	U	4200.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	BGHA-2 (0-1')		BGHA-3 (0-1')		EMW-1		EMW-2		EMW-3 DUP		EMW-3	
	ORIGINAL ID ----->	CEDSBG2		CEDSBG3		CEDE-GWMW-1		CEDE-GWMW-2		CEDE-GWMW-3D		CEDE-GWMW-3	
	SAMPLE DATE ----->	09/16/93		09/16/93		09/22/93		09/22/93		09/23/93		09/23/93	
	DATE ANALYZED --->	10/15/93		10/15/93		10/19/93		10/19/93		10/19/93		10/19/93	
	MATRIX ---------->	Soil		Soil		Water		Water		Soil		Water	
	UNITS ----------->	UG/KG		UG/KG		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E011	VAL	E011	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
100-01-6	4-Nitroaniline	950.	U	920.	U	50.	U	50.	U	50.	U	50.	U
100-02-7	4-Nitrophenol	950.	U	920.	U	50.	U	50.	U	50.	U	250.	U
100-51-6	Benzyl alcohol	NR		NR		10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	390.	U	380.	U	10.	U	10.	U	10.	U	2.	
106-44-5	4-Methylphenol (p-Cresol)	390.	U	380.	U	10.	U	1.		10.	U	50.	U
106-46-7	1,4-Dichlorobenzene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	390.	U	380.	U	10.	U	10.	U	44.		40.	
108-60-1	bis(2-chloroisopropyl) ether	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	390.	U	380.	U	10.	U	10.	U	10.	U	50.	U
111-44-4	bis(2-Chloroethyl)ether	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	390.	U	380.	U	22.	U	28.	U	15.	U	27.	U
117-84-0	Di-n-octylphthalate	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	390.	U	380.	U	10.	U	10.	U	2.		2.	
120-83-2	2,4-Dichlorophenol	390.	U	380.	U	10.	U	10.	U	10.	U	2.	
121-14-2	2,4-Dinitrotoluene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
131-11-3	Dimethylphthalate	390.	U	380.	U	10.		10.	U	10.	U	10.	U
132-64-9	Dibenzofuran	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	950.	U	920.	U	50.	U	50.	U	50.	U	250.	U
534-52-1	4,6-Dinitro-2-methylphenol	950.	U	920.	U	50.	U	50.	U	50.	U	250.	U
53-70-3	Dibenz(a,h)anthracene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	390.	U	380.	U	10.	U	10.	U	10.	U	50.	U
606-20-2	2,6-Dinitrotoluene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	NR		NR		50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	BGHA-2 (0-1')		BGHA-3 (0-1')		EMW-1		EMW-2		EMW-3 DUP		EMW-3	
	ORIGINAL ID ----->	CEDSBG2		CEDSBG3		CEDE-GWMW-1		CEDE-GWMW-2		CEDE-GWMW-3D		CEDE-GWMW-3	
	SAMPLE DATE ----->	09/16/93		09/16/93		09/22/93		09/22/93		09/23/93		09/23/93	
	DATE ANALYZED --->	10/15/93		10/15/93		10/19/93		10/19/93		10/19/93		10/19/93	
	MATRIX ---------->	Soil		Soil		Water		Water		Soil		Water	
	UNITS ----------->	UG/KG		UG/KG		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E011	VAL	E011	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
67-72-1	Hexachloroethane	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenyl-phenylether	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
709-98-8	Propanil	950.	U	920.	U	10.	U	10.	U	24.		31.	U
77-47-4	Hexachlorocyclopentadiene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	390.	U	380.	U	10.	U	10.	U	6.		6.	
83-32-9	Acenaphthene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	390.	U	380.	U	10.	U	10.	U	2.		2.	
84-74-2	Di-n-butylphthalate	390.	U	2.		10.	U	10.	U	10.	U	10.	U
85-01-8	Phenanthrene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
86-30-6	N-Nitrosodiphenylamine	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	950.	U	920.	U	50.	U	50.	U	50.	U	250.	U
88-06-2	2,4,6-Trichlorophenol	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	950.	U	920.	U	50.	U	50.	U	50.	U	50.	U
88-75-5	2-Nitrophenol	390.	U	380.	U	10.	U	10.	U	10.	U	50.	U
88-85-7	Dinoseb	950.	U	920.	U	42.		50.	U	94.		140.	
91-20-3	Naphthalene	390.	U	380.	U	10.	U	10.	U	4.		4.	
91-57-6	2-Methylnaphthalene	390.	U	380.	U	10.	U	10.	U	1.		1.	
91-58-7	2-Chloronaphthalene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	390.	U	380.	U	20.	U	20.	U	20.	U	20.	U
95-48-7	2-Methylphenol (o-Cresol)	390.	U	380.	U	2.		10.	U	10.	U	50.	U
95-50-1	1,2-Dichlorobenzene	390.	U	380.	U	10.	U	1.		300.		310.	
95-57-8	2-Chlorophenol	390.	U	380.	U	10.	U	10.	U	10.	U	50.	U
95-76-1	3,4-Dichloroaniline	950.	U	920.	U	19.	U	10.	U	770.		670.	
95-95-4	2,4,5-Trichlorophenol	950.	U	920.	U	50.	U	50.	U	50.	U	250.	U
98-95-3	Nitrobenzene	390.	U	380.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	NR		NR		50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	EMW-4		EMW-6		EMW-7		EMW-6A		EMW-6B	
	ORIGINAL ID ----->	CEDE-GWMW-4		CEDE-GWMW-6		CEDE-GWMW-7		CEDE-GWMW-6A		CEDE-GWMW-6B	
	SAMPLE DATE ----->	09/23/93		09/24/93		09/23/93		09/24/93		09/24/93	
	DATE ANALYZED --->	10/19/93		10/20/93		10/20/93		10/20/93		10/21/93	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	250.	U
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	250.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	50.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	50.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	50.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	50.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	50.	U
106-47-8	4-Chloroaniline	130.		10.	U	65.		10.	U	5900.	
108-60-1	bis(2-chloroisopropyl) ether	10.	U	10.	U	10.	U	10.	U	50.	U
108-95-2	Phenol	1.		10.	U	10.	U	10.	U	50.	U
111-44-4	bis(2-Chloroethyl)ether	5.		10.	U	10.	U	10.	U	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	50.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	58.	U	10.	U	10.	U	10.	U	50.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	50.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	50.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	50.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	50.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	50.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	50.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	50.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	50.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	50.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	50.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	50.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	50.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	50.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	50.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	50.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	50.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	250.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	50.	U	50.	U	50.	U	250.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	50.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	50.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	50.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	50.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	13.		10.	U	50.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	50.	U
65-85-0	Benzoic acid	50.	U	50.	U	50.	U	50.	U	250.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	EMW-4		EMW-6		EMW-7		EMW-6A		EMW-6B	
	ORIGINAL ID ----->	CEDE-GWMW-4		CEDE-GWMW-6		CEDE-GWMW-7		CEDE-GWMW-6A		CEDE-GWMW-6B	
	SAMPLE DATE ----->	09/23/93		09/24/93		09/23/93		09/24/93		09/24/93	
	DATE ANALYZED --->	10/19/93		10/20/93		10/20/93		10/20/93		10/21/93	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	50.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	50.	U
709-98-8	Propanil	10.	U	10.	U	10.	U	10.	U	18.	
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	50.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	50.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	50.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	50.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	50.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	50.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	50.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	50.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	250.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	50.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	250.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	50.	U
88-85-7	Dinoseb	50.	U	50.	U	50.	U	50.	U	250.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	15.	
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	6.	
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	50.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	100.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	50.	U
95-50-1	1,2-Dichlorobenzene	7.		10.	U	10.	U	10.	U	130.	
95-57-8	2-Chlorophenol	10.	U	10.	U	1.		10.	U	50.	U
95-76-1	3,4-Dichloroaniline	63.	U	10.	U	10.	U	10.	U	58000.	
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	250.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	50.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	250.	U

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	4HA-1 (1-2')		4HA-1 (2-3')		4HA-2 (1-2')		4HA-2 (2-3')		4HA-4 (1-2')		4HA-4 (2-3')	
	ORIGINAL ID ----->	CED4SHA-1-2		CED4SHA-1-3		CED4SHA-2-2		CED4SHA-2-3		CED4SHA-4-2		CED4SHA-4-3	
	SAMPLE DATE ----->	09/02/93		09/02/93		09/02/93		09/02/93		09/03/93		09/03/93	
	DATE ANALYZED --->	09/09/93		09/09/93		09/09/93		09/09/93		09/10/93		09/10/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E002	VAL	E002	VAL	E002	VAL	E002	VAL	E003	VAL	E003	VAL
100-41-4	Ethylbenzene	6.	U	6.	U	150.		110.		6.	U	6.	U
100-42-5	Styrene	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
107-06-2	1,2-Dichloroethane	6.	U	6.	U	17.	U	15.	U	25.		350.	
108-05-4	Vinyl acetate	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	57.	U	56.	U	170.	U	150.	U	64.	U	65.	U
108-88-3	Toluene	6.	U	6.	U	500.		290.		45.		230.	
108-90-7	Chlorobenzene	6.	U	6.	U	7.		15.	U	6.	U	6.	U
124-48-1	Dibromochloromethane	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
127-18-4	Tetrachloroethene	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
1330-20-7	Xylene (total)	6.	U	6.	U	340.		270.		6.	U	1.	
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
56-23-5	Carbon tetrachloride	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
591-78-6	2-Hexanone	57.	U	56.	U	170.	U	150.	U	64.	U	65.	U
67-64-1	Acetone	11.	U	11.	U	35.	U	29.	U	31.		20.	
67-66-3	Chloroform	6.	U	6.	U	17.	U	15.	U	6.	U	25.	
71-43-2	Benzene	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
74-83-9	Bromomethane	11.	U	11.	U	35.	U	29.	U	13.	U	13.	U
74-87-3	Chloromethane	11.	U	11.	U	35.	U	29.	U	13.	U	13.	U
75-00-3	Chloroethane	11.	U	11.	U	35.	U	29.	U	13.	U	13.	U
75-01-4	Vinyl chloride	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
75-09-2	Methylene chloride	6.	U	6.	U	17.	U	15.	U	1.		3.	
75-15-0	Carbon disulfide	6.	U	6.	U	120.		68.		6.	U	16.	
75-25-2	Bromoform	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
75-27-4	Bromodichloromethane	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
75-34-3	1,1-Dichloroethane	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
75-35-4	1,1-Dichloroethene	6.	U	6.	U	17.	U	15.	U	6.	U	2.	
78-87-5	1,2-Dichloropropane	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
78-93-3	2-Butanone (MEK)	11.	U	11.	U	43.		29.	U	17.		19.	
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
79-01-6	Trichloroethene	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	17.	U	15.	U	6.	U	6.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	4HA-4 (2-3')DUP		4HA-5 (1-2')		4HA-5 (2-3')		4HA-6 (1-2')		4HA-7 (6-7')		4HA-7 (7-8')	
	ORIGINAL ID ----->	CED4SHA-4-3		CED4-HA5-2		CED4-HA5-3		CED4SHA-6-2		CED4SHA-7-2		CED4SHA-7-3	
	SAMPLE DATE ----->	09/03/93		09/15/93		09/15/93		09/03/93		09/03/93		09/03/93	
	DATE ANALYZED --->	09/10/93		09/24/93		09/24/93		09/11/93		09/11/93		09/11/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E003	VAL	E010	VAL	E010	VAL	E003	VAL	E003	VAL	E003	VAL
100-41-4	Ethylbenzene	12.	U	29.	U	110.		8.		6.	U	6.	U
100-42-5	Styrene	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
10061-02-6	trans-1,3-Dichloropropene	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
107-06-2	1,2-Dichloroethane	320.		29.	U	6.	U	11.	U	31.		26.	
108-05-4	Vinyl acetate	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	120.	U	32.		120.		28.		59.	U	62.	U
108-88-3	Toluene	220.		830.		10000.		100.		6.	U	6.	U
108-90-7	Chlorobenzene	12.	U	29.	U	35.		3.		6.	U	6.	U
124-48-1	Dibromochloromethane	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
127-18-4	Tetrachloroethene	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
1330-20-7	Xylene (total)	12.	U	71.		4400.		290.		6.	U	6.	U
540-59-0	1,2-Dichloroethene (total)	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
56-23-5	Carbon tetrachloride	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
591-78-6	2-Hexanone	120.	U	290.	U	7400.	U	110.	U	59.	U	62.	U
67-64-1	Acetone	24.	U	59.	U	110.		130.		12.		12.	
67-66-3	Chloroform	26.		29.	U	6.	U	11.	U	6.	U	6.	U
71-43-2	Benzene	12.	U	29.	U	2.		11.	U	6.	U	6.	U
71-55-6	1,1,1-Trichloroethane	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
74-83-9	Bromomethane	24.	U	59.	U	12.	U	23.	U	12.	U	12.	U
74-87-3	Chloromethane	24.	U	59.	U	12.	U	23.	U	12.	U	12.	U
75-00-3	Chloroethane	24.	U	59.	U	12.	U	23.	U	12.	U	12.	U
75-01-4	Vinyl chloride	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
75-09-2	Methylene chloride	3.		29.	U	5.		11.	U	6.	U	6.	U
75-15-0	Carbon disulfide	16.		29.	U	6.	U	11.	U	6.	U	6.	U
75-25-2	Bromoform	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
75-27-4	Bromodichloromethane	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
75-34-3	1,1-Dichloroethane	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
75-35-4	1,1-Dichloroethene	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
78-87-5	1,2-Dichloropropane	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
78-93-3	2-Butanone (MEK)	24.	U	59.	U	28.		54.		12.	U	12.	U
79-00-5	1,1,2-Trichloroethane	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
79-01-6	Trichloroethene	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U	29.	U	6.	U	11.	U	6.	U	6.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	4HA-8 (6-7')		4HA-8 (7-8')		4MW-1		4MW-1 (10-15')		4MW-1 (25-30')		4MW-2	
	ORIGINAL ID ----->	CED4SHA-8-2		CED4SHA-8-3		CED4GWMW1		CED4-SMW1-3		CED4-SMW1-6		CED4GWMW2	
	SAMPLE DATE ----->	09/03/93		09/03/93		09/29/93		09/16/93		09/17/93		09/29/93	
	DATE ANALYZED --->	09/11/93		09/11/93		10/11/93		09/28/93		10/01/93		10/10/93	
	MATRIX ---------->	Soil		Soil		Water		Soil		Soil		Water	
	UNITS ----------->	UG/KG		UG/KG		UG/L		UG/KG		UG/KG		UG/L	
CAS #	Parameter	E003	VAL	E003	VAL	E015	VAL	E011	VAL	E011	VAL	E015	VAL
100-41-4	Ethylbenzene	6.	U	6.	U	5000.	U	9.		33.	U	50.	U
100-42-5	Styrene	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
107-06-2	1,2-Dichloroethane	6.	U	6.	U	5800.		120.		650.		210.	
108-05-4	Vinyl acetate	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	58.	U	62.	U	50000.	U	31.		23.		500.	U
108-88-3	Toluene	6.	U	6.	U	110000.		56000.		670.		80.	
108-90-7	Chlorobenzene	6.	U	6.	U	5000.	U	29.	U	33.	U	31.	
124-48-1	Dibromochloromethane	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
127-18-4	Tetrachloroethene	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
1330-20-7	Xylene (total)	6.	U	6.	U	1400.		96.		68.		38.	
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
56-23-5	Carbon tetrachloride	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
591-78-6	2-Hexanone	58.	U	62.	U	50000.	U	290.	U	330.	U	500.	U
67-64-1	Acetone	12.	U	12.	U	10000.	U	99.		1200.		100.	U
67-66-3	Chloroform	6.	U	6.	U	5000.	U	12.		33.	U	1400.	
71-43-2	Benzene	6.	U	6.	U	5000.	U	29.		33.	U	46.	
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
74-83-9	Bromomethane	12.	U	12.	U	10000.	U	58.	U	66.	U	100.	U
74-87-3	Chloromethane	12.	U	12.	U	10000.	U	58.	U	66.	U	100.	U
75-00-3	Chloroethane	12.	U	12.	U	10000.	U	58.	U	66.	U	100.	U
75-01-4	Vinyl chloride	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
75-09-2	Methylene chloride	6.	U	6.	U	5000.	U	130.		270.		1300.	U
75-15-0	Carbon disulfide	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
75-25-2	Bromoform	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
75-27-4	Bromodichloromethane	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
75-34-3	1,1-Dichloroethane	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
75-35-4	1,1-Dichloroethene	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
78-87-5	1,2-Dichloropropane	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
78-93-3	2-Butanone (MEK)	12.	U	12.	U	10000.	U	58.	U	66.	U	100.	U
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U
79-01-6	Trichloroethene	6.	U	6.	U	5000.	U	29.		33.	U	50.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	5000.	U	29.	U	33.	U	50.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	4MW-2 DUP		4MW-2 (25-30')		IMSB-1 (3-8')		IMSB-2 (5-10')		IMSB-2 (10-15')		IMSB-3 (5-10')	
	ORIGINAL ID ----->	CED4GWMW2D		CED4-SMW2-6		IM-SB-01-2		IM-SB-02-2		IM-SB-02-3		IM-SB-03-2	
	SAMPLE DATE ----->	09/29/93		09/22/93		04/08/93		04/08/93		04/08/93		04/09/93	
	DATE ANALYZED --->	10/10/93		10/05/93		04/15/93		04/15/93		04/22/93		04/15/93	
	MATRIX ---------->	Water		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/L		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E015	VAL	E011	VAL	ES1	VAL	ES1	VAL	ES1	VAL	ES1	VAL
100-41-4	Ethylbenzene	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
100-42-5	Styrene	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
10061-01-5	cis-1,3-Dichloropropene	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
10061-02-6	trans-1,3-Dichloropropene	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
107-06-2	1,2-Dichloroethane	240.		7.	U	6.	U	7.	U	10.		6.	U
108-05-4	Vinyl acetate	50.	U	7.	U	62.	U	65.	U	68.	U	62.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	500.	U	69.	U	62.	U	65.	U	68.	U	62.	U
108-88-3	Toluene	52.		7.	U	6.	U	9.		7.	U	6.	U
108-90-7	Chlorobenzene	30.		7.	U	6.	U	7.	U	7.	U	6.	U
124-48-1	Dibromochloromethane	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
127-18-4	Tetrachloroethene	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
1330-20-7	Xylene (total)	44.		7.	U	6.	U	7.	U	7.	U	6.	U
540-59-0	1,2-Dichloroethene (total)	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
56-23-5	Carbon tetrachloride	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
591-78-6	2-Hexanone	500.	U	69.	U	62.	U	65.	U	68.	U	62.	U
67-64-1	Acetone	100.	U	14.	U	200.		320.		140.	U	120.	U
67-66-3	Chloroform	1900.		7.	U	6.	U	7.	U	7.	U	6.	U
71-43-2	Benzene	43.		7.	U	6.	U	7.	U	7.	U	6.	U
71-55-6	1,1,1-Trichloroethane	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
74-83-9	Bromomethane	100.	U	14.	U	12.	U	13.	U	14.	U	12.	U
74-87-3	Chloromethane	100.	U	14.	U	12.	U	13.	U	14.	U	12.	U
75-00-3	Chloroethane	100.	U	14.	U	12.	U	13.	U	14.	U	12.	U
75-01-4	Vinyl chloride	50.	U	7.	U	12.	U	13.	U	14.	U	12.	U
75-09-2	Methylene chloride	1500.	U	9.		6.	U	7.	U	66.		12.	
75-15-0	Carbon disulfide	50.	U	7.	U	120.	U	130.	U	140.	U	120.	U
75-25-2	Bromoform	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
75-27-4	Bromodichloromethane	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
75-34-3	1,1-Dichloroethane	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
75-35-4	1,1-Dichloroethene	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
78-87-5	1,2-Dichloropropane	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
78-93-3	2-Butanone (MEK)	100.	U	14.	U	120.	U	130.	U	140.	U	120.	U
79-00-5	1,1,2-Trichloroethane	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
79-01-6	Trichloroethene	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	50.	U	7.	U	6.	U	7.	U	7.	U	6.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	IMSB-4 (5-10')		IMSB-5 (5-10')		BGHA-2 (0-1')		BGHA-3 (0-1')		EMW-1		EMW-2	
	ORIGINAL ID ----->	IM-SB-04-2		IM-SB-05-2		CED-SBG-2		CED-SBG-3		CEDE-GWMW-1		CEDE-GWMW-2	
	SAMPLE DATE ----->	04/09/93		04/09/93		09/16/93		09/16/93		09/22/93		09/22/93	
	DATE ANALYZED --->	04/15/93		04/15/93		09/28/93		09/28/93		09/30/93		09/30/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Water		Water	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/L		UG/L	
CAS #	Parameter	ES1	VAL	ES1	VAL	E011	VAL	E011	VAL	E012	VAL	E012	VAL
100-41-4	Ethylbenzene	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
100-42-5	Styrene	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	6.	U	6.	U	6.	U	26.	U	36.		5.	U
108-05-4	Vinyl acetate	63.	U	65.	U	6.	U	26.	U	5.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	63.	U	65.	U	60.	U	260.	U	50.	U	50.	U
108-88-3	Toluene	6.	U	6.	U	6.	U	10.		5.	U	5.	U
108-90-7	Chlorobenzene	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
127-18-4	Tetrachloroethene	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
1330-20-7	Xylene (total)	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
591-78-6	2-Hexanone	63.	U	65.	U	60.	U	260.	U	50.	U	50.	U
67-64-1	Acetone	130.	U	130.	U	12.	U	1200.		10.	U	10.	U
67-66-3	Chloroform	6.	U	6.	U	6.	U	26.	U	1.		5.	U
71-43-2	Benzene	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
74-83-9	Bromomethane	13.	U	13.	U	12.	U	52.	U	10.	U	10.	U
74-87-3	Chloromethane	13.	U	13.	U	12.	U	52.	U	10.	U	10.	U
75-00-3	Chloroethane	13.	U	13.	U	12.	U	52.	U	10.	U	10.	U
75-01-4	Vinyl chloride	13.	U	13.	U	6.	U	26.	U	5.	U	5.	U
75-09-2	Methylene chloride	6.	U	6.	U	2.		7.		5.	U	5.	U
75-15-0	Carbon disulfide	130.	U	130.	U	6.	U	26.	U	5.	U	5.	U
75-25-2	Bromoform	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
75-27-4	Bromodichloromethane	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
75-35-4	1,1-Dichloroethene	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	130.	U	130.	U	12.	U	32.		10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
79-01-6	Trichloroethene	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	6.	U	26.	U	5.	U	5.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	EMW-3		EMW-3 DUP		EMW-4		EMW-6		EMW-7		EMW-6A	
	ORIGINAL ID ----->	CEDE-GWMW-3		CEDE-GWMW-3D		CEDE-GWMW-4		CEDE-GWMW6		CEDE-GWMW7		CEDE-GWMW6A	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/23/93		09/24/93		09/23/93		09/24/93	
	DATE ANALYZED --->	09/30/93		09/30/93		09/30/93		10/06/93		10/05/93		10/06/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
100-41-4	Ethylbenzene	54.		65.		40.	U	5.	U	2500.	U	5.	U
100-42-5	Styrene	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
107-06-2	1,2-Dichloroethane	6100.		6700.		1200.		190.		64000.		18.	
108-05-4	Vinyl acetate	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	11.		2500.	U	400.	U	50.	U	25000.	U	50.	U
108-88-3	Toluene	32.		250.	U	40.	U	5.	U	2500.	U	5.	U
108-90-7	Chlorobenzene	26.		250.	U	16.		5.	U	2500.	U	5.	U
124-48-1	Dibromochloromethane	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
127-18-4	Tetrachloroethene	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
1330-20-7	Xylene (total)	88.		100.		40.	U	5.	U	2500.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
56-23-5	Carbon tetrachloride	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
591-78-6	2-Hexanone	500.	U	2500.	U	400.	U	50.	U	25000.	U	50.	U
67-64-1	Acetone	100.	U	500.	U	80.	U	10.	U	5000.	U	10.	U
67-66-3	Chloroform	55.		65.		40.	U	5.	U	2500.	U	5.	U
71-43-2	Benzene	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
71-55-6	1,1,1-Trichloroethane	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
74-83-9	Bromomethane	100.	U	500.	U	80.	U	10.	U	5000.	U	10.	U
74-87-3	Chloromethane	100.	U	500.	U	80.	U	10.	U	5000.	U	10.	U
75-00-3	Chloroethane	100.	U	500.	U	80.	U	10.	U	5000.	U	10.	U
75-01-4	Vinyl chloride	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
75-09-2	Methylene chloride	390.		410.		40.	U	5.	U	2500.	U	5.	U
75-15-0	Carbon disulfide	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
75-25-2	Bromoform	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
75-27-4	Bromodichloromethane	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
75-34-3	1,1-Dichloroethane	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
75-35-4	1,1-Dichloroethene	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
78-87-5	1,2-Dichloropropane	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
78-93-3	2-Butanone (MEK)	100.	U	500.	U	80.	U	10.	U	5000.	U	10.	U
79-00-5	1,1,2-Trichloroethane	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
79-01-6	Trichloroethene	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	50.	U	250.	U	40.	U	5.	U	2500.	U	5.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

VOA		SHORT ID --------->	EMW-68					
		ORIGINAL ID ----->	CEDE-GWMW68					
		SAMPLE DATE ----->	09/24/93					
		DATE ANALYZED --->	10/06/93					
		MATRIX ---------->	Water					
		UNITS ----------->	UG/L					
CAS #	Parameter		ED12	VAL				
100-41-4	Ethylbenzene		50.	U				
100-42-5	Styrene		50.	U				
10061-01-5	cis-1,3-Dichloropropene		50.	U				
10061-02-6	trans-1,3-Dichloropropene		50.	U				
107-06-2	1,2-Dichloroethane		1900.					
108-05-4	Vinyl acetate		50.	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)		500.	U				
108-88-3	Toluene		50.	U				
108-90-7	Chlorobenzene		30.					
124-48-1	Dibromochloromethane		50.	U				
127-18-4	Tetrachloroethene		50.	U				
1330-20-7	Xylene (total)		50.	U				
540-59-0	1,2-Dichloroethene (total)		50.	U				
56-23-5	Carbon tetrachloride		50.	U				
591-78-6	2-Hexanone		500.	U				
67-64-1	Acetone		100.	U				
67-66-3	Chloroform		50.	U				
71-43-2	Benzene		17.					
71-55-6	1,1,1-Trichloroethane		50.	U				
74-83-9	Bromomethane		100.	U				
74-87-3	Chloromethane		100.	U				
75-00-3	Chloroethane		100.	U				
75-01-4	Vinyl chloride		50.	U				
75-09-2	Methylene chloride		50.	U				
75-15-0	Carbon disulfide		50.	U				
75-25-2	Bromoform		50.	U				
75-27-4	Bromodichloromethane		50.	U				
75-34-3	1,1-Dichloroethane		50.	U				
75-35-4	1,1-Dichloroethene		50.	U				
78-87-5	1,2-Dichloropropane		50.	U				
78-93-3	2-Butanone (MEK)		100.	U				
79-00-5	1,1,2-Trichloroethane		50.	U				
79-01-6	Trichloroethene		50.	U				
79-34-5	1,1,2,2-Tetrachloroethane		50.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

WQPL	SHORT ID --------->	4MW-1		4MW-2		4MW-2 DUP		EMW-1		EMW-2		EMW-3	
	ORIGINAL ID ----->	CED4GWMW1		CED4GWMW2		CED4GWMW2D		CEDE-GWMW-1		CEDE-GWMW-2		CEDE-GWMW-3	
	SAMPLE DATE ----->	09/29/93		09/29/93		09/29/93		09/22/93		09/22/93		09/23/93	
	DATE ANALYZED --->	10/04/93		10/04/93		10/04/93		09/28/93		09/28/93		09/28/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	E015	VAL	E015	VAL	E015	VAL	E012	VAL	E012	VAL	E012	VAL
10-13-9	BICARBONATE	630.		530.		530.		480.		250.		290.	
14797-55-8	Nitrate (as N)	0.2	U	1.2		1.		0.2	U	0.2	U	0.2	U
14808-79-8	Sulfate	23.		140.		120.		120.		41.		320.	
16887-00-6	Chloride	72.		200.		200.		260.		15.		1400.	
7664-41-7	Ammonia (as N)	0.1	U	0.1	U	0.1	U	0.1	U	0.3		0.7	
F	Fluoride	0.3		0.2		0.2		0.3		0.3		0.2	
CN	Cyanide	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE I SUBSURFACE SOIL DATA

WQPL	SHORT ID --------->	EMW-3 DUP		EMW-4		EMW-6		EMW-7		EMW-6A		EMW-6B	
	ORIGINAL ID ----->	CEDE-GWMW-3D		CEDE-GWMW-4		CEDE-GWMW6		CEDE-GWMW7		CEDE-GWMW6A		CEDE-GWMW6B	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/24/93		09/23/93		09/24/93		09/24/93	
	DATE ANALYZED --->	09/28/93		09/28/93		10/12/93		10/12/93		10/12/93		10/12/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
10-13-9	BICARBONATE	300.		650.		490.		270.		290.		540.	
14797-55-8	Nitrate (as N)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
14808-79-8	Sulfate	350.		93.		25.		290.		14.		35.	
16887-00-6	Chloride	1400.		650.		29.		260.		160.		560.	
7664-41-7	Ammonia (as N)	0.8		0.2		0.1	U	0.4		0.8		0.1	U
F	Fluoride	0.2		0.3		0.3		0.3		0.6		0.5	
CN	Cyanide	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SURFACE SOIL DATA

CATION EXC	SHORT ID --------->	4HA-9 (0-1')		4SB-10 (0-1')			
	ORIGINAL ID ----->	004S000901		004S001001			
	SAMPLE DATE ----->	01/11/95		01/11/95			
	DATE EXTRACTED -->	01/13/95		01/13/95			
	DATE ANALYZED --->	01/13/95		01/13/95			
	MATRIX ---------->	Soil		Soil			
	UNITS ---------->	MEQ/1		MEQ/1			
CAS #	Parameter	11462	VAL	11462	VAL		
9999900-02-6	Cation-Exchange Capacity	16.		14.			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SURFACE SOIL DATA

CHLORIDE							
	SHORT ID --------->	4HA-9 (0-1')		4SB-10 (0-1')			
	ORIGINAL ID ----->	004S000901		004S001001			
	SAMPLE DATE ----->	01/11/95		01/11/95			
	DATE EXTRACTED -->	01/16/95		01/16/95			
	DATE ANALYZED --->	01/16/95		01/16/95			
	MATRIX ---------->	Soil		Soil			
	UNITS ---------->	MG/KG		MG/KG			
CAS #	Parameter	11462	VAL	11462	VAL		
16887-00-6	Chloride	770.		29.			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SURFACE SOIL DATA

PEST													
	SHORT ID -------->	4SB-1 (0-2')		4SB-2 (0-2')		4MW-3 (0-3')		4MW-4 (0-3')		4MW-4 (0-3')Dup		4SB-3 (0-2')	
	ORIGINAL ID ----->	004S000101		004S000201		004S000301		004S000401		004C000401		004S000301	
	SAMPLE DATE ----->	12/06/94		12/08/94		12/06/94		12/14/94		12/14/94		12/08/94	
	DATE EXTRACTED -->	12/12/94		12/12/94		12/12/94		12/22/94		12/22/94		12/12/94	
	DATE ANALYZED --->	12/15/94		12/21/94		12/15/94		12/23/94		12/23/94		12/15/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11097	VAL	11097	VAL	11008	VAL
319-84-6	Alpha-BHC	2.	U	2.	U	2.	U	2.	U	2.	U	20.	U
319-85-7	Beta-BHC	4.	U	4.	U	4.	U	4.	U	4.	U	40.	U
319-86-8	Delta-BHC	6.	U	6.	U	6.	U	6.	U	6.	U	60.	U
58-89-9	gamma-BHC (Lindane)	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	27.	U
76-44-8	Heptachlor	2.	U	2.	U	2.	U	2.	U	2.	U	20.	U
309-00-2	Aldrin	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	27.	U
1024-57-3	Heptachlor Epoxide	56.	U	56.	U	56.	U	56.	U	56.	U	560.	U
959-98-8	Endosulfan I	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	94.	U
60-57-1	Dieldrin	1.3	U	1.3	U	1.3	U	480.		430.		13.	U
72-55-9	4,4'-DDE	2.7	U	250.		22.		23.		21.		27.	U
72-20-8	Endrin	4.	U	4.	U	4.	U	4.	U	4.	U	40.	U
33213-65-9	Endosulfan II	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	27.	U
72-54-8	4,4'-DDD	7.	U	350.		7.	U	29.		23.		70.	U
7421-93-4	Endrin aldehyde	15.	U	15.	U	15.	U	15.	U	15.	U	150.	U
1031-07-8	Endosulfan Sulfate	44.	U	44.	U	44.	U	44.	U	44.	U	440.	U
50-29-3	4,4'-DDT	8.	U	8.	U	100.		55.		44.		80.	U
72-43-5	Methoxychlor	8700.		120.		220.		6800.		8900.		3100.	
57-74-9	Chlordane	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	94.	U
8001-35-2	Toxaphene	160.	U	160.	U	160.	U	160.	U	160.	U	1600.	U
12674-11-2	Aroclor-1016	60.	U	60.	U	60.	U	60.	U	60.	U	600.	U
11104-28-2	Aroclor-1221	180.	U	180.	U	180.	U	180.	U	180.	U	1800.	U
11141-16-5	Aroclor-1232	32.	U	32.	U	32.	U	32.	U	32.	U	320.	U
53469-21-9	Aroclor-1242	44.	U	44.	U	44.	U	44.	U	44.	U	440.	U
12672-29-6	Aroclor-1248	170.	U	170.	U	170.	U	170.	U	170.	U	1700.	U
11097-69-1	Aroclor-1254	80.	U	80.	U	80.	U	80.	U	80.	U	800.	U
11096-82-5	Aroclor-1260	24.	U	24.	U	24.	U	24.	U	24.	U	240.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SURFACE SOIL DATA

SOIL PH							
	SHORT ID --------->	4HA-9 (0-1')	4SB-10 (0-1')				
	ORIGINAL ID ------>	004S000901	004S001001				
	SAMPLE DATE ------>	01/11/95	01/11/95				
	DATE EXTRACTED --->	01/13/95	01/13/95				
	DATE ANALYZED ---->	01/13/95	01/13/95				
	MATRIX ----------->	Soil	Soil				
	UNITS ------------>	UNITS	UNITS				
CAS #	Parameter	11462 VAL	11462 VAL				
9999900-02-7	pH	8.2	8.6				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SURFACE SOIL DATA

SPLP-METAL							
	SHORT ID --------->	4HA-9 (0-1')	4SB-10 (0-1')				
	ORIGINAL ID ----->	004S000901	004S001001				
	SAMPLE DATE ----->	01/11/95	01/11/95				
	DATE EXTRACTED -->	01/17/95					
	DATE ANALYZED --->	01/27/95	01/17/95				
	MATRIX ---------->	Soil	Soil				
	UNITS ----------->	MG/L	MG/L				
CAS #	Parameter	11462 VAL	11462 VAL				
7440-38-2	Arsenic (As)	0.05 U	0.05 U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SURFACE SOIL DATA

SPLP-PEST							
SHORT ID --------->	4HA-9 (0-1')	4SB-10 (0-1')					
ORIGINAL ID ----->	004S000901	004S001001					
SAMPLE DATE ----->	01/11/95	01/11/95					
DATE EXTRACTED -->	01/17/95	01/17/95					
DATE ANALYZED --->	01/19/95	01/19/95					
MATRIX ---------->	Soil	Soil					
UNITS ----------->	MG/L	MG/L					
CAS #	Parameter	11462 VAL	11462 VAL				
319-84-6	Alpha-BHC	0.0002 U	0.0002 U				
319-85-7	Beta-BHC	0.0003 U	0.0003 U				
319-86-8	Delta-BHC	0.0004 U	0.0004 U				
58-89-9	gamma-BHC (Lindane)	0.0002 U	0.0002 U				
76-44-8	Heptachlor	0.0002 U	0.0002 U				
309-00-2	Aldrin	0.0002 U	0.0002 U				
1024-57-3	Heptachlor Epoxide	0.0042 U	0.0042 U				
959-98-8	Endosulfan I	0.0007 U	0.0007 U				
60-57-1	Dieldrin	0.0001 U	0.0001 U				
72-55-9	4,4'-DDE	0.0002 U	0.0002 U				
72-20-8	Endrin	0.0003 U	0.0003 U				
33213-65-9	Endosulfan II	0.0002 U	0.0002 U				
72-54-8	4,4'-DDD	0.0006 U	0.0006 U				
7421-93-4	Endrin aldehyde	0.0012 U	0.0012 U				
1031-07-8	Endosulfan Sulfate	0.0033 U	0.0033 U				
50-29-3	4,4'-DDT	0.0006 U	0.0006 U				
72-43-5	Methoxychlor	0.009 U	0.009 U				
57-74-9	Chlordane	0.0007 U	0.0007 U				
8001-35-2	Toxaphene	0.0012 U	0.0012 U				
12674-11-2	Aroclor-1016	0.0045 U	0.0045 U				
11104-28-2	Aroclor-1221	0.014 U	0.014 U				
11141-16-5	Aroclor-1232	0.0024 U	0.0024 U				
53469-21-9	Aroclor-1242	0.0033 U	0.0033 U				
12672-29-6	Aroclor-1248	0.013 U	0.013 U				
11097-69-1	Aroclor-1254	0.006 U	0.006 U				
11096-82-5	Aroclor-1260	0.0018 U	0.0018 U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SURFACE SOIL DATA

SPLP-SVOA								
SHORT ID --------->	4HA-9 (0-1')		4SB-10 (0-1')					
ORIGINAL ID ------>	004S000901		004S001001					
SAMPLE DATE ------>	01/11/95		01/11/95					
DATE EXTRACTED -->	01/17/95		01/17/95					
DATE ANALYZED --->	01/18/95		01/18/95					
MATRIX ---------->	Soil		Soil					
UNITS ---------->	MG/L		MG/L					
CAS #	Parameter	11462 VAL	11462 VAL					
108-95-2	Phenol	0.1 U	0.1 U					
111-44-4	bis(2-Chloroethyl)ether	0.1 U	0.1 U					
95-57-8	2-Chlorophenol	0.1 U	0.1 U					
541-73-1	1,3-Dichlorobenzene	0.1 U	0.1 U					
106-46-7	1,4-Dichlorobenzene	0.1 U	0.1 U					
100-51-6	Benzyl alcohol	0.2 U	0.2 U					
95-50-1	1,2-Dichlorobenzene	0.27	0.1 U					
95-48-7	2-Methylphenol (o-Cresol)	0.1 U	0.1 U					
108-60-1	bis(2-chloroisopropyl) ether	0.1 U	0.1 U					
106-44-5	4-Methylphenol (p-Cresol)	0.1 U	0.1 U					
621-64-7	N-Nitroso-di-n-propylamine	0.1 U	0.1 U					
67-72-1	Hexachloroethane	0.1 U	0.1 U					
98-95-3	Nitrobenzene	0.1 U	0.1 U					
78-59-1	Isophorone	0.1 U	0.1 U					
88-75-5	2-Nitrophenol	0.1 U	0.1 U					
105-67-9	2,4-Dimethylphenol	0.1 U	0.1 U					
111-91-1	bis(2-Chloroethoxy)methane	0.1 U	0.1 U					
120-83-2	2,4-Dichlorophenol	0.1 U	0.1 U					
120-82-1	1,2,4-Trichlorobenzene	0.1 U	0.1 U					
91-20-3	Naphthalene	0.1 U	0.1 U					
87-68-3	Hexachlorobutadiene	0.1 U	0.1 U					
59-50-7	4-Chloro-3-methylphenol	0.2 U	0.2 U					
91-57-6	2-Methylnaphthalene	0.1 U	0.1 U					
77-47-4	Hexachlorocyclopentadiene	0.1 U	0.1 U					
88-06-2	2,4,6-Trichlorophenol	0.1 U	0.1 U					
95-95-4	2,4,5-Trichlorophenol	0.1 U	0.1 U					
91-58-7	2-Chloronaphthalene	0.1 U	0.1 U					
88-74-4	2-Nitroaniline	0.5 U	0.5 U					
131-11-3	Dimethylphthalate	0.1 U	0.1 U					
208-96-8	Acenaphthylene	0.1 U	0.1 U					
99-09-2	3-Nitroaniline	0.5 U	0.5 U					
83-32-9	Acenaphthene	0.1 U	0.1 U					
51-28-5	2,4-Dinitrophenol	0.5 U	0.5 U					
100-02-7	4-Nitrophenol	0.5 U	0.5 U					
132-64-9	Dibenzofuran	0.1 U	0.1 U					
121-14-2	2,4-Dinitrotoluene	0.1 U	0.1 U					
606-20-2	2,6-Dinitrotoluene	0.1 U	0.1 U					
84-66-2	Diethylphthalate	0.1 U	0.1 U					

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SURFACE SOIL DATA

SPLP-SVOA									
	SHORT ID --------->	4HA-9 (0-1')		4SB-10 (0-1')					
	ORIGINAL ID ------>	004S000901		004S001001					
	SAMPLE DATE ------>	01/11/95		01/11/95					
	DATE EXTRACTED -->	01/17/95		01/17/95					
	DATE ANALYZED --->	01/18/95		01/18/95					
	MATRIX ---------->	Soil		Soil					
	UNITS ----------->	MG/L		MG/L					
CAS #	Parameter	11462	VAL	11462	VAL				
7005-72-3	4-Chlorophenyl-phenylether	0.1	U	0.1	U				
86-73-7	Fluorene	0.1	U	0.1	U				
100-01-6	4-Nitroaniline	0.5	U	0.5	U				
534-52-1	4,6-Dinitro-2-methylphenol	0.5	U	0.5	U				
86-30-6	N-Nitrosodiphenylamine	0.1	U	0.1	U				
101-55-3	4-Bromophenyl-phenylether	0.1	U	0.1	U				
118-74-1	Hexachlorobenzene	0.1	U	0.1	U				
87-86-5	Pentachlorophenol	0.5	U	0.5	U				
85-01-8	Phenanthrene	0.1	U	0.1	U				
120-12-7	Anthracene	0.1	U	0.1	U				
206-44-0	Fluoranthene	0.1	U	0.1	U				
129-00-0	Pyrene	0.1	U	0.1	U				
85-68-7	Butylbenzylphthalate	0.1	U	0.1	U				
91-94-1	3,3'-Dichlorobenzidine	0.2	U	0.2	U				
56-55-3	Benzo(a)anthracene	0.1	U	0.1	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	0.1	U	0.1	U				
218-01-9	Chrysene	0.1	U	0.1	U				
117-84-0	Di-n-octylphthalate	0.1	U	0.1	U				
205-99-2	Benzo(b)fluoranthene	0.1	U	0.1	U				
207-08-9	Benzo(k)fluoranthene	0.1	U	0.1	U				
50-32-8	Benzo(a)pyrene	0.1	U	0.1	U				
193-39-5	Indeno(1,2,3-cd)pyrene	0.1	U	0.1	U				
53-70-3	Dibenz(a,h)anthracene	0.1	U	0.1	U				
191-24-2	Benzo(g,h,i)perylene	0.1	U	0.1	U				
88-85-7	Dinoseb	13.		0.1	U				
110-86-1	Pyridine	NR		NR					
1319-77-3	Cresols	0.2	U	0.2	U				
65-85-0	Benzoic acid	0.5	U	0.5	U				
106-47-8	4-Chloroaniline	0.2	U	0.2	U				
84-74-2	Di-n-butylphthalate	0.1	U	0.1	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SURFACE SOIL DATA

SPLP-VOA		SHORT ID --------->	4HA-9 (0-1')		4SB-10 (0-1')					
		ORIGINAL ID ----->	004S000901		004S001001					
		SAMPLE DATE ----->	01/11/95		01/11/95					
		DATE EXTRACTED -->	01/17/95		01/17/95					
		DATE ANALYZED --->	01/17/95		01/17/95					
		MATRIX ---------->	Soil		Soil					
		UNITS ----------->	MG/L		MG/L					
CAS #	Parameter		11462	VAL	11462	VAL				
74-87-3	Chloromethane		0.1	U	0.1	U				
74-83-9	Bromomethane		0.1	U	0.1	U				
75-01-4	Vinyl chloride		0.1	U	0.1	U				
75-00-3	Chloroethane		0.1	U	0.1	U				
75-09-2	Methylene chloride		0.2	U	0.2	U				
67-64-1	Acetone		1.	U	1.	U				
75-15-0	Carbon disulfide		1.	U	1.	U				
75-35-4	1,1-Dichloroethene		0.05	U	0.05	U				
75-34-3	1,1-Dichloroethane		0.05	U	0.05	U				
156-60-5	trans-1,2-Dichloroethene		0.05	U	0.05	U				
67-66-3	Chloroform		0.05	U	0.05	U				
107-06-2	1,2-Dichloroethane		0.05	U	0.05	U				
78-93-3	2-Butanone (MEK)		1.	U	1.	U				
71-55-6	1,1,1-Trichloroethane		0.05	U	0.05	U				
56-23-5	Carbon tetrachloride		0.05	U	0.05	U				
108-05-4	Vinyl acetate		0.5	U	0.5	U				
75-27-4	Bromodichloromethane		0.05	U	0.05	U				
79-34-5	1,1,2,2-Tetrachloroethane		0.05	U	0.05	U				
78-87-5	1,2-Dichloropropane		0.05	U	0.05	U				
10061-02-6	trans-1,3-Dichloropropene		0.05	U	0.05	U				
79-01-6	Trichloroethene		0.05	U	0.05	U				
124-48-1	Dibromochloromethane		0.05	U	0.05	U				
79-00-5	1,1,2-Trichloroethane		0.05	U	0.05	U				
71-43-2	Benzene		0.05	U	0.05	U				
10061-01-5	cis-1,3-Dichloropropene		0.05	U	0.05	U				
110-75-8	2-Chloroethylvinylether		0.1	U	0.1	U				
75-25-2	Bromoform		0.05	U	0.05	U				
591-78-6	2-Hexanone		0.5	U	0.5	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)		0.5	U	0.5	U				
127-18-4	Tetrachloroethene		0.05	U	0.05	U				
108-88-3	Toluene		0.14		0.05	U				
108-90-7	Chlorobenzene		0.05	U	0.05	U				
100-41-4	Ethylbenzene		0.05	U	0.05	U				
100-42-5	Styrene		0.05	U	0.05	U				
1330-20-7	Xylene (total)		0.1		0.05	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	4SB-1 (0-2')		4SB-2 (0-2')		4MW-3 (0-3')		4MW-4 (0-3')		4MW-4 (0-3')Dup		4SB-3 (0-2')	
	ORIGINAL ID ----->	004S000101		004S000201		004S000301		004S000401		004C000401		004S000301	
	SAMPLE DATE ----->	12/06/94		12/08/94		12/06/94		12/14/94		12/14/94		12/08/94	
	DATE EXTRACTED -->	12/12/94		12/12/94		12/12/94		12/22/94		12/22/94		12/12/94	
	DATE ANALYZED --->	12/14/94		12/16/94		12/14/94		12/22/94		12/23/94		12/15/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11097	VAL	11097	VAL	11008	VAL
108-95-2	Phenol	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
111-44-4	bis(2-Chloroethyl)ether	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
95-57-8	2-Chlorophenol	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
541-73-1	1,3-Dichlorobenzene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
106-46-7	1,4-Dichlorobenzene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
100-51-6	Benzyl alcohol	7800.	U	6500.	U	1300.	U	1300.	U	1300.	U	26000.	U
95-50-1	1,2-Dichlorobenzene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
95-48-7	2-Methylphenol (o-Cresol)	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
108-60-1	bis(2-chloroisopropyl) ether	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
106-44-5	4-Methylphenol (p-Cresol)	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
621-64-7	N-Nitroso-di-n-propylamine	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
67-72-1	Hexachloroethane	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
98-95-3	Nitrobenzene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
78-59-1	Isophorone	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
88-75-5	2-Nitrophenol	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
105-67-9	2,4-Dimethylphenol	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
111-91-1	bis(2-Chloroethoxy)methane	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
120-83-2	2,4-Dichlorophenol	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
120-82-1	1,2,4-Trichlorobenzene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
91-20-3	Naphthalene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
87-68-3	Hexachlorobutadiene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
59-50-7	4-Chloro-3-methylphenol	7800.	U	6500.	U	1300.	U	1300.	U	1300.	U	26000.	U
91-57-6	2-Methylnaphthalene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
77-47-4	Hexachlorocyclopentadiene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
88-06-2	2,4,6-Trichlorophenol	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
95-95-4	2,4,5-Trichlorophenol	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
91-58-7	2-Chloronaphthalene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
88-74-4	2-Nitroaniline	20000.	U	16500.	U	3300.	U	3300.	U	3300.	U	66000.	U
131-11-3	Dimethylphthalate	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
208-96-8	Acenaphthylene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
99-09-2	3-Nitroaniline	20000.	U	16500.	U	3300.	U	3300.	U	3300.	U	66000.	U
83-32-9	Acenaphthene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
51-28-5	2,4-Dinitrophenol	20000.	U	16500.	U	3300.	U	3300.	U	3300.	U	66000.	U
100-02-7	4-Nitrophenol	20000.	U	16500.	U	3300.	U	3300.	U	3300.	U	66000.	U
132-64-9	Dibenzofuran	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
121-14-2	2,4-Dinitrotoluene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
606-20-2	2,6-Dinitrotoluene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
84-66-2	Diethylphthalate	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	4SB-1 (0-2')		4SB-2 (0-2')		4MW-3 (0-3')		4MW-4 (0-3')		4MW-4 (0-3')Dup		4SB-3 (0-2')	
	ORIGINAL ID ----->	004S000101		004S000201		004S000301		004S000401		004C000401		004S000301	
	SAMPLE DATE ----->	12/06/94		12/08/94		12/06/94		12/14/94		12/14/94		12/08/94	
	DATE EXTRACTED -->	12/12/94		12/12/94		12/12/94		12/22/94		12/22/94		12/12/94	
	DATE ANALYZED --->	12/14/94		12/16/94		12/14/94		12/22/94		12/23/94		12/15/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11097	VAL	11097	VAL	11008	VAL
7005-72-3	4-Chlorophenyl-phenylether	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
86-73-7	Fluorene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
100-01-6	4-Nitroaniline	20000.	U	16500.	U	3300.	U	3300.	U	3300.	U	66000.	U
534-52-1	4,6-Dinitro-2-methylphenol	20000.	U	16500.	U	3300.	U	3300.	U	3300.	U	66000.	U
86-30-6	N-Nitrosodiphenylamine	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
101-55-3	4-Bromophenyl-phenylether	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
118-74-1	Hexachlorobenzene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
87-86-5	Pentachlorophenol	20000.	U	16500.	U	3300.	U	3300.	U	3300.	U	66000.	U
85-01-8	Phenanthrene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
120-12-7	Anthracene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
206-44-0	Fluoranthene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
129-00-0	Pyrene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
85-68-7	Butylbenzylphthalate	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
91-94-1	3,3'-Dichlorobenzidine	7800.	U	6500.	U	1300.	U	1300.	U	1300.	U	26000.	U
56-55-3	Benzo(a)anthracene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
218-01-9	Chrysene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
117-84-0	Di-n-octylphthalate	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
205-99-2	Benzo(b)fluoranthene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
207-08-9	Benzo(k)fluoranthene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
50-32-8	Benzo(a)pyrene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
193-39-5	Indeno(1,2,3-cd)pyrene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
53-70-3	Dibenz(a,h)anthracene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
191-24-2	Benzo(g,h,i)perylene	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U
88-85-7	Dinoseb	550000.		2310.	U	462.	U	95000.		90000.		95000.	
65-85-0	Benzoic acid	20000.	U	16500.	U	3300.	U	3300.	U	3300.	U	66000.	U
106-47-8	4-Chloroaniline	7800.	U	6500.	U	1300.	U	1300.	U	1300.	U	26000.	U
84-74-2	Di-n-butylphthalate	4000.	U	3300.	U	660.	U	660.	U	660.	U	13200.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SURFACE SOIL DATA

VOA	SHORT ID --------->	4S8-1 (0-2')		4MW-3 (0-3')		4MW-4 (0-3')		4MW-4 (0-3')Dup			
	ORIGINAL ID ----->	004S000101		004S000301		004S000401		004C000401			
	SAMPLE DATE ----->	12/06/94		12/06/94		12/14/94		12/14/94			
	DATE EXTRACTED -->	12/11/94		12/11/94		12/21/94		12/21/94			
	DATE ANALYZED --->	12/11/94		12/11/94		12/21/94		12/21/94			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	11008	VAL	11008	VAL	11097	VAL	11097	VAL		
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U		
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U		
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U		
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U		
75-09-2	Methylene chloride	20.	U	20.	U	20.	U	20.	U		
67-64-1	Acetone	250.		100.	U	100.	U	100.	U		
75-15-0	Carbon disulfide	100.	U	100.	U	100.	U	100.	U		
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U		
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U		
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U		
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U		
107-06-2	1,2-Dichloroethane	9.9		5.	U	5.	U	5.	U		
78-93-3	2-Butanone (MEK)	130.		100.	U	100.	U	100.	U		
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U		
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U		
108-05-4	Vinyl acetate	50.	U	50.	U	50.	U	50.	U		
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U		
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U		
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U		
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U		
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U		
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U		
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U		
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U		
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U		
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U		
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U		
591-78-6	2-Hexanone	50.	U	50.	U	50.	U	50.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U	50.	U	50.	U		
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U		
108-88-3	Toluene	32.		5.	U	7.6		6.2			
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U		
100-41-4	Ethylbenzene	13.		5.	U	5.	U	5.	U		
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U		
1330-20-7	Xylene (total)	57.		5.	U	36.		33.			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SUBSURFACE SOIL DATA

DCA	SHORT ID --------->	4SB-1 (0-2')		4SB-1 (10-12')		4SB-1 (22-24')		4SB-2 (0-4')		4SB-2 (4-8')		4SB-2 (20-24')	
	ORIGINAL ID ----->	CED4SB1A02		CED4SB1A12		CED4SB1A24		CED4SB2A04		CED4SB2A08		CED4SB2A24	
	SAMPLE DATE ----->	05/28/96		05/28/96		05/28/96		05/28/96		05/28/96		05/28/96	
	DATE ANALYZED --->	06/10/96		06/10/96		06/10/96		06/10/96		06/10/96		06/10/96	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
CAS #	Parameter	G114-21	VAL	G114-21	VAL	G114-21	VAL	G114-21	VAL	G114-21	VAL	G114-21	VAL
95-76-1	3,4-Dichloroaniline	2100.		390.	U	410.	U	1400.		380.	U	390.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SUBSURFACE SOIL DATA

DCA									
	SHORT ID --------->	4SB-3 (0-4')		4SB-3 (4-8')		4SB-3 (20-24')				
	ORIGINAL ID ----->	CED4SB3A04		CED4SB3A08		CED4SB3A24				
	SAMPLE DATE ----->	05/28/96		05/28/96		05/28/96				
	DATE ANALYZED --->	06/11/96		06/10/96		06/11/96				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	ug/kg		ug/kg		ug/kg				
CAS #	Parameter	G114-21	VAL	G114-21	VAL	G114-21	VAL			
95-76-1	3,4-Dichloroaniline	17000.	U	1900.		10000.				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SUBSURFACE SOIL DATA

PROPANIL	SHORT ID --------->	4SB-1 (0-2')	4SB-1 (10-12')	4SB-1 (22-24')	4SB-2 (0-4')	4SB-2 (4-8')	4SB-2 (20-24')
	ORIGINAL ID ----->	CED4SB1A02	CED4SB1A12	CED4SB1A24	CED4SB2A04	CED4SB2A08	CED4SB2A24
	SAMPLE DATE ----->	05/28/96	05/28/96	05/28/96	05/28/96	05/28/96	05/28/96
	DATE ANALYZED --->	06/10/96	06/10/96	06/10/96	06/10/96	06/10/96	06/10/96
	MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
	UNITS ---------->	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg

CAS #	Parameter	G114-21	VAL	G114-21	VAL	G114-21	VAL	G114-21	VAL	G114-21	VAL	G114-21	VAL
709-98-8	Propanil	350.	U	390.	U	410.	U	370.	U	380.	U	390.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SUBSURFACE SOIL DATA

PROPANIL		SHORT ID --------->	4SB-3 (0-4')		4SB-3 (4-8')		4SB-3 (20-24')				
		ORIGINAL ID ----->	CED4SB3A04		CED4SB3A08		CED4SB3A24				
		SAMPLE DATE ----->	05/28/96		05/28/96		05/28/96				
		DATE ANALYZED --->	06/11/96		06/10/96		06/11/96				
		MATRIX ---------->	Soil		Soil		Soil				
		UNITS ----------->	ug/kg		ug/kg		ug/kg				
CAS #	Parameter		G114-21	VAL	G114-21	VAL	G114-21	VAL			
709-98-8	Propanil		130000.		370.	U	2000.				

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SUBSURFACE SOIL DATA

PEST

SHORT ID --------->	4SB-1 (4-6')	4SB-1 (8-10')	4SB-2 (4-6')	4SB-2 (12-14')	4MW-3 (28-33')	4MW-3 (33-38')
ORIGINAL ID ----->	004S000103	004S000105	004S000203	004S000207	004S000306	004S000307
SAMPLE DATE ----->	12/06/94	12/06/94	12/08/94	12/08/94	12/06/94	12/06/94
DATE EXTRACTED -->	12/12/94	12/12/94	12/12/94	12/12/94	12/12/94	12/12/94
DATE ANALYZED --->	12/15/94	12/15/94	12/15/94	12/15/94	12/15/94	12/15/94
MATRIX ---------->	Soil	Soil	Soil	Soil	Soil	Soil
UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG

CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL
319-84-6	Alpha-BHC	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
319-85-7	Beta-BHC	4.	U	4.	U	4.	U	4.	U	4.	U	4.	U
319-86-8	Delta-BHC	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
58-89-9	gamma-BHC (Lindane)	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
76-44-8	Heptachlor	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
309-00-2	Aldrin	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
1024-57-3	Heptachlor Epoxide	56.	U	56.	U	56.	U	56.	U	56.	U	56.	U
959-98-8	Endosulfan I	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
60-57-1	Dieldrin	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
72-55-9	4,4'-DDE	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
72-20-8	Endrin	4.	U	4.	U	4.	U	4.	U	4.	U	4.	U
33213-65-9	Endosulfan II	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
72-54-8	4,4'-DDD	7.	U	7.	U	7.	U	7.	U	7.	U	7.	U
7421-93-4	Endrin aldehyde	15.	U	15.	U	15.	U	15.	U	15.	U	15.	U
1031-07-8	Endosulfan Sulfate	44.	U	44.	U	44.	U	44.	U	44.	U	44.	U
50-29-3	4,4'-DDT	8.	U	8.	U	8.	U	8.	U	8.	U	8.	U
72-43-5	Methoxychlor	120.	U	120.	U	120.	U	120.	U	120.	U	120.	U
57-74-9	Chlordane	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
8001-35-2	Toxaphene	160.	U	160.	U	160.	U	160.	U	160.	U	160.	U
12674-11-2	Aroclor-1016	60.	U	60.	U	60.	U	60.	U	60.	U	60.	U
11104-28-2	Aroclor-1221	180.	U	180.	U	180.	U	180.	U	180.	U	180.	U
11141-16-5	Aroclor-1232	32.	U	32.	U	32.	U	32.	U	32.	U	32.	U
53469-21-9	Aroclor-1242	44.	U	44.	U	44.	U	44.	U	44.	U	44.	U
12672-29-6	Aroclor-1248	170.	U	170.	U	170.	U	170.	U	170.	U	170.	U
11097-69-1	Aroclor-1254	80.	U	80.	U	80.	U	80.	U	80.	U	80.	U
11096-82-5	Aroclor-1260	24.	U	24.	U	24.	U	24.	U	24.	U	24.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	4MW-4 (8-13')		4MW-4 (18-23')		4MW-4 (23-28')		4SB-3 (6-8')		4SB-3 (12-14')	
	ORIGINAL ID ----->	004S000403		004S000405		004S000406		004S000304		004S000307	
	SAMPLE DATE ----->	12/14/94		12/14/94		12/15/94		12/08/94		12/08/94	
	DATE EXTRACTED -->	12/22/94		12/22/94		12/22/94		12/12/94		12/12/94	
	DATE ANALYZED --->	12/23/94		12/23/94		12/23/94		12/15/94		12/15/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11134	VAL	11134	VAL	11134	VAL	11008	VAL	11008	VAL
319-84-6	Alpha-BHC	2.	U	2.	U	2.	U	20.	U	2.	U
319-85-7	Beta-BHC	4.	U	4.	U	4.	U	40.	U	4.	U
319-86-8	Delta-BHC	6.	U	6.	U	6.	U	60.	U	6.	U
58-89-9	gamma-BHC (Lindane)	2.7	U	2.7	U	2.7	U	27.	U	2.7	U
76-44-8	Heptachlor	2.	U	2.	U	2.	U	20.	U	2.	U
309-00-2	Aldrin	2.7	U	2.7	U	2.7	U	27.	U	2.7	U
1024-57-3	Heptachlor Epoxide	56.	U	56.	U	56.	U	560.	U	56.	U
959-98-8	Endosulfan I	9.4	U	9.4	U	9.4	U	94.	U	9.4	U
60-57-1	Dieldrin	1.3	U	1.3	U	1.3	U	13.	U	1.3	U
72-55-9	4,4'-DDE	2.7	U	2.7	U	2.7	U	27.	U	2.7	U
72-20-8	Endrin	4.	U	4.	U	4.	U	40.	U	4.	U
33213-65-9	Endosulfan II	2.7	U	2.7	U	2.7	U	27.	U	2.7	U
72-54-8	4,4'-DDD	7.	U	7.	U	7.	U	70.	U	7.	U
7421-93-4	Endrin aldehyde	15.	U	15.	U	15.	U	150.	U	15.	U
1031-07-8	Endosulfan Sulfate	44.	U	44.	U	44.	U	440.	U	44.	U
50-29-3	4,4'-DDT	8.	U	8.	U	8.	U	80.	U	8.	U
72-43-5	Methoxychlor	120.	U	120.	U	120.	U	1200.	U	120.	U
57-74-9	Chlordane	9.4	U	9.4	U	9.4	U	94.	U	9.4	U
8001-35-2	Toxaphene	160.	U	160.	U	160.	U	1600.	U	160.	U
12674-11-2	Aroclor-1016	60.	U	60.	U	60.	U	600.	U	60.	U
11104-28-2	Aroclor-1221	180.	U	180.	U	180.	U	1800.	U	180.	U
11141-16-5	Aroclor-1232	32.	U	32.	U	32.	U	320.	U	32.	U
53469-21-9	Aroclor-1242	44.	U	44.	U	44.	U	440.	U	44.	U
12672-29-6	Aroclor-1248	170.	U	170.	U	170.	U	1700.	U	170.	U
11097-69-1	Aroclor-1254	80.	U	80.	U	80.	U	800.	U	80.	U
11096-82-5	Aroclor-1260	24.	U	24.	U	24.	U	240.	U	24.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	4SB-1 (4-6')		4SB-1 (8-10')		4SB-2 (4-6')		4SB-2 (12-14')		4MW-3 (28-33')		4MW-3 (33-38')	
	ORIGINAL ID ----->	004S000103		004S000105		004S000203		004S000207		004S000306		004S000307	
	SAMPLE DATE ----->	12/06/94		12/06/94		12/08/94		12/08/94		12/06/94		12/06/94	
	DATE EXTRACTED -->	12/12/94		12/12/94		12/12/94		12/12/94		12/12/94		12/12/94	
	DATE ANALYZED --->	12/16/94		12/14/94		12/15/94		12/15/94		12/14/94		12/14/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL
108-95-2	Phenol	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
111-44-4	bis(2-Chloroethyl)ether	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
95-57-8	2-Chlorophenol	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
541-73-1	1,3-Dichlorobenzene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
106-46-7	1,4-Dichlorobenzene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
100-51-6	Benzyl alcohol	6500.	U	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
95-50-1	1,2-Dichlorobenzene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
95-48-7	2-Methylphenol (o-Cresol)	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
108-60-1	bis(2-chloroisopropyl) ether	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
106-44-5	4-Methylphenol (p-Cresol)	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
621-64-7	N-Nitroso-di-n-propylamine	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
67-72-1	Hexachloroethane	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
98-95-3	Nitrobenzene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
78-59-1	Isophorone	3300.	U	660.	U	660.	U	8800.		660.	U	660.	U
88-75-5	2-Nitrophenol	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
105-67-9	2,4-Dimethylphenol	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
111-91-1	bis(2-Chloroethoxy)methane	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
120-83-2	2,4-Dichlorophenol	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
120-82-1	1,2,4-Trichlorobenzene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
91-20-3	Naphthalene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
87-68-3	Hexachlorobutadiene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
59-50-7	4-Chloro-3-methylphenol	6500.	U	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
91-57-6	2-Methylnaphthalene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
77-47-4	Hexachlorocyclopentadiene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
88-06-2	2,4,6-Trichlorophenol	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
95-95-4	2,4,5-Trichlorophenol	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
91-58-7	2-Chloronaphthalene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
88-74-4	2-Nitroaniline	16500.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
131-11-3	Dimethylphthalate	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
208-96-8	Acenaphthylene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
99-09-2	3-Nitroaniline	16500.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
83-32-9	Acenaphthene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
51-28-5	2,4-Dinitrophenol	16500.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
100-02-7	4-Nitrophenol	16500.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
132-64-9	Dibenzofuran	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
121-14-2	2,4-Dinitrotoluene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
606-20-2	2,6-Dinitrotoluene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
84-66-2	Diethylphthalate	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	4SB-1 (4-6')		4SB-1 (8-10')		4SB-2 (4-6')		4SB-2 (12-14')		4MW-3 (28-33')		4MW-3 (33-38')	
	ORIGINAL ID ----->	004S000103		004S000105		004S000203		004S000207		004S000306		004S000307	
	SAMPLE DATE ----->	12/06/94		12/06/94		12/08/94		12/08/94		12/06/94		12/06/94	
	DATE EXTRACTED -->	12/12/94		12/12/94		12/12/94		12/12/94		12/12/94		12/12/94	
	DATE ANALYZED --->	12/16/94		12/14/94		12/15/94		12/15/94		12/14/94		12/14/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL
7005-72-3	4-Chlorophenyl-phenylether	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
86-73-7	Fluorene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
100-01-6	4-Nitroaniline	16500.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
534-52-1	4,6-Dinitro-2-methylphenol	16500.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
86-30-6	N-Nitrosodiphenylamine	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
101-55-3	4-Bromophenyl-phenylether	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
118-74-1	Hexachlorobenzene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
87-86-5	Pentachlorophenol	16500.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
85-01-8	Phenanthrene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
120-12-7	Anthracene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
206-44-0	Fluoranthene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
129-00-0	Pyrene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
85-68-7	Butylbenzylphthalate	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
91-94-1	3,3'-Dichlorobenzidine	6500.	U	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
56-55-3	Benzo(a)anthracene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
218-01-9	Chrysene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
117-84-0	Di-n-octylphthalate	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
205-99-2	Benzo(b)fluoranthene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
207-08-9	Benzo(k)fluoranthene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
50-32-8	Benzo(a)pyrene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
193-39-5	Indeno(1,2,3-cd)pyrene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
53-70-3	Dibenz(a,h)anthracene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
191-24-2	Benzo(g,h,i)perylene	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U
88-85-7	Dinoseb	360000.		462.	U	462.	U	462.	U	462.	U	462.	U
65-85-0	Benzoic acid	16500.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
106-47-8	4-Chloroaniline	6500.	U	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
84-74-2	Di-n-butylphthalate	3300.	U	660.	U	660.	U	660.	U	660.	U	660.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	4MW-4 (8-13')		4MW-4 (18-23')		4MW-4 (23-28')		4SB-3 (6-8')		4SB-3 (12-14')	
	ORIGINAL ID ----->	004S000403		004S000405		004S000406		004S000304		004S000307	
	SAMPLE DATE ----->	12/14/94		12/14/94		12/15/94		12/08/94		12/08/94	
	DATE EXTRACTED -->	12/22/94		12/22/94		12/22/94		12/12/94		12/13/94	
	DATE ANALYZED --->	12/23/94		12/23/94		12/23/94		12/15/94		12/16/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11134	VAL	11134	VAL	11134	VAL	11008	VAL	11008	VAL
108-95-2	Phenol	660.	U	660.	U	660.	U	660.	U	660.	U
111-44-4	bis(2-Chloroethyl)ether	660.	U	660.	U	660.	U	660.	U	660.	U
95-57-8	2-Chlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U
541-73-1	1,3-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U
106-46-7	1,4-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U
100-51-6	Benzyl alcohol	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
95-50-1	1,2-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U
95-48-7	2-Methylphenol (o-Cresol)	660.	U	660.	U	660.	U	660.	U	660.	U
108-60-1	bis(2-chloroisopropyl) ether	660.	U	660.	U	660.	U	660.	U	660.	U
106-44-5	4-Methylphenol (p-Cresol)	660.	U	660.	U	660.	U	660.	U	660.	U
621-64-7	N-Nitroso-di-n-propylamine	660.	U	660.	U	660.	U	660.	U	660.	U
67-72-1	Hexachloroethane	660.	U	660.	U	660.	U	660.	U	660.	U
98-95-3	Nitrobenzene	660.	U	660.	U	660.	U	660.	U	660.	U
78-59-1	Isophorone	660.	U	660.	U	660.	U	15000.		660.	U
88-75-5	2-Nitrophenol	660.	U	660.	U	660.	U	660.	U	660.	U
105-67-9	2,4-Dimethylphenol	660.	U	660.	U	660.	U	660.	U	660.	U
111-91-1	bis(2-Chloroethoxy)methane	660.	U	660.	U	660.	U	660.	U	660.	U
120-83-2	2,4-Dichlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U
120-82-1	1,2,4-Trichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U
91-20-3	Naphthalene	660.	U	660.	U	660.	U	660.	U	660.	U
87-68-3	Hexachlorobutadiene	660.	U	660.	U	660.	U	660.	U	660.	U
59-50-7	4-Chloro-3-methylphenol	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
91-57-6	2-Methylnaphthalene	660.	U	660.	U	660.	U	660.	U	660.	U
77-47-4	Hexachlorocyclopentadiene	660.	U	660.	U	660.	U	660.	U	660.	U
88-06-2	2,4,6-Trichlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U
95-95-4	2,4,5-Trichlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U
91-58-7	2-Chloronaphthalene	660.	U	660.	U	660.	U	660.	U	660.	U
88-74-4	2-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
131-11-3	Dimethylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U
208-96-8	Acenaphthylene	660.	U	660.	U	660.	U	660.	U	660.	U
99-09-2	3-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
83-32-9	Acenaphthene	660.	U	660.	U	660.	U	660.	U	660.	U
51-28-5	2,4-Dinitrophenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
100-02-7	4-Nitrophenol	3300.	U	3300.	U	3300.	U	3300.	U	660.	U
132-64-9	Dibenzofuran	660.	U	660.	U	660.	U	660.	U	660.	U
121-14-2	2,4-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U	660.	U
606-20-2	2,6-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U	660.	U
84-66-2	Diethylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	4MW-4 (8-13')		4MW-4 (18-23')		4MW-4 (23-28')		4SB-3 (6-8')		4SB-3 (12-14')	
	ORIGINAL ID ----->	004S000403		004S000405		004S000406		004S000304		004S000307	
	SAMPLE DATE ----->	12/14/94		12/14/94		12/15/94		12/08/94		12/08/94	
	DATE EXTRACTED -->	12/22/94		12/22/94		12/22/94		12/12/94		12/13/94	
	DATE ANALYZED --->	12/23/94		12/23/94		12/23/94		12/15/94		12/16/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11134	VAL	11134	VAL	11134	VAL	11008	VAL	11008	VAL
7005-72-3	4-Chlorophenyl-phenylether	660.	U	660.	U	660.	U	660.	U	660.	U
86-73-7	Fluorene	660.	U	660.	U	660.	U	660.	U	660.	U
100-01-6	4-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
534-52-1	4,6-Dinitro-2-methylphenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
86-30-6	N-Nitrosodiphenylamine	660.	U	660.	U	660.	U	660.	U	660.	U
101-55-3	4-Bromophenyl-phenylether	660.	U	660.	U	660.	U	660.	U	660.	U
118-74-1	Hexachlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U
87-86-5	Pentachlorophenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
85-01-8	Phenanthrene	660.	U	660.	U	660.	U	660.	U	660.	U
120-12-7	Anthracene	660.	U	660.	U	660.	U	660.	U	660.	U
206-44-0	Fluoranthene	660.	U	660.	U	660.	U	660.	U	660.	U
129-00-0	Pyrene	660.	U	660.	U	660.	U	660.	U	660.	U
85-68-7	Butylbenzylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U
91-94-1	3,3'-Dichlorobenzidine	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
56-55-3	Benzo(a)anthracene	660.	U	660.	U	660.	U	660.	U	660.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	660.	U	660.	U	660.	U	660.	U	660.	U
218-01-9	Chrysene	660.	U	660.	U	660.	U	660.	U	660.	U
117-84-0	Di-n-octylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U
205-99-2	Benzo(b)fluoranthene	660.	U	660.	U	660.	U	660.	U	660.	U
207-08-9	Benzo(k)fluoranthene	660.	U	660.	U	660.	U	660.	U	660.	U
50-32-8	Benzo(a)pyrene	660.	U	660.	U	660.	U	660.	U	660.	U
193-39-5	Indeno(1,2,3-cd)pyrene	660.	U	660.	U	660.	U	660.	U	660.	U
53-70-3	Dibenz(a,h)anthracene	660.	U	660.	U	660.	U	660.	U	660.	U
191-24-2	Benzo(g,h,i)perylene	660.	U	660.	U	660.	U	660.	U	660.	U
88-85-7	Dinoseb	50000.		462.	U	462.	U	462.	U	462.	U
65-85-0	Benzoic acid	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
106-47-8	4-Chloroaniline	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
84-74-2	Di-n-butylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	4SB-1 (4-6')		4SB-1 (8-10')		4MW-3 (28-33')		4MW-3 (33-38')		4MW-4 (8-13')		4MW-4 (18-23')	
	ORIGINAL ID ----->	004S000103		004S000105		004S000306		004S000307		004S000403		004S000405	
	SAMPLE DATE ----->	12/06/94		12/06/94		12/06/94		12/06/94		12/14/94		12/14/94	
	DATE EXTRACTED -->	12/11/94		12/11/94		12/11/94		12/11/94		12/23/94		12/23/94	
	DATE ANALYZED --->	12/11/94		12/11/94		12/11/94		12/11/94		12/23/94		12/23/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11134	VAL	11134	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
67-64-1	Acetone	150.		4400.		100.	U	330.		190.		1000.	
75-15-0	Carbon disulfide	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	340.		820.		5.	U	49.	
78-93-3	2-Butanone (MEK)	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
591-78-6	2-Hexanone	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	28.		5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (total)	21.		5.	U	5.	U	5.	U	5.	U	5.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE II SUBSURFACE SOIL DATA

VOA								
	SHORT ID --------->	4MW-4 (23-28')						
	ORIGINAL ID ------>	004S000406						
	SAMPLE DATE ------>	12/15/94						
	DATE EXTRACTED --->	12/23/94						
	DATE ANALYZED ---->	12/23/94						
	MATRIX ----------->	Soil						
	UNITS ------------>	UG/KG						
CAS #	Parameter	11134	VAL					
74-87-3	Chloromethane	10.	U					
74-83-9	Bromomethane	10.	U					
75-01-4	Vinyl chloride	10.	U					
75-00-3	Chloroethane	10.	U					
75-09-2	Methylene chloride	20.	U					
67-64-1	Acetone	100.	U					
75-15-0	Carbon disulfide	100.	U					
75-35-4	1,1-Dichloroethene	5.	U					
75-34-3	1,1-Dichloroethane	5.	U					
156-60-5	trans-1,2-Dichloroethene	5.	U					
67-66-3	Chloroform	5.	U					
107-06-2	1,2-Dichloroethane	5.	U					
78-93-3	2-Butanone (MEK)	100.	U					
71-55-6	1,1,1-Trichloroethane	5.	U					
56-23-5	Carbon tetrachloride	5.	U					
108-05-4	Vinyl acetate	50.	U					
75-27-4	Bromodichloromethane	5.	U					
79-34-5	1,1,2,2-Tetrachloroethane	5.	U					
78-87-5	1,2-Dichloropropane	5.	U					
10061-02-6	trans-1,3-Dichloropropene	5.	U					
79-01-6	Trichloroethene	5.	U					
124-48-1	Dibromochloromethane	5.	U					
79-00-5	1,1,2-Trichloroethane	5.	U					
71-43-2	Benzene	5.	U					
10061-01-5	cis-1,3-Dichloropropene	5.	U					
110-75-8	2-Chloroethylvinylether	10.	U					
75-25-2	Bromoform	5.	U					
591-78-6	2-Hexanone	50.	U					
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U					
127-18-4	Tetrachloroethene	5.	U					
108-88-3	Toluene	5.	U					
108-90-7	Chlorobenzene	5.	U					
100-41-4	Ethylbenzene	5.	U					
100-42-5	Styrene	5.	U					
1330-20-7	Xylene (total)	5.	U					

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

PCB	SHORT ID --------->	SAI-2 (28-30')		SAI-5 (2-4')		SAI-6 (20-22')		SAI-6 (28-30')		SAI-9 (12-14')		SAI-9 (26-28')	
	ORIGINAL ID ----->	SAIS000215		SAIS000502		SAIS000611		SAIS000615		SAIS000907		SAIS000914	
	SAMPLE DATE ----->	10/10/95		10/11/95		10/11/95		10/11/95		10/17/95		10/17/95	
	DATE EXTRACTED -->	10/16/95		10/16/95		10/16/95		10/16/95		10/26/95		10/26/95	
	DATE ANALYZED --->	10/20/95		10/20/95		10/20/95		10/26/95		11/02/95		10/26/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL
12674-11-2	Aroclor-1016	44.	U	39.	U	43.	U	41.	U	42.	U	43.	U
11104-28-2	Aroclor-1221	44.	U	39.	U	43.	U	41.	U	42.	U	43.	U
11141-16-5	Aroclor-1232	44.	U	39.	U	43.	U	41.	U	42.	U	43.	U
53469-21-9	Aroclor-1242	44.	U	39.	U	43.	U	41.	U	42.	U	43.	U
12672-29-6	Aroclor-1248	44.	U	39.	U	43.	U	41.	U	42.	U	43.	U
11097-69-1	Aroclor-1254	44.	U	39.	U	43.	U	41.	U	42.	U	43.	U
11096-82-5	Aroclor-1260	44.	U	39.	U	43.	U	41.	U	42.	U	43.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

PCB

SHORT ID --------->	SAI-23 (10-12')
ORIGINAL ID ----->	SAIS002308
SAMPLE DATE ----->	10/19/95
DATE EXTRACTED -->	10/26/95
DATE ANALYZED --->	10/26/95
MATRIX ---------->	Soil
UNITS ----------->	UG/KG

CAS #	Parameter	G114-11	VAL
12674-11-2	Aroclor-1016	41.	U
11104-28-2	Aroclor-1221	41.	U
11141-16-5	Aroclor-1232	41.	U
53469-21-9	Aroclor-1242	41.	U
12672-29-6	Aroclor-1248	41.	U
11097-69-1	Aroclor-1254	41.	U
11096-82-5	Aroclor-1260	41.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	SAI-2 (28-30')		SAI-5 (2-4')		SAI-6 (20-22')		SAI-6 (28-30')		SAI-9 (12-14')		SAI-9 (26-28')	
	ORIGINAL ID ----->	SAIS000215		SAIS000502		SAIS000611		SAIS000615		SAIS000907		SAIS000914	
	SAMPLE DATE ----->	10/10/95		10/11/95		10/11/95		10/11/95		10/17/95		10/17/95	
	DATE EXTRACTED -->	10/16/95		10/16/95		10/16/95		10/16/95		10/26/95		10/26/95	
	DATE ANALYZED --->	10/20/95		10/20/95		10/20/95		10/26/95		11/02/95		10/26/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL
319-84-6	Alpha-BHC	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
319-85-7	Beta-BHC	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
319-86-8	Delta-BHC	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
58-89-9	gamma-BHC (Lindane)	4.4	U	4.7		4.3	U	4.1	U	4.2	U	4.3	U
76-44-8	Heptachlor	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
309-00-2	Aldrin	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
1024-57-3	Heptachlor Epoxide	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
959-98-8	Endosulfan I	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
60-57-1	Dieldrin	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
72-55-9	4,4'-DDE	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
72-20-8	Endrin	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
72-54-8	4,4'-DDD	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
33213-65-9	Endosulfan II	22.	U	19.	U	21.	U	21.	U	21.	U	21.	U
50-29-3	4,4'-DDT	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
72-43-5	Methoxychlor	22.	U	19.	U	21.	U	21.	U	21.	U	21.	U
8001-35-2	Toxaphene	44.	U	39.	U	43.	U	41.	U	42.	U	43.	U
57-74-9	Chlordane	44.	U	39.	U	43.	U	41.	U	42.	U	43.	U
7421-93-4	Endrin aldehyde	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
1031-07-8	Endosulfan Sulfate	4.4	U	3.9	U	4.3	U	4.1	U	4.2	U	4.3	U
53494-70-5	Endrin ketone	4.4	U	10.		4.3	U	4.1	U	4.2	U	4.3	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

PEST							
	SHORT ID --------->	SA1-23 (10-12')					
	ORIGINAL ID ----->	SA1S002308					
	SAMPLE DATE ----->	10/19/95					
	DATE EXTRACTED -->	10/26/95					
	DATE ANALYZED --->	10/26/95					
	MATRIX ---------->	Soil					
	UNITS ----------->	UG/KG					
CAS #	Parameter	G114-11	VAL				
319-84-6	Alpha-BHC	4.1	U				
319-85-7	Beta-BHC	4.1	U				
319-86-8	Delta-BHC	4.1	U				
58-89-9	gamma-BHC (Lindane)	30.					
76-44-8	Heptachlor	4.1	U				
309-00-2	Aldrin	4.1	U				
1024-57-3	Heptachlor Epoxide	4.1	U				
959-98-8	Endosulfan I	4.1	U				
60-57-1	Dieldrin	4.1	U				
72-55-9	4,4'-DDE	4.1	U				
72-20-8	Endrin	10.					
72-54-8	4,4'-DDD	4.1	U				
33213-65-9	Endosulfan II	16.					
50-29-3	4,4'-DDT	4.1	U				
72-43-5	Methoxychlor	520.					
8001-35-2	Toxaphene	41.	U				
57-74-9	Chlordane	41.	U				
7421-93-4	Endrin aldehyde	15.					
1031-07-8	Endosulfan Sulfate	4.1	U				
53494-70-5	Endrin ketone	34.					

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	SAI-2 (28-30')		SAI-5 (2-4')		SAI-6 (20-22')		SAI-6 (28-30')		SAI-9 (12-14')		SAI-9 (26-28')	
	ORIGINAL ID ----->	SAIS000215		SAIS000502		SAIS000611		SAIS000615		SAIS000907		SAIS000914	
	SAMPLE DATE ----->	10/10/95		10/11/95		10/11/95		10/11/95		10/17/95		10/17/95	
	DATE EXTRACTED -->	10/17/95		10/17/95		10/17/95		10/17/95		10/25/95		10/25/95	
	DATE ANALYZED --->	10/18/95		10/17/95		10/18/95		10/18/95		10/26/95		10/30/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL
83-32-9	Acenaphthene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
208-96-8	Acenaphthylene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
120-12-7	Anthracene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
56-55-3	Benzo(a)anthracene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
50-32-8	Benzo(a)pyrene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
205-99-2	Benzo(b)fluoranthene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
191-24-2	Benzo(g,h,i)perylene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
207-08-9	Benzo(k)fluoranthene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
65-85-0	Benzoic acid	900.	U	800.	U	820.	U	780.	U	840.	U	790.	U
100-51-6	Benzyl alcohol	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
111-91-1	bis(2-Chloroethoxy)methane	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
111-44-4	bis(2-Chloroethyl)ether	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
39638-32-9	2,2'-Oxybis(2-chloro)propane	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
101-55-3	4-Bromophenyl-phenylether	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
85-68-7	Butylbenzylphthalate	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
106-47-8	4-Chloroaniline	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
59-50-7	4-Chloro-3-methylphenol	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
91-58-7	2-Chloronaphthalene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
95-57-8	2-Chlorophenol	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
7005-72-3	4-Chlorophenyl-phenylether	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
218-01-9	Chrysene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
84-74-2	Di-n-butylphthalate	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
117-84-0	Di-n-octylphthalate	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
53-70-3	Dibenz(a,h)anthracene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
132-64-9	Dibenzofuran	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
95-76-1	3,4-Dichloroaniline	450.	U	2800.		410.	U	390.	U	420.	U	390.	U
95-50-1	1,2-Dichlorobenzene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
541-73-1	1,3-Dichlorobenzene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
106-46-7	1,4-Dichlorobenzene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
91-94-1	3,3'-Dichlorobenzidine	900.	U	800.	U	820.	U	780.	U	840.	U	790.	U
120-83-2	2,4-Dichlorophenol	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
84-66-2	Diethylphthalate	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
105-67-9	2,4-Dimethylphenol	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
131-11-3	Dimethylphthalate	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
534-52-1	4,6-Dinitro-2-methylphenol	2300.	U	2000.	U	2000.	U	2000.	U	2100.	U	2000.	U
51-28-5	2,4-Dinitrophenol	2300.	U	2000.	U	2000.	U	2000.	U	2100.	U	2000.	U
121-14-2	2,4-Dinitrotoluene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	SAI-2 (28-30')		SAI-5 (2-4')		SAI-6 (20-22')		SAI-6 (28-30')		SAI-9 (12-14')		SAI-9 (26-28')	
	ORIGINAL ID ----->	SAIS000215		SAIS000502		SAIS000611		SAIS000615		SAIS000907		SAIS000914	
	SAMPLE DATE ----->	10/10/95		10/11/95		10/11/95		10/11/95		10/17/95		10/17/95	
	DATE EXTRACTED -->	10/17/95		10/17/95		10/17/95		10/17/95		10/25/95		10/25/95	
	DATE ANALYZED --->	10/18/95		10/17/95		10/18/95		10/18/95		10/26/95		10/30/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL
606-20-2	2,6-Dinitrotoluene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
88-85-7	Dinoseb	450.	U	40000.		410.	U	390.	U	40000.		890.	
206-44-0	Fluoranthene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
86-73-7	Fluorene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
118-74-1	Hexachlorobenzene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
87-68-3	Hexachlorobutadiene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
77-47-4	Hexachlorocyclopentadiene	900.	U	800.	U	820.	U	780.	U	840.	U	790.	U
67-72-1	Hexachloroethane	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
193-39-5	Indeno(1,2,3-cd)pyrene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
78-59-1	Isophorone	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
91-57-6	2-Methylnaphthalene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
95-48-7	2-Methylphenol (o-Cresol)	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
106-44-5	4-Methylphenol (p-Cresol)	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
621-64-7	N-Nitroso-di-n-propylamine	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
86-30-6	N-Nitrosodiphenylamine	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
91-20-3	Naphthalene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
88-74-4	2-Nitroaniline	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
99-09-2	3-Nitroaniline	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
100-01-6	4-Nitroaniline	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
98-95-3	Nitrobenzene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
88-75-5	2-Nitrophenol	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
100-02-7	4-Nitrophenol	2300.	U	2000.	U	2000.	U	2000.	U	2100.	U	2000.	U
87-86-5	Pentachlorophenol	2300.	U	2000.	U	2000.	U	2000.	U	2100.	U	2000.	U
85-01-8	Phenanthrene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
108-95-2	Phenol	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
709-98-8	Propanil	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
129-00-0	Pyrene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
120-82-1	1,2,4-Trichlorobenzene	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
95-95-4	2,4,5-Trichlorophenol	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U
88-06-2	2,4,6-Trichlorophenol	450.	U	400.	U	410.	U	390.	U	420.	U	390.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	SAI-11 (2-4')		SAI-11 (12-14')		SAI-12 (0-2')		SAI-14 (6-8')		SAI-14 (28-30')		SAI-23 (10-12')	
	ORIGINAL ID ----->	SAIS001102		SAIS001107		SAIS001201		SAIS001404		SAIS001415		SAIS002308	
	SAMPLE DATE ----->	10/16/95		10/16/95		10/17/95		10/16/95		10/16/95		10/19/95	
	DATE EXTRACTED -->	10/25/95		10/25/95		10/25/95		10/25/95		10/25/95		10/25/95	
	DATE ANALYZED --->	10/26/95		10/26/95		10/26/95		10/26/95		10/26/95		10/26/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL
83-32-9	Acenaphthene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
208-96-8	Acenaphthylene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
120-12-7	Anthracene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
56-55-3	Benzo(a)anthracene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
50-32-8	Benzo(a)pyrene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
205-99-2	Benzo(b)fluoranthene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
191-24-2	Benzo(g,h,i)perylene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
207-08-9	Benzo(k)fluoranthene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
65-85-0	Benzoic acid	770.	U	780.	U	740.	U	760.	U	890.	U	500.	
100-51-6	Benzyl alcohol	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
111-91-1	bis(2-Chloroethoxy)methane	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
111-44-4	bis(2-Chloroethyl)ether	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
39638-32-9	2,2'-Oxybis(2-chloro)propane	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
101-55-3	4-Bromophenyl-phenylether	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
85-68-7	Butylbenzylphthalate	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
106-47-8	4-Chloroaniline	1100.		390.	U	370.	U	380.	U	440.	U	1300.	
59-50-7	4-Chloro-3-methylphenol	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
91-58-7	2-Chloronaphthalene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
95-57-8	2-Chlorophenol	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
7005-72-3	4-Chlorophenyl-phenylether	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
218-01-9	Chrysene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
84-74-2	Di-n-butylphthalate	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
117-84-0	Di-n-octylphthalate	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
53-70-3	Dibenz(a,h)anthracene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
132-64-9	Dibenzofuran	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
95-76-1	3,4-Dichloroaniline	530.		390.	U	370.	U	380.	U	440.	U	80000.	
95-50-1	1,2-Dichlorobenzene	380.	U	390.	U	370.	U	380.	U	440.	U	4500.	
541-73-1	1,3-Dichlorobenzene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
106-46-7	1,4-Dichlorobenzene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
91-94-1	3,3'-Dichlorobenzidine	770.	U	780.	U	740.	U	760.	U	890.	U	850.	U
120-83-2	2,4-Dichlorophenol	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
84-66-2	Diethylphthalate	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
105-67-9	2,4-Dimethylphenol	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
131-11-3	Dimethylphthalate	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
534-52-1	4,6-Dinitro-2-methylphenol	1900.	U	1900.	U	1800.	U	1900.	U	2200.	U	2100.	U
51-28-5	2,4-Dinitrophenol	1900.	U	1900.	U	1800.	U	1900.	U	2200.	U	2100.	U
121-14-2	2,4-Dinitrotoluene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	SAI-11 (2-4')		SAI-11 (12-14')		SAI-12 (0-2')		SAI-14 (6-8')		SAI-14 (28-30')		SAI-23 (10-12')	
	ORIGINAL ID ----->	SAIS001102		SAIS001107		SAIS001201		SAIS001404		SAIS001415		SAIS002308	
	SAMPLE DATE ----->	10/16/95		10/16/95		10/17/95		10/16/95		10/16/95		10/19/95	
	DATE EXTRACTED -->	10/25/95		10/25/95		10/25/95		10/25/95		10/25/95		10/25/95	
	DATE ANALYZED --->	10/26/95		10/26/95		10/26/95		10/26/95		10/26/95		10/26/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL
606-20-2	2,6-Dinitrotoluene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
88-85-7	Dinoseb	57000.		10000.		370.	U	990.		440.	U	77000.	
206-44-0	Fluoranthene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
86-73-7	Fluorene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
118-74-1	Hexachlorobenzene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
87-68-3	Hexachlorobutadiene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
77-47-4	Hexachlorocyclopentadiene	770.	U	780.	U	740.	U	760.	U	890.	U	850.	U
67-72-1	Hexachloroethane	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
193-39-5	Indeno(1,2,3-cd)pyrene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
78-59-1	Isophorone	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
91-57-6	2-Methylnaphthalene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
95-48-7	2-Methylphenol (o-Cresol)	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
106-44-5	4-Methylphenol (p-Cresol)	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
621-64-7	N-Nitroso-di-n-propylamine	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
86-30-6	N-Nitrosodiphenylamine	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
91-20-3	Naphthalene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
88-74-4	2-Nitroaniline	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
99-09-2	3-Nitroaniline	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
100-01-6	4-Nitroaniline	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
98-95-3	Nitrobenzene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
88-75-5	2-Nitrophenol	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
100-02-7	4-Nitrophenol	1900.	U	1900.	U	1800.	U	1900.	U	2200.	U	2100.	U
87-86-5	Pentachlorophenol	1900.	U	1900.	U	1800.	U	1900.	U	2200.	U	2100.	U
85-01-8	Phenanthrene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
108-95-2	Phenol	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
709-98-8	Propanil	380.	U	390.	U	370.	U	380.	U	440.	U	51000.	
129-00-0	Pyrene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
120-82-1	1,2,4-Trichlorobenzene	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
95-95-4	2,4,5-Trichlorophenol	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U
88-06-2	2,4,6-Trichlorophenol	380.	U	390.	U	370.	U	380.	U	440.	U	420.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

VOA																							
	SHORT ID --------->	SAI-1 (2-4')			SAI-1 (32-34')			SAI-12 (0-2')			SAI-23 (10-12')			SAI-24 (10-12')			SAI-24 (28-30')		
	ORIGINAL ID ----->	SAIS000102			SAIS000117			SAIS001201			SAIS002308			SAIS002406			SAIS002415		
	SAMPLE DATE ----->	10/10/95			10/10/95			10/17/95			10/19/95			11/07/95			11/07/95		
	DATE EXTRACTED -->	10/26/95			10/20/95			10/31/95			10/24/95			11/14/95			11/14/95		
	DATE ANALYZED --->	10/26/95			10/20/95			10/31/95			10/24/95			11/14/95			11/14/95		
	MATRIX ---------->	Soil			Soil			Soil			Soil			Soil			Soil		
	UNITS ---------->	UG/KG			UG/KG			UG/KG			UG/KG			UG/KG			UG/KG		
CAS #	Parameter	G114-11		VAL	G114-11		VAL	G114-11		VAL	G114-11		VAL	G114-13		VAL	G114-13		VAL
67-64-1	Acetone	29.		U	31.		U	50.			5600.			30.		U	33.		U
71-43-2	Benzene	12.		U	12.		U	12.		U	220.			12.		U	13.		U
75-27-4	Bromodichloromethane	12.		U	12.		U	12.		U	17.			12.		U	13.		U
75-25-2	Bromoform	12.		U	12.		U	12.		U	100.			12.		U	13.		U
74-83-9	Bromomethane	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
78-93-3	2-Butanone (MEK)	29.			12.		U	12.		U	150.			12.		U	13.		U
75-15-0	Carbon disulfide	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
56-23-5	Carbon tetrachloride	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
108-90-7	Chlorobenzene	12.		U	12.		U	12.		U	37.			12.		U	13.		U
75-00-3	Chloroethane	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
110-75-8	2-Chloroethylvinylether	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
67-66-3	Chloroform	12.		U	12.		U	12.		U	160.			12.		U	13.		U
74-87-3	Chloromethane	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
124-48-1	Dibromochloromethane	12.		U	12.		U	12.		U	74.			12.		U	13.		U
95-50-1	1,2-Dichlorobenzene	12.		U	12.		U	12.		U	3400.			12.		U	13.		U
541-73-1	1,3-Dichlorobenzene	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
106-46-7	1,4-Dichlorobenzene	12.		U	12.		U	12.		U	56.			12.		U	13.		U
75-34-3	1,1-Dichloroethane	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
107-06-2	1,2-Dichloroethane	12.		U	12.		U	12.		U	1100.			12.		U	13.		U
75-35-4	1,1-Dichloroethene	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
156-59-2	cis-1,2-Dichloroethene	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
156-60-5	trans-1,2-Dichloroethene	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
78-87-5	1,2-Dichloropropane	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
10061-01-5	cis-1,3-Dichloropropene	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
10061-02-6	trans-1,3-Dichloropropene	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
100-41-4	Ethylbenzene	12.		U	12.		U	12.		U	1800.			12.		U	13.		U
75-69-4	Trichlorofluoromethane	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
591-78-6	2-Hexanone	12.		U	12.		U	12.		U	14.			12.		U	13.		U
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
75-09-2	Methylene chloride	54.			12.		U	12.		U	40.			26.			13.		U
100-42-5	Styrene	12.		U	12.		U	12.		U	180.			12.		U	13.		U
79-34-5	1,1,2,2-Tetrachloroethane	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
127-18-4	Tetrachloroethene	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
108-88-3	Toluene	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
71-55-6	1,1,1-Trichloroethane	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
79-00-5	1,1,2-Trichloroethane	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
79-01-6	Trichloroethene	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U
108-05-4	Vinyl acetate	12.		U	12.		U	12.		U	13.		U	12.		U	13.		U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	SAI-1 (2-4')		SAI-1 (32-34')		SAI-12 (0-2')		SAI-23 (10-12')		SAI-24 (10-12')		SAI-24 (28-30')	
	ORIGINAL ID ----->	SAIS000102		SAIS000117		SAIS001201		SAIS002308		SAIS002406		SAIS002415	
	SAMPLE DATE ----->	10/10/95		10/10/95		10/17/95		10/19/95		11/07/95		11/07/95	
	DATE EXTRACTED -->	10/26/95		10/20/95		10/31/95		10/24/95		11/14/95		11/14/95	
	DATE ANALYZED --->	10/26/95		10/20/95		10/31/95		10/24/95		11/14/95		11/14/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-11	VAL	G114-13	VAL	G114-13	VAL
75-01-4	Vinyl chloride	12.	U	12.	U	12.	U	13.	U	12.	U	13.	U
1330-20-7	Xylene (total)	12.	U	12.	U	12.	U	4700.		12.	U	13.	U
95-47-6	o-Xylene	12.	U	12.	U	12.	U	5900.		12.	U	13.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	SAI-25 (12-14')		SAI-25 (28-30')		SAI-26 (12-14')		SAI-26 (28-30')		SAI-27 (2-4')		SAI-27 (28-30')	
	ORIGINAL ID ----->	SAIS002507		SAIS002515		SAIS002607		SAIS002615		SAIS002702		SAIS002715	
	SAMPLE DATE ----->	11/07/95		11/07/95		11/08/95		11/08/95		11/08/95		11/08/95	
	DATE EXTRACTED -->	11/14/95		11/14/95		11/14/95		11/14/95		11/14/95		11/14/95	
	DATE ANALYZED --->	11/14/95		11/15/95		11/15/95		11/15/95		11/15/95		11/15/95	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	G114-13	VAL	G114-13	VAL	G114-13	VAL	G114-13	VAL	G114-13	VAL	G114-13	VAL
67-64-1	Acetone	41.		32.	U	33.	U	32.	U	56.		32.	U
71-43-2	Benzene	18.		13.	U	13.	U	13.	U	12.	U	13.	U
75-27-4	Bromodichloromethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-25-2	Bromoform	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
74-83-9	Bromomethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
78-93-3	2-Butanone (MEK)	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-15-0	Carbon disulfide	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
56-23-5	Carbon tetrachloride	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
108-90-7	Chlorobenzene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-00-3	Chloroethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
110-75-8	2-Chloroethylvinylether	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
67-66-3	Chloroform	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
74-87-3	Chloromethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
124-48-1	Dibromochloromethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
95-50-1	1,2-Dichlorobenzene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
541-73-1	1,3-Dichlorobenzene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
106-46-7	1,4-Dichlorobenzene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-34-3	1,1-Dichloroethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
107-06-2	1,2-Dichloroethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-35-4	1,1-Dichloroethene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
156-59-2	cis-1,2-Dichloroethene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
156-60-5	trans-1,2-Dichloroethene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
78-87-5	1,2-Dichloropropane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
10061-01-5	cis-1,3-Dichloropropene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
10061-02-6	trans-1,3-Dichloropropene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
100-41-4	Ethylbenzene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-69-4	Trichlorofluoromethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
591-78-6	2-Hexanone	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
75-09-2	Methylene chloride	56.		29.		13.	U	35.		30.		35.	
100-42-5	Styrene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
127-18-4	Tetrachloroethene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
108-88-3	Toluene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
71-55-6	1,1,1-Trichloroethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
79-00-5	1,1,2-Trichloroethane	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
79-01-6	Trichloroethene	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
108-05-4	Vinyl acetate	13.	U	13.	U	13.	U	13.	U	12.	U	13.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

VOA		SHORT ID --------->	SAI-25 (12-14')		SAI-25 (28-30')		SAI-26 (12-14')		SAI-26 (28-30')		SAI-27 (2-4')		SAI-27 (28-30')	
		ORIGINAL ID ----->	SAIS002507		SAIS002515		SAIS002607		SAIS002615		SAIS002702		SAIS002715	
		SAMPLE DATE ----->	11/07/95		11/07/95		11/08/95		11/08/95		11/08/95		11/08/95	
		DATE EXTRACTED -->	11/14/95		11/14/95		11/14/95		11/14/95		11/14/95		11/14/95	
		DATE ANALYZED --->	11/14/95		11/15/95		11/15/95		11/15/95		11/15/95		11/15/95	
		MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
		UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter		G114-13	VAL	G114-13	VAL	G114-13	VAL	G114-13	VAL	G114-13	VAL	G114-13	VAL
75-01-4	Vinyl chloride		13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
1330-20-7	Xylene (total)		13.	U	13.	U	13.	U	13.	U	12.	U	13.	U
95-47-6	o-Xylene		13.	U	13.	U	13.	U	13.	U	12.	U	13.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

VOA									
	SHORT ID --------->	SAI-28 (12-14')		SAI-28 (30-32')					
	ORIGINAL ID ------>	SAIS002807		SAIS002816					
	SAMPLE DATE ------>	11/08/95		11/08/95					
	DATE EXTRACTED --->	11/14/95		11/14/95					
	DATE ANALYZED ---->	11/15/95		11/15/95					
	MATRIX ----------->	Soil		Soil					
	UNITS ------------>	UG/KG		UG/KG					
CAS #	Parameter	G114-13	VAL	G114-13	VAL				
67-64-1	Acetone	31.	U	32.	U				
71-43-2	Benzene	12.	U	13.	U				
75-27-4	Bromodichloromethane	12.	U	13.	U				
75-25-2	Bromoform	12.	U	13.	U				
74-83-9	Bromomethane	12.	U	13.	U				
78-93-3	2-Butanone (MEK)	12.	U	13.	U				
75-15-0	Carbon disulfide	12.	U	13.	U				
56-23-5	Carbon tetrachloride	12.	U	13.	U				
108-90-7	Chlorobenzene	12.	U	13.	U				
75-00-3	Chloroethane	12.	U	13.	U				
110-75-8	2-Chloroethylvinylether	12.	U	13.	U				
67-66-3	Chloroform	12.	U	13.	U				
74-87-3	Chloromethane	12.	U	13.	U				
124-48-1	Dibromochloromethane	12.	U	13.	U				
95-50-1	1,2-Dichlorobenzene	12.	U	13.	U				
541-73-1	1,3-Dichlorobenzene	12.	U	13.	U				
106-46-7	1,4-Dichlorobenzene	12.	U	13.	U				
75-34-3	1,1-Dichloroethane	12.	U	13.	U				
107-06-2	1,2-Dichloroethane	12.	U	13.	U				
75-35-4	1,1-Dichloroethene	12.	U	13.	U				
156-59-2	cis-1,2-Dichloroethene	12.	U	13.	U				
156-60-5	trans-1,2-Dichloroethene	12.	U	13.	U				
78-87-5	1,2-Dichloropropane	12.	U	13.	U				
10061-01-5	cis-1,3-Dichloropropene	12.	U	13.	U				
10061-02-6	trans-1,3-Dichloropropene	12.	U	13.	U				
100-41-4	Ethylbenzene	12.	U	13.	U				
75-69-4	Trichlorofluoromethane	12.	U	13.	U				
591-78-6	2-Hexanone	12.	U	13.	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.	U	13.	U				
75-09-2	Methylene chloride	33.		35.					
100-42-5	Styrene	12.	U	13.	U				
79-34-5	1,1,2,2-Tetrachloroethane	12.	U	13.	U				
127-18-4	Tetrachloroethene	12.	U	13.	U				
108-88-3	Toluene	12.	U	13.	U				
71-55-6	1,1,1-Trichloroethane	12.	U	13.	U				
79-00-5	1,1,2-Trichloroethane	12.	U	13.	U				
79-01-6	Trichloroethene	12.	U	13.	U				
108-05-4	Vinyl acetate	12.	U	13.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 4 PHASE III SUBSURFACE SOIL DATA

VOA							
SHORT ID -------->	SAI-28 (12-14')		SAI-28 (30-32')				
ORIGINAL ID ----->	SAIS002807		SAIS002816				
SAMPLE DATE ----->	11/08/95		11/08/95				
DATE EXTRACTED -->	11/14/95		11/14/95				
DATE ANALYZED --->	11/15/95		11/15/95				
MATRIX ---------->	Soil		Soil				
UNITS ----------->	UG/KG		UG/KG				
CAS #	Parameter	G114-13 VAL	G114-13 VAL				
75-01-4	Vinyl chloride	12. U	13. U				
1330-20-7	Xylene (total)	12. U	13. U				
95-47-6	o-Xylene	12. U	13. U				

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 5 PHASE I SURFACE SOIL DATA

PEST	SHORT ID --------->	5SB-1 (16-18')		5SB-2 (16-18')		5SB-3 (16-18')				
	ORIGINAL ID ----->	CED5SB1-1		CED5SB2-1		CED5SB31				
	SAMPLE DATE ----->	09/07/93		09/08/93		09/30/93				
	DATE ANALYZED --->	09/17/93		09/16/93		10/21/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E006	VAL	E003	VAL	E014	VAL			
1024-57-3	Heptachlor Epoxide	69.	U	69.	U	70.	U			
1031-07-8	Endosulfan Sulfate	55.	U	55.	U	56.	U			
309-00-2	Aldrin	3.3	U	3.3	U	3.4	U			
319-84-6	Alpha-BHC	2.5	U	3.7		2.5	U			
319-85-7	Beta-BHC	5.	U	5.	U	5.1	U			
319-86-8	Delta-BHC	7.5	U	7.5	U	7.6	U			
33213-65-9	Endosulfan II	3.3	U	12.		3.4	U			
50-29-3	4,4'-DDT	10.	U	10.	U	10.	U			
5103-71-9	alpha-Chlordane	12.	U	12.	U	12.	U			
5103-74-2	gamma-Chlordane	12.	U	12.	U	12.	U			
53494-70-5	Endrin ketone	20.	U	20.	U	20.	U			
58-89-9	gamma-BHC (Lindane)	3.3	U	3.3	U	3.4	U			
60-57-1	Dieldrin	1.7	U	1.7	U	1.7	U			
72-20-8	Endrin	5.	U	5.	U	5.1	U			
72-43-5	Methoxychlor	150.	U	150.	U	150.	U			
72-54-8	4,4'-DDD	9.1	U	9.2	U	9.3	U			
72-55-9	4,4'-DDE	3.3	U	3.3	U	3.4	U			
76-44-8	Heptachlor	2.5	U	2.5	U	2.5	U			
8001-35-2	Toxaphene	200.	U	200.	U	200.	U			
959-98-8	Endosulfan I	12.	U	12.	U	12.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 5 PHASE I SURFACE SOIL DATA

RCRA METAL		SHORT ID --------->	5SB-1 (16-18')		5SB-2 (16-18')		5SB-3 (16-18')				
		ORIGINAL ID ----->	CED5SB1-1		CED5SB2-1		CED5SB31				
		SAMPLE DATE ----->	09/07/93		09/08/93		09/30/93				
		DATE ANALYZED --->	10/01/93		10/01/93		10/21/93				
		MATRIX ---------->	Soil		Soil		Soil				
		UNITS ----------->	MG/KG		MG/KG		MG/KG				
CAS #	Parameter		E006	VAL	E003	VAL	E014	VAL			
7440-38-2	Arsenic (As)		7.4		7.6		8.5				
7440-39-3	Barium (Ba)		129.		168.		126.				
7440-43-9	Cadmium (Cd)		0.38	U	0.36	U	0.25	U			
7440-47-3	Chromium (Cr)		9.6		11.7		9.1				
7439-92-1	Lead (Pb)		8.4		9.4		9.5				
7439-97-6	Mercury (Hg)		0.11	U	0.12	U	0.12	U			
7782-49-2	Selenium (Se)		0.62	U	0.6	U	0.63	U			
7440-22-4	Silver (Ag)		0.38	U	0.36	U	0.38	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 5 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	5SB-1 (16-18')		5SB-2 (16-18')		5SB-3 (16-18')				
	ORIGINAL ID ----->	CED5SB11		CED5SB2-1		CED5SB31				
	SAMPLE DATE ----->	09/07/93		09/08/93		09/30/93				
	DATE ANALYZED --->	10/14/93		10/06/93		10/25/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E006	VAL	E003	VAL	E014	VAL			
100-01-6	4-Nitroaniline	4200.	U	1600.	U	4200.	U			
100-02-7	4-Nitrophenol	4200.	U	4100.	U	4200.	U			
100-51-6	Benzyl alcohol	830.	U	1600.	U	840.	U			
101-55-3	4-Bromophenyl-phenylether	830.	U	820.	U	840.	U			
105-67-9	2,4-Dimethylphenol	830.	U	820.	U	840.	U			
106-44-5	4-Methylphenol (p-Cresol)	830.	U	820.	U	840.	U			
106-46-7	1,4-Dichlorobenzene	830.	U	820.	U	840.	U			
106-47-8	4-Chloroaniline	830.	U	1600.	U	840.	U			
108-60-1	bis(2-chloroisopropyl) ether	830.	U	820.	U	840.	U			
108-95-2	Phenol	830.	U	820.	U	840.	U			
111-44-4	bis(2-Chloroethyl)ether	830.	U	820.	U	840.	U			
111-91-1	bis(2-Chloroethoxy)methane	830.	U	820.	U	840.	U			
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	830.	U	820.	U	840.	U			
117-84-0	Di-n-octylphthalate	830.	U	820.	U	840.	U			
118-74-1	Hexachlorobenzene	830.	U	820.	U	840.	U			
120-12-7	Anthracene	830.	U	820.	U	840.	U			
120-82-1	1,2,4-Trichlorobenzene	830.	U	820.	U	840.	U			
120-83-2	2,4-Dichlorophenol	830.	U	820.	U	840.	U			
121-14-2	2,4-Dinitrotoluene	830.	U	820.	U	840.	U			
129-00-0	Pyrene	830.	U	820.	U	840.	U			
131-11-3	Dimethylphthalate	830.	U	820.	U	840.	U			
132-64-9	Dibenzofuran	830.	U	820.	U	840.	U			
191-24-2	Benzo(g,h,i)perylene	830.	U	NR		840.	U			
193-39-5	Indeno(1,2,3-cd)pyrene	830.	U	820.	U	840.	U			
205-99-2	Benzo(b)fluoranthene	830.	U	820.	U	840.	U			
206-44-0	Fluoranthene	830.	U	820.	U	840.	U			
207-08-9	Benzo(k)fluoranthene	830.	U	820.	U	840.	U			
208-96-8	Acenaphthylene	830.	U	820.	U	840.	U			
218-01-9	Chrysene	830.	U	820.	U	840.	U			
50-32-8	Benzo(a)pyrene	830.	U	820.	U	840.	U			
51-28-5	2,4-Dinitrophenol	4200.	U	23000.		4200.	U			
534-52-1	4,6-Dinitro-2-methylphenol	4200.	U	200.		4200.	U			
53-70-3	Dibenz(a,h)anthracene	830.	U	NR		840.	U			
541-73-1	1,3-Dichlorobenzene	830.	U	820.	U	840.	U			
56-55-3	Benzo(a)anthracene	830.	U	820.	U	840.	U			
59-50-7	4-Chloro-3-methylphenol	830.	U	1600.	U	840.	U			
606-20-2	2,6-Dinitrotoluene	830.	U	820.	U	840.	U			
621-64-7	N-Nitroso-di-n-propylamine	830.	U	820.	U	840.	U			
65-85-0	Benzoic acid	4200.	U	4100.	U	4200.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 5 PHASE I SURFACE SOIL DATA

SVOA											
	SHORT ID --------->	5SB-1 (16-18')		5SB-2 (16-18')		5SB-3 (16-18')					
	ORIGINAL ID ----->	CED5SB11		CED5SB2-1		CED5SB31					
	SAMPLE DATE ----->	09/07/93		09/08/93		09/30/93					
	DATE ANALYZED --->	10/14/93		10/06/93		10/25/93					
	MATRIX ---------->	Soil		Soil		Soil					
	UNITS ----------->	UG/KG		UG/KG		UG/KG					
CAS #	Parameter	E006	VAL	E003	VAL	E014	VAL				
67-72-1	Hexachloroethane	830.	U	820.	U	840.	U				
7005-72-3	4-Chlorophenyl-phenylether	830.	U	820.	U	840.	U				
709-98-8	Propanil	830.	U	820.	U	840.	U				
77-47-4	Hexachlorocyclopentadiene	830.	U	820.	U	840.	U				
78-59-1	Isophorone	830.	U	820.	U	840.	U				
83-32-9	Acenaphthene	830.	U	820.	U	840.	U				
84-66-2	Diethylphthalate	830.	U	820.	U	840.	U				
84-74-2	Di-n-butylphthalate	830.	U	820.	U	840.	U				
85-01-8	Phenanthrene	830.	U	820.	U	840.	U				
85-68-7	Butylbenzylphthalate	830.	U	820.	U	840.	U				
86-30-6	N-Nitrosodiphenylamine	830.	U	820.	U	840.	U				
86-73-7	Fluorene	830.	U	820.	U	840.	U				
87-68-3	Hexachlorobutadiene	830.	U	820.	U	840.	U				
87-86-5	Pentachlorophenol	4200.	U	4100.	U	4200.	U				
88-06-2	2,4,6-Trichlorophenol	830.	U	820.	U	840.	U				
88-74-4	2-Nitroaniline	4200.	U	4100.	U	4200.	U				
88-75-5	2-Nitrophenol	830.	U	820.	U	840.	U				
88-85-7	Dinoseb	4200.	U	170000.		4200.	U				
91-20-3	Naphthalene	830.	U	820.	U	840.	U				
91-57-6	2-Methylnaphthalene	830.	U	820.	U	840.	U				
91-58-7	2-Chloronaphthalene	830.	U	820.	U	840.	U				
91-94-1	3,3'-Dichlorobenzidine	1700.	U	1600.	U	1700.	U				
95-48-7	2-Methylphenol (o-Cresol)	830.	U	820.	U	840.	U				
95-50-1	1,2-Dichlorobenzene	830.	U	820.	U	840.	U				
95-57-8	2-Chlorophenol	830.	U	820.	U	840.	U				
95-76-1	3,4-Dichloroaniline	830.	U	820.	U	840.	U				
95-95-4	2,4,5-Trichlorophenol	4200.	U	820.	U	4200.	U				
98-95-3	Nitrobenzene	830.	U	820.	U	840.	U				
99-09-2	3-Nitroaniline	4200.	U	4100.	U	4200.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 5 PHASE I SURFACE SOIL DATA

VOA	SHORT ID --------->	5SB-1 (16-18')		5SB-2 (16-18')		5SB-3 (16-18')				
	ORIGINAL ID ----->	CED5SB1-1		CED5SB2-1		CED5SB31				
	SAMPLE DATE ----->	09/07/93		09/08/93		09/30/93				
	DATE ANALYZED --->	09/15/93		09/16/93		10/08/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E006	VAL	E003	VAL	E014	VAL			
100-41-4	Ethylbenzene	6.	U	3.		7.	U			
100-42-5	Styrene	6.	U	6.	U	7.	U			
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	7.	U			
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	7.	U			
107-06-2	1,2-Dichloroethane	6.	U	6.	U	7.	U			
108-05-4	Vinyl acetate	6.	U	6.	U	7.	U			
108-10-1	4-Methyl-2-Pentanone (MIBK)	59.	U	35.		1.				
108-88-3	Toluene	6.	U	210.		7.	U			
108-90-7	Chlorobenzene	6.	U	6.	U	7.	U			
124-48-1	Dibromochloromethane	6.	U	6.	U	7.	U			
127-18-4	Tetrachloroethene	6.	U	6.	U	7.	U			
1330-20-7	Xylene (total)	6.	U	31.		7.	U			
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	7.	U			
56-23-5	Carbon tetrachloride	6.	U	6.	U	7.	U			
591-78-6	2-Hexanone	59.	U	61.	U	66.	U			
67-64-1	Acetone	12.	U	6800.		13.	U			
67-66-3	Chloroform	6.	U	6.	U	7.	U			
71-43-2	Benzene	6.	U	6.	U	7.	U			
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	7.	U			
74-83-9	Bromomethane	12.	U	12.	U	13.	U			
74-87-3	Chloromethane	12.	U	12.	U	13.	U			
75-00-3	Chloroethane	12.	U	12.	U	13.	U			
75-01-4	Vinyl chloride	6.	U	6.	U	7.	U			
75-09-2	Methylene chloride	18.		8.		21.				
75-15-0	Carbon disulfide	6.	U	6.	U	7.	U			
75-25-2	Bromoform	6.	U	6.	U	7.	U			
75-27-4	Bromodichloromethane	6.	U	6.	U	7.	U			
75-34-3	1,1-Dichloroethane	6.	U	6.	U	7.	U			
75-35-4	1,1-Dichloroethene	6.	U	6.	U	7.	U			
78-87-5	1,2-Dichloropropane	6.	U	6.	U	7.	U			
78-93-3	2-Butanone (MEK)	12.	U	21000.		13.	U			
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	7.	U			
79-01-6	Trichloroethene	6.	U	6.	U	7.	U			
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	7.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 5 PHASE I SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	5SB-1 (21-23')		5SB-2 (21-23')		5SB-3 (23-25')				
	ORIGINAL ID ------>	CED5SB1-2		CED5SB2-2		CED5SB32				
	SAMPLE DATE ------>	09/07/93		09/08/93		09/30/93				
	DATE ANALYZED --->	09/17/93		09/16/93		10/21/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E006	VAL	E003	VAL	E014	VAL			
1024-57-3	Heptachlor Epoxide	71.	U	73.	U	71.	U			
1031-07-8	Endosulfan Sulfate	57.	U	58.	U	57.	U			
309-00-2	Aldrin	3.4	U	3.5	U	3.4	U			
319-84-6	Alpha-BHC	2.6	U	6.8		2.6	U			
319-85-7	Beta-BHC	5.2	U	5.3	U	5.2	U			
319-86-8	Delta-BHC	7.7	U	7.9	U	7.7	U			
33213-65-9	Endosulfan II	3.4	U	5.9		3.4	U			
50-29-3	4,4'-DDT	10.	U	11.	U	10.	U			
5103-71-9	alpha-Chlordane	12.	U	12.	U	12.	U			
5103-74-2	gamma-Chlordane	12.	U	12.	U	12.	U			
53494-70-5	Endrin ketone	21.	U	21.	U	21.	U			
58-89-9	gamma-BHC (Lindane)	3.4	U	6.2		3.4	U			
60-57-1	Dieldrin	1.7	U	1.8	U	1.7	U			
72-20-8	Endrin	5.2	U	5.3	U	5.2	U			
72-43-5	Methoxychlor	150.	U	160.	U	150.	U			
72-54-8	4,4'-DDD	9.5	U	9.7	U	9.4	U			
72-55-9	4,4'-DDE	3.4	U	3.5	U	3.4	U			
76-44-8	Heptachlor	2.6	U	2.6	U	2.6	U			
8001-35-2	Toxaphene	210.	U	210.	U	210.	U			
959-98-8	Endosulfan I	12.	U	12.	U	12.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 5 PHASE I SUBSURFACE SOIL DATA

RCRA METAL		SHORT ID --------->	5SB-1 (21-23')		5SB-2 (21-23')		5SB-3 (23-25')				
		ORIGINAL ID ----->	CED5SB1-2		CED5SB2-2		CED5SB32				
		SAMPLE DATE ----->	09/07/93		09/08/93		09/30/93				
		DATE ANALYZED --->	10/01/93		10/01/93		10/21/93				
		MATRIX ---------->	Soil		Soil		Soil				
		UNITS ----------->	MG/KG		MG/KG		MG/KG				
CAS #	Parameter		E006	VAL	E003	VAL	E014	VAL			
7440-38-2	Arsenic (As)		9.1		7.9		9.7				
7440-39-3	Barium (Ba)		147.		134.		141.				
7440-43-9	Cadmium (Cd)		0.38	U	0.38	U	0.4				
7440-47-3	Chromium (Cr)		11.2		10.4		10.2				
7439-92-1	Lead (Pb)		10.4		8.3		10.				
7439-97-6	Mercury (Hg)		0.12	U	0.11	U	0.13	U			
7782-49-2	Selenium (Se)		0.63	U	0.63	U	0.65	U			
7440-22-4	Silver (Ag)		0.38	U	0.38	U	0.39	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 5 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	5SB-1 (21-23')		5SB-2 (21-23')		5SB-3 (23-25')				
	ORIGINAL ID ----->	CED5SB12		CED5SB2-2		CED5SB32				
	SAMPLE DATE ----->	09/07/93		09/08/93		09/30/93				
	DATE ANALYZED --->	10/14/93		10/06/93		10/24/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E006	VAL	E003	VAL	E014	VAL			
100-01-6	4-Nitroaniline	4300.	U	1700.	U	4300.	U			
100-02-7	4-Nitrophenol	4300.	U	4300.	U	4300.	U			
100-51-6	Benzyl alcohol	860.	U	1700.	U	860.	U			
101-55-3	4-Bromophenyl-phenylether	860.	U	860.	U	860.	U			
105-67-9	2,4-Dimethylphenol	860.	U	860.	U	860.	U			
106-44-5	4-Methylphenol (p-Cresol)	860.	U	860.	U	860.	U			
106-46-7	1,4-Dichlorobenzene	860.	U	860.	U	860.	U			
106-47-8	4-Chloroaniline	860.	U	1700.	U	860.	U			
108-60-1	bis(2-chloroisopropyl) ether	860.	U	860.	U	860.	U			
108-95-2	Phenol	860.	U	860.	U	860.	U			
111-44-4	bis(2-Chloroethyl)ether	860.	U	860.	U	860.	U			
111-91-1	bis(2-Chloroethoxy)methane	860.	U	860.	U	860.	U			
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	860.	U	860.	U	860.	U			
117-84-0	Di-n-octylphthalate	860.	U	860.	U	860.	U			
118-74-1	Hexachlorobenzene	860.	U	860.	U	860.	U			
120-12-7	Anthracene	860.	U	860.	U	860.	U			
120-82-1	1,2,4-Trichlorobenzene	860.	U	860.	U	860.	U			
120-83-2	2,4-Dichlorophenol	860.	U	860.	U	860.	U			
121-14-2	2,4-Dinitrotoluene	860.	U	860.	U	860.	U			
129-00-0	Pyrene	860.	U	860.	U	860.	U			
131-11-3	Dimethylphthalate	860.	U	860.	U	860.	U			
132-64-9	Dibenzofuran	860.	U	860.	U	860.	U			
191-24-2	Benzo(g,h,i)perylene	860.	U	NR		860.	U			
193-39-5	Indeno(1,2,3-cd)pyrene	860.	U	860.	U	860.	U			
205-99-2	Benzo(b)fluoranthene	860.	U	860.	U	860.	U			
206-44-0	Fluoranthene	860.	U	860.	U	860.	U			
207-08-9	Benzo(k)fluoranthene	860.	U	860.	U	860.	U			
208-96-8	Acenaphthylene	860.	U	860.	U	860.	U			
218-01-9	Chrysene	860.	U	860.	U	860.	U			
50-32-8	Benzo(a)pyrene	860.	U	860.	U	860.	U			
51-28-5	2,4-Dinitrophenol	4300.	U	49000.		4300.	U			
534-52-1	4,6-Dinitro-2-methylphenol	4300.	U	4300.	U	4300.	U			
53-70-3	Dibenz(a,h)anthracene	860.	U	NR		860.	U			
541-73-1	1,3-Dichlorobenzene	860.	U	860.	U	860.	U			
56-55-3	Benzo(a)anthracene	860.	U	860.	U	860.	U			
59-50-7	4-Chloro-3-methylphenol	860.	U	1700.	U	860.	U			
606-20-2	2,6-Dinitrotoluene	860.	U	860.	U	860.	U			
621-64-7	N-Nitroso-di-n-propylamine	860.	U	860.	U	860.	U			
65-85-0	Benzoic acid	4300.	U	4300.	U	4300.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 5 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	5SB-1 (21-23')		5SB-2 (21-23')		5SB-3 (23-25')				
	ORIGINAL ID ----->	CED5SB12		CED5SB2-2		CED5SB32				
	SAMPLE DATE ----->	09/07/93		09/08/93		09/30/93				
	DATE ANALYZED --->	10/14/93		10/06/93		10/24/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E006	VAL	E003	VAL	E014	VAL			
67-72-1	Hexachloroethane	860.	U	860.	U	860.	U			
7005-72-3	4-Chlorophenyl-phenylether	860.	U	860.	U	860.	U			
709-98-8	Propanil	860.	U	860.	U	860.	U			
77-47-4	Hexachlorocyclopentadiene	860.	U	860.	U	860.	U			
78-59-1	Isophorone	860.	U	860.	U	860.	U			
83-32-9	Acenaphthene	860.	U	860.	U	860.	U			
84-66-2	Diethylphthalate	860.	U	860.	U	860.	U			
84-74-2	Di-n-butylphthalate	860.	U	860.	U	860.	U			
85-01-8	Phenanthrene	860.	U	860.	U	860.	U			
85-68-7	Butylbenzylphthalate	860.	U	860.	U	860.	U			
86-30-6	N-Nitrosodiphenylamine	860.	U	860.	U	860.	U			
86-73-7	Fluorene	860.	U	860.	U	860.	U			
87-68-3	Hexachlorobutadiene	860.	U	860.	U	860.	U			
87-86-5	Pentachlorophenol	4300.	U	4300.	U	4300.	U			
88-06-2	2,4,6-Trichlorophenol	860.	U	860.	U	860.	U			
88-74-4	2-Nitroaniline	4300.	U	4300.	U	4300.	U			
88-75-5	2-Nitrophenol	860.	U	860.	U	860.	U			
88-85-7	Dinoseb	4300.	U	57000.		4300.	U			
91-20-3	Naphthalene	860.	U	860.	U	860.	U			
91-57-6	2-Methylnaphthalene	860.	U	860.	U	860.	U			
91-58-7	2-Chloronaphthalene	860.	U	860.	U	860.	U			
91-94-1	3,3'-Dichlorobenzidine	1700.	U	1700.	U	1700.	U			
95-48-7	2-Methylphenol (o-Cresol)	860.	U	860.	U	860.	U			
95-50-1	1,2-Dichlorobenzene	860.	U	860.	U	860.	U			
95-57-8	2-Chlorophenol	860.	U	860.	U	860.	U			
95-76-1	3,4-Dichloroaniline	1200.		860.	U	860.	U			
95-95-4	2,4,5-Trichlorophenol	4300.	U	860.	U	4300.	U			
98-95-3	Nitrobenzene	860.	U	860.	U	860.	U			
99-09-2	3-Nitroaniline	4300.	U	4300.	U	4300.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 5 PHASE I SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	5SB-1 (21-23')		5SB-2 (21-23')		5SB-3 (23-25')				
	ORIGINAL ID ----->	CED5SB1-2		CED5SB2-2		CED5SB32				
	SAMPLE DATE ----->	09/07/93		09/08/93		09/30/93				
	DATE ANALYZED --->	09/15/93		09/22/93		10/08/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E006	VAL	E003	VAL	E014	VAL			
100-41-4	Ethylbenzene	6.	U	820.	U	7.	U			
100-42-5	Styrene	6.	U	820.	U	7.	U			
10061-01-5	cis-1,3-Dichloropropene	6.	U	820.	U	7.	U			
10061-02-6	trans-1,3-Dichloropropene	6.	U	820.	U	7.	U			
107-06-2	1,2-Dichloroethane	6.	U	820.	U	4.				
108-05-4	Vinyl acetate	6.	U	820.	U	7.	U			
108-10-1	4-Methyl-2-Pentanone (MIBK)	61.	U	8200.	U	170.				
108-88-3	Toluene	6.	U	300.		6.				
108-90-7	Chlorobenzene	6.	U	820.	U	7.	U			
124-48-1	Dibromochloromethane	6.	U	820.	U	7.	U			
127-18-4	Tetrachloroethene	6.	U	820.	U	7.	U			
1330-20-7	Xylene (total)	20.		820.	U	6.				
540-59-0	1,2-Dichloroethene (total)	6.	U	820.	U	7.	U			
56-23-5	Carbon tetrachloride	6.	U	820.	U	7.	U			
591-78-6	2-Hexanone	61.	U	8200.	U	69.	U			
67-64-1	Acetone	12.	U	3900.		21000.				
67-66-3	Chloroform	6.	U	820.	U	4.				
71-43-2	Benzene	6.	U	820.	U	7.	U			
71-55-6	1,1,1-Trichloroethane	6.	U	820.	U	7.	U			
74-83-9	Bromomethane	12.	U	1600.	U	14.	U			
74-87-3	Chloromethane	12.	U	1600.	U	14.	U			
75-00-3	Chloroethane	12.	U	1600.	U	14.	U			
75-01-4	Vinyl chloride	6.	U	820.	U	7.	U			
75-09-2	Methylene chloride	140.		820.	U	33.				
75-15-0	Carbon disulfide	6.	U	820.	U	7.	U			
75-25-2	Bromoform	6.	U	820.	U	7.	U			
75-27-4	Bromodichloromethane	6.	U	820.	U	7.	U			
75-34-3	1,1-Dichloroethane	6.	U	820.	U	7.	U			
75-35-4	1,1-Dichloroethene	6.	U	820.	U	7.	U			
78-87-5	1,2-Dichloropropane	6.	U	820.	U	7.	U			
78-93-3	2-Butanone (MEK)	12.	U	44000.		120.				
79-00-5	1,1,2-Trichloroethane	6.	U	820.	U	7.	U			
79-01-6	Trichloroethene	6.	U	820.	U	7.	U			
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	820.	U	7.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

PEST	SHORT ID --------->	6SB-A (0-5')		6SB-A (5-10')		6SB-C (0-5')		6SB-C (5-10')		6SB-D (0-5')		6SB-D (5-10')	
	ORIGINAL ID ----->	CED6SBA1		CED6SBA2		CED6SBC1		CED6SBC2		CED6SBD1		CED6SBD2	
	SAMPLE DATE ----->	09/27/93		09/27/93		09/29/93		09/29/93		09/29/93		09/29/93	
	DATE ANALYZED --->	10/16/93		10/14/93		10/16/93		10/16/93		10/16/93		10/16/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E014	VAL	E013	VAL	E014	VAL	E014	VAL	E014	VAL	E014	VAL
1024-57-3	Heptachlor Epoxide	67.	U	69.	U	68.	U	67.	U	69.	U	70.	U
1031-07-8	Endosulfan Sulfate	53.	U	55.	U	54.	U	54.	U	54.	U	56.	U
309-00-2	Aldrin	4.3		3.3	U	3.3	U	3.3	U	3.3	U	3.4	U
319-84-6	Alpha-BHC	2.4	U	2.5	U	2.7		2.4	U	2.5	U	2.5	U
319-85-7	Beta-BHC	7.		5.	U	4.9	U	4.9	U	5.	U	5.	U
319-86-8	Delta-BHC	7.2	U	7.5	U	7.3	U	7.3	U	7.4	U	7.6	U
33213-65-9	Endosulfan II	3.2	U	3.3	U	3.3	U	3.3	U	3.3	U	3.4	U
50-29-3	4,4'-DDT	58.		10.	U	9.8	U	9.8	U	9.9	U	10.	U
5103-71-9	alpha-Chlordane	11.	U	12.	U	11.	U	11.	U	12.	U	12.	U
5103-74-2	gamma-Chlordane	11.	U	12.	U	11.	U	11.	U	12.	U	12.	U
53494-70-5	Endrin ketone	19.	U	20.	U	20.	U	20.	U	20.	U	20.	U
58-89-9	gamma-BHC (Lindane)	3.2	U	3.3	U	3.2	U	3.3	U	3.3	U	3.4	U
60-57-1	Dieldrin	30.		5.5		1.6	U	1.6	U	1.7	U	1.7	U
72-20-8	Endrin	4.8	U	5.	U	4.9	U	4.9	U	5.	U	5.	U
72-43-5	Methoxychlor	140.	U	150.	U	150.	U	150.	U	150.	U	150.	U
72-54-8	4,4'-DDD	8.9	U	9.2	U	9.	U	9.	U	9.1	U	9.3	U
72-55-9	4,4'-DDE	26.		3.3	U	3.3	U	3.3	U	3.3	U	3.4	U
76-44-8	Heptachlor	2.4	U	2.5	U	2.4	U	2.4	U	2.5	U	2.5	U
8001-35-2	Toxaphene	190.	U	200.	U	200.	U	200.	U	200.	U	200.	U
959-98-8	Endosulfan I	11.	U	12.	U	11.	U	11.	U	12.	U	12.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

PEST	SHORT ID --------->	6SB-E (0-5')		6SB-E (5-10')		6SB-F (0-5')		6SB-F (5-10')		6SB-G (0-5')		6SB-G (0-5')DUP	
	ORIGINAL ID ----->	CED6SBE1		CED6SBE2		CED6SBF1		CED6SBF2		CED6SBG1		CED6SBG1	
	SAMPLE DATE ----->	09/27/93		09/27/93		09/27/93		09/27/93		09/29/93		09/29/93	
	DATE ANALYZED --->	10/16/93		10/26/93		10/15/93		10/17/93		10/27/93		10/16/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E014	VAL	E014	VAL	E013	VAL	E013	VAL	E014	VAL	E014	VAL
1024-57-3	Heptachlor Epoxide	130.	U	670.	U	68.	U	70.	U	260.	U	520.	U
1031-07-8	Endosulfan Sulfate	110.	U	530.	U	54.	U	56.	U	210.	U	420.	U
309-00-2	Aldrin	18.		32.	U	3.3	U	3.4	U	13.	U	25.	U
319-84-6	Alpha-BHC	4.8	U	24.	U	2.4	U	8.8	U	9.4	U	19.	U
319-85-7	Beta-BHC	9.6	U	48.	U	4.9	U	51.	U	19.	U	38.	U
319-86-8	Delta-BHC	14.	U	73.	U	7.3	U	7.6	U	28.	U	57.	U
33213-65-9	Endosulfan II	6.4	U	32.	U	3.3	U	3.4	U	13.	U	25.	U
50-29-3	4,4'-DDT	21.		97.	U	10.	U	10.	U	38.	U	76.	U
5103-71-9	alpha-Chlordane	23.	U	110.	U	11.	U	12.	U	44.	U	89.	U
5103-74-2	gamma-Chlordane	23.	U	110.	U	11.	U	12.	U	44.	U	89.	U
53494-70-5	Endrin ketone	39.	U	190.	U	20.	U	20.	U	76.	U	150.	U
58-89-9	gamma-BHC (Lindane)	6.4	U	32.	U	3.3	U	3.8	U	13.	U	25.	U
60-57-1	Dieldrin	8.6		16.	U	1.6	U	1.7	U	6.2	U	13.	U
72-20-8	Endrin	9.6	U	48.	U	4.9	U	5.1	U	19.	U	38.	U
72-43-5	Methoxychlor	510.		3400.		150.	U	150.	U	930.		2600.	
72-54-8	4,4'-DDD	28.		89.	U	9.	U	9.3	U	35.	U	70.	U
72-55-9	4,4'-DDE	8.6		32.	U	9.8		3.4	U	13.	U	25.	U
76-44-8	Heptachlor	4.8	U	24.	U	2.4	U	2.5	U	9.4	U	19.	U
8001-35-2	Toxaphene	390.	U	1900.	U	200.	U	200.	U	750.	U	1500.	U
959-98-8	Endosulfan I	23.	U	110.	U	11.	U	12.	U	44.	U	89.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

PEST	SHORT ID --------->	6SB-G (5-10')		6SB-H (0-5')		6SB-H (5-10')		6SB-J (5-10')		6SB-J (10-15')		6SB-K (0-5')	
	ORIGINAL ID ----->	CED6SBG2		CED6SBH1		CED6SBH2		CED6SBJ2		CED6SBJ3		CED6SBK1	
	SAMPLE DATE ----->	09/29/93		09/30/93		09/30/93		09/27/93		09/27/93		09/29/93	
	DATE ANALYZED --->	10/16/93		10/26/93		10/26/93		10/15/93		10/16/93		10/22/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E014	VAL	E014	VAL	E014	VAL	E013	VAL	E013	VAL	E014	VAL
1024-57-3	Heptachlor Epoxide	67.	U	320.	U	270.	U	69.	U	71.	U	2000.	U
1031-07-8	Endosulfan Sulfate	54.	U	250.	U	210.	U	55.	U	56.	U	1600.	U
309-00-2	Aldrin	3.3	U	15.	U	13.	U	3.3	U	3.4	U	98.	U
319-84-6	Alpha-BHC	3.6		12.	U	9.7	U	2.9		2.6	U	74.	U
319-85-7	Beta-BHC	4.9	U	23.	U	19.	U	5.	U	5.1	U	150.	U
319-86-8	Delta-BHC	7.3	U	35.	U	29.	U	7.5	U	7.7	U	220.	U
33213-65-9	Endosulfan II	3.3	U	15.	U	13.	U	3.3	U	3.4	U	98.	U
50-29-3	4,4'-DDT	9.8	U	200.		190.		10.	U	10.	U	290.	U
5103-71-9	alpha-Chlordane	11.	U	54.	U	45.	U	12.	U	12.	U	340.	U
5103-74-2	gamma-Chlordane	11.	U	54.	U	45.	U	12.	U	12.	U	340.	U
53494-70-5	Endrin ketone	20.	U	92.	U	77.	U	20.	U	20.	U	590.	U
58-89-9	gamma-BHC (Lindane)	3.3	U	15.	U	13.	U	3.3	U	3.4	U	98.	U
60-57-1	Dieldrin	1.6	U	7.7	U	6.4	U	1.7	U	1.7	U	49.	U
72-20-8	Endrin	4.9	U	23.	U	19.	U	5.	U	5.1	U	150.	U
72-43-5	Methoxychlor	150.	U	690.	U	580.	U	150.	U	150.	U	98000.	
72-54-8	4,4'-DDD	8.9	U	42.	U	35.	U	16.		9.4	U	270.	U
72-55-9	4,4'-DDE	3.3	U	48.		46.		4.4		3.4	U	98.	U
76-44-8	Heptachlor	2.4	U	12.	U	9.7	U	2.5	U	2.6	U	74.	U
8001-35-2	Toxaphene	200.	U	920.	U	770.	U	200.	U	200.	U	5900.	U
959-98-8	Endosulfan I	11.	U	54.	U	45.	U	12.	U	12.	U	340.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

PEST	SHORT ID --------->	6SB-K (5-10')		6SB-L (0-5')		6SB-L (5-10')				
	ORIGINAL ID ----->	CED6SBK2		CED6SBL1		CED6SBL2				
	SAMPLE DATE ----->	09/29/93		09/30/93		09/30/93				
	DATE ANALYZED --->	10/22/93		10/21/93		10/21/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E014	VAL	E014	VAL	E014	VAL			
1024-57-3	Heptachlor Epoxide	700.	U	63.	U	70.	U			
1031-07-8	Endosulfan Sulfate	560.	U	50.	U	56.	U			
309-00-2	Aldrin	240.		3.	U	3.4	U			
319-84-6	Alpha-BHC	25.	U	2.3	U	2.5	U			
319-85-7	Beta-BHC	51.	U	4.6	U	5.	U			
319-86-8	Delta-BHC	76.	U	6.9	U	7.6	U			
33213-65-9	Endosulfan II	34.	U	3.	U	3.4	U			
50-29-3	4,4'-DDT	100.	U	9.1	U	36.				
5103-71-9	alpha-Chlordane	120.	U	11.	U	12.	U			
5103-74-2	gamma-Chlordane	120.	U	11.	U	12.	U			
53494-70-5	Endrin ketone	202.	U	18.	U	20.	U			
58-89-9	gamma-BHC (Lindane)	34.	U	3.	U	3.4	U			
60-57-1	Dieldrin	17.	U	1.5	U	1.7	U			
72-20-8	Endrin	51.	U	4.6	U	5.	U			
72-43-5	Methoxychlor	1500.	U	140.	U	150.	U			
72-54-8	4,4'-DDD	93.	U	8.4	U	28.				
72-55-9	4,4'-DDE	34.	U	3.	U	23.				
76-44-8	Heptachlor	25.	U	2.3	U	2.5	U			
8001-35-2	Toxaphene	2000.	U	180.	U	200.	U			
959-98-8	Endosulfan I	120.	U	11.	U	12.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

RCRA METAL	SHORT ID --------->	6SB-A (0-5')		6SB-A (5-10')		6SB-C (0-5')		6SB-C (5-10')		6SB-D (0-5')		6SB-D (5-10')	
	ORIGINAL ID ----->	CED6SBA1		CED6SBA2		CED6SBC1		CED6SBC2		CED6SBD1		CED6SBD2	
	SAMPLE DATE ----->	09/27/93		09/27/93		09/29/93		09/29/93		09/29/93		09/29/93	
	DATE ANALYZED --->	10/21/93		10/15/93		10/21/93		10/21/93		10/21/93		10/21/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	E014	VAL	E013	VAL	E014	VAL	E014	VAL	E014	VAL	E014	VAL
7440-38-2	Arsenic (As)	7.4		10.3		6.3		9.6		6.8		6.8	
7440-39-3	Barium (Ba)	251.		398.		93.2		187.		123.		144.	
7440-43-9	Cadmium (Cd)	0.24	U	0.25	U	0.24	U	0.26		0.25	U	0.25	U
7440-47-3	Chromium (Cr)	14.5		9.5		11.		10.1		13.7		8.6	
7439-92-1	Lead (Pb)	13.8		13.1		9.2		11.		10.9		8.7	
7439-97-6	Mercury (Hg)	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
7782-49-2	Selenium (Se)	0.59	U	0.62	U	0.6	U	0.59	U	0.62	U	0.63	U
7440-22-4	Silver (Ag)	0.36	U	0.37	U	0.36	U	0.36	U	0.37	U	0.38	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

RCRA METAL		SHORT ID --------->	6SB-E (0-5')		6SB-E (5-10')		6SB-F (0-5')		6SB-F (5-10')		6SB-G (0-5')		6SB-G (0-5')DUP	
		ORIGINAL ID ----->	CED6SBE1		CED6SBE2		CED6SBF1		CED6SBF2		CED6SBG1		CED6SBG1DUP	
		SAMPLE DATE ----->	09/27/93		09/27/93		09/27/93		09/27/93		09/29/93		09/29/93	
		DATE ANALYZED --->	10/21/93		10/21/93		10/15/93		10/15/93		10/21/93		10/21/93	
		MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
		UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter		E014	VAL	E014	VAL	E013	VAL	E013	VAL	E014	VAL	E014	VAL
7440-38-2	Arsenic (As)		8.9		8.		6.5		6.1		6.5		7.1	
7440-39-3	Barium (Ba)		126.		134.		164.		152.		101.		113.	
7440-43-9	Cadmium (Cd)		0.24	U	0.24	U	0.23	U	0.25	U	0.24	U	0.24	U
7440-47-3	Chromium (Cr)		9.9		12.3		9.3		13.4		10.7		10.8	
7439-92-1	Lead (Pb)		10.1		10.9		12.		10.8		10.4		10.6	
7439-97-6	Mercury (Hg)		0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
7782-49-2	Selenium (Se)		0.6	U	0.59	U	0.58	U	0.61	U	0.59	U	0.59	U
7440-22-4	Silver (Ag)		0.36	U	0.35	U	0.35	U	0.37	U	0.35	U	0.36	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

RCRA METAL	SHORT ID --------->	6SB-G (5-10')		6SB-H (0-5')		6SB-H (5-10')		6SB-J (5-10')		6SB-J (10-15')		6SB-K (0-5')	
	ORIGINAL ID ----->	CED6SBG2		CED6SBH1		CED6SBH2		CED6SBJ2		CED6SBJ3		CED6SBK1	
	SAMPLE DATE ----->	09/29/93		09/30/93		09/30/93		09/27/93		09/27/93		09/29/93	
	DATE ANALYZED --->	10/21/93		10/21/93		10/21/93		10/15/93		10/15/93		10/21/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG	
CAS #	Parameter	E014	VAL	E014	VAL	E014	VAL	E013	VAL	E013	VAL	E014	VAL
7440-38-2	Arsenic (As)	7.1		5.4		6.2		7.9		7.4		9.	
7440-39-3	Barium (Ba)	103.		103.		86.4		127.		150.		115.	
7440-43-9	Cadmium (Cd)	0.24	U	0.23	U	0.24	U	0.24	U	0.25	U	0.29	
7440-47-3	Chromium (Cr)	12.6		8.9		14.4		12.1		10.1		11.3	
7439-92-1	Lead (Pb)	11.5		8.8		10.6		12.9		11.9		11.7	
7439-97-6	Mercury (Hg)	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
7782-49-2	Selenium (Se)	0.6	U	0.58	U	0.61	U	0.61	U	0.63	U	0.61	U
7440-22-4	Silver (Ag)	0.36	U	0.35	U	0.36	U	0.36	U	0.38	U	0.36	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

RCRA METAL											
	SHORT ID --------->	6SB-K (5-10')		6SB-L (0-5')		6SB-L (5-10')					
	ORIGINAL ID ----->	CED6SBK2		CED6SBL1		CED6SBL2					
	SAMPLE DATE ----->	09/29/93		09/30/93		09/30/93					
	DATE ANALYZED --->	10/21/93		10/21/93		10/21/93					
	MATRIX ---------->	Soil		Soil		Soil					
	UNITS ----------->	MG/KG		MG/KG		MG/KG					
CAS #	Parameter	E014	VAL	E014	VAL	E014	VAL				
7440-38-2	Arsenic (As)	8.5		5.8		6.3					
7440-39-3	Barium (Ba)	108.		111.		78.9					
7440-43-9	Cadmium (Cd)	0.25	U	0.23	U	0.25	U				
7440-47-3	Chromium (Cr)	11.9		10.3		14.7					
7439-92-1	Lead (Pb)	12.9		7.4		11.4					
7439-97-6	Mercury (Hg)	0.12	U	0.11	U	0.13	U				
7782-49-2	Selenium (Se)	0.64	U	0.57	U	0.63	U				
7440-22-4	Silver (Ag)	0.38	U	0.34	U	0.38	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	6SB-A (0-5')		6SB-A (5-10')		6SB-C (0-5')		6SB-C (5-10')		6SB-D (0-5')		6SB-D (5-10')	
	ORIGINAL ID ----->	CED6SBA1		CED6SBA2		CED6SBC1		CED6SBC2		CED6SBD1		CED6SBD2	
	SAMPLE DATE ----->	09/27/93		09/27/93		09/29/93		09/29/93		09/29/93		09/29/93	
	DATE ANALYZED --->	10/23/93		10/19/93		10/23/93		10/22/93		10/22/93		10/22/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E014	VAL	E013	VAL	E014	VAL	E014	VAL	E014	VAL	E014	VAL
100-01-6	4-Nitroaniline	4000.	U	1000.	U	4100.	U	4100.	U	4100.	U	4200.	U
100-02-7	4-Nitrophenol	4000.	U	1000.	U	4100.	U	4100.	U	4100.	U	4200.	U
100-51-6	Benzyl alcohol	810.	U	NR		820.	U	810.	U	830.	U	840.	U
101-55-3	4-Bromophenyl-phenylether	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
105-67-9	2,4-Dimethylphenol	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
106-44-5	4-Methylphenol (p-Cresol)	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
106-46-7	1,4-Dichlorobenzene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
106-47-8	4-Chloroaniline	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
108-60-1	bis(2-chloroisopropyl) ether	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
108-95-2	Phenol	810.	U	410.	U	820.	U	810.	U	830.	U	6900.	
111-44-4	bis(2-Chloroethyl)ether	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
111-91-1	bis(2-Chloroethoxy)methane	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	810.	U	410.	U	820.	U	90.		110.		104.	
117-84-0	Di-n-octylphthalate	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
118-74-1	Hexachlorobenzene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
120-12-7	Anthracene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
120-82-1	1,2,4-Trichlorobenzene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
120-83-2	2,4-Dichlorophenol	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
121-14-2	2,4-Dinitrotoluene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
129-00-0	Pyrene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
131-11-3	Dimethylphthalate	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
132-64-9	Dibenzofuran	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
191-24-2	Benzo(g,h,i)perylene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
193-39-5	Indeno(1,2,3-cd)pyrene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
205-99-2	Benzo(b)fluoranthene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
206-44-0	Fluoranthene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
207-08-9	Benzo(k)fluoranthene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
208-96-8	Acenaphthylene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
218-01-9	Chrysene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
50-32-8	Benzo(a)pyrene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
51-28-5	2,4-Dinitrophenol	4000.	U	1000.	U	4100.	U	4100.	U	4100.	U	4200.	U
534-52-1	4,6-Dinitro-2-methylphenol	4000.	U	1000.	U	4100.	U	4100.	U	4100.	U	4200.	U
53-70-3	Dibenz(a,h)anthracene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
541-73-1	1,3-Dichlorobenzene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
56-55-3	Benzo(a)anthracene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
59-50-7	4-Chloro-3-methylphenol	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
606-20-2	2,6-Dinitrotoluene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
621-64-7	N-Nitroso-di-n-propylamine	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
65-85-0	Benzoic acid	4000.	U	NR		4100.	U	4100.	U	4100.	U	4200.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	6SB-A (0-5')		6SB-A (5-10')		6SB-C (0-5')		6SB-C (5-10')		6SB-D (0-5')		6SB-D (5-10')	
	ORIGINAL ID ----->	CED6SBA1		CED6SBA2		CED6SBC1		CED6SBC2		CED6SBD1		CED6SBD2	
	SAMPLE DATE ----->	09/27/93		09/27/93		09/29/93		09/29/93		09/29/93		09/29/93	
	DATE ANALYZED --->	10/23/93		10/19/93		10/23/93		10/22/93		10/22/93		10/22/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E014	VAL	E013	VAL	E014	VAL	E014	VAL	E014	VAL	E014	VAL
67-72-1	Hexachloroethane	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
7005-72-3	4-Chlorophenyl-phenylether	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
709-98-8	Propanil	810.	U	1000.	U	700.		810.	U	830.	U	910.	
77-47-4	Hexachlorocyclopentadiene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
78-59-1	Isophorone	810.	U	410.	U	820.	U	810.	U	830.	U	4500.	
83-32-9	Acenaphthene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
84-66-2	Diethylphthalate	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
84-74-2	Di-n-butylphthalate	810.	U	98.		820.	U	810.	U	830.	U	840.	U
85-01-8	Phenanthrene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
85-68-7	Butylbenzylphthalate	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
86-30-6	N-Nitrosodiphenylamine	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
86-73-7	Fluorene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
87-68-3	Hexachlorobutadiene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
87-86-5	Pentachlorophenol	4000.	U	1000.	U	4100.	U	4100.	U	4100.	U	4200.	U
88-06-2	2,4,6-Trichlorophenol	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
88-74-4	2-Nitroaniline	4000.	U	1000.	U	4100.	U	4100.	U	4100.	U	4200.	U
88-75-5	2-Nitrophenol	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
88-85-7	Dinoseb	9500.		430.		14000.		4100.	U	6100.		4200.	U
91-20-3	Naphthalene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
91-57-6	2-Methylnaphthalene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
91-58-7	2-Chloronaphthalene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
91-94-1	3,3'-Dichlorobenzidine	1600.	U	410.	U	1600.	U	1600.	U	1700.	U	1700.	U
95-48-7	2-Methylphenol (o-Cresol)	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
95-50-1	1,2-Dichlorobenzene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
95-57-8	2-Chlorophenol	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
95-76-1	3,4-Dichloroaniline	810.	U	1000.	U	230.		810.	U	830.	U	610.	
95-95-4	2,4,5-Trichlorophenol	4000.	U	1000.	U	4100.	U	4100.	U	4100.	U	4200.	U
98-95-3	Nitrobenzene	810.	U	410.	U	820.	U	810.	U	830.	U	840.	U
99-09-2	3-Nitroaniline	4000.	U	1000.	U	4100.	U	4100.	U	4100.	U	4200.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	6SB-E (0-5')		6SB-E (5-10')		6SB-F (0-5')		6SB-F (5-10')		6SB-G (0-5')		6SB-G (5-10')	
	ORIGINAL ID ----->	CED6SBE1		CED6SBE2		CED6SBF1		CED6SBF2		CED6SBG1		CED6SBG2	
	SAMPLE DATE ----->	09/27/93		09/27/93		09/27/93		09/27/93		09/29/93		09/29/93	
	DATE ANALYZED --->	10/22/93		10/23/93		10/20/93		10/19/93		10/24/93		10/23/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E014	VAL	E014	VAL	E013	VAL	E013	VAL	E014	VAL	E014	VAL
100-01-6	4-Nitroaniline	4000.	U	4000.	U	20000.	U	10000.	U	3900.	U	4100.	U
100-02-7	4-Nitrophenol	4000.	U	4000.	U	8100.		10000.	U	3900.	U	4100.	U
100-51-6	Benzyl alcohol	810.	U	810.	U	NR		NR		780.	U	810.	U
101-55-3	4-Bromophenyl-phenylether	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
105-67-9	2,4-Dimethylphenol	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
106-44-5	4-Methylphenol (p-Cresol)	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
106-46-7	1,4-Dichlorobenzene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
106-47-8	4-Chloroaniline	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
108-60-1	bis(2-chloroisopropyl) ether	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
108-95-2	Phenol	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
111-44-4	bis(2-Chloroethyl)ether	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
111-91-1	bis(2-Chloroethoxy)methane	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
117-84-0	Di-n-octylphthalate	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
118-74-1	Hexachlorobenzene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
120-12-7	Anthracene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
120-82-1	1,2,4-Trichlorobenzene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
120-83-2	2,4-Dichlorophenol	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
121-14-2	2,4-Dinitrotoluene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
129-00-0	Pyrene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
131-11-3	Dimethylphthalate	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
132-64-9	Dibenzofuran	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
191-24-2	Benzo(g,h,i)perylene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
193-39-5	Indeno(1,2,3-cd)pyrene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
205-99-2	Benzo(b)fluoranthene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
206-44-0	Fluoranthene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
207-08-9	Benzo(k)fluoranthene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
208-96-8	Acenaphthylene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
218-01-9	Chrysene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
50-32-8	Benzo(a)pyrene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
51-28-5	2,4-Dinitrophenol	4000.	U	4000.	U	20000.	U	10000.	U	3900.	U	4100.	U
534-52-1	4,6-Dinitro-2-methylphenol	4000.	U	4000.	U	20000.	U	10000.	U	3900.	U	4100.	U
53-70-3	Dibenz(a,h)anthracene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
541-73-1	1,3-Dichlorobenzene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
56-55-3	Benzo(a)anthracene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
59-50-7	4-Chloro-3-methylphenol	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
606-20-2	2,6-Dinitrotoluene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
621-64-7	N-Nitroso-di-n-propylamine	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
65-85-0	Benzoic acid	4000.	U	4000.	U	NR		NR		3900.	U	4100.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	6SB-E (0-5')		6SB-E (5-10')		6SB-F (0-5')		6SB-F (5-10')		6SB-G (0-5')		6SB-G (5-10')	
	ORIGINAL ID ----->	CED6SBE1		CED6SBE2		CED6SBF1		CED6SBF2		CED6SBG1		CED6SBG2	
	SAMPLE DATE ----->	09/27/93		09/27/93		09/27/93		09/27/93		09/29/93		09/29/93	
	DATE ANALYZED --->	10/22/93		10/23/93		10/20/93		10/19/93		10/24/93		10/23/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E014	VAL	E014	VAL	E013	VAL	E013	VAL	E014	VAL	E014	VAL
67-72-1	Hexachloroethane	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
7005-72-3	4-Chlorophenyl-phenylether	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
709-98-8	Propanil	810.	U	103.		1300.		18000.		780.	U	810.	U
77-47-4	Hexachlorocyclopentadiene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
78-59-1	Isophorone	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
83-32-9	Acenaphthene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
84-66-2	Diethylphthalate	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
84-74-2	Di-n-butylphthalate	810.	U	810.	U	8000.	U	4200.	U	200.		170.	
85-01-8	Phenanthrene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
85-68-7	Butylbenzylphthalate	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
86-30-6	N-Nitrosodiphenylamine	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
86-73-7	Fluorene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
87-68-3	Hexachlorobutadiene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
87-86-5	Pentachlorophenol	4000.	U	4000.	U	20000.	U	10000.	U	3900.	U	4100.	U
88-06-2	2,4,6-Trichlorophenol	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
88-74-4	2-Nitroaniline	4000.	U	4000.	U	20000.	U	10000.	U	3900.	U	4100.	U
88-75-5	2-Nitrophenol	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
88-85-7	Dinoseb	4000.	U	10000.		16000.		21000.		45000.		5300.	
91-20-3	Naphthalene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
91-57-6	2-Methylnaphthalene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
91-58-7	2-Chloronaphthalene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
91-94-1	3,3'-Dichlorobenzidine	1600.	U	1600.	U	8000.	U	4200.	U	1600.	U	1600.	U
95-48-7	2-Methylphenol (o-Cresol)	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
95-50-1	1,2-Dichlorobenzene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
95-57-8	2-Chlorophenol	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
95-76-1	3,4-Dichloroaniline	84.		810.	U	20000.	U	4900.		1600.		810.	U
95-95-4	2,4,5-Trichlorophenol	4000.	U	4000.	U	8000.	U	10000.	U	3900.	U	4100.	U
98-95-3	Nitrobenzene	810.	U	810.	U	8000.	U	4200.	U	780.	U	810.	U
99-09-2	3-Nitroaniline	4000.	U	4000.	U	20000.	U	10000.	U	3900.	U	4100.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	6SB-H (0-5')		6SB-H (5-10')		6SB-J (5-10')		6SB-J (10-15')		6SB-K (0-5')		6SB-K (5-10')	
	ORIGINAL ID ----->	CED6SBH1		CED6SBH2		CED6SBJ2		CED6SBJ3		CED6SBK1		CED6SBK2	
	SAMPLE DATE ----->	09/30/93		09/30/93		09/27/93		09/27/93		09/29/93		09/29/93	
	DATE ANALYZED --->	10/23/93		10/23/93		10/19/93		10/19/93		10/23/93		10/23/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E014	VAL	E014	VAL	E013	VAL	E013	VAL	E014	VAL	E014	VAL
100-01-6	4-Nitroaniline	3800.	U	4000.	U	5000.	U	1000.	U	4100.	U	4200.	U
100-02-7	4-Nitrophenol	3800.	U	4000.	U	5000.	U	1000.	U	4100.	U	4200.	U
100-51-6	Benzyl alcohol	770.	U	810.	U	NR		NR		820.	U	840.	U
101-55-3	4-Bromophenyl-phenylether	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
105-67-9	2,4-Dimethylphenol	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
106-44-5	4-Methylphenol (p-Cresol)	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
106-46-7	1,4-Dichlorobenzene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
106-47-8	4-Chloroaniline	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
108-60-1	bis(2-chloroisopropyl) ether	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
108-95-2	Phenol	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
111-44-4	bis(2-Chloroethyl)ether	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
111-91-1	bis(2-Chloroethoxy)methane	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
117-84-0	Di-n-octylphthalate	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
118-74-1	Hexachlorobenzene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
120-12-7	Anthracene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
120-82-1	1,2,4-Trichlorobenzene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
120-83-2	2,4-Dichlorophenol	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
121-14-2	2,4-Dinitrotoluene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
129-00-0	Pyrene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
131-11-3	Dimethylphthalate	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
132-64-9	Dibenzofuran	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
191-24-2	Benzo(g,h,i)perylene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
193-39-5	Indeno(1,2,3-cd)pyrene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
205-99-2	Benzo(b)fluoranthene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
206-44-0	Fluoranthene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
207-08-9	Benzo(k)fluoranthene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
208-96-8	Acenaphthylene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
218-01-9	Chrysene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
50-32-8	Benzo(a)pyrene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
51-28-5	2,4-Dinitrophenol	3800.	U	4000.	U	5000.	U	1000.	U	4100.	U	4200.	U
534-52-1	4,6-Dinitro-2-methylphenol	3800.	U	4000.	U	5000.	U	1000.	U	4200.	U	4200.	U
53-70-3	Dibenz(a,h)anthracene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
541-73-1	1,3-Dichlorobenzene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
56-55-3	Benzo(a)anthracene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
59-50-7	4-Chloro-3-methylphenol	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
606-20-2	2,6-Dinitrotoluene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
621-64-7	N-Nitroso-di-n-propylamine	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
65-85-0	Benzoic acid	3800.	U	4000.	U	NR		NR		4100.	U	4200.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	6SB-H (0-5')		6SB-H (5-10')		6SB-J (5-10')		6SB-J (10-15')		6SB-K (0-5')		6SB-K (5-10')	
	ORIGINAL ID ----->	CED6SBH1		CED6SBH2		CED6SBJ2		CED6SBJ3		CED6SBK1		CED6SBK2	
	SAMPLE DATE ----->	09/30/93		09/30/93		09/27/93		09/27/93		09/29/93		09/29/93	
	DATE ANALYZED --->	10/23/93		10/23/93		10/19/93		10/19/93		10/23/93		10/23/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E014	VAL	E014	VAL	E013	VAL	E013	VAL	E014	VAL	E014	VAL
67-72-1	Hexachloroethane	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
7005-72-3	4-Chlorophenyl-phenylether	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
709-98-8	Propanil	770.	U	810.	U	5000.	U	1000.	U	820.	U	840.	U
77-47-4	Hexachlorocyclopentadiene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
78-59-1	Isophorone	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
83-32-9	Acenaphthene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
84-66-2	Diethylphthalate	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
84-74-2	Di-n-butylphthalate	102.		810.	U	2100.	U	150.		820.	U	200.	
85-01-8	Phenanthrene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
85-68-7	Butylbenzylphthalate	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
86-30-6	N-Nitrosodiphenylamine	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
86-73-7	Fluorene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
87-68-3	Hexachlorobutadiene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
87-86-5	Pentachlorophenol	3800.	U	4000.	U	5000.	U	1000.	U	4100.	U	4200.	U
88-06-2	2,4,6-Trichlorophenol	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
88-74-4	2-Nitroaniline	3800.	U	4000.	U	5000.	U	1000.	U	4100.	U	4200.	U
88-75-5	2-Nitrophenol	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
88-85-7	Dinoseb	7700.		10200.		1000.		1000.	U	4100.		1060.	
91-20-3	Naphthalene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
91-57-6	2-Methylnaphthalene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
91-58-7	2-Chloronaphthalene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
91-94-1	3,3'-Dichlorobenzidine	1500.	U	1600.	U	2100.	U	420.	U	1600.	U	1700.	U
95-48-7	2-Methylphenol (o-Cresol)	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
95-50-1	1,2-Dichlorobenzene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
95-57-8	2-Chlorophenol	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
95-76-1	3,4-Dichloroaniline	770.	U	810.	U	2100.	U	1000.	U	820.	U	840.	U
95-95-4	2,4,5-Trichlorophenol	3800.	U	4000.	U	5000.	U	1000.	U	4100.	U	4200.	U
98-95-3	Nitrobenzene	770.	U	810.	U	2100.	U	420.	U	820.	U	840.	U
99-09-2	3-Nitroaniline	3800.	U	4000.	U	5000.	U	1000.	U	4100.	U	4200.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	6SB-L (0-5')		6SB-L (5-10')					
	ORIGINAL ID ----->	CED6SBL1		CED6SBL2					
	SAMPLE DATE ----->	09/30/93		09/30/93					
	DATE ANALYZED --->	10/23/93		10/23/93					
	MATRIX ---------->	Soil		Soil					
	UNITS ----------->	UG/KG		UG/KG					
CAS #	Parameter	E014	VAL	E014	VAL				
100-01-6	4-Nitroaniline	3800.	U	4200.	U				
100-02-7	4-Nitrophenol	3800.	U	4200.	U				
100-51-6	Benzyl alcohol	760.	U	840.	U				
101-55-3	4-Bromophenyl-phenylether	760.	U	840.	U				
105-67-9	2,4-Dimethylphenol	760.	U	840.	U				
106-44-5	4-Methylphenol (p-Cresol)	760.	U	840.	U				
106-46-7	1,4-Dichlorobenzene	760.	U	840.	U				
106-47-8	4-Chloroaniline	760.	U	840.	U				
108-60-1	bis(2-chloroisopropyl) ether	760.	U	840.	U				
108-95-2	Phenol	760.	U	840.	U				
111-44-4	bis(2-Chloroethyl)ether	760.	U	840.	U				
111-91-1	bis(2-Chloroethoxy)methane	760.	U	840.	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	760.	U	840.	U				
117-84-0	Di-n-octylphthalate	760.	U	840.	U				
118-74-1	Hexachlorobenzene	760.	U	840.	U				
120-12-7	Anthracene	760.	U	840.	U				
120-82-1	1,2,4-Trichlorobenzene	760.	U	840.	U				
120-83-2	2,4-Dichlorophenol	760.	U	840.	U				
121-14-2	2,4-Dinitrotoluene	760.	U	840.	U				
129-00-0	Pyrene	760.	U	840.	U				
131-11-3	Dimethylphthalate	760.	U	840.	U				
132-64-9	Dibenzofuran	760.	U	840.	U				
191-24-2	Benzo(g,h,i)perylene	760.	U	840.	U				
193-39-5	Indeno(1,2,3-cd)pyrene	760.	U	840.	U				
205-99-2	Benzo(b)fluoranthene	760.	U	840.	U				
206-44-0	Fluoranthene	760.	U	840.	U				
207-08-9	Benzo(k)fluoranthene	760.	U	840.	U				
208-96-8	Acenaphthylene	760.	U	840.	U				
218-01-9	Chrysene	760.	U	840.	U				
50-32-8	Benzo(a)pyrene	760.	U	840.	U				
51-28-5	2,4-Dinitrophenol	3800.	U	4200.	U				
534-52-1	4,6-Dinitro-2-methylphenol	3800.	U	4200.	U				
53-70-3	Dibenz(a,h)anthracene	760.	U	840.	U				
541-73-1	1,3-Dichlorobenzene	760.	U	840.	U				
56-55-3	Benzo(a)anthracene	760.	U	840.	U				
59-50-7	4-Chloro-3-methylphenol	760.	U	840.	U				
606-20-2	2,6-Dinitrotoluene	760.	U	840.	U				
621-64-7	N-Nitroso-di-n-propylamine	760.	U	840.	U				
65-85-0	Benzoic acid	3800.	U	4200.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

SVOA									
	SHORT ID --------->	6SB-L (0-5')		6SB-L (5-10')					
	ORIGINAL ID ----->	CED6SBL1		CED6SBL2					
	SAMPLE DATE ----->	09/30/93		09/30/93					
	DATE ANALYZED --->	10/23/93		10/23/93					
	MATRIX ---------->	Soil		Soil					
	UNITS ----------->	UG/KG		UG/KG					
CAS #	Parameter	E014	VAL	E014	VAL				
67-72-1	Hexachloroethane	760.	U	840.	U				
7005-72-3	4-Chlorophenyl-phenylether	760.	U	840.	U				
709-98-8	Propanil	760.	U	840.	U				
77-47-4	Hexachlorocyclopentadiene	760.	U	840.	U				
78-59-1	Isophorone	760.	U	840.	U				
83-32-9	Acenaphthene	760.	U	840.	U				
84-66-2	Diethylphthalate	760.	U	840.	U				
84-74-2	Di-n-butylphthalate	760.	U	840.	U				
85-01-8	Phenanthrene	760.	U	840.	U				
85-68-7	Butylbenzylphthalate	760.	U	840.	U				
86-30-6	N-Nitrosodiphenylamine	760.	U	840.	U				
86-73-7	Fluorene	760.	U	840.	U				
87-68-3	Hexachlorobutadiene	760.	U	840.	U				
87-86-5	Pentachlorophenol	3800.	U	4200.	U				
88-06-2	2,4,6-Trichlorophenol	760.	U	840.	U				
88-74-4	2-Nitroaniline	3800.	U	4200.	U				
88-75-5	2-Nitrophenol	760.	U	840.	U				
88-85-7	Dinoseb	3800.	U	4200.	U				
91-20-3	Naphthalene	760.	U	840.	U				
91-57-6	2-Methylnaphthalene	760.	U	840.	U				
91-58-7	2-Chloronaphthalene	760.	U	840.	U				
91-94-1	3,3'-Dichlorobenzidine	1500.	U	1700.	U				
95-48-7	2-Methylphenol (o-Cresol)	760.	U	840.	U				
95-50-1	1,2-Dichlorobenzene	760.	U	840.	U				
95-57-8	2-Chlorophenol	760.	U	840.	U				
95-76-1	3,4-Dichloroaniline	760.	U	840.	U				
95-95-4	2,4,5-Trichlorophenol	3800.	U	4200.	U				
98-95-3	Nitrobenzene	760.	U	840.	U				
99-09-2	3-Nitroaniline	3800.	U	4200.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

VOA	SHORT ID --------->	6SB-A (0-5')		6SB-A (5-10')		6SB-C (0-5')		6SB-C (5-10')		6SB-D (0-5')		6SB-D (5-10')	
	ORIGINAL ID ----->	CED6SBA1		CED6SBA2		CED6SBC1		CED6SBC2		CED6SBD1		CED6SBD2	
	SAMPLE DATE ----->	09/27/93		09/27/93		09/29/93		09/29/93		09/29/93		09/29/93	
	DATE ANALYZED --->	10/07/93		10/07/93		10/07/93		10/08/93		10/08/93		10/08/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E014	VAL	E013	VAL	E014	VAL	E014	VAL	E014	VAL	E014	VAL
100-41-4	Ethylbenzene	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
100-42-5	Styrene	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
107-06-2	1,2-Dichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	9.	
108-05-4	Vinyl acetate	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	60.	U	62.	U	61.	U	2.		62.	U	500.	
108-88-3	Toluene	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
108-90-7	Chlorobenzene	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
124-48-1	Dibromochloromethane	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
127-18-4	Tetrachloroethene	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
1330-20-7	Xylene (total)	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
56-23-5	Carbon tetrachloride	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
591-78-6	2-Hexanone	60.	U	62.	U	61.	U	60.	U	62.	U	240.	U
67-64-1	Acetone	53.		12.	U	5.		12.	U	8.		860.	
67-66-3	Chloroform	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
71-43-2	Benzene	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
74-83-9	Bromomethane	12.	U	12.	U	12.	U	12.	U	12.	U	49.	U
74-87-3	Chloromethane	12.	U	12.	U	12.	U	12.	U	12.	U	49.	U
75-00-3	Chloroethane	12.	U	12.	U	12.	U	12.	U	12.	U	49.	U
75-01-4	Vinyl chloride	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
75-09-2	Methylene chloride	6.	U	6.	U	14.		23.		20.		44.	U
75-15-0	Carbon disulfide	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
75-25-2	Bromoform	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
75-27-4	Bromodichloromethane	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
75-34-3	1,1-Dichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
75-35-4	1,1-Dichloroethene	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
78-87-5	1,2-Dichloropropane	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
78-93-3	2-Butanone (MEK)	15.	U	12.	U	6.	U	12.	U	12.	U	49.	
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
79-01-6	Trichloroethene	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	24.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

VOA	SHORT ID --------->	6SB-E (0-5')		6SB-E (5-10')		6SB-F (0-5')		6SB-F (5-10')		6SB-G (0-5')		6SB-G (0-5')DUP	
	ORIGINAL ID ----->	CED6S8E1		CED6S8E2		CED6S8F1		CED6S8F2		CED6SBG1		CED6SBG1DUP	
	SAMPLE DATE ----->	09/27/93		09/27/93		09/27/93		09/27/93		09/29/93		09/29/93	
	DATE ANALYZED --->	10/07/93		10/07/93		10/07/93		10/07/93		10/08/93		10/08/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E014	VAL	E014	VAL	E013	VAL	E013	VAL	E014	VAL	E014	VAL
100-41-4	Ethylbenzene	6.	U	6.	U	2.		6.		29.	U	30.	U
100-42-5	Styrene	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
107-06-2	1,2-Dichloroethane	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
108-05-4	Vinyl acetate	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	60.	U	59.	U	62.	U	1.		290.	U	300.	U
108-88-3	Toluene	6.	U	6.	U	2.		10.		29.	U	30.	U
108-90-7	Chlorobenzene	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
124-48-1	Dibromochloromethane	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
127-18-4	Tetrachloroethene	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
1330-20-7	Xylene (total)	6.	U	6.	U	8.		43.		29.	U	30.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
56-23-5	Carbon tetrachloride	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
591-78-6	2-Hexanone	60.	U	59.	U	62.	U	3.		290.	U	300.	U
67-64-1	Acetone	67.		31.		12.	U	240.		890.		1800.	
67-66-3	Chloroform	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
71-43-2	Benzene	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
74-83-9	Bromomethane	12.	U	12.	U	12.	U	12.	U	59.	U	60.	U
74-87-3	Chloromethane	12.	U	12.	U	12.	U	12.	U	59.	U	60.	U
75-00-3	Chloroethane	12.	U	12.	U	12.	U	12.	U	59.	U	60.	U
75-01-4	Vinyl chloride	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
75-09-2	Methylene chloride	6.	U	6.	U	8.	U	14.		29.	U	30.	U
75-15-0	Carbon disulfide	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
75-25-2	Bromoform	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
75-27-4	Bromodichloromethane	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
75-34-3	1,1-Dichloroethane	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
75-35-4	1,1-Dichloroethene	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
78-87-5	1,2-Dichloropropane	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
78-93-3	2-Butanone (MEK)	12.	U	12.	U	12.	U	93.		59.	U	60.	U
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
79-01-6	Trichloroethene	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	6.	U	6.	U	29.	U	30.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

VOA	SHORT ID --------->	6SB-G (5-10')		6SB-H (0-5')		6SB-H (5-10')		6SB-J (5-10')		6SB-J (10-15')		6SB-K (0-5')	
	ORIGINAL ID ----->	CED6SBG2		CED6SBH1		CED6SBH2		CED6SBJ2		CED6SBJ3		CED6SBK1	
	SAMPLE DATE ----->	09/29/93		09/30/93		09/30/93		09/27/93		09/27/93		09/29/93	
	DATE ANALYZED --->	10/08/93		10/08/93		10/08/93		10/07/93		10/07/93		10/08/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E014	VAL	E014	VAL	E014	VAL	E013	VAL	E013	VAL	E014	VAL
100-41-4	Ethylbenzene	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
100-42-5	Styrene	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
107-06-2	1,2-Dichloroethane	6.	U	6.	U	6.	U	6.	U	9.		6.	U
108-05-4	Vinyl acetate	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	63.	U	57.	U	64.	U	65.	U	64.	U	63.	U
108-88-3	Toluene	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
108-90-7	Chlorobenzene	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
124-48-1	Dibromochloromethane	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
127-18-4	Tetrachloroethene	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
1330-20-7	Xylene (total)	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
56-23-5	Carbon tetrachloride	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
591-78-6	2-Hexanone	63.	U	57.	U	64.	U	65.	U	64.	U	63.	U
67-64-1	Acetone	15.		37.		13.	U	55.		13.	U	180.	
67-66-3	Chloroform	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
71-43-2	Benzene	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
74-83-9	Bromomethane	13.	U	11.	U	13.	U	13.	U	13.	U	13.	U
74-87-3	Chloromethane	13.	U	11.	U	13.	U	13.	U	13.	U	13.	U
75-00-3	Chloroethane	13.	U	11.	U	13.	U	13.	U	13.	U	13.	U
75-01-4	Vinyl chloride	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
75-09-2	Methylene chloride	10.	U	6.	U	7.	U	6.	U	10.		7.	U
75-15-0	Carbon disulfide	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
75-25-2	Bromoform	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
75-27-4	Bromodichloromethane	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
75-34-3	1,1-Dichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
75-35-4	1,1-Dichloroethene	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
78-87-5	1,2-Dichloropropane	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
78-93-3	2-Butanone (MEK)	13.	U	11.	U	3.		66.	U	6.	U	13.	U
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
79-01-6	Trichloroethene	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE I SURFACE SOIL DATA

VOA	SHORT ID --------->	6SB-K (5-10')		6SB-L (0-5')		6SB-L (5-10')				
	ORIGINAL ID ----->	CED6SBK2		CED6SBL1		CED6SBL2				
	SAMPLE DATE ----->	09/29/93		09/30/93		09/30/93				
	DATE ANALYZED --->	10/08/93		10/08/93		10/09/93				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	E014	VAL	E014	VAL	E014	VAL			
100-41-4	Ethylbenzene	7.	U	6.	U	6.	U			
100-42-5	Styrene	7.	U	6.	U	6.	U			
10061-01-5	cis-1,3-Dichloropropene	7.	U	6.	U	6.	U			
10061-02-6	trans-1,3-Dichloropropene	7.	U	6.	U	6.	U			
107-06-2	1,2-Dichloroethane	7.	U	6.	U	6.	U			
108-05-4	Vinyl acetate	7.	U	6.	U	6.	U			
108-10-1	4-Methyl-2-Pentanone (MIBK)	66.	U	59.	U	65.	U			
108-88-3	Toluene	7.	U	6.	U	6.	U			
108-90-7	Chlorobenzene	7.	U	6.	U	6.	U			
124-48-1	Dibromochloromethane	7.	U	6.	U	6.	U			
127-18-4	Tetrachloroethene	7.	U	6.	U	6.	U			
1330-20-7	Xylene (total)	7.	U	6.	U	6.	U			
540-59-0	1,2-Dichloroethene (total)	7.	U	6.	U	6.	U			
56-23-5	Carbon tetrachloride	7.	U	6.	U	6.	U			
591-78-6	2-Hexanone	66.	U	59.	U	65.	U			
67-64-1	Acetone	25.		27.		13.	U			
67-66-3	Chloroform	7.	U	6.	U	6.	U			
71-43-2	Benzene	7.	U	6.	U	6.	U			
71-55-6	1,1,1-Trichloroethane	7.	U	6.	U	6.	U			
74-83-9	Bromomethane	13.	U	12.	U	13.	U			
74-87-3	Chloromethane	13.	U	12.	U	13.	U			
75-00-3	Chloroethane	13.	U	12.	U	13.	U			
75-01-4	Vinyl chloride	7.	U	6.	U	6.	U			
75-09-2	Methylene chloride	24.		6.	U	41.				
75-15-0	Carbon disulfide	7.	U	6.	U	6.	U			
75-25-2	Bromoform	7.	U	6.	U	6.	U			
75-27-4	Bromodichloromethane	7.	U	6.	U	6.	U			
75-34-3	1,1-Dichloroethane	7.	U	6.	U	6.	U			
75-35-4	1,1-Dichloroethene	7.	U	6.	U	6.	U			
78-87-5	1,2-Dichloropropane	7.	U	6.	U	6.	U			
78-93-3	2-Butanone (MEK)	13.	U	12.	U	13.	U			
79-00-5	1,1,2-Trichloroethane	7.	U	6.	U	6.	U			
79-01-6	Trichloroethene	7.	U	6.	U	6.	U			
79-34-5	1,1,2,2-Tetrachloroethane	7.	U	6.	U	6.	U			

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE II SURFACE SOIL DATA

PEST	SHORT ID --------->	6HA-B1 (0-1')		6HA-B2 (0-1')		6HA-C1 (0-1')		6HA-C2 (0-1')		6HA-D1 (0-1')		6HA-F1 (0-1')	
	ORIGINAL ID ----->	006S00B101		006S00B202		006S00C101		006S00C201		006S00D101		006S00F101	
	SAMPLE DATE ----->	12/02/94		12/02/94		12/02/94		12/02/94		12/02/94		12/02/94	
	DATE EXTRACTED -->	12/05/94		12/05/94		12/05/94		12/05/94		12/05/94		12/05/94	
	DATE ANALYZED --->	12/10/94		12/10/94		12/10/94		12/10/94		12/10/94		12/10/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL
319-84-6	Alpha-BHC	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
319-85-7	Beta-BHC	4.	U	4.	U	4.	U	4.	U	4.	U	4.	U
319-86-8	Delta-BHC	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
58-89-9	gamma-BHC (Lindane)	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
76-44-8	Heptachlor	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
309-00-2	Aldrin	2.7	U	15.		2.7	U	24.		2.7	U	17.	
1024-57-3	Heptachlor Epoxide	56.	U	56.	U	56.	U	56.	U	56.	U	56.	U
959-98-8	Endosulfan I	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
60-57-1	Dieldrin	1.3	U	1.3	U	26.		78.		1.3	U	36.	
72-55-9	4,4'-DDE	2.7	U	27.		2.7	U	2.7	U	25.		2.7	U
72-20-8	Endrin	34.		4.	U	4.	U	4.	U	22.		4.	U
33213-65-9	Endosulfan II	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
72-54-8	4,4'-DDD	7.	U	150.		25.		47.		7.	U	46.	
7421-93-4	Endrin aldehyde	15.	U	15.	U	15.	U	15.	U	15.	U	15.	U
1031-07-8	Endosulfan Sulfate	44.	U	44.	U	44.	U	44.	U	44.	U	44.	U
50-29-3	4,4'-DDT	8.	U	8.	U	8.	U	8.	U	190.		44.	
72-43-5	Methoxychlor	5000.		240.		9200.		1300.		1500.		300.	
57-74-9	Chlordane	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
8001-35-2	Toxaphene	160.	U	160.	U	14000.		160.	U	160.	U	160.	U
12674-11-2	Aroclor-1016	60.	U	60.	U	60.	U	60.	U	60.	U	60.	U
11104-28-2	Aroclor-1221	180.	U	180.	U	180.	U	180.	U	180.	U	180.	U
11141-16-5	Aroclor-1232	32.	U	32.	U	32.	U	32.	U	32.	U	32.	U
53469-21-9	Aroclor-1242	44.	U	44.	U	44.	U	44.	U	44.	U	44.	U
12672-29-6	Aroclor-1248	170.	U	170.	U	170.	U	170.	U	170.	U	170.	U
11097-69-1	Aroclor-1254	80.	U	80.	U	80.	U	80.	U	80.	U	80.	U
11096-82-5	Aroclor-1260	24.	U	24.	U	24.	U	24.	U	24.	U	24.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE II SURFACE SOIL DATA

PEST	SHORT ID --------->	6HA-F2 (0-1')		6HA-G1 (0-1')		6HA-G1 (0-1')		6HA-G2 (0-1')		6HA-H1 (0-1')		6HA-H2 (0-1')	
	ORIGINAL ID ----->	006S00F202		006C00G101		006S00G101		006S00G201		006S00H101		006S00H201	
	SAMPLE DATE ----->	12/02/94		12/02/94		12/02/94		12/02/94		12/02/94		12/02/94	
	DATE EXTRACTED -->	12/05/94		12/05/94		12/05/94		12/05/94		12/05/94		12/05/94	
	DATE ANALYZED --->	12/10/94		12/10/94		12/10/94		12/10/94		12/10/94		12/10/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL
319-84-6	Alpha-BHC	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
319-85-7	Beta-BHC	4.	U	4.	U	4.	U	4.	U	4.	U	4.	U
319-86-8	Delta-BHC	6.	U	6.	U	6.	U	6.	U	6.	U	6.	U
58-89-9	gamma-BHC (Lindane)	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
76-44-8	Heptachlor	2.	U	2.	U	2.	U	2.	U	2.	U	2.	U
309-00-2	Aldrin	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	18.	
1024-57-3	Heptachlor Epoxide	56.	U	56.	U	56.	U	56.	U	56.	U	56.	U
959-98-8	Endosulfan I	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
60-57-1	Dieldrin	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U
72-55-9	4,4'-DDE	2.7	U	2.7	U	2.7	U	2.7	U	73.		2.7	U
72-20-8	Endrin	4.	U	4.	U	4.	U	4.	U	4.	U	4.	U
33213-65-9	Endosulfan II	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
72-54-8	4,4'-DDD	7.	U	7.	U	7.	U	7.	U	120.		7.	U
7421-93-4	Endrin aldehyde	15.	U	15.	U	15.	U	15.	U	15.	U	15.	U
1031-07-8	Endosulfan Sulfate	44.	U	44.	U	44.	U	44.	U	44.	U	44.	U
50-29-3	4,4'-DDT	8.	U	8.	U	8.	U	8.	U	58.		8.	U
72-43-5	Methoxychlor	170.		300.		350.		2500.		120.	U	340000.	
57-74-9	Chlordane	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
8001-35-2	Toxaphene	160.	U	160.	U	160.	U	160.	U	160.	U	160.	U
12674-11-2	Aroclor-1016	60.	U	60.	U	60.	U	60.	U	60.	U	60.	U
11104-28-2	Aroclor-1221	180.	U	180.	U	180.	U	180.	U	180.	U	180.	U
11141-16-5	Aroclor-1232	32.	U	32.	U	32.	U	32.	U	32.	U	32.	U
53469-21-9	Aroclor-1242	44.	U	44.	U	44.	U	44.	U	44.	U	44.	U
12672-29-6	Aroclor-1248	170.	U	170.	U	170.	U	170.	U	170.	U	170.	U
11097-69-1	Aroclor-1254	80.	U	80.	U	80.	U	80.	U	80.	U	80.	U
11096-82-5	Aroclor-1260	24.	U	24.	U	24.	U	24.	U	24.	U	24.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE II SURFACE SOIL DATA

PEST	SHORT ID --------->	6HA-I1 (0-1')		6HA-J1 (0-1')		6HA-K1 (0-1')		6HA-L1 (0-1')			
	ORIGINAL ID ----->	006S00I101		006S00J101		006S00K101		006S00L101			
	SAMPLE DATE ----->	12/02/94		12/02/94		12/02/94		12/02/94			
	DATE EXTRACTED -->	12/05/94		12/05/94		12/05/94		12/05/94			
	DATE ANALYZED --->	12/10/94		12/10/94		12/10/94		12/10/94			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	10867	VAL	10867	VAL	10867	VAL	10867	VAL		
319-84-6	Alpha-BHC	2.	U	2.	U	2.	U	2.	U		
319-85-7	Beta-BHC	4.	U	4.	U	4.	U	4.	U		
319-86-8	Delta-BHC	6.	U	6.	U	6.	U	6.	U		
58-89-9	gamma-BHC (Lindane)	2.7	U	2.7	U	2.7	U	2.7	U		
76-44-8	Heptachlor	2.	U	2.	U	2.	U	2.	U		
309-00-2	Aldrin	2.7	U	14.		2.7	U	4.8			
1024-57-3	Heptachlor Epoxide	56.	U	56.	U	56.	U	56.	U		
959-98-8	Endosulfan I	9.4	U	9.4	U	9.4	U	9.4	U		
60-57-1	Dieldrin	1.3	U	42.		44.		29.			
72-55-9	4,4'-DDE	2.7	U	2.7	U	2.7	U	64.			
72-20-8	Endrin	4.	U	4.	U	4.	U	63.			
33213-65-9	Endosulfan II	2.7	U	2.7	U	2.7	U	2.7	U		
72-54-8	4,4'-DDD	7.	U	31.		7.	U	84.			
7421-93-4	Endrin aldehyde	15.	U	15.	U	15.	U	15.	U		
1031-07-8	Endosulfan Sulfate	44.	U	44.	U	44.	U	44.	U		
50-29-3	4,4'-DDT	8.	U	27.		8.	U	140.			
72-43-5	Methoxychlor	120.	U	420.		820.		210.			
57-74-9	Chlordane	9.4	U	9.4	U	9.4	U	9.4	U		
8001-35-2	Toxaphene	160.	U	160.	U	160.	U	2500.			
12674-11-2	Aroclor-1016	60.	U	60.	U	60.	U	60.	U		
11104-28-2	Aroclor-1221	180.	U	180.	U	180.	U	180.	U		
11141-16-5	Aroclor-1232	32.	U	32.	U	32.	U	32.	U		
53469-21-9	Aroclor-1242	44.	U	44.	U	44.	U	44.	U		
12672-29-6	Aroclor-1248	170.	U	170.	U	170.	U	170.	U		
11097-69-1	Aroclor-1254	80.	U	80.	U	80.	U	80.	U		
11096-82-5	Aroclor-1260	24.	U	24.	U	24.	U	24.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	6HA-B1 (0-1')		6HA-B2 (0-1')		6HA-C1 (0-1')		6HA-C2 (0-1')		6HA-D1 (0-1')		6HA-F1 (0-1')	
	ORIGINAL ID ----->	006S00B101		006S00B202		006S00C101		006S00C201		006S00D101		006S00F101	
	SAMPLE DATE ----->	12/02/94		12/02/94		12/02/94		12/02/94		12/02/94		12/02/94	
	DATE EXTRACTED -->	12/05/94		12/05/94		12/05/94		12/05/94		12/05/94		12/05/94	
	DATE ANALYZED --->	12/13/94		12/13/94		12/13/94		12/13/94		12/13/94		12/12/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL
108-95-2	Phenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
111-44-4	bis(2-Chloroethyl)ether	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
95-57-8	2-Chlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
541-73-1	1,3-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
106-46-7	1,4-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
100-51-6	Benzyl alcohol	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
95-50-1	1,2-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
95-48-7	2-Methylphenol (o-Cresol)	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
108-60-1	bis(2-chloroisopropyl) ether	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
106-44-5	4-Methylphenol (p-Cresol)	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
621-64-7	N-Nitroso-di-n-propylamine	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
67-72-1	Hexachloroethane	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
98-95-3	Nitrobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
78-59-1	Isophorone	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
88-75-5	2-Nitrophenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
105-67-9	2,4-Dimethylphenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
111-91-1	bis(2-Chloroethoxy)methane	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
120-83-2	2,4-Dichlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
120-82-1	1,2,4-Trichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
91-20-3	Naphthalene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
87-68-3	Hexachlorobutadiene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
59-50-7	4-Chloro-3-methylphenol	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
91-57-6	2-Methylnaphthalene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
77-47-4	Hexachlorocyclopentadiene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
88-06-2	2,4,6-Trichlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
95-95-4	2,4,5-Trichlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
91-58-7	2-Chloronaphthalene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
88-74-4	2-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
131-11-3	Dimethylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
208-96-8	Acenaphthylene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
99-09-2	3-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
83-32-9	Acenaphthene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
51-28-5	2,4-Dinitrophenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
100-02-7	4-Nitrophenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
132-64-9	Dibenzofuran	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
121-14-2	2,4-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
606-20-2	2,6-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
84-66-2	Diethylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	6HA-B1 (0-1')		6HA-B2 (0-1')		6HA-C1 (0-1')		6HA-C2 (0-1')		6HA-D1 (0-1')		6HA-F1 (0-1')	
	ORIGINAL ID ----->	006S008101		006S008202		006S00C101		006S00C201		006S00D101		006S00F101	
	SAMPLE DATE ----->	12/02/94		12/02/94		12/02/94		12/02/94		12/02/94		12/02/94	
	DATE EXTRACTED -->	12/05/94		12/05/94		12/05/94		12/05/94		12/05/94		12/05/94	
	DATE ANALYZED --->	12/13/94		12/13/94		12/13/94		12/13/94		12/13/94		12/12/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL
7005-72-3	4-Chlorophenyl-phenylether	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
86-73-7	Fluorene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
100-01-6	4-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
534-52-1	4,6-Dinitro-2-methylphenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
86-30-6	N-Nitrosodiphenylamine	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
101-55-3	4-Bromophenyl-phenylether	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
118-74-1	Hexachlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
87-86-5	Pentachlorophenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
85-01-8	Phenanthrene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
120-12-7	Anthracene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
206-44-0	Fluoranthene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
129-00-0	Pyrene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
85-68-7	Butylbenzylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
91-94-1	3,3'-Dichlorobenzidine	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
56-55-3	Benzo(a)anthracene	870.		660.	U	660.	U	660.	U	660.	U	660.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
218-01-9	Chrysene	870.		660.	U	660.	U	660.	U	660.	U	660.	U
117-84-0	Di-n-octylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
205-99-2	Benzo(b)fluoranthene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
207-08-9	Benzo(k)fluoranthene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
50-32-8	Benzo(a)pyrene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
193-39-5	Indeno(1,2,3-cd)pyrene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
53-70-3	Dibenz(a,h)anthracene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
191-24-2	Benzo(g,h,i)perylene	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U
88-85-7	Dinoseb	160000.		5600.		110000.		5600.		9100.		3800.	
65-85-0	Benzoic acid	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U
106-47-8	4-Chloroaniline	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U
84-74-2	Di-n-butylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	660.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	6HA-F2 (0-1')		6HA-G1 (0-1')		6HA-G1 (0-1')		6HA-G2 (0-1')		6HA-H1 (0-1')		6HA-H2 (0-1')	
	ORIGINAL ID ----->	006S00F202		006C00G101		006S00G101		006S00G201		006S00H101		006S00H201	
	SAMPLE DATE ----->	12/02/94		12/02/94		12/02/94		12/02/94		12/02/94		12/02/94	
	DATE EXTRACTED -->	12/05/94		12/05/94		12/05/94		12/05/94		12/05/94		12/05/94	
	DATE ANALYZED --->	12/13/94		12/13/94		12/13/94		12/13/94		12/10/94		12/10/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL
108-95-2	Phenol	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
111-44-4	bis(2-Chloroethyl)ether	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
95-57-8	2-Chlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
541-73-1	1,3-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
106-46-7	1,4-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
100-51-6	Benzyl alcohol	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U	6500.	U
95-50-1	1,2-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
95-48-7	2-Methylphenol (o-Cresol)	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
108-60-1	bis(2-chloroisopropyl) ether	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
106-44-5	4-Methylphenol (p-Cresol)	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
621-64-7	N-Nitroso-di-n-propylamine	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
67-72-1	Hexachloroethane	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
98-95-3	Nitrobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
78-59-1	Isophorone	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
88-75-5	2-Nitrophenol	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
105-67-9	2,4-Dimethylphenol	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
111-91-1	bis(2-Chloroethoxy)methane	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
120-83-2	2,4-Dichlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
120-82-1	1,2,4-Trichlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
91-20-3	Naphthalene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
87-68-3	Hexachlorobutadiene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
59-50-7	4-Chloro-3-methylphenol	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U	6500.	U
91-57-6	2-Methylnaphthalene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
77-47-4	Hexachlorocyclopentadiene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
88-06-2	2,4,6-Trichlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
95-95-4	2,4,5-Trichlorophenol	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
91-58-7	2-Chloronaphthalene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
88-74-4	2-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	16500.	U
131-11-3	Dimethylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
208-96-8	Acenaphthylene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
99-09-2	3-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	16500.	U
83-32-9	Acenaphthene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
51-28-5	2,4-Dinitrophenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	16500.	U
100-02-7	4-Nitrophenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	16500.	U
132-64-9	Dibenzofuran	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
121-14-2	2,4-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
606-20-2	2,6-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
84-66-2	Diethylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	6HA-F2 (0-1')		6HA-G1 (0-1')		6HA-G1 (0-1')		6HA-G2 (0-1')		6HA-H1 (0-1')		6HA-H2 (0-1')	
	ORIGINAL ID ----->	006S00F202		006C00G101		006S00G101		006S00G201		006S00H101		006S00H201	
	SAMPLE DATE ----->	12/02/94		12/02/94		12/02/94		12/02/94		12/02/94		12/02/94	
	DATE EXTRACTED -->	12/05/94		12/05/94		12/05/94		12/05/94		12/05/94		12/05/94	
	DATE ANALYZED --->	12/13/94		12/13/94		12/13/94		12/13/94		12/10/94		12/10/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL
7005-72-3	4-Chlorophenyl-phenylether	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
86-73-7	Fluorene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
100-01-6	4-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	16500.	U
534-52-1	4,6-Dinitro-2-methylphenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	16500.	U
86-30-6	N-Nitrosodiphenylamine	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
101-55-3	4-Bromophenyl-phenylether	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
118-74-1	Hexachlorobenzene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
87-86-5	Pentachlorophenol	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	16500.	U
85-01-8	Phenanthrene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
120-12-7	Anthracene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
206-44-0	Fluoranthene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
129-00-0	Pyrene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
85-68-7	Butylbenzylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
91-94-1	3,3'-Dichlorobenzidine	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U	6500.	U
56-55-3	Benzo(a)anthracene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
218-01-9	Chrysene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
117-84-0	Di-n-octylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
205-99-2	Benzo(b)fluoranthene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
207-08-9	Benzo(k)fluoranthene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
50-32-8	Benzo(a)pyrene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
193-39-5	Indeno(1,2,3-cd)pyrene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
53-70-3	Dibenz(a,h)anthracene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
191-24-2	Benzo(g,h,i)perylene	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U
88-85-7	Dinoseb	462.	U	462.	U	462.	U	2200.		462.	U	2310.	U
65-85-0	Benzoic acid	3300.	U	3300.	U	3300.	U	3300.	U	3300.	U	16500.	U
106-47-8	4-Chloroaniline	1300.	U	1300.	U	1300.	U	1300.	U	1300.	U	6500.	U
84-74-2	Di-n-butylphthalate	660.	U	660.	U	660.	U	660.	U	660.	U	3300.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	6HA-I1 (0-1')	6HA-J1 (0-1')	6HA-K1 (0-1')	6HA-L1 (0-1')		
	ORIGINAL ID ----->	006S00I101	006S00J101	006S00K101	006S00L101		
	SAMPLE DATE ----->	12/02/94	12/02/94	12/02/94	12/02/94		
	DATE EXTRACTED -->	12/05/94	12/05/94	12/05/94	12/05/94		
	DATE ANALYZED --->	12/12/94	12/13/94	12/13/94	12/12/94		
	MATRIX ---------->	Soil	Soil	Soil	Soil		
	UNITS ---------->	UG/KG	UG/KG	UG/KG	UG/KG		

CAS #	Parameter	10867	VAL	10867	VAL	10867	VAL	10867	VAL		
108-95-2	Phenol	660.	U	660.	U	660.	U	660.	U		
111-44-4	bis(2-Chloroethyl)ether	660.	U	660.	U	660.	U	660.	U		
95-57-8	2-Chlorophenol	660.	U	660.	U	660.	U	660.	U		
541-73-1	1,3-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U		
106-46-7	1,4-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U		
100-51-6	Benzyl alcohol	1300.	U	1300.	U	1300.	U	1300.	U		
95-50-1	1,2-Dichlorobenzene	660.	U	660.	U	660.	U	660.	U		
95-48-7	2-Methylphenol (o-Cresol)	660.	U	660.	U	660.	U	660.	U		
108-60-1	bis(2-chloroisopropyl) ether	660.	U	660.	U	660.	U	660.	U		
106-44-5	4-Methylphenol (p-Cresol)	660.	U	660.	U	660.	U	660.	U		
621-64-7	N-Nitroso-di-n-propylamine	660.	U	660.	U	660.	U	660.	U		
67-72-1	Hexachloroethane	660.	U	660.	U	660.	U	660.	U		
98-95-3	Nitrobenzene	660.	U	660.	U	660.	U	660.	U		
78-59-1	Isophorone	660.	U	660.	U	660.	U	660.	U		
88-75-5	2-Nitrophenol	660.	U	660.	U	660.	U	660.	U		
105-67-9	2,4-Dimethylphenol	660.	U	660.	U	660.	U	660.	U		
111-91-1	bis(2-Chloroethoxy)methane	660.	U	660.	U	660.	U	660.	U		
120-83-2	2,4-Dichlorophenol	660.	U	660.	U	660.	U	660.	U		
120-82-1	1,2,4-Trichlorobenzene	660.	U	660.	U	660.	U	660.	U		
91-20-3	Naphthalene	660.	U	660.	U	660.	U	660.	U		
87-68-3	Hexachlorobutadiene	660.	U	660.	U	660.	U	660.	U		
59-50-7	4-Chloro-3-methylphenol	1300.	U	1300.	U	1300.	U	1300.	U		
91-57-6	2-Methylnaphthalene	660.	U	660.	U	660.	U	660.	U		
77-47-4	Hexachlorocyclopentadiene	660.	U	660.	U	660.	U	660.	U		
88-06-2	2,4,6-Trichlorophenol	660.	U	660.	U	660.	U	660.	U		
95-95-4	2,4,5-Trichlorophenol	660.	U	660.	U	660.	U	660.	U		
91-58-7	2-Chloronaphthalene	660.	U	660.	U	660.	U	660.	U		
88-74-4	2-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U		
131-11-3	Dimethylphthalate	660.	U	660.	U	660.	U	660.	U		
208-96-8	Acenaphthylene	660.	U	660.	U	660.	U	660.	U		
99-09-2	3-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U		
83-32-9	Acenaphthene	660.	U	660.	U	660.	U	660.	U		
51-28-5	2,4-Dinitrophenol	3300.	U	3300.	U	3300.	U	3300.	U		
100-02-7	4-Nitrophenol	3300.	U	3300.	U	3300.	U	3300.	U		
132-64-9	Dibenzofuran	660.	U	660.	U	660.	U	660.	U		
121-14-2	2,4-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U		
606-20-2	2,6-Dinitrotoluene	660.	U	660.	U	660.	U	660.	U		
84-66-2	Diethylphthalate	660.	U	660.	U	660.	U	660.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 6 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	6HA-I1 (0-1')		6HA-J1 (0-1')		6HA-K1 (0-1')		6HA-L1 (0-1')			
	ORIGINAL ID ----->	006S00I101		006S00J101		006S00K101		006S00L101			
	SAMPLE DATE ----->	12/02/94		12/02/94		12/02/94		12/02/94			
	DATE EXTRACTED -->	12/05/94		12/05/94		12/05/94		12/05/94			
	DATE ANALYZED --->	12/12/94		12/13/94		12/13/94		12/12/94			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	10867	VAL	10867	VAL	10867	VAL	10867	VAL		
7005-72-3	4-Chlorophenyl-phenylether	660.	U	660.	U	660.	U	660.	U		
86-73-7	Fluorene	660.	U	660.	U	660.	U	660.	U		
100-01-6	4-Nitroaniline	3300.	U	3300.	U	3300.	U	3300.	U		
534-52-1	4,6-Dinitro-2-methylphenol	3300.	U	3300.	U	3300.	U	3300.	U		
86-30-6	N-Nitrosodiphenylamine	660.	U	660.	U	660.	U	660.	U		
101-55-3	4-Bromophenyl-phenylether	660.	U	660.	U	660.	U	660.	U		
118-74-1	Hexachlorobenzene	660.	U	660.	U	660.	U	660.	U		
87-86-5	Pentachlorophenol	3300.	U	3300.	U	3300.	U	3300.	U		
85-01-8	Phenanthrene	660.	U	660.	U	660.	U	660.	U		
120-12-7	Anthracene	660.	U	660.	U	660.	U	660.	U		
206-44-0	Fluoranthene	660.	U	660.	U	660.	U	660.	U		
129-00-0	Pyrene	660.	U	660.	U	660.	U	660.	U		
85-68-7	Butylbenzylphthalate	660.	U	660.	U	660.	U	660.	U		
91-94-1	3,3'-Dichlorobenzidine	1300.	U	1300.	U	1300.	U	1300.	U		
56-55-3	Benzo(a)anthracene	660.	U	660.	U	660.	U	660.	U		
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	660.	U	660.	U	660.	U	660.	U		
218-01-9	Chrysene	660.	U	660.	U	660.	U	660.	U		
117-84-0	Di-n-octylphthalate	660.	U	660.	U	660.	U	660.	U		
205-99-2	Benzo(b)fluoranthene	660.	U	660.	U	660.	U	660.	U		
207-08-9	Benzo(k)fluoranthene	660.	U	660.	U	660.	U	660.	U		
50-32-8	Benzo(a)pyrene	660.	U	660.	U	660.	U	660.	U		
193-39-5	Indeno(1,2,3-cd)pyrene	660.	U	660.	U	660.	U	660.	U		
53-70-3	Dibenz(a,h)anthracene	660.	U	660.	U	660.	U	660.	U		
191-24-2	Benzo(g,h,i)perylene	660.	U	660.	U	660.	U	660.	U		
88-85-7	Dinoseb	462.	U	2900.		960.		462.	U		
65-85-0	Benzoic acid	3300.	U	3300.	U	3300.	U	3300.	U		
106-47-8	4-Chloroaniline	1300.	U	1300.	U	1300.	U	1300.	U		
84-74-2	Di-n-butylphthalate	660.	U	660.	U	660.	U	660.	U		

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 8 PHASE I SURFACE SOIL DATA

PEST	SHORT ID --------->	8HA-1 (0-1')		8HA-2 (0-1')		8HA-3 (0-1')		8HA-4 (0-1')			
	ORIGINAL ID ----->	CED1HA6		CED1HA7		CED1HA8		CED1HA9			
	SAMPLE DATE ----->	09/08/93		09/08/93		09/08/93		09/08/93			
	DATE ANALYZED --->	09/16/93		09/16/93		09/16/93		09/17/93			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E003	VAL	E003	VAL	E003	VAL	E006	VAL		
1024-57-3	Heptachlor Epoxide	70.	U	69.	U	68.	U	70.	U		
1031-07-8	Endosulfan Sulfate	56.	U	55.	U	54.	U	56.	U		
309-00-2	Aldrin	3.4	U	3.3	U	3.3	U	3.4	U		
319-84-6	Alpha-BHC	2.5	U	2.5	U	2.5	U	2.5	U		
319-85-7	Beta-BHC	5.1	U	5.	U	4.9	U	5.1	U		
319-86-8	Delta-BHC	7.6	U	7.5	U	7.4	U	7.6	U		
33213-65-9	Endosulfan II	3.4	U	3.3	U	3.3	U	3.5	U		
50-29-3	4,4'-DDT	10.	U	10.	U	9.9	U	10.	U		
5103-71-9	alpha-Chlordane	12.	U	12.	U	12.	U	12.	U		
5103-74-2	gamma-Chlordane	12.	U	12.	U	12.	U	12.	U		
53494-70-5	Endrin ketone	20.	U	20.	U	20.	U	20.	U		
58-89-9	gamma-BHC (Lindane)	3.4	U	3.3	U	3.3	U	3.4	U		
60-57-1	Dieldrin	1.7	U	4.		1.6	U	1.7	U		
72-20-8	Endrin	5.1	U	5.	U	4.9	U	5.1	U		
72-43-5	Methoxychlor	150.	U	150.	U	150.	U	150.	U		
72-54-8	4,4'-DDD	9.3	U	9.1	U	9.	U	9.3	U		
72-55-9	4,4'-DDE	3.4	U	3.3	U	3.3	U	3.4	U		
76-44-8	Heptachlor	2.5	U	2.5	U	2.5	U	2.5	U		
8001-35-2	Toxaphene	200.	U	200.	U	200.	U	200.	U		
959-98-8	Endosulfan I	12.	U	12.	U	12.	U	12.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 8 PHASE I SURFACE SOIL DATA

RCRA METAL		SHORT ID --------->	8HA-1 (0-1')		8HA-2 (0-1')		8HA-3 (0-1')		8HA-4 (0-1')			
		ORIGINAL ID ----->	CED1HA6		CED1HA7		CED1HA8		CED1HA9			
		SAMPLE DATE ----->	09/08/93		09/08/93		09/08/93		09/08/93			
		DATE ANALYZED --->	10/01/93		10/01/93		10/01/93		10/01/93			
		MATRIX ---------->	Soil		Soil		Soil		Soil			
		UNITS ----------->	MG/KG		MG/KG		MG/KG		MG/KG			
CAS #	Parameter		E003	VAL	E003	VAL	E003	VAL	E006	VAL		
7440-38-2	Arsenic (As)		6.1		4.2		5.2		6.3			
7440-39-3	Barium (Ba)		248.		142.		77.6		157.			
7440-43-9	Cadmium (Cd)		0.37	U	0.37	U	0.36	U	0.38	U		
7440-47-3	Chromium (Cr)		22.9		18.7		21.7		16.5			
7439-92-1	Lead (Pb)		12.1		9.4		11.8		12.5			
7439-97-6	Mercury (Hg)		0.12	U	0.12	U	0.1	U	0.13	U		
7782-49-2	Selenium (Se)		0.62	U	0.62	U	0.81		0.64	U		
7440-22-4	Silver (Ag)		0.37	U	0.37	U	0.36	U	0.38	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 8 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	BHA-1 (0-1')		BHA-2 (0-1')		BHA-3 (0-1')		BHA-4 (0-1')			
	ORIGINAL ID ----->	CED1HA6		CED1HA7		CED1HA8		CED1HA9			
	SAMPLE DATE ----->	09/08/93		09/08/93		09/08/93		09/08/93			
	DATE ANALYZED --->	10/05/93		10/14/93		10/13/93		10/14/93			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E003	VAL	E003	VAL	E003	VAL	E006	VAL		
100-01-6	4-Nitroaniline	1600.	U	1600.	U	1600.	U	4200.	U		
100-02-7	4-Nitrophenol	4200.	U	4100.	U	4100.	U	4200.	U		
100-51-6	Benzyl alcohol	1600.	U	1600.	U	1600.	U	850.	U		
101-55-3	4-Bromophenyl-phenylether	840.	U	820.	U	810.	U	850.	U		
105-67-9	2,4-Dimethylphenol	840.	U	820.	U	810.	U	850.	U		
106-44-5	4-Methylphenol (p-Cresol)	840.	U	820.	U	810.	U	850.	U		
106-46-7	1,4-Dichlorobenzene	840.	U	820.	U	810.	U	850.	U		
106-47-8	4-Chloroaniline	1600.	U	1600.	U	1600.	U	850.	U		
108-60-1	bis(2-chloroisopropyl) ether	840.	U	820.	U	810.	U	850.	U		
108-95-2	Phenol	840.	U	820.	U	810.	U	850.	U		
111-44-4	bis(2-Chloroethyl)ether	840.	U	820.	U	810.	U	850.	U		
111-91-1	bis(2-Chloroethoxy)methane	840.	U	820.	U	810.	U	850.	U		
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	840.	U	820.	U	810.	U	850.	U		
117-84-0	Di-n-octylphthalate	840.	U	820.	U	810.	U	850.	U		
118-74-1	Hexachlorobenzene	840.	U	820.	U	810.	U	850.	U		
120-12-7	Anthracene	840.	U	820.	U	810.	U	850.	U		
120-82-1	1,2,4-Trichlorobenzene	840.	U	820.	U	810.	U	850.	U		
120-83-2	2,4-Dichlorophenol	840.	U	820.	U	810.	U	850.	U		
121-14-2	2,4-Dinitrotoluene	840.	U	820.	U	810.	U	850.	U		
129-00-0	Pyrene	840.	U	820.	U	810.	U	850.	U		
131-11-3	Dimethylphthalate	840.	U	820.	U	810.	U	850.	U		
132-64-9	Dibenzofuran	840.	U	820.	U	810.	U	850.	U		
191-24-2	Benzo(g,h,i)perylene	NR		NR		NR		850.	U		
193-39-5	Indeno(1,2,3-cd)pyrene	840.	U	820.	U	810.	U	850.	U		
205-99-2	Benzo(b)fluoranthene	840.	U	820.	U	810.	U	850.	U		
206-44-0	Fluoranthene	840.	U	820.	U	810.	U	850.	U		
207-08-9	Benzo(k)fluoranthene	840.	U	820.	U	810.	U	850.	U		
208-96-8	Acenaphthylene	840.	U	820.	U	810.	U	850.	U		
218-01-9	Chrysene	840.	U	820.	U	810.	U	850.	U		
50-32-8	Benzo(a)pyrene	840.	U	820.	U	810.	U	850.	U		
51-28-5	2,4-Dinitrophenol	840.	U	820.	U	810.	U	4200.	U		
534-52-1	4,6-Dinitro-2-methylphenol	4200.	U	4100.	U	4100.	U	4200.	U		
53-70-3	Dibenz(a,h)anthracene	NR		NR		NR		850.	U		
541-73-1	1,3-Dichlorobenzene	840.	U	820.	U	810.	U	850.	U		
56-55-3	Benzo(a)anthracene	840.	U	820.	U	810.	U	850.	U		
59-50-7	4-Chloro-3-methylphenol	1600.	U	1600.	U	1600.	U	850.	U		
606-20-2	2,6-Dinitrotoluene	840.	U	820.	U	810.	U	850.	U		
621-64-7	N-Nitroso-di-n-propylamine	840.	U	820.	U	810.	U	850.	U		
65-85-0	Benzoic acid	4200.	U	4100.	U	4100.	U	4200.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 8 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	8HA-1 (0-1')		8HA-2 (0-1')		8HA-3 (0-1')		8HA-4 (0-1')			
	ORIGINAL ID ----->	CED1HA6		CED1HA7		CED1HA8		CED1HA9			
	SAMPLE DATE ----->	09/08/93		09/08/93		09/08/93		09/08/93			
	DATE ANALYZED --->	10/05/93		10/14/93		10/13/93		10/14/93			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E003	VAL	E003	VAL	E003	VAL	E006	VAL		
67-72-1	Hexachloroethane	840.	U	820.	U	810.	U	850.	U		
7005-72-3	4-Chlorophenyl-phenylether	840.	U	820.	U	810.	U	850.	U		
709-98-8	Propanil	840.	U	820.	U	810.	U	850.	U		
77-47-4	Hexachlorocyclopentadiene	840.	U	820.	U	810.	U	850.	U		
78-59-1	Isophorone	840.	U	820.	U	810.	U	850.	U		
83-32-9	Acenaphthene	840.	U	820.	U	810.	U	850.	U		
84-66-2	Diethylphthalate	840.	U	820.	U	810.	U	850.	U		
84-74-2	Di-n-butylphthalate	840.	U	820.	U	810.	U	850.	U		
85-01-8	Phenanthrene	840.	U	820.	U	810.	U	850.	U		
85-68-7	Butylbenzylphthalate	840.	U	820.	U	810.	U	850.	U		
86-30-6	N-Nitrosodiphenylamine	840.	U	820.	U	810.	U	850.	U		
86-73-7	Fluorene	840.	U	820.	U	810.	U	850.	U		
87-68-3	Hexachlorobutadiene	840.	U	820.	U	810.	U	850.	U		
87-86-5	Pentachlorophenol	4200.	U	4100.	U	4100.	U	4200.	U		
88-06-2	2,4,6-Trichlorophenol	840.	U	820.	U	810.	U	850.	U		
88-74-4	2-Nitroaniline	4200.	U	4100.	U	4100.	U	4200.	U		
88-75-5	2-Nitrophenol	840.	U	820.	U	810.	U	850.	U		
88-85-7	Dinoseb	840.	U	820.	U	810.	U	4200.	U		
91-20-3	Naphthalene	840.	U	820.	U	810.	U	850.	U		
91-57-6	2-Methylnaphthalene	840.	U	820.	U	810.	U	850.	U		
91-58-7	2-Chloronaphthalene	840.	U	820.	U	810.	U	850.	U		
91-94-1	3,3'-Dichlorobenzidine	1600.	U	1600.	U	1600.	U	1700.	U		
95-48-7	2-Methylphenol (o-Cresol)	840.	U	820.	U	810.	U	850.	U		
95-50-1	1,2-Dichlorobenzene	840.	U	820.	U	810.	U	850.	U		
95-57-8	2-Chlorophenol	840.	U	820.	U	810.	U	850.	U		
95-76-1	3,4-Dichloroaniline	840.	U	820.	U	810.	U	850.	U		
95-95-4	2,4,5-Trichlorophenol	840.	U	820.	U	810.	U	4200.	U		
98-95-3	Nitrobenzene	840.	U	820.	U	810.	U	850.	U		
99-09-2	3-Nitroaniline	4200.	U	4100.	U	4100.	U	4200.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 8 PHASE I SURFACE SOIL DATA

VOA	SHORT ID --------->	8HA-1 (0-1')		8HA-2 (0-1')		8HA-3 (0-1')		8HA-4 (0-1')			
	ORIGINAL ID ----->	CED1HA6		CED1HA7		CED1HA8		CED1HA9			
	SAMPLE DATE ----->	09/08/93		09/08/93		09/08/93		09/08/93			
	DATE ANALYZED --->	09/16/93		09/16/93		09/16/93		09/14/93			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E003	VAL	E003	VAL	E003	VAL	E006	VAL		
100-41-4	Ethylbenzene	6.	U	6.	U	6.	U	6.	U		
100-42-5	Styrene	6.	U	6.	U	6.	U	6.	U		
10061-01-5	cis-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U		
10061-02-6	trans-1,3-Dichloropropene	6.	U	6.	U	6.	U	6.	U		
107-06-2	1,2-Dichloroethane	6.	U	6.	U	6.	U	6.	U		
108-05-4	Vinyl acetate	6.	U	6.	U	6.	U	6.	U		
108-10-1	4-Methyl-2-Pentanone (MIBK)	61.	U	62.	U	62.	U	64.	U		
108-88-3	Toluene	6.	U	6.	U	6.	U	6.	U		
108-90-7	Chlorobenzene	6.	U	6.	U	6.	U	6.	U		
124-48-1	Dibromochloromethane	6.	U	6.	U	6.	U	6.	U		
127-18-4	Tetrachloroethene	6.	U	6.	U	6.	U	6.	U		
1330-20-7	Xylene (total)	6.	U	6.	U	6.	U	6.	U		
540-59-0	1,2-Dichloroethene (total)	6.	U	6.	U	6.	U	6.	U		
56-23-5	Carbon tetrachloride	6.	U	6.	U	6.	U	6.	U		
591-78-6	2-Hexanone	61.	U	62.	U	62.	U	64.	U		
67-64-1	Acetone	12.	U	12.	U	12.	U	13.	U		
67-66-3	Chloroform	6.	U	6.	U	6.	U	6.	U		
71-43-2	Benzene	6.	U	6.	U	6.	U	6.	U		
71-55-6	1,1,1-Trichloroethane	6.	U	6.	U	6.	U	6.	U		
74-83-9	Bromomethane	12.	U	12.	U	12.	U	13.	U		
74-87-3	Chloromethane	12.	U	12.	U	12.	U	13.	U		
75-00-3	Chloroethane	12.	U	12.	U	12.	U	13.	U		
75-01-4	Vinyl chloride	6.	U	6.	U	6.	U	6.	U		
75-09-2	Methylene chloride	6.	U	6.	U	6.	U	6.	U		
75-15-0	Carbon disulfide	6.	U	6.	U	6.	U	6.	U		
75-25-2	Bromoform	6.	U	6.	U	6.	U	6.	U		
75-27-4	Bromodichloromethane	6.	U	6.	U	6.	U	6.	U		
75-34-3	1,1-Dichloroethane	6.	U	6.	U	6.	U	6.	U		
75-35-4	1,1-Dichloroethene	6.	U	6.	U	6.	U	6.	U		
78-87-5	1,2-Dichloropropane	6.	U	6.	U	6.	U	6.	U		
78-93-3	2-Butanone (MEK)	12.	U	12.	U	12.	U	13.	U		
79-00-5	1,1,2-Trichloroethane	6.	U	6.	U	6.	U	6.	U		
79-01-6	Trichloroethene	6.	U	6.	U	6.	U	6.	U		
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	6.	U	6.	U	6.	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SURFACE SOIL DATA

PEST		SHORT ID --------->	9SB-3 (0-5')		9SB-15 (0-5')					
		ORIGINAL ID ----->	CED9SB3-1		CED9SB151					
		SAMPLE DATE ----->	09/07/93		09/09/93					
		DATE ANALYZED --->	09/17/93		09/18/93					
		MATRIX ---------->	Soil		Soil					
		UNITS ----------->	UG/KG		UG/KG					
CAS #	Parameter		E006	VAL	E007	VAL				
1024-57-3	Heptachlor Epoxide		700.	U	59.	U				
1031-07-8	Endosulfan Sulfate		560.	U	47.	U				
309-00-2	Aldrin		34.	U	2.9	U				
319-84-6	Alpha-BHC		25.	U	2.1	U				
319-85-7	Beta-BHC		51.	U	4.3	U				
319-86-8	Delta-BHC		76.	U	6.4	U				
33213-65-9	Endosulfan II		34.	U	2.9	U				
50-29-3	4,4'-DDT		100.	U	15.					
5103-71-9	alpha-Chlordane		120.	U	10.	U				
5103-74-2	gamma-Chlordane		120.	U	10.	U				
53494-70-5	Endrin ketone		200.	U	17.	U				
58-89-9	gamma-BHC (Lindane)		34.	U	2.9	U				
60-57-1	Dieldrin		17.	U	1.4	U				
72-20-8	Endrin		51.	U	4.3	U				
72-43-5	Methoxychlor		1500.	U	130.	U				
72-54-8	4,4'-DDD		93.	U	24.					
72-55-9	4,4'-DDE		34.	U	12.					
76-44-8	Heptachlor		150.		2.1	U				
8001-35-2	Toxaphene		2000.	U	170.	U				
959-98-8	Endosulfan I		120.	U	10.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SURFACE SOIL DATA

RCRA METAL		SHORT ID --------->	9SB-3 (0-5')		9SB-15 (0-5')					
		ORIGINAL ID ----->	CED9SB3-1		CED9SB151					
		SAMPLE DATE ----->	09/07/93		09/09/93					
		DATE ANALYZED --->	10/01/93		10/01/93					
		MATRIX ---------->	Soil		Soil					
		UNITS ----------->	MG/KG		MG/KG					
CAS #	Parameter		ED06	VAL	ED07	VAL				
7440-38-2	Arsenic (As)		3.5		3.4					
7440-39-3	Barium (Ba)		99.8		94.1					
7440-43-9	Cadmium (Cd)		0.38	U	0.32	U				
7440-47-3	Chromium (Cr)		14.7		11.3					
7439-92-1	Lead (Pb)		9.		8.1					
7439-97-6	Mercury (Hg)		0.12	U	0.1	U				
7782-49-2	Selenium (Se)		0.63	U	0.54	U				
7440-22-4	Silver (Ag)		0.38	U	0.32	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-1 (0-5')		9SB-3 (0-5')		9SB-4 (0-5')		9SB-5 (0-5')		9SB-6 (0-5')		9SB-7 (0-5')	
	ORIGINAL ID ----->	CED9SB11		CED9SB31		CED9SB41		CED9SB51		CED9SB61		CED9SB71	
	SAMPLE DATE ----->	09/07/93		09/07/93		09/08/93		09/08/93		09/08/93		09/08/93	
	DATE ANALYZED --->	10/11/93		10/15/93		10/15/93		10/15/93		10/17/93		10/15/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E006	VAL	E006	VAL	E006	VAL	E006	VAL	E006	VAL	E006	VAL
100-01-6	4-Nitroaniline	20000.	U	210000.	U	80000000.	U	43000000.	U	420000.	U	8700000.	U
100-02-7	4-Nitrophenol	20000.	U	210000.	U	80000000.	U	43000000.	U	420000.	U	8700000.	U
100-51-6	Benzyl alcohol	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
101-55-3	4-Bromophenyl-phenylether	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
105-67-9	2,4-Dimethylphenol	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
106-44-5	4-Methylphenol (p-Cresol)	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
106-46-7	1,4-Dichlorobenzene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
106-47-8	4-Chloroaniline	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
108-60-1	bis(2-chloroisopropyl) ether	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
108-95-2	Phenol	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
111-44-4	bis(2-Chloroethyl)ether	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
111-91-1	bis(2-Chloroethoxy)methane	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
117-84-0	Di-n-octylphthalate	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
118-74-1	Hexachlorobenzene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
120-12-7	Anthracene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
120-82-1	1,2,4-Trichlorobenzene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
120-83-2	2,4-Dichlorophenol	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
121-14-2	2,4-Dinitrotoluene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
129-00-0	Pyrene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
131-11-3	Dimethylphthalate	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
132-64-9	Dibenzofuran	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
191-24-2	Benzo(g,h,i)perylene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
205-99-2	Benzo(b)fluoranthene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
206-44-0	Fluoranthene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
207-08-9	Benzo(k)fluoranthene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
208-96-8	Acenaphthylene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
218-01-9	Chrysene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
50-32-8	Benzo(a)pyrene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
51-28-5	2,4-Dinitrophenol	20000.	U	210000.	U	80000000.	U	43000000.	U	420000.	U	8700000.	U
534-52-1	4,6-Dinitro-2-methylphenol	20000.	U	210000.	U	80000000.	U	43000000.	U	420000.	U	8700000.	U
53-70-3	Dibenz(a,h)anthracene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
541-73-1	1,3-Dichlorobenzene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
56-55-3	Benzo(a)anthracene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
59-50-7	4-Chloro-3-methylphenol	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
606-20-2	2,6-Dinitrotoluene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
621-64-7	N-Nitroso-di-n-propylamine	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
65-85-0	Benzoic acid	20000.	U	210000.	U	80000000.	U	43000000.	U	420000.	U	8700000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID -------->	9SB-1 (0-5')		9SB-3 (0-5')		9SB-4 (0-5')		9SB-5 (0-5')		9SB-6 (0-5')		9SB-7 (0-5')	
	ORIGINAL ID ----->	CED9SB11		CED9SB31		CED9SB41		CED9SB51		CED9SB61		CED9SB71	
	SAMPLE DATE ----->	09/07/93		09/07/93		09/08/93		09/08/93		09/08/93		09/08/93	
	DATE ANALYZED --->	10/11/93		10/15/93		10/15/93		10/15/93		10/17/93		10/15/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E006	VAL	E006	VAL	E006	VAL	E006	VAL	E006	VAL	E006	VAL
67-72-1	Hexachloroethane	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
7005-72-3	4-Chlorophenyl-phenylether	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
709-98-8	Propanil	4000.	U	11000.		4000000.		8700000.	U	56000.		770000.	
77-47-4	Hexachlorocyclopentadiene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
78-59-1	Isophorone	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
83-32-9	Acenaphthene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
84-66-2	Diethylphthalate	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
84-74-2	Di-n-butylphthalate	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
85-01-8	Phenanthrene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
85-68-7	Butylbenzylphthalate	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
86-30-6	N-Nitrosodiphenylamine	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
86-73-7	Fluorene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
87-68-3	Hexachlorobutadiene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
87-86-5	Pentachlorophenol	20000.	U	210000.	U	80000000.	U	43000000.	U	420000.	U	8700000.	U
88-06-2	2,4,6-Trichlorophenol	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
88-74-4	2-Nitroaniline	20000.	U	210000.	U	80000000.	U	43000000.	U	420000.	U	8700000.	U
88-75-5	2-Nitrophenol	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
88-85-7	Dinoseb	38000.		140000.		24000000.		29000000.		420000.	U	26000000.	
91-20-3	Naphthalene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
91-57-6	2-Methylnaphthalene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
91-58-7	2-Chloronaphthalene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
91-94-1	3,3'-Dichlorobenzidine	8100.	U	84000.	U	32000000.	U	17000000.	U	170000.	U	3500000.	U
95-48-7	2-Methylphenol (o-Cresol)	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
95-50-1	1,2-Dichlorobenzene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
95-57-8	2-Chlorophenol	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
95-76-1	3,4-Dichloroaniline	4000.	U	76000.		16000000.	U	8700000.	U	19000.		450000.	
95-95-4	2,4,5-Trichlorophenol	20000.	U	210000.	U	80000000.	U	43000000.	U	420000.	U	8700000.	U
98-95-3	Nitrobenzene	4000.	U	42000.	U	16000000.	U	8700000.	U	84000.	U	1700000.	U
99-09-2	3-Nitroaniline	20000.	U	210000.	U	80000000.	U	43000000.	U	420000.	U	8700000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-8 (0-5')		9SB-9 (0-5')		9SB-10 (0-5')		9SB-11 (0-5')		9SB-12 (0-5')		9SB-13 (0-5')	
	ORIGINAL ID ----->	CED9SB8-1		CED9SB9-1		CED9SB10-1		CED9SB11-1		CED9SB12-1		CED9SB13-1	
	SAMPLE DATE ----->	09/08/93		09/08/93		09/09/93		09/09/93		09/09/93		09/09/93	
	DATE ANALYZED --->	10/13/93		10/12/93		10/12/93		10/12/93		10/13/93		10/13/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E007	VAL	E007	VAL	E007	VAL	E007	VAL	E007	VAL	E007	VAL
100-01-6	4-Nitroaniline	21000000.	U	18000000.	U	4100000.	U	4100000.	U	42000000.	U	420000.	U
100-02-7	4-Nitrophenol	21000000.	U	18000000.	U	4100000.	U	4100000.	U	42000000.	U	420000.	U
100-51-6	Benzyl alcohol	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
101-55-3	4-Bromophenyl-phenylether	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
105-67-9	2,4-Dimethylphenol	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
106-44-5	4-Methylphenol (p-Cresol)	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
106-46-7	1,4-Dichlorobenzene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
106-47-8	4-Chloroaniline	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
108-60-1	bis(2-chloroisopropyl) ether	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
108-95-2	Phenol	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
111-44-4	bis(2-Chloroethyl)ether	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
111-91-1	bis(2-Chloroethoxy)methane	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
117-84-0	Di-n-octylphthalate	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
118-74-1	Hexachlorobenzene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
120-12-7	Anthracene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
120-82-1	1,2,4-Trichlorobenzene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
120-83-2	2,4-Dichlorophenol	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
121-14-2	2,4-Dinitrotoluene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
129-00-0	Pyrene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
131-11-3	Dimethylphthalate	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
132-64-9	Dibenzofuran	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
191-24-2	Benzo(g,h,i)perylene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
205-99-2	Benzo(b)fluoranthene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
206-44-0	Fluoranthene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
207-08-9	Benzo(k)fluoranthene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
208-96-8	Acenaphthylene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
218-01-9	Chrysene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
50-32-8	Benzo(a)pyrene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
51-28-5	2,4-Dinitrophenol	21000000.	U	18000000.	U	4100000.	U	4100000.	U	42000000.	U	420000.	U
534-52-1	4,6-Dinitro-2-methylphenol	21000000.	U	18000000.	U	4100000.	U	4100000.	U	42000000.	U	420000.	U
53-70-3	Dibenz(a,h)anthracene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
541-73-1	1,3-Dichlorobenzene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
56-55-3	Benzo(a)anthracene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
59-50-7	4-Chloro-3-methylphenol	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
606-20-2	2,6-Dinitrotoluene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
621-64-7	N-Nitroso-di-n-propylamine	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
65-85-0	Benzoic acid	21000000.	U	18000000.	U	4100000.	U	4100000.	U	42000000.	U	420000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-8 (0-5')		9SB-9 (0-5')		9SB-10 (0-5')		9SB-11 (0-5')		9SB-12 (0-5')		9SB-13 (0-5')	
	ORIGINAL ID ----->	CED9SB8-1		CED9SB9-1		CED9SB10-1		CED9SB11-1		CED9SB12-1		CED9SB13-1	
	SAMPLE DATE ----->	09/08/93		09/08/93		09/09/93		09/09/93		09/09/93		09/09/93	
	DATE ANALYZED --->	10/13/93		10/12/93		10/12/93		10/12/93		10/13/93		10/13/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E007	VAL	E007	VAL	E007	VAL	E007	VAL	E007	VAL	E007	VAL
67-72-1	Hexachloroethane	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
7005-72-3	4-Chlorophenyl-phenylether	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
709-98-8	Propanil	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
77-47-4	Hexachlorocyclopentadiene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
78-59-1	Isophorone	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
83-32-9	Acenaphthene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
84-66-2	Diethylphthalate	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
84-74-2	Di-n-butylphthalate	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
85-01-8	Phenanthrene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
85-68-7	Butylbenzylphthalate	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
86-30-6	N-Nitrosodiphenylamine	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
86-73-7	Fluorene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
87-68-3	Hexachlorobutadiene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
87-86-5	Pentachlorophenol	21000000.	U	18000000.	U	4100000.	U	4100000.	U	42000000.	U	420000.	U
88-06-2	2,4,6-Trichlorophenol	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
88-74-4	2-Nitroaniline	21000000.	U	18000000.	U	4100000.	U	4100000.	U	42000000.	U	420000.	U
88-75-5	2-Nitrophenol	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
88-85-7	Dinoseb	15000000.		28000000.		650000.		160000.		13000000.		150000.	
91-20-3	Naphthalene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
91-57-6	2-Methylnaphthalene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
91-58-7	2-Chloronaphthalene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
91-94-1	3,3'-Dichlorobenzidine	8400000.	U	7400000.	U	1600000.	U	1600000.	U	17000000.	U	170000.	U
95-48-7	2-Methylphenol (o-Cresol)	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
95-50-1	1,2-Dichlorobenzene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
95-57-8	2-Chlorophenol	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
95-76-1	3,4-Dichloroaniline	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
95-95-4	2,4,5-Trichlorophenol	21000000.	U	18000000.	U	4100000.	U	4100000.	U	42000000.	U	420000.	U
98-95-3	Nitrobenzene	4200000.	U	3700000.	U	810000.	U	810000.	U	8400000.	U	83000.	U
99-09-2	3-Nitroaniline	21000000.	U	18000000.	U	4100000.	U	4100000.	U	42000000.	U	420000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-14 (0-5')		9SB-15 (0-5')		9SB-16 (0-5')		9SB-19 (0-5')			
	ORIGINAL ID ----->	CED9SB14-1		CED9SB15-1		CED9SB16-1		CED9SB191			
	SAMPLE DATE ----->	09/09/93		09/09/93		09/10/93		09/16/93			
	DATE ANALYZED --->	10/13/93		10/14/93		10/13/93		10/16/93			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E007	VAL	E007	VAL	E007	VAL	E011	VAL		
100-01-6	4-Nitroaniline	42000.	U	3600.	U	43000000.	U	100000.	U		
100-02-7	4-Nitrophenol	42000.	U	3600.	U	43000000.	U	100000.	U		
100-51-6	Benzyl alcohol	8300.	U	720.	U	85000000.	U	NR			
101-55-3	4-Bromophenyl-phenylether	8300.	U	720.	U	85000000.	U	41000.	U		
105-67-9	2,4-Dimethylphenol	8300.	U	720.	U	85000000.	U	41000.	U		
106-44-5	4-Methylphenol (p-Cresol)	8300.	U	720.	U	85000000.	U	41000.	U		
106-46-7	1,4-Dichlorobenzene	8300.	U	720.	U	85000000.	U	41000.	U		
106-47-8	4-Chloroaniline	8300.	U	720.	U	85000000.	U	41000.	U		
108-60-1	bis(2-chloroisopropyl) ether	8300.	U	720.	U	85000000.	U	41000.	U		
108-95-2	Phenol	8300.	U	720.	U	85000000.	U	41000.	U		
111-44-4	bis(2-Chloroethyl)ether	8300.	U	720.	U	85000000.	U	41000.	U		
111-91-1	bis(2-Chloroethoxy)methane	8300.	U	720.	U	85000000.	U	41000.	U		
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	8300.	U	720.	U	85000000.	U	41000.	U		
117-84-0	Di-n-octylphthalate	8300.	U	720.	U	85000000.	U	41000.	U		
118-74-1	Hexachlorobenzene	8300.	U	720.	U	85000000.	U	41000.	U		
120-12-7	Anthracene	8300.	U	720.	U	85000000.	U	41000.	U		
120-82-1	1,2,4-Trichlorobenzene	8300.	U	720.	U	85000000.	U	41000.	U		
120-83-2	2,4-Dichlorophenol	8300.	U	720.	U	85000000.	U	41000.	U		
121-14-2	2,4-Dinitrotoluene	8300.	U	720.	U	85000000.	U	41000.	U		
129-00-0	Pyrene	8300.	U	720.	U	85000000.	U	41000.	U		
131-11-3	Dimethylphthalate	8300.	U	720.	U	85000000.	U	41000.	U		
132-64-9	Dibenzofuran	8300.	U	720.	U	85000000.	U	41000.	U		
191-24-2	Benzo(g,h,i)perylene	8300.	U	720.	U	85000000.	U	41000.	U		
193-39-5	Indeno(1,2,3-cd)pyrene	8300.	U	720.	U	85000000.	U	41000.	U		
205-99-2	Benzo(b)fluoranthene	8300.	U	720.	U	85000000.	U	41000.	U		
206-44-0	Fluoranthene	8300.	U	720.	U	85000000.	U	41000.	U		
207-08-9	Benzo(k)fluoranthene	8300.	U	720.	U	85000000.	U	41000.	U		
208-96-8	Acenaphthylene	8300.	U	720.	U	85000000.	U	41000.	U		
218-01-9	Chrysene	8300.	U	720.	U	85000000.	U	41000.	U		
50-32-8	Benzo(a)pyrene	8300.	U	720.	U	85000000.	U	41000.	U		
51-28-5	2,4-Dinitrophenol	42000.	U	3600.	U	43000000.	U	100000.	U		
534-52-1	4,6-Dinitro-2-methylphenol	42000.	U	3600.	U	43000000.	U	100000.	U		
53-70-3	Dibenz(a,h)anthracene	8300.	U	720.	U	85000000.	U	41000.	U		
541-73-1	1,3-Dichlorobenzene	8300.	U	720.	U	85000000.	U	41000.	U		
56-55-3	Benzo(a)anthracene	8300.	U	720.	U	85000000.	U	41000.	U		
59-50-7	4-Chloro-3-methylphenol	8300.	U	720.	U	85000000.	U	41000.	U		
606-20-2	2,6-Dinitrotoluene	8300.	U	720.	U	85000000.	U	41000.	U		
621-64-7	N-Nitroso-di-n-propylamine	8300.	U	720.	U	85000000.	U	41000.	U		
65-85-0	Benzoic acid	42000.	U	3600.	U	43000000.	U	NR			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-14 (0-5')		9SB-15 (0-5')		9SB-16 (0-5')		9SB-19 (0-5')			
	ORIGINAL ID ----->	CED9SB14-1		CED9SB15-1		CED9SB16-1		CED9SB191			
	SAMPLE DATE ----->	09/09/93		09/09/93		09/10/93		09/16/93			
	DATE ANALYZED --->	10/13/93		10/14/93		10/13/93		10/16/93			
	MATRIX ---------->	Soil		Soil		Soil		Soil			
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG			
CAS #	Parameter	E007	VAL	E007	VAL	E007	VAL	E011	VAL		
67-72-1	Hexachloroethane	8300.	U	720.	U	85000000.	U	41000.	U		
7005-72-3	4-Chlorophenyl-phenylether	8300.	U	720.	U	85000000.	U	41000.	U		
709-98-8	Propanil	860.		720.	U	85000000.	U	100000.	U		
77-47-4	Hexachlorocyclopentadiene	8300.	U	720.	U	85000000.	U	41000.	U		
78-59-1	Isophorone	8300.	U	720.	U	85000000.	U	41000.	U		
83-32-9	Acenaphthene	8300.	U	720.	U	85000000.	U	41000.	U		
84-66-2	Diethylphthalate	8300.	U	720.	U	85000000.	U	41000.	U		
84-74-2	Di-n-butylphthalate	8300.	U	720.	U	85000000.	U	41000.	U		
85-01-8	Phenanthrene	8300.	U	720.	U	85000000.	U	41000.	U		
85-68-7	Butylbenzylphthalate	8300.	U	720.	U	85000000.	U	41000.	U		
86-30-6	N-Nitrosodiphenylamine	8300.	U	720.	U	85000000.	U	41000.	U		
86-73-7	Fluorene	8300.	U	720.	U	85000000.	U	41000.	U		
87-68-3	Hexachlorobutadiene	8300.	U	720.	U	85000000.	U	41000.	U		
87-86-5	Pentachlorophenol	42000.	U	3600.	U	43000000.	U	100000.	U		
88-06-2	2,4,6-Trichlorophenol	8300.	U	720.	U	85000000.	U	41000.	U		
88-74-4	2-Nitroaniline	42000.	U	3600.	U	43000000.	U	100000.	U		
88-75-5	2-Nitrophenol	8300.	U	720.	U	85000000.	U	41000.	U		
88-85-7	Dinoseb	9100.		8600.		15000000.	U	93000.			
91-20-3	Naphthalene	8300.	U	720.	U	85000000.	U	41000.	U		
91-57-6	2-Methylnaphthalene	8300.	U	720.	U	85000000.	U	41000.	U		
91-58-7	2-Chloronaphthalene	8300.	U	720.	U	85000000.	U	41000.	U		
91-94-1	3,3'-Dichlorobenzidine	17000.	U	1400.	U	17000000.	U	41000.	U		
95-48-7	2-Methylphenol (o-Cresol)	8300.	U	720.	U	85000000.	U	41000.	U		
95-50-1	1,2-Dichlorobenzene	8300.	U	720.	U	85000000.	U	41000.	U		
95-57-8	2-Chlorophenol	8300.	U	720.	U	85000000.	U	41000.	U		
95-76-1	3,4-Dichloroaniline	8300.	U	150.		85000000.	U	16000.			
95-95-4	2,4,5-Trichlorophenol	42000.	U	3600.	U	43000000.	U	100000.	U		
98-95-3	Nitrobenzene	8300.	U	720.	U	85000000.	U	41000.	U		
99-09-2	3-Nitroaniline	42000.	U	3600.	U	43000000.	U	NR			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SURFACE SOIL DATA

VOA									
	SHORT ID --------->	9SB-3 (0-5')		9SB-15 (0-5')					
	ORIGINAL ID ----->	CED9SB3-1		CED9SB151					
	SAMPLE DATE ----->	09/07/93		09/09/93					
	DATE ANALYZED --->	09/15/93		09/16/93					
	MATRIX ---------->	Soil		Soil					
	UNITS ----------->	UG/KG		UG/KG					
CAS #	Parameter	E006	VAL	E007	VAL				
100-41-4	Ethylbenzene	6.	U	5.	U				
100-42-5	Styrene	6.	U	5.	U				
10061-01-5	cis-1,3-Dichloropropene	6.	U	5.	U				
10061-02-6	trans-1,3-Dichloropropene	6.	U	5.	U				
107-06-2	1,2-Dichloroethane	6.	U	5.	U				
108-05-4	Vinyl acetate	6.	U	5.	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)	12.		54.	U				
108-88-3	Toluene	6.	U	5.	U				
108-90-7	Chlorobenzene	6.	U	5.	U				
124-48-1	Dibromochloromethane	6.	U	5.	U				
127-18-4	Tetrachloroethene	6.	U	5.	U				
1330-20-7	Xylene (total)	4.		5.	U				
540-59-0	1,2-Dichloroethene (total)	6.	U	5.	U				
56-23-5	Carbon tetrachloride	6.	U	5.	U				
591-78-6	2-Hexanone	65.	U	54.	U				
67-64-1	Acetone	300.		11.	U				
67-66-3	Chloroform	6.	U	5.	U				
71-43-2	Benzene	6.	U	5.	U				
71-55-6	1,1,1-Trichloroethane	6.	U	5.	U				
74-83-9	Bromomethane	13.	U	11.	U				
74-87-3	Chloromethane	13.	U	11.	U				
75-00-3	Chloroethane	13.	U	11.	U				
75-01-4	Vinyl chloride	6.	U	5.	U				
75-09-2	Methylene chloride	6.	U	5.	U				
75-15-0	Carbon disulfide	6.	U	5.	U				
75-25-2	Bromoform	6.	U	5.	U				
75-27-4	Bromodichloromethane	6.	U	5.	U				
75-34-3	1,1-Dichloroethane	6.	U	5.	U				
75-35-4	1,1-Dichloroethene	6.	U	5.	U				
78-87-5	1,2-Dichloropropane	6.	U	5.	U				
78-93-3	2-Butanone (MEK)	22.		11.	U				
79-00-5	1,1,2-Trichloroethane	6.	U	5.	U				
79-01-6	Trichloroethene	6.	U	5.	U				
79-34-5	1,1,2,2-Tetrachloroethane	6.	U	5.	U				

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SUBSURFACE SOIL DATA

PEST	SHORT ID --------->	9SB-3 (5-10')		9SB-15 (5-10')					
	ORIGINAL ID ----->	CED9SB3-2		CED9SB152					
	SAMPLE DATE ----->	09/07/93		09/09/93					
	DATE ANALYZED --->	09/17/93		09/18/93					
	MATRIX ---------->	Soil		Soil					
	UNITS ---------->	UG/KG		UG/KG					
CAS #	Parameter	E006	VAL	E007	VAL				
1024-57-3	Heptachlor Epoxide	68.	U	70.	U				
1031-07-8	Endosulfan Sulfate	54.	U	56.	U				
309-00-2	Aldrin	3.3	U	3.4	U				
319-84-6	Alpha-BHC	2.5	U	2.5	U				
319-85-7	Beta-BHC	5.	U	5.1	U				
319-86-8	Delta-BHC	7.4	U	7.6	U				
33213-65-9	Endosulfan II	3.3	U	3.4	U				
50-29-3	4,4'-DDT	9.9	U	10.	U				
5103-71-9	alpha-Chlordane	12.	U	12.	U				
5103-74-2	gamma-Chlordane	12.	U	12.	U				
53494-70-5	Endrin ketone	20.	U	20.	U				
58-89-9	gamma-BHC (Lindane)	3.3	U	3.4	U				
60-57-1	Dieldrin	1.6	U	1.7	U				
72-20-8	Endrin	5.	U	5.1	U				
72-43-5	Methoxychlor	150.	U	150.	U				
72-54-8	4,4'-DDD	9.1	U	9.3	U				
72-55-9	4,4'-DDE	3.3	U	3.4	U				
76-44-8	Heptachlor	2.5	U	2.5	U				
8001-35-2	Toxaphene	200.	U	200.	U				
959-98-8	Endosulfan I	12.	U	12.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SUBSURFACE SOIL DATA

RCRA METAL		SHORT ID --------->	9SB-3 (5-10')		9SB-15 (5-10')					
		ORIGINAL ID ----->	CED9SB3-2		CED9SB152					
		SAMPLE DATE ----->	09/07/93		09/09/93					
		DATE ANALYZED --->	10/01/93		10/01/93					
		MATRIX ---------->	Soil		Soil					
		UNITS ----------->	MG/KG		MG/KG					
CAS #	Parameter		E006	VAL	E007	VAL				
7440-38-2	Arsenic (As)		7.3		7.1					
7440-39-3	Barium (Ba)		150.		133.					
7440-43-9	Cadmium (Cd)		0.37	U	0.38	U				
7440-47-3	Chromium (Cr)		13.4		10.8					
7439-92-1	Lead (Pb)		11.2		10.3					
7439-97-6	Mercury (Hg)		0.1	u	0.12	U				
7782-49-2	Selenium (Se)		0.62	U	0.64	U				
7440-22-4	Silver (Ag)		0.37	U	0.38	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-1 (5-10')		9SB-2 (5-10')		9SB-3 (5-10')		9SB-4 (5-10')		9SB-4 (10-15')		9SB-5 (5-10')	
	ORIGINAL ID ----->	CED9SB12		CED9SB22		CED9SB32		CED9SB42		CED9SB43		CED9SB52	
	SAMPLE DATE ----->	09/07/93		09/07/93		09/07/93		09/08/93		09/08/93		09/08/93	
	DATE ANALYZED --->	10/11/93		10/15/93		10/15/93		10/15/93		10/15/93		10/14/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E006	VAL	E006	VAL	E006	VAL	E006	VAL	E006	VAL	E006	VAL
100-01-6	4-Nitroaniline	4200.	U	4200.	U	4100.	U	8200000.	U	840000.	U	43000000.	U
100-02-7	4-Nitrophenol	4200.	U	4200.	U	4100.	U	8200000.	U	840000.	U	43000000.	U
100-51-6	Benzyl alcohol	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
101-55-3	4-Bromophenyl-phenylether	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
105-67-9	2,4-Dimethylphenol	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
106-44-5	4-Methylphenol (p-Cresol)	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
106-46-7	1,4-Dichlorobenzene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
106-47-8	4-Chloroaniline	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
108-60-1	bis(2-chloroisopropyl) ether	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
108-95-2	Phenol	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
111-44-4	bis(2-Chloroethyl)ether	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
111-91-1	bis(2-Chloroethoxy)methane	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
117-84-0	Di-n-octylphthalate	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
118-74-1	Hexachlorobenzene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
120-12-7	Anthracene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
120-82-1	1,2,4-Trichlorobenzene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
120-83-2	2,4-Dichlorophenol	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
121-14-2	2,4-Dinitrotoluene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
129-00-0	Pyrene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
131-11-3	Dimethylphthalate	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
132-64-9	Dibenzofuran	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
191-24-2	Benzo(g,h,i)perylene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
205-99-2	Benzo(b)fluoranthene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
206-44-0	Fluoranthene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
207-08-9	Benzo(k)fluoranthene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
208-96-8	Acenaphthylene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
218-01-9	Chrysene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
50-32-8	Benzo(a)pyrene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
51-28-5	2,4-Dinitrophenol	4200.	U	3400.		4100.	U	8200000.	U	840000.	U	43000000.	U
534-52-1	4,6-Dinitro-2-methylphenol	4200.	U	4200.	U	4100.	U	8200000.	U	840000.	U	43000000.	U
53-70-3	Dibenz(a,h)anthracene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
541-73-1	1,3-Dichlorobenzene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
56-55-3	Benzo(a)anthracene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
59-50-7	4-Chloro-3-methylphenol	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
606-20-2	2,6-Dinitrotoluene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
621-64-7	N-Nitroso-di-n-propylamine	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
65-85-0	Benzoic acid	4200.	U	4200.	U	4100.	U	8200000.	U	840000.	U	43000000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-1 (5-10')		9SB-2 (5-10')		9SB-3 (5-10')		9SB-4 (5-10')		9SB-4 (10-15')		9SB-5 (5-10')	
	ORIGINAL ID ----->	CED9SB12		CED9SB22		CED9SB32		CED9SB42		CED9SB43		CED9SB52	
	SAMPLE DATE ----->	09/07/93		09/07/93		09/07/93		09/08/93		09/08/93		09/08/93	
	DATE ANALYZED --->	10/11/93		10/15/93		10/15/93		10/15/93		10/15/93		10/14/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E006	VAL	E006	VAL	E006	VAL	E006	VAL	E006	VAL	E006	VAL
67-72-1	Hexachloroethane	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
7005-72-3	4-Chlorophenyl-phenylether	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
709-98-8	Propanil	310.		150.		820.	U	1600000.	U	170000.	U	8600000.	U
77-47-4	Hexachlorocyclopentadiene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
78-59-1	Isophorone	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
83-32-9	Acenaphthene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
84-66-2	Diethylphthalate	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
84-74-2	Di-n-butylphthalate	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
85-01-8	Phenanthrene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
85-68-7	Butylbenzylphthalate	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
86-30-6	N-Nitrosodiphenylamine	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
86-73-7	Fluorene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
87-68-3	Hexachlorobutadiene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
87-86-5	Pentachlorophenol	4200.	U	4200.	U	4100.	U	8200000.	U	840000.	U	43000000.	U
88-06-2	2,4,6-Trichlorophenol	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
88-74-4	2-Nitroaniline	4200.	U	4200.	U	4100.	U	8200000.	U	840000.	U	43000000.	U
88-75-5	2-Nitrophenol	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
88-85-7	Dinoseb	9600.		1600.		4100.	U	8500000.		550000.		4100000.	
91-20-3	Naphthalene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
91-57-6	2-Methylnaphthalene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
91-58-7	2-Chloronaphthalene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
91-94-1	3,3'-Dichlorobenzidine	1700.	U	1700.	U	1600.	U	3300000.	U	340000.	U	17000000.	U
95-48-7	2-Methylphenol (o-Cresol)	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
95-50-1	1,2-Dichlorobenzene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
95-57-8	2-Chlorophenol	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
95-76-1	3,4-Dichloroaniline	840.	U	840.	U	130.		1600000.	U	170000.	U	8600000.	U
95-95-4	2,4,5-Trichlorophenol	4200.	U	4200.	U	4100.	U	8200000.	U	840000.	U	43000000.	U
98-95-3	Nitrobenzene	840.	U	840.	U	820.	U	1600000.	U	170000.	U	8600000.	U
99-09-2	3-Nitroaniline	4200.	U	4200.	U	4100.	U	8200000.	U	840000.	U	43000000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-5 (10-15')		9SB-6 (5-10')		9SB-7 (5-10')		9SB-7 (10-15')		9SB-8 (5-10')		9SB-9 (5-10')	
	ORIGINAL ID ----->	CED9SB53		CED9SB62		CED9SB7-2		CED9SB7-3		CED9SB8-2		CED9SB9-2	
	SAMPLE DATE ----->	09/08/93		09/08/93		09/08/93		09/08/93		09/08/93		09/08/93	
	DATE ANALYZED --->	10/14/93		10/14/93		10/13/93		10/12/93		10/11/93		10/12/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E006	VAL	E006	VAL	E007	VAL	E007	VAL	E007	VAL	E007	VAL
100-01-6	4-Nitroaniline	2100000.	U	420000.	U	4600000.	U	420000.	U	41000.	U	81000.	U
100-02-7	4-Nitrophenol	2100000.	U	420000.	U	4600000.	U	420000.	U	8200.	U	81000.	U
100-51-6	Benzyl alcohol	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
101-55-3	4-Bromophenyl-phenylether	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
105-67-9	2,4-Dimethylphenol	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
106-44-5	4-Methylphenol (p-Cresol)	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
106-46-7	1,4-Dichlorobenzene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
106-47-8	4-Chloroaniline	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
108-60-1	bis(2-chloroisopropyl) ether	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
108-95-2	Phenol	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
111-44-4	bis(2-Chloroethyl)ether	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
111-91-1	bis(2-Chloroethoxy)methane	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
117-84-0	Di-n-octylphthalate	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
118-74-1	Hexachlorobenzene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
120-12-7	Anthracene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
120-82-1	1,2,4-Trichlorobenzene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
120-83-2	2,4-Dichlorophenol	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
121-14-2	2,4-Dinitrotoluene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
129-00-0	Pyrene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
131-11-3	Dimethylphthalate	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
132-64-9	Dibenzofuran	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
191-24-2	Benzo(g,h,i)perylene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
205-99-2	Benzo(b)fluoranthene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
206-44-0	Fluoranthene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
207-08-9	Benzo(k)fluoranthene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
208-96-8	Acenaphthylene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
218-01-9	Chrysene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
50-32-8	Benzo(a)pyrene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
51-28-5	2,4-Dinitrophenol	2100000.	U	420000.	U	4600000.	U	420000.	U	41000.	U	81000.	U
534-52-1	4,6-Dinitro-2-methylphenol	2100000.	U	420000.	U	4600000.	U	420000.	U	41000.	U	81000.	U
53-70-3	Dibenz(a,h)anthracene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
541-73-1	1,3-Dichlorobenzene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
56-55-3	Benzo(a)anthracene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
59-50-7	4-Chloro-3-methylphenol	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
606-20-2	2,6-Dinitrotoluene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
621-64-7	N-Nitroso-di-n-propylamine	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
65-85-0	Benzoic acid	2100000.	U	420000.	U	4600000.	U	420000.	U	41000.	U	81000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-5 (10-15')		9SB-6 (5-10')		9SB-7 (5-10')		9SB-7 (10-15')		9SB-8 (5-10')		9SB-9 (5-10')	
	ORIGINAL ID ----->	CED9SB53		CED9SB62		CED9SB7-2		CED9SB7-3		CED9SB8-2		CED9SB9-2	
	SAMPLE DATE ----->	09/08/93		09/08/93		09/08/93		09/08/93		09/08/93		09/08/93	
	DATE ANALYZED --->	10/14/93		10/14/93		10/13/93		10/12/93		10/11/93		10/12/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E006	VAL	E006	VAL	E007	VAL	E007	VAL	E007	VAL	E007	VAL
67-72-1	Hexachloroethane	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
7005-72-3	4-Chlorophenyl-phenylether	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
709-98-8	Propanil	420000.	U	8600.		910000.	U	83000.	U	8200.	U	16000.	U
77-47-4	Hexachlorocyclopentadiene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
78-59-1	Isophorone	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
83-32-9	Acenaphthene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
84-66-2	Diethylphthalate	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
84-74-2	Di-n-butylphthalate	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
85-01-8	Phenanthrene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
85-68-7	Butylbenzylphthalate	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
86-30-6	N-Nitrosodiphenylamine	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
86-73-7	Fluorene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
87-68-3	Hexachlorobutadiene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
87-86-5	Pentachlorophenol	2100000.	U	420000.	U	4600000.	U	420000.	U	41000.	U	81000.	U
88-06-2	2,4,6-Trichlorophenol	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
88-74-4	2-Nitroaniline	2100000.	U	420000.	U	4600000.	U	420000.	U	41000.	U	81000.	U
88-75-5	2-Nitrophenol	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
88-85-7	Dinoseb	1700000.		420000.	U	6400000.		360000.		13000.		90000.	
91-20-3	Naphthalene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
91-57-6	2-Methylnaphthalene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
91-58-7	2-Chloronaphthalene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
91-94-1	3,3'-Dichlorobenzidine	840000.	U	170000.	U	1800000.	U	170000.	U	16000.	U	32000.	U
95-48-7	2-Methylphenol (o-Cresol)	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
95-50-1	1,2-Dichlorobenzene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
95-57-8	2-Chlorophenol	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
95-76-1	3,4-Dichloroaniline	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
95-95-4	2,4,5-Trichlorophenol	2100000.	U	420000.	U	4600000.	U	420000.	U	41000.	U	81000.	U
98-95-3	Nitrobenzene	420000.	U	84000.	U	910000.	U	83000.	U	8200.	U	16000.	U
99-09-2	3-Nitroaniline	2100000.	U	420000.	U	4600000.	U	420000.	U	41000.	U	81000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-10 (5-10')		9SB-11 (5-10')		9SB-12 (5-10')		9SB-13 (5-10')		9SB-14 (5-10')		9SB-15 (5-10')	
	ORIGINAL ID ----->	CED9SB10-2		CED9SB11-2		CED9SB12-2		CED9SB13-2		CED9SB14-2		CED9SB15-2	
	SAMPLE DATE ----->	09/09/93		09/09/93		09/09/93		09/09/93		09/09/93		09/09/93	
	DATE ANALYZED --->	10/12/93		10/13/93		10/13/93		10/13/93		10/13/93		10/14/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E007	VAL	E007	VAL	E007	VAL	E007	VAL	E007	VAL	E007	VAL
100-01-6	4-Nitroaniline	41000.	U	210000.	U	420000.	U	42000.	U	42000.	U	42000.	U
100-02-7	4-Nitrophenol	41000.	U	210000.	U	420000.	U	42000.	U	42000.	U	42000.	U
100-51-6	Benzyl alcohol	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
101-55-3	4-Bromophenyl-phenylether	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
105-67-9	2,4-Dimethylphenol	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
106-44-5	4-Methylphenol (p-Cresol)	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
106-46-7	1,4-Dichlorobenzene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
106-47-8	4-Chloroaniline	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
108-60-1	bis(2-chloroisopropyl) ether	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
108-95-2	Phenol	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
111-44-4	bis(2-Chloroethyl)ether	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
111-91-1	bis(2-Chloroethoxy)methane	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
117-84-0	Di-n-octylphthalate	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
118-74-1	Hexachlorobenzene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
120-12-7	Anthracene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
120-82-1	1,2,4-Trichlorobenzene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
120-83-2	2,4-Dichlorophenol	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
121-14-2	2,4-Dinitrotoluene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
129-00-0	Pyrene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
131-11-3	Dimethylphthalate	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
132-64-9	Dibenzofuran	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
191-24-2	Benzo(g,h,i)perylene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
193-39-5	Indeno(1,2,3-cd)pyrene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
205-99-2	Benzo(b)fluoranthene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
206-44-0	Fluoranthene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
207-08-9	Benzo(k)fluoranthene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
208-96-8	Acenaphthylene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
218-01-9	Chrysene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
50-32-8	Benzo(a)pyrene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
51-28-5	2,4-Dinitrophenol	41000.	U	210000.	U	420000.	U	42000.	U	42000.	U	42000.	U
534-52-1	4,6-Dinitro-2-methylphenol	41000.	U	210000.	U	420000.	U	42000.	U	42000.	U	42000.	U
53-70-3	Dibenz(a,h)anthracene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
541-73-1	1,3-Dichlorobenzene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
56-55-3	Benzo(a)anthracene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
59-50-7	4-Chloro-3-methylphenol	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
606-20-2	2,6-Dinitrotoluene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
621-64-7	N-Nitroso-di-n-propylamine	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
65-85-0	Benzoic acid	41000.	U	210000.	U	420000.	U	42000.	U	42000.	U	42000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-10 (5-10')		9SB-11 (5-10')		9SB-12 (5-10')		9SB-13 (5-10')		9SB-14 (5-10')		9SB-15 (5-10')	
	ORIGINAL ID ----->	CED9SB10-2		CED9SB11-2		CED9SB12-2		CED9SB13-2		CED9SB14-2		CED9SB15-2	
	SAMPLE DATE ----->	09/09/93		09/09/93		09/09/93		09/09/93		09/09/93		09/09/93	
	DATE ANALYZED --->	10/12/93		10/13/93		10/13/93		10/13/93		10/13/93		10/14/93	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	E007	VAL	E007	VAL	E007	VAL	E007	VAL	E007	VAL	E007	VAL
67-72-1	Hexachloroethane	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
7005-72-3	4-Chlorophenyl-phenylether	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
709-98-8	Propanil	8200.	U	41000.		83000.	U	8400.	U	3300.		8400.	U
77-47-4	Hexachlorocyclopentadiene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
78-59-1	Isophorone	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
83-32-9	Acenaphthene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
84-66-2	Diethylphthalate	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
84-74-2	Di-n-butylphthalate	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
85-01-8	Phenanthrene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
85-68-7	Butylbenzylphthalate	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
86-30-6	N-Nitrosodiphenylamine	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
86-73-7	Fluorene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
87-68-3	Hexachlorobutadiene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
87-86-5	Pentachlorophenol	41000.	U	210000.	U	420000.	U	42000.	U	42000.	U	42000.	U
88-06-2	2,4,6-Trichlorophenol	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
88-74-4	2-Nitroaniline	41000.	U	210000.	U	420000.	U	42000.	U	42000.	U	42000.	U
88-75-5	2-Nitrophenol	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
88-85-7	Dinoseb	40000.		170000.		320000.		34000.		35000.		22000.	
91-20-3	Naphthalene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
91-57-6	2-Methylnaphthalene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
91-58-7	2-Chloronaphthalene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
91-94-1	3,3'-Dichlorobenzidine	16000.	U	82000.	U	170000.	U	17000.	U	17000.	U	17000.	U
95-48-7	2-Methylphenol (o-Cresol)	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
95-50-1	1,2-Dichlorobenzene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
95-57-8	2-Chlorophenol	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
95-76-1	3,4-Dichloroaniline	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
95-95-4	2,4,5-Trichlorophenol	41000.	U	210000.	U	420000.	U	42000.	U	42000.	U	42000.	U
98-95-3	Nitrobenzene	8200.	U	41000.	U	83000.	U	8400.	U	8300.	U	8400.	U
99-09-2	3-Nitroaniline	41000.	U	210000.	U	420000.	U	42000.	U	42000.	U	42000.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SUBSURFACE SOIL DATA

SVOA									
	SHORT ID --------->	9SB-16 (5-10')		9SB-19 (5-10')					
	ORIGINAL ID ----->	CED9SB16-2		CED9SB192					
	SAMPLE DATE ----->	09/10/93		09/16/93					
	DATE ANALYZED --->	10/11/93		10/16/93					
	MATRIX ---------->	Soil		Soil					
	UNITS ----------->	UG/KG		UG/KG					
CAS #	Parameter	E007	VAL	E011	VAL				
100-01-6	4-Nitroaniline	42000.	U	10000.	U				
100-02-7	4-Nitrophenol	42000.	U	10000.	U				
100-51-6	Benzyl alcohol	8300.	U	NR					
101-55-3	4-Bromophenyl-phenylether	8300.	U	4100.	U				
105-67-9	2,4-Dimethylphenol	8300.	U	4100.	U				
106-44-5	4-Methylphenol (p-Cresol)	8300.	U	4100.	U				
106-46-7	1,4-Dichlorobenzene	8300.	U	4100.	U				
106-47-8	4-Chloroaniline	8300.	U	4100.	U				
108-60-1	bis(2-chloroisopropyl) ether	8300.	U	4100.	U				
108-95-2	Phenol	8300.	U	4100.	U				
111-44-4	bis(2-Chloroethyl)ether	8300.	U	4100.	U				
111-91-1	bis(2-Chloroethoxy)methane	8300.	U	4100.	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	8300.	U	4100.	U				
117-84-0	Di-n-octylphthalate	8300.	U	4100.	U				
118-74-1	Hexachlorobenzene	8300.	U	4100.	U				
120-12-7	Anthracene	8300.	U	4100.	U				
120-82-1	1,2,4-Trichlorobenzene	8300.	U	4100.	U				
120-83-2	2,4-Dichlorophenol	8300.	U	4100.	U				
121-14-2	2,4-Dinitrotoluene	8300.	U	4100.	U				
129-00-0	Pyrene	8300.	U	4100.	U				
131-11-3	Dimethylphthalate	8300.	U	4100.	U				
132-64-9	Dibenzofuran	8300.	U	4100.	U				
191-24-2	Benzo(g,h,i)perylene	8300.	U	4100.	U				
193-39-5	Indeno(1,2,3-cd)pyrene	8300.	U	4100.	U				
205-99-2	Benzo(b)fluoranthene	8300.	U	4100.	U				
206-44-0	Fluoranthene	8300.	U	4100.	U				
207-08-9	Benzo(k)fluoranthene	8300.	U	4100.	U				
208-96-8	Acenaphthylene	8300.	U	4100.	U				
218-01-9	Chrysene	8300.	U	4100.	U				
50-32-8	Benzo(a)pyrene	8300.	U	4100.	U				
51-28-5	2,4-Dinitrophenol	42000.	U	10000.	U				
534-52-1	4,6-Dinitro-2-methylphenol	42000.	U	10000.	U				
53-70-3	Dibenz(a,h)anthracene	8300.	U	4100.	U				
541-73-1	1,3-Dichlorobenzene	8300.	U	4100.	U				
56-55-3	Benzo(a)anthracene	8300.	U	4100.	U				
59-50-7	4-Chloro-3-methylphenol	8300.	U	4100.	U				
606-20-2	2,6-Dinitrotoluene	8300.	U	4100.	U				
621-64-7	N-Nitroso-di-n-propylamine	8300.	U	4100.	U				
65-85-0	Benzoic acid	42000.	U	NR					

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SUBSURFACE SOIL DATA

SVOA		SHORT ID --------->	9SB-16 (5-10')		9SB-19 (5-10')					
		ORIGINAL ID ----->	CED9SB16-2		CED9SB192					
		SAMPLE DATE ----->	09/10/93		09/16/93					
		DATE ANALYZED --->	10/11/93		10/16/93					
		MATRIX ---------->	Soil		Soil					
		UNITS ----------->	UG/KG		UG/KG					
CAS #	Parameter		E007	VAL	E011	VAL				
67-72-1	Hexachloroethane		8300.	U	4100.	U				
7005-72-3	4-Chlorophenyl-phenylether		8300.	U	4100.	U				
709-98-8	Propanil		8300.	U	1300.					
77-47-4	Hexachlorocyclopentadiene		8300.	U	4100.	U				
78-59-1	Isophorone		8300.	U	4100.	U				
83-32-9	Acenaphthene		8300.	U	4100.	U				
84-66-2	Diethylphthalate		8300.	U	4100.	U				
84-74-2	Di-n-butylphthalate		8300.	U	4100.	U				
85-01-8	Phenanthrene		8300.	U	4100.	U				
85-68-7	Butylbenzylphthalate		8300.	U	4100.	U				
86-30-6	N-Nitrosodiphenylamine		8300.	U	4100.	U				
86-73-7	Fluorene		8300.	U	4100.	U				
87-68-3	Hexachlorobutadiene		8300.	U	4100.	U				
87-86-5	Pentachlorophenol		42000.	U	10000.	U				
88-06-2	2,4,6-Trichlorophenol		8300.	U	4100.	U				
88-74-4	2-Nitroaniline		42000.	U	10000.	U				
88-75-5	2-Nitrophenol		8300.	U	4100.	U				
88-85-7	Dinoseb		9200.		17000.					
91-20-3	Naphthalene		8300.	U	4100.	U				
91-57-6	2-Methylnaphthalene		8300.	U	4100.	U				
91-58-7	2-Chloronaphthalene		8300.	U	4100.	U				
91-94-1	3,3'-Dichlorobenzidine		17000.	U	4100.	U				
95-48-7	2-Methylphenol (o-Cresol)		8300.	U	4100.	U				
95-50-1	1,2-Dichlorobenzene		8300.	U	4100.	U				
95-57-8	2-Chlorophenol		8300.	U	4100.	U				
95-76-1	3,4-Dichloroaniline		8300.	U	1300.					
95-95-4	2,4,5-Trichlorophenol		42000.	U	10000.	U				
98-95-3	Nitrobenzene		8300.	U	4100.	U				
99-09-2	3-Nitroaniline		42000.	U	NR					

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE I SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	9SB-3 (5-10')		9SB-15 (5-10')					
	ORIGINAL ID ----->	CED9SB3-2		CED9SB152					
	SAMPLE DATE ----->	09/07/93		09/09/93					
	DATE ANALYZED --->	09/15/93		09/16/93					
	MATRIX ---------->	Soil		Soil					
	UNITS ----------->	UG/KG		UG/KG					
CAS #	Parameter	E006	VAL	E007	VAL				
100-41-4	Ethylbenzene	15.	U	6.	U				
100-42-5	Styrene	15.	U	6.	U				
10061-01-5	cis-1,3-Dichloropropene	15.	U	6.	U				
10061-02-6	trans-1,3-Dichloropropene	15.	U	6.	U				
107-06-2	1,2-Dichloroethane	15.	U	6.	U				
108-05-4	Vinyl acetate	15.	U	6.	U				
108-10-1	4-Methyl-2-Pentanone (MIBK)	19.		65.	U				
108-88-3	Toluene	15.	U	6.	U				
108-90-7	Chlorobenzene	15.	U	6.	U				
124-48-1	Dibromochloromethane	15.	U	6.	U				
127-18-4	Tetrachloroethene	15.	U	6.	U				
1330-20-7	Xylene (total)	15.	U	6.	U				
540-59-0	1,2-Dichloroethene (total)	15.	U	6.	U				
56-23-5	Carbon tetrechloride	15.	U	6.	U				
591-78-6	2-Hexanone	150.	U	65.	U				
67-64-1	Acetone	1200.		13.	U				
67-66-3	Chloroform	15.	U	6.	U				
71-43-2	Benzene	15.	U	6.	U				
71-55-6	1,1,1-Trichloroethane	15.	U	6.	U				
74-83-9	Bromomethane	29.	U	13.	U				
74-87-3	Chloromethane	29.	U	13.	U				
75-00-3	Chloroethane	29.	U	13.	U				
75-01-4	Vinyl chloride	15.	U	6.	U				
75-09-2	Methylene chloride	15.	U	6.	U				
75-15-0	Carbon disulfide	15.	U	6.	U				
75-25-2	Bromoform	15.	U	6.	U				
75-27-4	Bromodichloromethane	15.	U	6.	U				
75-34-3	1,1-Dichloroethane	15.	U	6.	U				
75-35-4	1,1-Dichloroethene	15.	U	6.	U				
78-87-5	1,2-Dichloropropane	15.	U	6.	U				
78-93-3	2-Butanone (MEK)	29.	U	13.	U				
79-00-5	1,1,2-Trichloroethane	15.	U	6.	U				
79-01-6	Trichloroethene	15.	U	6.	U				
79-34-5	1,1,2,2-Tetrachloroethane	15.	U	6.	U				

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE II SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-20 (25-27')		9SB-20 (30-32')		9SB-21 (23-25')		9SB-21 (25-27')		9SB-22 (15-17')		9SB-22 (17-19')	
	ORIGINAL ID ----->	009S002004		009S002005		009S002103		009S002105		009S002202		009S002203	
	SAMPLE DATE ----->	12/07/94		12/07/94		12/07/94		12/07/94		12/09/94		12/09/94	
	DATE EXTRACTED -->	12/12/94		12/12/94		12/12/94		12/12/94		12/13/94		12/13/94	
	DATE ANALYZED --->	12/14/94		12/14/94		12/19/94		12/15/94		12/16/94		12/16/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL
108-95-2	Phenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
111-44-4	bis(2-Chloroethyl)ether	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
95-57-8	2-Chlorophenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
541-73-1	1,3-Dichlorobenzene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
106-46-7	1,4-Dichlorobenzene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
100-51-6	Benzyl alcohol	1300.	U	1300.	U	5200.	U	1300.	U	1300.	U	1300.	U
95-50-1	1,2-Dichlorobenzene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
95-48-7	2-Methylphenol (o-Cresol)	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
108-60-1	bis(2-chloroisopropyl) ether	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
106-44-5	4-Methylphenol (p-Cresol)	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
621-64-7	N-Nitroso-di-n-propylamine	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
67-72-1	Hexachloroethane	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
98-95-3	Nitrobenzene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
78-59-1	Isophorone	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
88-75-5	2-Nitrophenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
105-67-9	2,4-Dimethylphenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
111-91-1	bis(2-Chloroethoxy)methane	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
120-83-2	2,4-Dichlorophenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
120-82-1	1,2,4-Trichlorobenzene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
91-20-3	Naphthalene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
87-68-3	Hexachlorobutadiene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
59-50-7	4-Chloro-3-methylphenol	1300.	U	1300.	U	5200.	U	1300.	U	1300.	U	1300.	U
91-57-6	2-Methylnaphthalene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
77-47-4	Hexachlorocyclopentadiene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
88-06-2	2,4,6-Trichlorophenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
95-95-4	2,4,5-Trichlorophenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
91-58-7	2-Chloronaphthalene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
88-74-4	2-Nitroaniline	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
131-11-3	Dimethylphthalate	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
208-96-8	Acenaphthylene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
99-09-2	3-Nitroaniline	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
83-32-9	Acenaphthene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
51-28-5	2,4-Dinitrophenol	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
100-02-7	4-Nitrophenol	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
132-64-9	Dibenzofuran	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
121-14-2	2,4-Dinitrotoluene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
606-20-2	2,6-Dinitrotoluene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
84-66-2	Diethylphthalate	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE II SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	9S8-20 (25-27')		9S8-20 (30-32')		9S8-21 (23-25')		9S8-21 (25-27')		9S8-22 (15-17')		9S8-22 (17-19')	
	ORIGINAL ID ----->	009S002004		009S002005		009S002103		009S002105		009S002202		009S002203	
	SAMPLE DATE ----->	12/07/94		12/07/94		12/07/94		12/07/94		12/09/94		12/09/94	
	DATE EXTRACTED -->	12/12/94		12/12/94		12/12/94		12/12/94		12/13/94		12/13/94	
	DATE ANALYZED --->	12/14/94		12/14/94		12/19/94		12/15/94		12/16/94		12/16/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL
7005-72-3	4-Chlorophenyl-phenylether	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
86-73-7	Fluorene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
100-01-6	4-Nitroaniline	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
534-52-1	4,6-Dinitro-2-methylphenol	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
86-30-6	N-Nitrosodiphenylamine	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
101-55-3	4-Bromophenyl-phenylether	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
118-74-1	Hexachlorobenzene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
87-86-5	Pentachlorophenol	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
85-01-8	Phenanthrene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
120-12-7	Anthracene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
206-44-0	Fluoranthene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
129-00-0	Pyrene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
85-68-7	Butylbenzylphthalate	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
91-94-1	3,3'-Dichlorobenzidine	1300.	U	1300.	U	5200.	U	1300.	U	1300.	U	1300.	U
56-55-3	Benzo(a)anthracene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
218-01-9	Chrysene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
117-84-0	Di-n-octylphthalate	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
205-99-2	Benzo(b)fluoranthene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
207-08-9	Benzo(k)fluoranthene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
50-32-8	Benzo(a)pyrene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
193-39-5	Indeno(1,2,3-cd)pyrene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
53-70-3	Dibenz(a,h)anthracene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
191-24-2	Benzo(g,h,i)perylene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
88-85-7	Dinoseb	462.	U	462.	U	7400.		690.		880.		4000.	
65-85-0	Benzoic acid	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
106-47-8	4-Chloroaniline	1300.	U	1300.	U	5200.	U	1300.	U	1300.	U	1300.	U
84-74-2	Di-n-butylphthalate	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE II SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	9SB-20 (25-27')		9SB-20 (30-32')		9SB-21 (23-25')		9SB-21 (25-27')		9SB-22 (15-17')		9SB-22 (17-19')	
	ORIGINAL ID ----->	009S002004		009S002005		009S002103		009S002105		009S002202		009S002203	
	SAMPLE DATE ----->	12/07/94		12/07/94		12/07/94		12/07/94		12/09/94		12/09/94	
	DATE EXTRACTED -->	12/13/94		12/13/94		12/13/94		12/13/94		12/20/94		12/20/94	
	DATE ANALYZED --->	12/12/94		12/14/94		12/12/94		12/12/94		12/20/94		12/20/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL
74-87-3	Chloromethane	40.	U	50.	U	50.	U	50.	U	250.	U	10.	U
74-83-9	Bromomethane	40.	U	50.	U	50.	U	50.	U	250.	U	10.	U
75-01-4	Vinyl chloride	40.	U	50.	U	50.	U	50.	U	250.	U	10.	U
75-00-3	Chloroethane	40.	U	50.	U	50.	U	50.	U	250.	U	10.	U
75-09-2	Methylene chloride	840.		100.	U	170.		100.	U	500.	U	20.	U
67-64-1	Acetone	4300.		12000.		1200.		1400.		44000.		110.	
75-15-0	Carbon disulfide	400.	U	500.	U	500.	U	500.	U	2500.	U	100.	U
75-35-4	1,1-Dichloroethene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
75-34-3	1,1-Dichloroethane	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
156-60-5	trans-1,2-Dichloroethene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
67-66-3	Chloroform	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
107-06-2	1,2-Dichloroethane	730.		120.		25.	U	25.	U	130.	U	5.	U
78-93-3	2-Butanone (MEK)	2100.		500.	U	1700.		2400.		6700.		100.	U
71-55-6	1,1,1-Trichloroethane	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
56-23-5	Carbon tetrachloride	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
108-05-4	Vinyl acetate	200.	U	250.	U	250.	U	250.	U	1200.	U	50.	U
75-27-4	Bromodichloromethane	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
78-87-5	1,2-Dichloropropane	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
79-01-6	Trichloroethene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
124-48-1	Dibromochloromethane	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
79-00-5	1,1,2-Trichloroethane	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
71-43-2	Benzene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
110-75-8	2-Chloroethylvinylether	40.	U	50.	U	50.	U	50.	U	250.	U	10.	U
75-25-2	Bromoform	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
591-78-6	2-Hexanone	200.	U	250.	U	250.	U	250.	U	1200.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	200.	U	250.	U	250.	U	250.	U	1200.	U	50.	U
127-18-4	Tetrachloroethene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
108-88-3	Toluene	960.		25.	U	25.	U	25.	U	130.	U	5.	U
108-90-7	Chlorobenzene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
100-41-4	Ethylbenzene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
100-42-5	Styrene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
1330-20-7	Xylene (total)	20.	U	25.	U	25.	U	25.	U	140.		12.	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-20 (10-12')		9SB-21 (10-12')		9SB-22 (10-12')				
	ORIGINAL ID ----->	009S002001		009S002101		009S002201				
	SAMPLE DATE ----->	12/07/94		12/07/94		12/09/94				
	DATE EXTRACTED -->	12/12/94		12/12/94		12/13/94				
	DATE ANALYZED --->	12/14/94		12/19/94		12/16/94				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL			
108-95-2	Phenol	660.	U	2640.	U	3300.	U			
111-44-4	bis(2-Chloroethyl)ether	660.	U	2640.	U	3300.	U			
95-57-8	2-Chlorophenol	660.	U	2640.	U	3300.	U			
541-73-1	1,3-Dichlorobenzene	660.	U	2640.	U	3300.	U			
106-46-7	1,4-Dichlorobenzene	660.	U	2640.	U	3300.	U			
100-51-6	Benzyl alcohol	1300.	U	5200.	U	6500.	U			
95-50-1	1,2-Dichlorobenzene	660.	U	2640.	U	3300.	U			
95-48-7	2-Methylphenol (o-Cresol)	660.	U	2640.	U	3300.	U			
108-60-1	bis(2-chloroisopropyl) ether	660.	U	2640.	U	3300.	U			
106-44-5	4-Methylphenol (p-Cresol)	660.	U	2640.	U	3300.	U			
621-64-7	N-Nitroso-di-n-propylamine	660.	U	2640.	U	3300.	U			
67-72-1	Hexachloroethane	660.	U	2640.	U	3300.	U			
98-95-3	Nitrobenzene	660.	U	2640.	U	3300.	U			
78-59-1	Isophorone	660.	U	2640.	U	3300.	U			
88-75-5	2-Nitrophenol	660.	U	2640.	U	3300.	U			
105-67-9	2,4-Dimethylphenol	660.	U	2640.	U	3300.	U			
111-91-1	bis(2-Chloroethoxy)methane	660.	U	2640.	U	3300.	U			
120-83-2	2,4-Dichlorophenol	660.	U	2640.	U	3300.	U			
120-82-1	1,2,4-Trichlorobenzene	660.	U	2640.	U	3300.	U			
91-20-3	Naphthalene	660.	U	2640.	U	3300.	U			
87-68-3	Hexachlorobutadiene	660.	U	2640.	U	3300.	U			
59-50-7	4-Chloro-3-methylphenol	1300.	U	5200.	U	6500.	U			
91-57-6	2-Methylnaphthalene	660.	U	2640.	U	3300.	U			
77-47-4	Hexachlorocyclopentadiene	660.	U	2640.	U	3300.	U			
88-06-2	2,4,6-Trichlorophenol	660.	U	2640.	U	3300.	U			
95-95-4	2,4,5-Trichlorophenol	660.	U	2640.	U	3300.	U			
91-58-7	2-Chloronaphthalene	660.	U	2640.	U	3300.	U			
88-74-4	2-Nitroaniline	3300.	U	13200.	U	16500.	U			
131-11-3	Dimethylphthalate	660.	U	2640.	U	3300.	U			
208-96-8	Acenaphthylene	660.	U	2640.	U	3300.	U			
99-09-2	3-Nitroaniline	3300.	U	13200.	U	16500.	U			
83-32-9	Acenaphthene	660.	U	2640.	U	3300.	U			
51-28-5	2,4-Dinitrophenol	3300.	U	13200.	U	16500.	U			
100-02-7	4-Nitrophenol	3300.	U	13200.	U	16500.	U			
132-64-9	Dibenzofuran	660.	U	2640.	U	3300.	U			
121-14-2	2,4-Dinitrotoluene	660.	U	2640.	U	3300.	U			
606-20-2	2,6-Dinitrotoluene	660.	U	2640.	U	3300.	U			
84-66-2	Diethylphthalate	660.	U	2640.	U	3300.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE II SURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-20 (10-12')		9SB-21 (10-12')		9SB-22 (10-12')				
	ORIGINAL ID ----->	009S002001		009S002101		009S002201				
	SAMPLE DATE ----->	12/07/94		12/07/94		12/09/94				
	DATE EXTRACTED -->	12/12/94		12/12/94		12/13/94				
	DATE ANALYZED --->	12/14/94		12/19/94		12/16/94				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL			
7005-72-3	4-Chlorophenyl-phenylether	660.	U	2640.	U	3300.	U			
86-73-7	Fluorene	660.	U	2640.	U	3300.	U			
100-01-6	4-Nitroaniline	3300.	U	13200.	U	16500.	U			
534-52-1	4,6-Dinitro-2-methylphenol	3300.	U	13200.	U	16500.	U			
86-30-6	N-Nitrosodiphenylamine	660.	U	2640.	U	3300.	U			
101-55-3	4-Bromophenyl-phenylether	660.	U	2640.	U	3300.	U			
118-74-1	Hexachlorobenzene	660.	U	2640.	U	3300.	U			
87-86-5	Pentachlorophenol	3300.	U	13200.	U	16500.	U			
85-01-8	Phenanthrene	660.	U	2640.	U	3300.	U			
120-12-7	Anthracene	660.	U	2640.	U	3300.	U			
206-44-0	Fluoranthene	660.	U	2640.	U	3300.	U			
129-00-0	Pyrene	660.	U	2640.	U	3300.	U			
85-68-7	Butylbenzylphthalate	660.	U	2640.	U	3300.	U			
91-94-1	3,3'-Dichlorobenzidine	1300.	U	5200.	U	6500.	U			
56-55-3	Benzo(a)anthracene	660.	U	2640.	U	3300.	U			
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	660.	U	2640.	U	3300.	U			
218-01-9	Chrysene	660.	U	2640.	U	3300.	U			
117-84-0	Di-n-octylphthalate	660.	U	2640.	U	3300.	U			
205-99-2	Benzo(b)fluoranthene	660.	U	2640.	U	3300.	U			
207-08-9	Benzo(k)fluoranthene	660.	U	2640.	U	3300.	U			
50-32-8	Benzo(a)pyrene	660.	U	2640.	U	3300.	U			
193-39-5	Indeno(1,2,3-cd)pyrene	660.	U	2640.	U	3300.	U			
53-70-3	Dibenz(a,h)anthracene	660.	U	2640.	U	3300.	U			
191-24-2	Benzo(g,h,i)perylene	660.	U	2640.	U	3300.	U			
88-85-7	Dinoseb	500.		42000.		270000.				
65-85-0	Benzoic acid	3300.	U	13200.	U	16500.	U			
106-47-8	4-Chloroaniline	1300.	U	5200.	U	6500.	U			
84-74-2	Di-n-butylphthalate	660.	U	2640.	U	3300.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE II SURFACE SOIL DATA

VOA	SHORT ID --------->	9SB-20 (10-12')		9SB-21 (10-12')		9SB-22 (10-12')				
	ORIGINAL ID ----->	009S002001		009S002101		009S002201				
	SAMPLE DATE ----->	12/07/94		12/07/94		12/09/94				
	DATE EXTRACTED -->	12/13/94		12/13/94		12/15/94				
	DATE ANALYZED --->	12/12/94		12/14/94		12/14/94				
	MATRIX ---------->	Soil		Soil		Soil				
	UNITS ----------->	UG/KG		UG/KG		UG/KG				
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL			
74-87-3	Chloromethane	40.	U	10.	U	10.	U			
74-83-9	Bromomethane	40.	U	10.	U	10.	U			
75-01-4	Vinyl chloride	40.	U	10.	U	10.	U			
75-00-3	Chloroethane	40.	U	10.	U	10.	U			
75-09-2	Methylene chloride	92.		94.		20.	U			
67-64-1	Acetone	2900.		800.		200000.				
75-15-0	Carbon disulfide	400.	U	100.	U	100.	U			
75-35-4	1,1-Dichloroethene	20.	U	5.	U	5.	U			
75-34-3	1,1-Dichloroethane	20.	U	5.	U	5.	U			
156-60-5	trans-1,2-Dichloroethene	20.	U	5.	U	5.	U			
67-66-3	Chloroform	20.	U	5.	U	5.	U			
107-06-2	1,2-Dichloroethane	58.		43.		5.	U			
78-93-3	2-Butanone (MEK)	3000.		1700.		36000.				
71-55-6	1,1,1-Trichloroethane	20.	U	5.	U	5.	U			
56-23-5	Carbon tetrachloride	20.	U	5.	U	5.	U			
108-05-4	Vinyl acetate	200.	U	50.	U	50.	U			
75-27-4	Bromodichloromethane	20.	U	5.	U	5.	U			
79-34-5	1,1,2,2-Tetrachloroethane	20.	U	5.	U	5.	U			
78-87-5	1,2-Dichloropropane	20.	U	5.	U	5.	U			
10061-02-6	trans-1,3-Dichloropropene	20.	U	5.	U	5.	U			
79-01-6	Trichloroethene	20.	U	5.	U	5.	U			
124-48-1	Dibromochloromethane	20.	U	5.	U	5.	U			
79-00-5	1,1,2-Trichloroethane	20.	U	5.	U	5.	U			
71-43-2	Benzene	20.	U	5.	U	5.	U			
10061-01-5	cis-1,3-Dichloropropene	20.	U	5.	U	5.	U			
110-75-8	2-Chloroethylvinylether	40.	U	10.	U	10.	U			
75-25-2	Bromoform	20.	U	5.	U	5.	U			
591-78-6	2-Hexanone	200.	U	50.	U	50.	U			
108-10-1	4-Methyl-2-Pentanone (MIBK)	200.	U	50.	U	63.				
127-18-4	Tetrachloroethene	20.	U	5.	U	5.	U			
108-88-3	Toluene	61.		5.	U	10.				
108-90-7	Chlorobenzene	20.	U	5.	U	5.	U			
100-41-4	Ethylbenzene	20.	U	5.	U	10.				
100-42-5	Styrene	20.	U	5.	U	5.	U			
1330-20-7	Xylene (total)	20.	U	5.	U	130.				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE II SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-20 (25-27')		9SB-20 (30-32')		9SB-21 (23-25')		9SB-21 (25-27')		9SB-22 (15-17')		9SB-22 (17-19')	
	ORIGINAL ID ----->	009S002004		009S002005		009S002103		009S002105		009S002202		009S002203	
	SAMPLE DATE ----->	12/07/94		12/07/94		12/07/94		12/07/94		12/09/94		12/09/94	
	DATE EXTRACTED -->	12/12/94		12/12/94		12/12/94		12/12/94		12/13/94		12/13/94	
	DATE ANALYZED --->	12/14/94		12/14/94		12/19/94		12/15/94		12/16/94		12/16/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL
108-95-2	Phenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
111-44-4	bis(2-Chloroethyl)ether	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
95-57-8	2-Chlorophenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
541-73-1	1,3-Dichlorobenzene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
106-46-7	1,4-Dichlorobenzene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
100-51-6	Benzyl alcohol	1300.	U	1300.	U	5200.	U	1300.	U	1300.	U	1300.	U
95-50-1	1,2-Dichlorobenzene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
95-48-7	2-Methylphenol (o-Cresol)	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
108-60-1	bis(2-chloroisopropyl) ether	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
106-44-5	4-Methylphenol (p-Cresol)	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
621-64-7	N-Nitroso-di-n-propylamine	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
67-72-1	Hexachloroethane	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
98-95-3	Nitrobenzene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
78-59-1	Isophorone	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
88-75-5	2-Nitrophenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
105-67-9	2,4-Dimethylphenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
111-91-1	bis(2-Chloroethoxy)methane	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
120-83-2	2,4-Dichlorophenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
120-82-1	1,2,4-Trichlorobenzene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
91-20-3	Naphthalene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
87-68-3	Hexachlorobutadiene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
59-50-7	4-Chloro-3-methylphenol	1300.	U	1300.	U	5200.	U	1300.	U	1300.	U	1300.	U
91-57-6	2-Methylnaphthalene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
77-47-4	Hexachlorocyclopentadiene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
88-06-2	2,4,6-Trichlorophenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
95-95-4	2,4,5-Trichlorophenol	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
91-58-7	2-Chloronaphthalene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
88-74-4	2-Nitroaniline	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
131-11-3	Dimethylphthalate	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
208-96-8	Acenaphthylene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
99-09-2	3-Nitroaniline	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
83-32-9	Acenaphthene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
51-28-5	2,4-Dinitrophenol	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
100-02-7	4-Nitrophenol	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
132-64-9	Dibenzofuran	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
121-14-2	2,4-Dinitrotoluene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
606-20-2	2,6-Dinitrotoluene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
84-66-2	Diethylphthalate	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE II SUBSURFACE SOIL DATA

SVOA	SHORT ID --------->	9SB-20 (25-27')		9SB-20 (30-32')		9SB-21 (23-25')		9SB-21 (25-27')		9SB-22 (15-17')		9SB-22 (17-19')	
	ORIGINAL ID ----->	009S002004		009S002005		009S002103		009S002105		009S002202		009S002203	
	SAMPLE DATE ----->	12/07/94		12/07/94		12/07/94		12/07/94		12/09/94		12/09/94	
	DATE EXTRACTED -->	12/12/94		12/12/94		12/12/94		12/12/94		12/13/94		12/13/94	
	DATE ANALYZED --->	12/14/94		12/14/94		12/19/94		12/15/94		12/16/94		12/16/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ---------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL
7005-72-3	4-Chlorophenyl-phenylether	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
86-73-7	Fluorene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
100-01-6	4-Nitroaniline	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
534-52-1	4,6-Dinitro-2-methylphenol	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
86-30-6	N-Nitrosodiphenylamine	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
101-55-3	4-Bromophenyl-phenylether	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
118-74-1	Hexachlorobenzene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
87-86-5	Pentachlorophenol	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
85-01-8	Phenanthrene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
120-12-7	Anthracene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
206-44-0	Fluoranthene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
129-00-0	Pyrene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
85-68-7	Butylbenzylphthalate	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
91-94-1	3,3'-Dichlorobenzidine	1300.	U	1300.	U	5200.	U	1300.	U	1300.	U	1300.	U
56-55-3	Benzo(a)anthracene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
218-01-9	Chrysene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
117-84-0	Di-n-octylphthalate	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
205-99-2	Benzo(b)fluoranthene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
207-08-9	Benzo(k)fluoranthene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
50-32-8	Benzo(a)pyrene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
193-39-5	Indeno(1,2,3-cd)pyrene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
53-70-3	Dibenz(a,h)anthracene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
191-24-2	Benzo(g,h,i)perylene	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U
88-85-7	Dinoseb	462.	U	462.	U	7400.		690.		880.		4000.	
65-85-0	Benzoic acid	3300.	U	3300.	U	13200.	U	3300.	U	3300.	U	3300.	U
106-47-8	4-Chloroaniline	1300.	U	1300.	U	5200.	U	1300.	U	1300.	U	1300.	U
84-74-2	Di-n-butylphthalate	660.	U	660.	U	2640.	U	660.	U	660.	U	660.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
SITE 9 PHASE II SUBSURFACE SOIL DATA

VOA	SHORT ID --------->	9SB-20 (25-27')		9SB-20 (30-32')		9SB-21 (23-25')		9SB-21 (25-27')		9SB-22 (15-17')		9SB-22 (17-19')	
	ORIGINAL ID ----->	009S002004		009S002005		009S002103		009S002105		009S002202		009S002203	
	SAMPLE DATE ----->	12/07/94		12/07/94		12/07/94		12/07/94		12/09/94		12/09/94	
	DATE EXTRACTED -->	12/13/94		12/13/94		12/13/94		12/13/94		12/20/94		12/20/94	
	DATE ANALYZED --->	12/12/94		12/14/94		12/12/94		12/12/94		12/20/94		12/20/94	
	MATRIX ---------->	Soil		Soil		Soil		Soil		Soil		Soil	
	UNITS ----------->	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL	11008	VAL
74-87-3	Chloromethane	40.	U	50.	U	50.	U	50.	U	250.	U	10.	U
74-83-9	Bromomethane	40.	U	50.	U	50.	U	50.	U	250.	U	10.	U
75-01-4	Vinyl chloride	40.	U	50.	U	50.	U	50.	U	250.	U	10.	U
75-00-3	Chloroethane	40.	U	50.	U	50.	U	50.	U	250.	U	10.	U
75-09-2	Methylene chloride	840.		100.	U	170.		100.	U	500.	U	20.	U
67-64-1	Acetone	4300.		12000.		1200.		1400.		44000.		110.	
75-15-0	Carbon disulfide	400.	U	500.	U	500.	U	500.	U	2500.	U	100.	U
75-35-4	1,1-Dichloroethene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
75-34-3	1,1-Dichloroethane	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
156-60-5	trans-1,2-Dichloroethene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
67-66-3	Chloroform	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
107-06-2	1,2-Dichloroethane	730.		120.		25.	U	25.	U	130.	U	5.	U
78-93-3	2-Butanone (MEK)	2100.		500.	U	1700.		2400.		6700.		100.	U
71-55-6	1,1,1-Trichloroethane	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
56-23-5	Carbon tetrachloride	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
108-05-4	Vinyl acetate	200.	U	250.	U	250.	U	250.	U	1200.	U	50.	U
75-27-4	Bromodichloromethane	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
78-87-5	1,2-Dichloropropane	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
79-01-6	Trichloroethene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
124-48-1	Dibromochloromethane	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
79-00-5	1,1,2-Trichloroethene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
71-43-2	Benzene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
110-75-8	2-Chloroethylvinylether	40.	U	50.	U	50.	U	50.	U	250.	U	10.	U
75-25-2	Bromoform	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
591-78-6	2-Hexanone	200.	U	250.	U	250.	U	250.	U	1200.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	200.	U	250.	U	250.	U	250.	U	1200.	U	50.	U
127-18-4	Tetrachloroethene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
108-88-3	Toluene	960.		25.	U	25.	U	25.	U	130.	U	5.	U
108-90-7	Chlorobenzene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
100-41-4	Ethylbenzene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
100-42-5	Styrene	20.	U	25.	U	25.	U	25.	U	130.	U	5.	U
1330-20-7	Xylene (total)	20.	U	25.	U	25.	U	25.	U	140.		12.	

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

METAL	SHORT ID --------->	1MW-1		1MW-2		1MW-3		1MW-3 DUP		1MW-4		1MW-5	
	ORIGINAL ID ------>	CED1-GWMW-1		CED1-GWMW-2		CED1-GWMW-3		CED1-GWMW-3D		CED1-GWMW-4		CED1-GWMW-5	
	SAMPLE DATE ----->	09/14/93		09/14/93		09/14/93		09/14/93		09/15/93		09/15/93	
	DATE ANALYZED --->	10/01/93		10/01/93		10/01/93		10/01/93		10/01/93		10/01/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E009	VAL	E009	VAL	E009	VAL	E009	VAL	E009	VAL	E009	VAL
7440-38-2	Arsenic (As)	38.5		21.8		44.6		49.3		13.5		20.1	
7440-39-3	Barium (Ba)	923.		513.		639.		955.		441.		324.	
7440-43-9	Cadmium (Cd)	3.	U	3.	U	3.	U	3.	U	3.	U	3.	U
7440-70-2	Calcium (Ca)	304000.		74100.		294000.		456000.		285000.		360000.	
7440-47-3	Chromium (Cr)	81.4		47.1		80.8		113.		21.2		47.5	
7439-89-6	Iron (Fe)	109000.		53600.		107000.		169000.		22500.		42300.	
7439-92-1	Lead (Pb)	41.1		25.3		38.		48.9		10.8		16.1	
7439-95-4	Magnesium (Mg)	174000.		65100.		261000.		383000.		240000.		197000.	
7439-97-6	Mercury (Hg)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
7782-49-2	Selenium (Se)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
7440-22-4	Silver (Ag)	3.	U	3.	U	3.	U	3.	U	3.	U	3.	U
7440-23-5	Sodium (Na)	92100.		67700.		525000.		558000.		379000.		906000.	

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

METAL	SHORT ID --------->	1MW-6		2MW-2		2MW-3		2MW-4		2MW-5		4MW-1	
	ORIGINAL ID ----->	CED1GWMW6		CED2GWMW2		CED2-GWMW-3		CED2-GWMW-4		CED2-GWMW-5		CED4GWMW1	
	SAMPLE DATE ----->	09/29/93		09/30/93		09/28/93		09/28/93		09/28/93		09/29/93	
	DATE ANALYZED --->	10/21/93		10/21/93		10/19/93		10/19/93		10/19/93		10/21/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E015	VAL	E015	VAL	E012	VAL	E012	VAL	E012	VAL	E015	VAL
7440-38-2	Arsenic (As)	23.6		60.4		59.2		32.		10.	U	21.6	
7440-39-3	Barium (Ba)	553.		576.		1670.		1100.		217.		1450.	
7440-43-9	Cadmium (Cd)	2.	U	4.		2.	U	2.8		2.	U	2.	U
7440-70-2	Calcium (Ca)	334000.		187000.		198000.		452000.		135000.		186000.	
7440-47-3	Chromium (Cr)	12.7		102.		28.5		61.7		18.8		41.	
7439-89-6	Iron (Fe)	18300.		127000.		42400.		51000.		21100.		32000.	
7439-92-1	Lead (Pb)	15.9		60.2		30.6		39.1		20.8		33.2	
7439-95-4	Magnesium (Mg)	72900.		82500.		99500.		205000.		44600.		53000.	
7439-97-6	Mercury (Hg)	0.2	U	0.23		0.2	U	0.2	U	0.2	U	0.2	U
7782-49-2	Selenium (Se)	5.		5.		5.	U	6.		5.	U	5.	
7440-22-4	Silver (Ag)	3.	U	3.	U	3.	U	3.	U	3.	U	3.	U
7440-23-5	Sodium (Na)	72300.		266000.		93300.		82500.		36600.		87200.	

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

METAL	SHORT ID --------->	4MW-2		4MW-2 DUP		EMW-1		EMW-2		EMW-3		EMW-3 DUP	
	ORIGINAL ID ----->	CED4GWMW2		CED4GWMW2D		CEDE-GWMW-1		CEDE-GWMW-2		CEDE-GWMW-3		CEDEGWMW3D	
	SAMPLE DATE ----->	09/29/93		09/29/93		09/22/93		09/22/93		09/23/93		09/23/93	
	DATE ANALYZED --->	10/21/93		10/21/93		10/19/93		10/19/93		10/19/93		10/19/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E015	VAL	E015	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
7440-38-2	Arsenic (As)	24.6		25.8		29.3		26.5		39.9		43.5	
7440-39-3	Barium (Ba)	1530.		1370.		799.		1120.		319.		332.	
7440-43-9	Cadmium (Cd)	2.3		2.	U	3.6		8.5		180.		212.	
7440-70-2	Calcium (Ca)	382000.		322000.		232000.		109000.		522000.		524000.	
7440-47-3	Chromium (Cr)	120.		107.		63.2		104.		800.		972.	
7439-89-6	Iron (Fe)	122000.		108000.		64200.		121000.		82900.		85200.	
7439-92-1	Lead (Pb)	134.		119.		30.8		89.4		38.4		40.8	
7439-95-4	Magnesium (Mg)	201000.		169000.		133000.		58700.		140000.		141000.	
7439-97-6	Mercury (Hg)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
7782-49-2	Selenium (Se)	5.		5.		5.	U	5.	U	5.	U	5.	U
7440-22-4	Silver (Ag)	3.	U	3.	U	3.	U	3.	U	3.	U	3.	U
7440-23-5	Sodium (Na)	27000.		26700.		98300.		33400.		171000.		170000.	

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

METAL	SHORT ID --------->	EMW-4		EMW-6		EMW-7		EMW-6A		EMW-6B	
	ORIGINAL ID ----->	CEDE-GWMW-4		CEDE-GWMW6		CEDE-GWMW7		CEDE-GWMW6A		CEDE-GWMW6B	
	SAMPLE DATE ----->	09/23/93		09/24/93		09/23/93		09/24/93		09/24/93	
	DATE ANALYZED --->	10/19/93		10/19/93		10/19/93		10/19/93		10/19/93	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
7440-38-2	Arsenic (As)	44.4		10.		29.7		47.8		28.	
7440-39-3	Barium (Ba)	2400.		336.		441.		1010.		830.	
7440-43-9	Cadmium (Cd)	4.3		2.	U	2.	U	2.	U	16.3	
7440-70-2	Calcium (Ca)	919000.		128000.		211000.		292000.		301000.	
7440-47-3	Chromium (Cr)	226.		18.6		63.9		72.6		58.6	
7439-89-6	Iron (Fe)	347000.		14900.		38200.		106000.		50100.	
7439-92-1	Lead (Pb)	174.		10.1		25.		66.4		29.3	
7439-95-4	Magnesium (Mg)	472000.		48400.		87600.		121000.		151000.	
7439-97-6	Mercury (Hg)	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
7782-49-2	Selenium (Se)	5.	U	5.	U	5.	U	5.	U	5.	U
7440-22-4	Silver (Ag)	3.	U	3.	U	3.	U	3.	U	3.	U
7440-23-5	Sodium (Na)	137000.		40800.		15100.		17400.		226000.	

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

PEST	SHORT ID --------->	1MW-1		1MW-2		1MW-3		1MW-3(10-15')DU		1MW-4		1MW-5	
	ORIGINAL ID ----->	CED1-GWMW-1		CED1-GWMW-2		CED1-GWMW-3		CED1-GWMW-3D		CED1-GWMW-4		CED1-GWMW-5	
	SAMPLE DATE ----->	09/14/93		09/14/93		09/14/93		09/14/93		09/15/93		09/15/93	
	DATE ANALYZED --->	09/18/93		09/18/93		09/18/93		09/18/93		09/18/93		09/18/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E009	VAL	E009	VAL	E009	VAL	E009	VAL	E009	VAL	E009	VAL
1024-57-3	Heptachlor Epoxide	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1031-07-8	Endosulfan Sulfate	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-84-6	Alpha-BHC	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
319-85-7	Beta-BHC	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
319-86-8	Delta-BHC	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U
33213-65-9	Endosulfan II	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
50-29-3	4,4'-DDT	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
5103-71-9	alpha-Chlordane	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
5103-74-2	gamma-Chlordane	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
53494-70-5	Endrin ketone	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-20-8	Endrin	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
72-43-5	Methoxychlor	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
72-54-8	4,4'-DDD	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
72-55-9	4,4'-DDE	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
8001-35-2	Toxaphene	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
959-98-8	Endosulfan I	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

PEST	SHORT ID --------->	1MW-6		2MW-1		2MW-2		2MW-3		2MW-4		2MW-5	
	ORIGINAL ID ----->	CED1GWMW6		CED2GWMW1		CED2GWMW2		CED2-GWMW-3		CED2-GWMW-4		CED2-GWMW-5	
	SAMPLE DATE ----->	09/29/93		09/30/93		09/30/93		09/28/93		09/28/93		09/28/93	
	DATE ANALYZED --->	10/09/93		10/09/93		10/09/93		10/08/93		10/08/93		10/08/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E015	VAL	E015	VAL	E015	VAL	E012	VAL	E012	VAL	E012	VAL
1024-57-3	Heptachlor Epoxide	0.2	U	0.22	U	0.21	U	0.2	U	0.2	U	0.2	U
1031-07-8	Endosulfan Sulfate	0.66	U	0.72	U	0.7	U	0.66	U	0.66	U	0.66	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-84-6	Alpha-BHC	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
319-85-7	Beta-BHC	0.06	U	0.07	U	0.06	U	0.06	U	0.06	U	0.06	U
319-86-8	Delta-BHC	0.09	U	0.1	U	0.1	U	0.09	U	0.09	U	0.09	U
33213-65-9	Endosulfan II	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
50-29-3	4,4'-DDT	0.12	U	0.13	U	0.13	U	0.12	U	0.12	U	0.12	U
5103-71-9	alpha-Chlordane	0.14	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U
5103-74-2	gamma-Chlordane	0.14	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U
53494-70-5	Endrin ketone	0.1	U	0.11	U	0.11	U	0.1	U	0.1	U	0.1	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-20-8	Endrin	0.06	U	0.07	U	0.06	U	0.06	U	0.06	U	0.06	U
72-43-5	Methoxychlor	1.8	U	3.4		1.9	U	1.8	U	1.8	U	1.8	U
72-54-8	4,4'-DDD	0.11	U	0.12	U	0.12	U	0.11	U	0.11	U	0.11	U
72-55-9	4,4'-DDE	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
8001-35-2	Toxaphene	2.4	U	2.6	U	2.6	U	2.4	U	2.4	U	2.4	U
959-98-8	Endosulfan I	0.14	U	0.15	U	0.15	U	0.14	U	0.14	U	0.14	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

PEST	SHORT ID --------->	4MW-1		4MW-2		4MW-2 DUP		EMW-1		EMW-2		EMW-3	
	ORIGINAL ID ----->	CED4GWMW1		CED4GWMW2		CED4GWMW2D		CEDE-GWMW-1		CEDE-GWMW-2		CEDE-GWMW-3	
	SAMPLE DATE ----->	09/29/93		09/29/93		09/29/93		09/22/93		09/22/93		09/23/93	
	DATE ANALYZED --->	10/09/93		10/09/93		10/09/93		10/07/93		10/07/93		10/08/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E015	VAL	E015	VAL	E015	VAL	E012	VAL	E012	VAL	E012	VAL
1024-57-3	Heptachlor Epoxide	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1031-07-8	Endosulfan Sulfate	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-84-6	Alpha-BHC	0.03	U	0.03	U	0.03	U	0.05		0.03	U	0.07	
319-85-7	Beta-BHC	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
319-86-8	Delta-BHC	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U
33213-65-9	Endosulfan II	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
50-29-3	4,4'-DDT	0.12	U	0.12	U	0.12	U	0.49		0.12	U	0.12	U
5103-71-9	alpha-Chlordane	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
5103-74-2	gamma-Chlordane	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
53494-70-5	Endrin ketone	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.03	
72-20-8	Endrin	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
72-43-5	Methoxychlor	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
72-54-8	4,4'-DDD	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
72-55-9	4,4'-DDE	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
8001-35-2	Toxaphene	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
959-98-8	Endosulfan I	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

PEST	SHORT ID --------->	EMW-3 DUP		EMW-4		EMW-6		EMW-7		EMW-6A		EMW-6B	
	ORIGINAL ID ----->	CEDEGWMW3		CEDE-GWMW-4		CEDE-GWMW6		CEDE-GWMW7		CEDE-GWMW6A		CEDE-GWMW6B	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/24/93		09/23/93		09/24/93		09/24/93	
	DATE ANALYZED --->	10/08/93		10/07/93		10/08/93		10/08/93		10/08/93		10/09/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
1024-57-3	Heptachlor Epoxide	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
1031-07-8	Endosulfan Sulfate	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
319-84-6	Alpha-BHC	0.06		0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
319-85-7	Beta-BHC	0.08		0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
319-86-8	Delta-BHC	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U
33213-65-9	Endosulfan II	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
50-29-3	4,4'-DDT	0.12	U	0.56		0.12	U	0.12	U	0.12	U	0.12	U
5103-71-9	alpha-Chlordane	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
5103-74-2	gamma-Chlordane	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
53494-70-5	Endrin ketone	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
60-57-1	Dieldrin	0.02		0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-20-8	Endrin	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
72-43-5	Methoxychlor	1.8		1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
72-54-8	4,4'-DDD	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
72-55-9	4,4'-DDE	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
8001-35-2	Toxaphene	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
959-98-8	Endosulfan I	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

SVOA	SHORT ID --------->	1MW-1		1MW-2		1MW-3		1MW-3 DUP		1MW-4		1MW-5	
	ORIGINAL ID ----->	CED1-GWMW-1		CED1-GWMW-2		CED1-GWMW-3		CED1-GWMW-3D		CED1-GWMW-4		CED1-GWMW-5	
	SAMPLE DATE ----->	09/14/93		09/14/93		09/14/93		09/14/93		09/15/93		09/15/93	
	DATE ANALYZED --->	10/07/93		10/07/93		10/07/93		10/08/93		10/10/93		10/10/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E009	VAL	E009	VAL	E009	VAL	E009	VAL	E009	VAL	E009	VAL
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	4.		4.		10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	76.		160.		1.		10.	U
108-60-1	bis(2-chloroisopropyl) ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	4.		3.		10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	320.	
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

SVOA	SHORT ID --------->	1MW-1		1MW-2		1MW-3		1MW-3 DUP		1MW-4		1MW-5	
	ORIGINAL ID ----->	CED1-GWMW-1		CED1-GWMW-2		CED1-GWMW-3		CED1-GWMW-30		CED1-GWMW-4		CED1-GWMW-5	
	SAMPLE DATE ----->	09/14/93		09/14/93		09/14/93		09/14/93		09/15/93		09/15/93	
	DATE ANALYZED --->	10/07/93		10/07/93		10/07/93		10/08/93		10/10/93		10/10/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E009	VAL	E009	VAL	E009	VAL	E009	VAL	E009	VAL	E009	VAL
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
709-98-8	Propanil	10.	U	10.	U	10.	U	10.		10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	2.		1.		10.	U	2.	
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-85-7	Dinoseb	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	31.		30.		10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-76-1	3,4-Dichloroaniline	10.	U	10.	U	55.		60.		12.		13.	
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

SVOA	SHORT ID --------->	1MW-6		2MW-2		2MW-3		2MW-4		2MW-5		4MW-1	
	ORIGINAL ID ----->	CED1GWMW6		CED2GWMW2		CED2-GWMW-3		CED2-GWMW-4		CED2-GWMW-5		CED4GWMW1	
	SAMPLE DATE ----->	09/29/93		09/29/93		09/28/93		09/28/93		09/28/93		09/29/93	
	DATE ANALYZED --->	10/26/93		10/26/93		10/20/93		10/20/93		10/21/93		10/26/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E015	VAL	E015	VAL	E012	VAL	E012	VAL	E012	VAL	E015	VAL
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
100-02-7	4-Nitrophenol	50.	U	50.	U	250.		50.	U	50.	U	50.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	8.		10.	U	10.	U	23.	
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	590.		3.		23.	
108-60-1	bis(2-chloroisopropyl) ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	10.	U	10.	U	950.		10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	13.		10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	50.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	250.	U	50.	U	50.	U	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	50.	U	250.	U	50.	U	50.	U	50.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	50.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	11.		50.	U	50.	U	50.	U	50.	U	57.	

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

SVOA	SHORT ID --------->	1MW-6		2MW-2		2MW-3		2MW-4		2MW-5		4MW-1	
	ORIGINAL ID ----->	CED1GWMW6		CED2GWMW2		CED2-GWMW-3		CED2-GWMW-4		CED2-GWMW-5		CED4GWMW1	
	SAMPLE DATE ----->	09/29/93		09/29/93		09/28/93		09/28/93		09/28/93		09/29/93	
	DATE ANALYZED --->	10/26/93		10/26/93		10/20/93		10/20/93		10/21/93		10/26/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E015	VAL	E015	VAL	E012	VAL	E012	VAL	E012	VAL	E015	VAL
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
709-98-8	Propanil	10.	U	10.	U	6.		10.	U	1.		45.	
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	17.	
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	1.		1.	
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	250.	U	50.	U	50.	U	50.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	50.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	50.	U	10.	U	10.	U	10.	U
88-85-7	Dinoseb	50.	U	50.	U	50.	U	50.	U	39.		50.	U
91-20-3	Naphthalene	10.	U	10.	U	1.		10.	U	10.	U	2.	
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	3.		10.	U	10.	U	15.	
95-50-1	1,2-Dichlorobenzene	10.	U	58.		11.		28.		7.		960.	
95-57-8	2-Chlorophenol	10.	U	10.	U	50.	U	10.	U	10.	U	10.	U
95-76-1	3,4-Dichloroaniline	10.	U	220.		10.	U	16.	U	10.	U	66.	
95-95-4	2,4,5-Trichlorophenol	50.	U	50.	U	250.	U	50.	U	50.	U	50.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

SVOA	SHORT ID --------->	4MW-2		4MW-2 DUP		EMW-1		EMW-2		EMW-3		EMW-4	
	ORIGINAL ID ----->	CED4GWMW2		CED4GWMW2D		CEDE-GWMW-1		CEDE-GWMW-2		CEDE-GWMW-3		CEDE-GWMW-4	
	SAMPLE DATE ----->	09/29/93		09/29/93		09/22/93		09/22/93		09/23/93		09/23/93	
	DATE ANALYZED --->	10/26/93		10/26/93		10/19/93		10/19/93		10/19/93		10/19/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E015	VAL	E015	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
100-02-7	4-Nitrophenol	50.	U	100.	U	50.	U	50.	U	250.	U	50.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	20.	U	10.	U	10.	U	2.		10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	20.	U	10.	U	1.		50.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	2.		10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	5.		5.		10.	U	10.	U	40.		130.	
108-60-1	bis(2-chloroisopropyl) ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	10.	U	20.	U	10.	U	10.	U	50.	U	1.	
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	5.	
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	12.	U	37.	U	22.	U	28.	U	27.	U	58.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	2.		10.	U
120-83-2	2,4-Dichlorophenol	10.	U	20.	U	10.	U	10.	U	2.		10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.		10.	U	10.	U	10.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	110.		109.		50.	U	50.	U	250.	U	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	100.	U	50.	U	50.	U	250.	U	50.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	20.	U	10.	U	10.	U	50.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

SVOA	SHORT ID --------->	4MW-2		4MW-2 DUP		EMW-1		EMW-2		EMW-3		EMW-4	
	ORIGINAL ID ----->	CED4GWMW2		CED4GWMW2D		CEDE-GWMW-1		CEDE-GWMW-2		CEDE-GWMW-3		CEDE-GWMW-4	
	SAMPLE DATE ----->	09/29/93		09/29/93		09/22/93		09/22/93		09/23/93		09/23/93	
	DATE ANALYZED --->	10/26/93		10/26/93		10/19/93		10/19/93		10/19/93		10/19/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E015	VAL	E015	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
709-98-8	Propanil	10.	U	10.	U	10.	U	10.	U	31.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	2.		2.		10.	U	10.	U	6.		10.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	2.		10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	100.	U	50.	U	50.	U	250.	U	50.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	20.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
88-75-5	2-Nitrophenol	10.	U	20.	U	10.	U	10.	U	50.	U	10.	U
88-85-7	Dinoseb	41000.		47000.		42.		50.	U	140.		50.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	4.		10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	1.		10.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	20.	U	2.		10.	U	50.	U	10.	U
95-50-1	1,2-Dichlorobenzene	33.		35.		10.	U	1.		310.		7.	
95-57-8	2-Chlorophenol	10.	U	20.	U	10.	U	10.	U	50.	U	10.	U
95-76-1	3,4-Dichloroaniline	22.		26.		19.	U	10.	U	670.		63.	U
95-95-4	2,4,5-Trichlorophenol	50.	U	100.	U	50.	U	50.	U	250.	U	50.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

SVOA	SHORT ID --------->	EMW-6		EMW-7		EMW-6A		EMW-6B			
	ORIGINAL ID ----->	CEDE-GWMW-6		CEDE-GWMW-7		CEDE-GWMW-6A		CEDE-GWMW-6B			
	SAMPLE DATE ----->	09/24/93		09/23/93		09/24/93		09/24/93			
	DATE ANALYZED --->	10/20/93		10/20/93		10/20/93		10/21/93			
	MATRIX ---------->	Water		Water		Water		Water			
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L			
CAS #	Parameter	E012	VAL	E012	VAL	E012	VAL	E012	VAL		
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	250.	U		
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	250.	U		
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	50.	U		
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	50.	U		
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	50.	U		
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	50.	U		
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	50.	U		
106-47-8	4-Chloroaniline	10.	U	65.		10.	U	5900.			
108-60-1	bis(2-chloroisopropyl) ether	10.	U	10.	U	10.	U	50.	U		
108-95-2	Phenol	10.	U	10.	U	10.	U	50.	U		
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	50.	U		
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	50.	U		
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	50.	U		
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	50.	U		
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	50.	U		
120-12-7	Anthracene	10.	U	10.	U	10.	U	50.	U		
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	50.	U		
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	50.	U		
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	50.	U		
129-00-0	Pyrene	10.	U	10.	U	10.	U	50.	U		
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	50.	U		
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	50.	U		
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	50.	U		
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	50.	U		
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	50.	U		
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	50.	U		
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	50.	U		
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	50.	U		
218-01-9	Chrysene	10.	U	10.	U	10.	U	50.	U		
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	50.	U		
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	250.	U		
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	50.	U	50.	U	250.	U		
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	50.	U		
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	50.	U		
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	50.	U		
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	50.	U		
606-20-2	2,6-Dinitrotoluene	10.	U	13.		10.	U	50.	U		
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	50.	U		
65-85-0	Benzoic acid	50.	U	50.	U	50.	U	250.	U		

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

SVOA		SHORT ID --------->	EMW-6		EMW-7		EMW-6A		EMW-6B			
		ORIGINAL ID ----->	CEDE-GWMW-6		CEDE-GWMW-7		CEDE-GWMW-6A		CEDE-GWMW-6B			
		SAMPLE DATE ----->	09/24/93		09/23/93		09/24/93		09/24/93			
		DATE ANALYZED --->	10/20/93		10/20/93		10/20/93		10/21/93			
		MATRIX ---------->	Water		Water		Water		Water			
		UNITS ----------->	UG/L		UG/L		UG/L		UG/L			
CAS #	Parameter		E012	VAL	E012	VAL	E012	VAL	E012	VAL		
67-72-1	Hexachloroethane		10.	U	10.	U	10.	U	50.	U		
7005-72-3	4-Chlorophenyl-phenylether		10.	U	10.	U	10.	U	50.	U		
709-98-8	Propanil		10.	U	10.	U	10.	U	18.			
77-47-4	Hexachlorocyclopentadiene		10.	U	10.	U	10.	U	50.	U		
78-59-1	Isophorone		10.	U	10.	U	10.	U	50.	U		
83-32-9	Acenaphthene		10.	U	10.	U	10.	U	50.	U		
84-66-2	Diethylphthalate		10.	U	10.	U	10.	U	50.	U		
84-74-2	Di-n-butylphthalate		10.	U	10.	U	10.	U	50.	U		
85-01-8	Phenanthrene		10.	U	10.	U	10.	U	50.	U		
85-68-7	Butylbenzylphthalate		10.	U	10.	U	10.	U	50.	U		
86-30-6	N-Nitrosodiphenylamine		10.	U	10.	U	10.	U	50.	U		
86-73-7	Fluorene		10.	U	10.	U	10.	U	50.	U		
87-68-3	Hexachlorobutadiene		10.	U	10.	U	10.	U	50.	U		
87-86-5	Pentachlorophenol		50.	U	50.	U	50.	U	250.	U		
88-06-2	2,4,6-Trichlorophenol		10.	U	10.	U	10.	U	50.	U		
88-74-4	2-Nitroaniline		50.	U	50.	U	50.	U	250.	U		
88-75-5	2-Nitrophenol		10.	U	10.	U	10.	U	50.	U		
88-85-7	Dinoseb		50.	U	50.	U	50.	U	250.	U		
91-20-3	Naphthalene		10.	U	10.	U	10.	U	15.			
91-57-6	2-Methylnaphthalene		10.	U	10.	U	10.	U	6.			
91-58-7	2-Chloronaphthalene		10.	U	10.	U	10.	U	50.	U		
91-94-1	3,3'-Dichlorobenzidine		20.	U	20.	U	20.	U	100.	U		
95-48-7	2-Methylphenol (o-Cresol)		10.	U	10.	U	10.	U	50.	U		
95-50-1	1,2-Dichlorobenzene		10.	U	10.	U	10.	U	130.			
95-57-8	2-Chlorophenol		10.	U	1.		10.	U	50.	U		
95-76-1	3,4-Dichloroaniline		10.	U	10.	U	10.	U	58000.			
95-95-4	2,4,5-Trichlorophenol		50.	U	50.	U	50.	U	250.	U		
98-95-3	Nitrobenzene		10.	U	10.	U	10.	U	50.	U		
99-09-2	3-Nitroaniline		50.	U	50.	U	50.	U	250.	U		

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

VOA	SHORT ID --------->	1MW-1	1MW-2	1MW-3	1MW-3(10-15')DU	1MW-4	1MW-5
	ORIGINAL ID ----->	CED1-GWMW-1	CED1-GWMW-2	CED1-GWMW-3	CED1-GWMW-3D	CED1-GWMW-4	CED1-GWMW-5
	SAMPLE DATE ----->	09/14/93	09/14/93	09/14/93	09/14/93	09/15/93	09/15/93
	DATE ANALYZED --->	09/17/93	09/17/93	09/17/93	09/17/93	09/17/93	09/17/93
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	E009	VAL	E009	VAL	E009	VAL	E009	VAL	E009	VAL	E009	VAL
100-41-4	Ethylbenzene	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
107-06-2	1,2-Dichloroethane	19.		5.	U	2700.		2500.		1800.		5.	U
108-05-4	Vinyl acetate	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U	1000.	U	1000.	U	750.	U	50.	U
108-88-3	Toluene	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
1330-20-7	Xylene (total)	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
591-78-6	2-Hexanone	50.	U	50.	U	1000.	U	1000.	U	750.	U	50.	U
67-64-1	Acetone	10.	U	10.	U	200.	U	200.	U	150.	U	10.	U
67-66-3	Chloroform	2.		5.	U	100.	U	100.	U	75.	U	2.	
71-43-2	Benzene	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
74-83-9	Bromomethane	10.	U	10.	U	200.	U	200.	U	150.	U	10.	U
74-87-3	Chloromethane	10.	U	10.	U	200.	U	200.	U	150.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	200.	U	200.	U	150.	U	10.	U
75-01-4	Vinyl chloride	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
75-09-2	Methylene chloride	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
75-15-0	Carbon disulfide	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
75-25-2	Bromoform	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	200.	U	200.	U	150.	U	10.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	100.	U	100.	U	28.		5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	100.	U	100.	U	75.	U	5.	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

VOA	SHORT ID --------->	1MW-6		2MW-1		2MW-2		2MW-3		2MW-4		2MW-5	
	ORIGINAL ID ----->	CED1GWMW6		CED2GWMW1		CED2GWMW2		CED2-GWMW-3		CED2-GWMW-4		CED2-GWMW-5	
	SAMPLE DATE ----->	09/29/93		09/30/93		09/30/93		09/28/93		09/28/93		09/28/93	
	DATE ANALYZED --->	10/10/93		10/11/93		10/11/93		10/10/93		10/10/93		10/10/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E015	VAL	E015	VAL	E015	VAL	E012	VAL	E012	VAL	E012	VAL
100-41-4	Ethylbenzene	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
100-42-5	Styrene	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
107-06-2	1,2-Dichloroethane	640.		29000.		5.	U	120.		500.		5.	U
108-05-4	Vinyl acetate	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	250.	U	2200.		50.	U	520.		250.	U	50.	U
108-88-3	Toluene	25.	U	940.		5.	U	160.		25.	U	5.	U
108-90-7	Chlorobenzene	25.	U	2500.	U	5.	U	15.	U	470.		5.	U
124-48-1	Dibromochloromethane	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
127-18-4	Tetrachloroethene	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
1330-20-7	Xylene (total)	25.	U	1100.		5.	U	4.		25.	U	5.	U
540-59-0	1,2-Dichloroethene (total)	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
56-23-5	Carbon tetrachloride	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
591-78-6	2-Hexanone	250.	U	25000.	U	50.	U	150.	U	250.	U	50.	U
67-64-1	Acetone	50.	U	4800.		10.	U	430.		50.	U	10.	U
67-66-3	Chloroform	25.	U	700.		5.	U	340.		25.	U	3.	
71-43-2	Benzene	25.	U	2500.	U	5.	U	15.	U	7.		5.	U
71-55-6	1,1,1-Trichloroethane	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
74-83-9	Bromomethane	50.	U	5000.	U	10.	U	30.	U	50.	U	10.	U
74-87-3	Chloromethane	50.	U	5000.	U	10.	U	30.	U	50.	U	10.	U
75-00-3	Chloroethane	50.	U	5000.	U	10.	U	30.	U	50.	U	10.	U
75-01-4	Vinyl chloride	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
75-09-2	Methylene chloride	25.	U	600000.		5.	U	460.		720.		5.	U
75-15-0	Carbon disulfide	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
75-25-2	Bromoform	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
75-27-4	Bromodichloromethane	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
75-34-3	1,1-Dichloroethane	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
75-35-4	1,1-Dichloroethene	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
78-87-5	1,2-Dichloropropane	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
78-93-3	2-Butanone (MEK)	50.	U	5000.	U	10.	U	30.	U	50.	U	10.	U
79-00-5	1,1,2-Trichloroethane	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
79-01-6	Trichloroethene	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	25.	U	2500.	U	5.	U	15.	U	25.	U	5.	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

VOA	SHORT ID --------->	4MW-1		4MW-2		4MW-2 DUP		EMW-1		EMW-2		EMW-3	
	ORIGINAL ID ----->	CED4GWMW1		CED4GWMW2		CED4GWMW2D		CEDE-GWMW-1		CEDE-GWMW-2		CEDE-GWMW-3	
	SAMPLE DATE ----->	09/29/93		09/29/93		09/29/93		09/22/93		09/22/93		09/23/93	
	DATE ANALYZED --->	10/11/93		10/10/93		10/10/93		09/30/93		09/30/93		09/30/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E015	VAL	E015	VAL	E015	VAL	E012	VAL	E012	VAL	E012	VAL
100-41-4	Ethylbenzene	5000.	U	50.	U	50.	U	5.	U	5.	U	54.	
100-42-5	Styrene	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
10061-01-5	cis-1,3-Dichloropropene	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
10061-02-6	trans-1,3-Dichloropropene	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
107-06-2	1,2-Dichloroethane	5800.		210.		240.		36.		5.	U	6100.	
108-05-4	Vinyl acetate	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50000.	U	500.	U	500.	U	50.	U	50.	U	11.	
108-88-3	Toluene	110000.		80.		52.		5.	U	5.	U	32.	
108-90-7	Chlorobenzene	5000.	U	31.		30.		5.	U	5.	U	26.	
124-48-1	Dibromochloromethane	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
127-18-4	Tetrachloroethene	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
1330-20-7	Xylene (total)	1400.		38.		44.		5.	U	5.	U	88.	
540-59-0	1,2-Dichloroethene (total)	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
56-23-5	Carbon tetrachloride	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
591-78-6	2-Hexanone	50000.	U	500.	U	500.	U	50.	U	50.	U	500.	U
67-64-1	Acetone	10000.	U	100.	U	100.	U	10.	U	10.	U	100.	U
67-66-3	Chloroform	5000.	U	1400.		1900.		1.		5.	U	55.	
71-43-2	Benzene	5000.	U	46.		43.		5.	U	5.	U	50.	U
71-55-6	1,1,1-Trichloroethane	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
74-83-9	Bromomethane	10000.	U	100.	U	100.	U	10.	U	10.	U	100.	U
74-87-3	Chloromethane	10000.	U	100.	U	100.	U	10.	U	10.	U	100.	U
75-00-3	Chloroethane	10000.	U	100.	U	100.	U	10.	U	10.	U	100.	U
75-01-4	Vinyl chloride	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
75-09-2	Methylene chloride	5000.	U	1300.	U	1500.	U	5.	U	5.	U	390.	
75-15-0	Carbon disulfide	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
75-25-2	Bromoform	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
75-27-4	Bromodichloromethane	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
75-34-3	1,1-Dichloroethane	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
75-35-4	1,1-Dichloroethene	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
78-87-5	1,2-Dichloropropane	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
78-93-3	2-Butanone (MEK)	10000.	U	100.	U	100.	U	10.	U	10.	U	100.	U
79-00-5	1,1,2-Trichloroethane	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
79-01-6	Trichloroethene	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U
79-34-5	1,1,2,2-Tetrachloroethane	5000.	U	50.	U	50.	U	5.	U	5.	U	50.	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

VOA	SHORT ID --------->	EMW-3 DUP		EMW-4		EMW-6		EMW-7		EMW-6A		EMW-6B	
	ORIGINAL ID ----->	CEDE-GWMW-30		CEDE-GWMW-4		CEDE-GWMW6		CEDE-GWMW7		CEDE-GWMW6A		CEDE-GWMW6B	
	SAMPLE DATE ----->	09/23/93		09/23/93		09/24/93		09/23/93		09/24/93		09/24/93	
	DATE ANALYZED --->	09/30/93		09/30/93		10/06/93		10/05/93		10/06/93		10/06/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
100-41-4	Ethylbenzene	65.		40.	U	5.	U	2500.	U	5.	U	50.	U
100-42-5	Styrene	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
10061-01-5	cis-1,3-Dichloropropene	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
10061-02-6	trans-1,3-Dichloropropene	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
107-06-2	1,2-Dichloroethane	6700.		1200.		190.		64000.		18.		1900.	
108-05-4	Vinyl acetate	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	2500.	U	400.	U	50.	U	25000.	U	50.	U	500.	U
108-88-3	Toluene	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
108-90-7	Chlorobenzene	250.	U	16.		5.	U	2500.	U	5.	U	30.	
124-48-1	Dibromochloromethane	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
127-18-4	Tetrachloroethene	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
1330-20-7	Xylene (total)	100.		40.	U	5.	U	2500.	U	5.	U	50.	U
540-59-0	1,2-Dichloroethene (total)	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
56-23-5	Carbon tetrachloride	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
591-78-6	2-Hexanone	2500.	U	400.	U	50.	U	25000.	U	50.	U	500.	U
67-64-1	Acetone	500.	U	80.	U	10.	U	5000.	U	10.	U	100.	U
67-66-3	Chloroform	65.		40.	U	5.	U	2500.	U	5.	U	50.	U
71-43-2	Benzene	250.	U	40.	U	5.	U	2500.	U	5.	U	17.	
71-55-6	1,1,1-Trichloroethane	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
74-83-9	Bromomethane	500.	U	80.	U	10.	U	5000.	U	10.	U	100.	U
74-87-3	Chloromethane	500.	U	80.	U	10.	U	5000.	U	10.	U	100.	U
75-00-3	Chloroethane	500.	U	80.	U	10.	U	5000.	U	10.	U	100.	U
75-01-4	Vinyl chloride	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
75-09-2	Methylene chloride	410.		40.	U	5.	U	2500.	U	5.	U	50.	U
75-15-0	Carbon disulfide	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
75-25-2	Bromoform	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
75-27-4	Bromodichloromethane	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
75-34-3	1,1-Dichloroethane	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
75-35-4	1,1-Dichloroethene	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
78-87-5	1,2-Dichloropropane	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
78-93-3	2-Butanone (MEK)	500.	U	80.	U	10.	U	5000.	U	10.	U	100.	U
79-00-5	1,1,2-Trichloroethane	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
79-01-6	Trichloroethene	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U
79-34-5	1,1,2,2-Tetrachloroethane	250.	U	40.	U	5.	U	2500.	U	5.	U	50.	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

WDPL	SHORT ID --------->	1MW-1		1MW-2		1MW-3		1MW-3(10-15')DU		1MW-4		1MW-5	
	ORIGINAL ID ----->	CED1-GWMW-1		CED1-GWMW-2		CED1-GWMW-3		CED1-GWMW-3D		CED1-GWMW-4		CED1-GWMW-5	
	SAMPLE DATE ----->	09/14/93		09/14/93		09/14/93		09/14/93		09/15/93		09/15/93	
	DATE ANALYZED --->	09/24/93		09/24/93		09/24/93		09/24/93		09/24/93		09/24/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	E009	VAL	E009	VAL	E009	VAL	E009	VAL	E009	VAL	E009	VAL
10-13-9	BICARBONATE	400.		380.		820.		820.		780.		890.	
14797-55-8	Nitrate (as N)	5.3		0.9		0.02	U	0.02	U	0.02		0.02	U
14808-79-8	Sulfate	69.		49.		420.		380.		210.		620.	
16887-00-6	Chloride	450.		36.		1300.		1200.		1400.		1600.	
7664-41-7	Ammonia (as N)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
F	Fluoride	0.3		0.9		0.6		0.6		0.5		0.6	
CN	Cyanide	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

WQPL	SHORT ID --------->	1MW-6		2MW-3		2MW-4		2MW-5		4MW-1		4MW-2	
	ORIGINAL ID ----->	CED1GWMW6		CED2-GWMW-3		CED2-GWMW-4		CED2-GWMW-5		CED4GWMW1		CED4GWMW2	
	SAMPLE DATE ----->	09/29/93		09/28/93		09/28/93		09/28/93		09/29/93		09/29/93	
	DATE ANALYZED --->	10/04/93		10/12/93		10/12/93		10/12/93		10/04/93		10/04/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	E015	VAL	E012	VAL	E012	VAL	E012	VAL	E015	VAL	E015	VAL
10-13-9	BICARBONATE	180.		410.		500.		430.		630.		530.	
14797-55-8	Nitrate (as N)	0.2	U	0.2	U	0.2	U	2.2		0.2	U	1.2	
14808-79-8	Sulfate	30.		29.		16.		79.		23.		140.	
16887-00-6	Chloride	630.		570.		1100.		34.		72.		200.	
7664-41-7	Ammonia (as N)	1.8		0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
F	Fluoride	0.3		0.3		0.1		0.2		0.3		0.2	
CN	Cyanide	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

WQPL	SHORT ID --------->	4MW-2 DUP		EMW-1		EMW-2		EMW-3		EMW-3 DUP		EMW-4	
	ORIGINAL ID ----->	CED4GWMW2D		CEDE-GWMW-1		CEDE-GWMW-2		CEDE-GWMW-3		CEDE-GWMW-3D		CEDE-GWMW-4	
	SAMPLE DATE ----->	09/29/93		09/22/93		09/22/93		09/23/93		09/23/93		09/23/93	
	DATE ANALYZED --->	10/04/93		09/28/93		09/28/93		09/28/93		09/28/93		09/28/93	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	E015	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL	E012	VAL
10-13-9	BICARBONATE	530.		480.		250.		290.		300.		650.	
14797-55-8	Nitrate (as N)	1.		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
14808-79-8	Sulfate	120.		120.		41.		320.		350.		93.	
16887-00-6	Chloride	200.		260.		15.		1400.		1400.		650.	
7664-41-7	Ammonia (as N)	0.1	U	0.1	U	0.3		0.7		0.8		0.2	
F	Fluoride	0.2		0.3		0.3		0.2		0.2		0.3	
CN	Cyanide	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U

*** Validation Complete ***

CEDAR CHEMICAL GROUNDWATER
WEST HELENA, ARKANSAS
PHASE I GROUNDWATER

WQPL	SHORT ID --------->	EMW-6	EMW-7	EMW-6A	EMW-6B		
	ORIGINAL ID ----->	CEDE-GWMW6	CEDE-GWMW7	CEDE-GWMW6A	CEDE-GWMW6B		
	SAMPLE DATE ----->	09/24/93	09/23/93	09/24/93	09/24/93		
	DATE ANALYZED --->	10/12/93	10/12/93	10/12/93	10/12/93		
	MATRIX ---------->	Water	Water	Water	Water		
	UNITS ----------->	MG/L	MG/L	MG/L	MG/L		

CAS #	Parameter	E012	VAL	E012	VAL	E012	VAL	E012	VAL		
10-13-9	BICARBONATE	490.		270.		290.		540.			
14797-55-8	Nitrate (as N)	0.2	U	0.2	U	0.2	U	0.2	U		
14808-79-8	Sulfate	25.		290.		14.		35.			
16887-00-6	Chloride	29.		260.		160.		560.			
7664-41-7	Ammonia (as N)	0.1	U	0.4		0.8		0.1	U		
F	Fluoride	0.3		0.3		0.6		0.5			
CN	Cyanide	0.01	U	0.01	U	0.01	U	0.01	U		

*** Validation Complete ***

DATALCP3
07/22/99

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

ARSENIC		SHORT ID --------->	1MW-1		1MW-2		1MW-3		1MW-4		1MW-5		1MW-6	
		ORIGINAL ID ----->	001G000101		001G000201		001G000301		001G000401		001G000501		001G000601	
		SAMPLE DATE ----->	11/29/94		11/29/94		11/30/94		11/30/94		11/30/94		11/30/94	
		DATE EXTRACTED -->	12/02/94		12/02/94		12/02/94		12/02/94		12/02/94		12/02/94	
		DATE ANALYZED --->	12/02/94		12/02/94		12/02/94		12/02/94		12/02/94		12/02/94	
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ----------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter		10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL
7440-38-2	Arsenic (As)		0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

ARSENIC	SHORT ID --------->	1GB-1 (36')		1GB-2 (42')		1GB-2 (61.5')		1GB-2 (80')		1GB-2 (102')		1GB-3 (37.5')	
	ORIGINAL ID ----->	001GGB0101		001GGB0201		001GGB0202		001GGB0203		001GGB0204		001GGB0301	
	SAMPLE DATE ----->	12/20/94		12/20/94		12/21/94		12/22/94		12/23/94		12/21/94	
	DATE EXTRACTED -->	12/23/94		12/23/94		12/23/94		12/27/94		12/27/94		12/23/94	
	DATE ANALYZED --->	12/27/94		12/27/94		12/27/94		12/27/94		12/27/94		12/27/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	11213	VAL	11213	VAL	11213	VAL	11234	VAL	11234	VAL	11213	VAL
7440-38-2	Arsenic (As)	0.44		0.12		0.05	U	0.05	U	0.05	U	0.05	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

ARSENIC	SHORT ID --------->	1GB-3 (60')		1GB-3 (80')		1GB-3 (100')		1GB-4 (40')		1GB-4 (40') Dup		1GB-4 (60')	
	ORIGINAL ID ----->	001GGB0302		001GGB0303		001GGB0304		001GGB0401		001HGB0401		001GGB0402	
	SAMPLE DATE ----->	12/23/94		12/23/94		12/23/94		01/05/95		01/05/95		01/09/95	
	DATE EXTRACTED ->	12/27/94		12/27/94		12/27/94		01/09/95		01/09/95		01/12/95	
	DATE ANALYZED --->	12/27/94		12/27/94		12/27/94		01/09/95		01/09/95		01/12/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	11234	VAL	11234	VAL	11234	VAL	11379	VAL	11379	VAL	11462	VAL
7440-38-2	Arsenic (As)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

ARSENIC	SHORT ID --------->	1GB-4 (80')		1GB-4 (107')		1MW-7		2MW-2		2MW-3		2MW-4	
	ORIGINAL ID ----->	001GGB0403		001GGB0404		001GW00701		002G000201		002G000301		002G000401	
	SAMPLE DATE ----->	01/09/95		01/09/95		01/13/95		12/01/94		12/02/94		12/02/94	
	DATE EXTRACTED -->	01/12/95		01/12/95		01/16/95		12/06/94		12/06/94		12/06/94	
	DATE ANALYZED --->	01/12/95		01/12/95		01/16/95		12/06/94		12/06/94		12/06/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	11462	VAL	11462	VAL	11513	VAL	10867	VAL	10867	VAL	10867	VAL
7440-38-2	Arsenic (As)	0.05	U	0.05	U	0.05	U	0.21		0.32		0.05	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

ARSENIC													
	SHORT ID --------->	2MW-4 Dup		2MW-5		2MW-7		2MW-7		4MW-1		4MW-2	
	ORIGINAL ID ----->	002H000401		002G000501		002G000701		002GW00701		004G000101		004G000201	
	SAMPLE DATE ----->	12/02/94		12/01/94		12/23/94		01/19/95		12/15/94		12/15/94	
	DATE EXTRACTED -->	12/06/94		12/06/94		12/27/94		01/23/95		12/19/94		12/19/94	
	DATE ANALYZED --->	12/06/94		12/06/94		12/27/94		01/25/95		12/19/94		12/19/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	10867	VAL	10867	VAL	11234	VAL	11626	VAL	11134	VAL	11134	VAL
7440-38-2	Arsenic (As)	0.05	U	0.05	U	0.05	U	0.05	U	0.075		0.05	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

ARSENIC	SHORT ID --------->	4GB-4 (40')		4GB-4 (60')		4GB-4 (80')		4GB-4 (100')		4MW-3		4MW-4	
	ORIGINAL ID ----->	004G00G401		004G00G402		004G00G403		004G00G404		004GW00301		004GW00404	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		01/31/95		01/13/95		01/20/95	
	DATE EXTRACTED -->	02/02/95		02/02/95		02/02/95		02/02/95		01/16/95		01/23/95	
	DATE ANALYZED --->	02/03/95		02/03/95		02/03/95		02/03/95		01/16/95		01/25/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	11834	VAL	11834	VAL	11834	VAL	11834	VAL	11513	VAL	11626	VAL
7440-38-2	Arsenic (As)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

ARSENIC	SHORT ID --------->	EMW-1		EMW-2		EMW-3		EMW-4		EMW-4 Dup		EMW-6	
	ORIGINAL ID ----->	00EG000101		00EG000201		00EG000301		00EG000401		00EH000401		00EG000601	
	SAMPLE DATE ----->	11/30/94		12/01/94		12/01/94		12/01/94		12/01/94		11/30/94	
	DATE EXTRACTED -->	12/02/94		12/06/94		12/06/94		12/06/94		12/06/94		12/06/94	
	DATE ANALYZED --->	12/02/94		12/06/94		12/06/94		12/06/94		12/06/94		12/06/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	10834	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL
7440-38-2	Arsenic (As)	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

ARSENIC										
	SHORT ID --------->	EMW-7		EMW-6A		EMW-6B				
	ORIGINAL ID ----->	00EG000701		00EG0006A0		00EG006B01				
	SAMPLE DATE ----->	12/01/94		11/30/94		11/30/94				
	DATE EXTRACTED -->	12/06/94		12/06/94		12/02/94				
	DATE ANALYZED --->	12/06/94		12/06/94		12/02/94				
	MATRIX ---------->	Water		Water		Water				
	UNITS ----------->	MG/L		MG/L		MG/L				
CAS #	Parameter	10867	VAL	10867	VAL	10834	VAL			
7440-38-2	Arsenic (As)	0.05	U	0.05	U	0.05	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

DCA

	SHORT ID --------->	4GB-4 (40')	4GB-4 (60')	4GB-4 (80')	4GB-4 (100')		
	ORIGINAL ID ----->	004G00G401	004G00G402	004G00G403	004G00G404		
	SAMPLE DATE ----->	01/31/95	01/31/95	01/31/95	01/31/95		
	DATE ANALYZED --->	02/06/95	02/06/95	02/06/95	02/07/95		
	MATRIX ---------->	Water	Water	Water	Water		
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L		
CAS #	Parameter	11834 VAL	11834 VAL	11834 VAL	11834 VAL		
95-76-1	3,4-Dichloroaniline	10. U	10. U	10. U	10. U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

LEAD	SHORT ID --------->	1MW-3	1MW-4	1MW-5	1MW-6	1GB-1 (36')	1GB-2 (42')
	ORIGINAL ID ----->	001G000301	001G000401	001G000501	001G000601	001GGB0101	001GGB0201
	SAMPLE DATE ----->	11/30/94	11/30/94	11/30/94	11/30/94	12/20/94	12/20/94
	DATE EXTRACTED -->	12/02/94	12/02/94	12/02/94	12/02/94	12/23/94	12/23/94
	DATE ANALYZED --->	12/02/94	12/02/94	12/02/94	12/02/94	12/27/94	12/27/94
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L

CAS #	Parameter	10834	VAL	10834	VAL	10834	VAL	10834	VAL	11213	VAL	11213	VAL
7439-92-1	Lead (Pb)	0.0098		0.011		0.0052		0.0029		0.047		0.49	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

LEAD	SHORT ID --------->	1GB-2 (61.5')		1GB-2 (80')		1GB-2 (102')		1GB-3 (37.5')		1GB-3 (60')		1GB-3 (80')	
	ORIGINAL ID ----->	001GGB0202		001GGB0203		001GGB0204		001GGB0301		001GGB0302		001GGB0303	
	SAMPLE DATE ----->	12/21/94		12/22/94		12/23/94		12/21/94		12/23/94		12/23/94	
	DATE EXTRACTED -->	12/23/94		12/27/94		12/27/94		12/23/94		12/27/94		12/27/94	
	DATE ANALYZED --->	12/27/94		12/27/94		12/27/94		12/27/94		12/27/94		12/27/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	11213	VAL	11234	VAL	11234	VAL	11213	VAL	11234	VAL	11234	VAL
7439-92-1	Lead (Pb)	0.096		0.03		0.28		0.12		0.041		0.057	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

LEAD	SHORT ID --------->	1GB-3 (100')	1GB-4 (40')	1GB-4 (40') Dup	1GB-4 (60')	1GB-4 (80')	1GB-4 (107')
	ORIGINAL ID ----->	001GGB0304	001GGB0401	001HGB0401	001GGB0402	001GGB0403	001GGB0404
	SAMPLE DATE ----->	12/23/94	01/05/95	01/05/95	01/09/95	01/09/95	01/09/95
	DATE EXTRACTED -->	12/27/94	01/09/95	01/09/95	01/12/95	01/12/95	01/12/95
	DATE ANALYZED --->	12/27/94	01/09/95	01/09/95	01/12/95	01/12/95	01/12/95
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ----------->	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
CAS #	Parameter	11234 VAL	11379 VAL	11379 VAL	11462 VAL	11462 VAL	11462 VAL
7439-92-1	Lead (Pb)	0.064	0.061	0.066	0.16	0.077	0.3

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

LEAD

	SHORT ID --------->	1MW-7	2MW-2	2MW-3	2MW-4	2MW-4 Dup	2MW-5
	ORIGINAL ID ----->	001GW00701	002G000201	002G000301	002G000401	002H000401	002G000501
	SAMPLE DATE ----->	01/13/95	12/01/94	12/02/94	12/02/94	12/02/94	12/01/94
	DATE EXTRACTED -->	01/16/95	12/06/94	12/06/94	12/06/94	12/06/94	12/06/94
	DATE ANALYZED --->	01/16/95	12/06/94	12/06/94	12/06/94	12/06/94	12/06/94
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
CAS #	Parameter	11513 VAL	10867 VAL	10867 VAL	10867 VAL	10867 VAL	10867 VAL
7439-92-1	Lead (Pb)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

LEAD

SHORT ID -------->	2MW-7		2MW-7		4MW-1		4MW-2		4GB-4 (40')		4GB-4 (60')	
ORIGINAL ID ----->	002G000701		002GW00701		004G000101		004G000201		004G000401		004G000402	
SAMPLE DATE ----->	12/23/94		01/19/95		12/15/94		12/15/94		01/31/95		01/31/95	
DATE EXTRACTED -->	12/27/94		01/23/95		12/19/94		12/19/94		02/02/95		02/02/95	
DATE ANALYZED --->	12/27/94		01/25/95		12/19/94		12/19/94		02/03/95		02/03/95	
MATRIX ---------->	Water		Water		Water		Water		Water		Water	
UNITS ----------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	11234 VAL		11626 VAL		11134 VAL		11134 VAL		11834 VAL		11834 VAL	
7439-92-1	Lead (Pb)	0.049		0.001	U	0.0039		0.001	U	0.0036		0.03	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

LEAD	SHORT ID --------->	4GB-4 (80')		4GB-4 (100')		4MW-3		4MW-4		EMW-1		EMW-2	
	ORIGINAL ID ----->	004G00G403		004G00G404		004GW00301		004GW00404		00EG000101		00EG000201	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/13/95		01/20/95		11/30/94		12/01/94	
	DATE EXTRACTED -->	02/02/95		02/02/95		01/16/95		01/23/95		12/02/94		12/06/94	
	DATE ANALYZED --->	02/03/95		02/03/95		01/16/95		01/25/95		12/02/94		12/06/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	MG/L		MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter	11834	VAL	11834	VAL	11513	VAL	11626	VAL	10834	VAL	10867	VAL
7439-92-1	Lead (Pb)	0.0091		0.0071		0.001	U	0.001	U	0.001	U	0.001	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

LEAD	SHORT ID --------->	EMW-3	EMW-4	EMW-4 Dup	EMW-6	EMW-7	EMW-6A
	ORIGINAL ID ----->	00EG000301	00EG000401	00EH000401	00EG000601	00EG000701	00EG0006A0
	SAMPLE DATE ----->	12/01/94	12/01/94	12/01/94	11/30/94	12/01/94	11/30/94
	DATE EXTRACTED -->	12/06/94	12/06/94	12/06/94	12/06/94	12/06/94	12/06/94
	DATE ANALYZED --->	12/06/94	12/06/94	12/06/94	12/06/94	12/06/94	12/06/94
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L

CAS #	Parameter	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL
7439-92-1	Lead (Pb)	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

LEAD

SHORT ID --------->	EMW-68
ORIGINAL ID ----->	00EG006801
SAMPLE DATE ----->	11/30/94
DATE EXTRACTED -->	12/02/94
DATE ANALYZED --->	12/02/94
MATRIX ---------->	Water
UNITS ----------->	MG/L

CAS #	Parameter	10834	VAL
7439-92-1	Lead (Pb)	0.0088	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

METAL		SHORT ID --------->	9MW-1					
		ORIGINAL ID ----->	009GW00101					
		SAMPLE DATE ----->	01/13/95					
		DATE EXTRACTED -->	01/16/95					
		DATE ANALYZED --->	01/16/95					
		MATRIX ---------->	Water					
		UNITS ----------->	MG/L					
CAS #	Parameter		11513	VAL				
7429-90-5	Aluminum (Al)		0.15					
7440-36-0	Antimony (Sb)		0.003	U				
7440-38-2	Arsenic (As)		0.12					
7440-39-3	Barium (Ba)		0.13					
7440-41-7	Beryllium (Be)		0.0003	U				
7440-43-9	Cadmium (Cd)		0.004	U				
7440-70-2	Calcium (Ca)		52.					
7440-47-3	Chromium (Cr)		0.007	U				
7440-48-4	Cobalt (Co)		0.007	U				
7439-89-6	Iron (Fe)		6.5					
7439-92-1	Lead (Pb)		0.001	U				
7439-95-4	Magnesium (Mg)		27.					
7439-96-5	Manganese (Mn)		6.6					
7439-97-6	Mercury (Hg)		0.0002	U				
7440-02-0	Nickel (Ni)		0.01	U				
7440-09-7	Potassium (K)		8.4					
7782-49-2	Selenium (Se)		0.07	U				
7440-22-4	Silver (Ag)		0.007	U				
7440-28-0	Thallium (Tl)		0.001	U				
7440-62-2	Vanadium (V)		0.056					
7440-66-6	Zinc (Zn)		0.0026					

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

PEST													
	SHORT ID --------->	1MW-3		1MW-4		1MW-5		1MW-6		1GB-1 (36')		1GB-2 (42')	
	ORIGINAL ID ----->	001G000301		001G000401		001G000501		001G000601		001GGB0101		001GGB0201	
	SAMPLE DATE ----->	11/30/94		11/30/94		11/30/94		11/30/94		12/20/94		12/20/94	
	DATE EXTRACTED -->	12/04/94		12/04/94		12/04/94		12/04/94		12/22/94		12/22/94	
	DATE ANALYZED --->	12/06/94		12/06/94		12/06/94		12/06/94		12/23/94		12/23/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	10834	VAL	10834	VAL	10834	VAL	10834	VAL	11213	VAL	11213	VAL
319-84-6	Alpha-BHC	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
319-85-7	Beta-BHC	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
319-86-8	Delta-BHC	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor Epoxide	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U
959-98-8	Endosulfan I	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-55-9	4,4'-DDE	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
72-20-8	Endrin	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
33213-65-9	Endosulfan II	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
72-54-8	4,4'-DDD	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
7421-93-4	Endrin aldehyde	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
1031-07-8	Endosulfan Sulfate	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U
50-29-3	4,4'-DDT	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
72-43-5	Methoxychlor	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
57-74-9	Chlordane	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
8001-35-2	Toxaphene	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
12674-11-2	Aroclor-1016	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U
11104-28-2	Aroclor-1221	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
11141-16-5	Aroclor-1232	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
53469-21-9	Aroclor-1242	0.65	U	0.65	U	0.65	U	0.65	U	0.65	U	0.65	U
12672-29-6	Aroclor-1248	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
11097-69-1	Aroclor-1254	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
11096-82-5	Aroclor-1260	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

PEST	SHORT ID --------->	1GB-2 (61.5')		1GB-2 (80')		1GB-2 (102')		1GB-3 (37.5')		1GB-3 (60')		1GB-3 (80')	
	ORIGINAL ID ----->	001GGB0202		001GGB0203		001GGB0204		001GGB0301		001GGB0302		001GGB0303	
	SAMPLE DATE ----->	12/21/94		12/22/94		12/23/94		12/21/94		12/23/94		12/23/94	
	DATE EXTRACTED -->	12/22/94		12/28/94		12/28/94		12/22/94		12/28/94		12/28/94	
	DATE ANALYZED --->	12/23/94		12/29/94		12/29/94		12/23/94		12/29/94		12/30/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11213	VAL	11234	VAL	11234	VAL	11213	VAL	11234	VAL	11234	VAL
319-84-6	Alpha-BHC	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
319-85-7	Beta-BHC	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
319-86-8	Delta-BHC	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor Epoxide	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U
959-98-8	Endosulfan I	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-55-9	4,4'-DDE	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
72-20-8	Endrin	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
33213-65-9	Endosulfan II	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
72-54-8	4,4'-DDD	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
7421-93-4	Endrin aldehyde	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
1031-07-8	Endosulfan Sulfate	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U
50-29-3	4,4'-DDT	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
72-43-5	Methoxychlor	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
57-74-9	Chlordane	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
8001-35-2	Toxaphene	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
12674-11-2	Aroclor-1016	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U
11104-28-2	Aroclor-1221	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
11141-16-5	Aroclor-1232	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
53469-21-9	Aroclor-1242	0.65	U	0.65	U	0.65	U	0.65	U	0.65	U	0.65	U
12672-29-6	Aroclor-1248	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
11097-69-1	Aroclor-1254	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
11096-82-5	Aroclor-1260	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

PEST													
	SHORT ID -------->	1GB-3 (100')		2MW-2		2MW-3		2MW-4		2MW-4 Dup		2MW-5	
	ORIGINAL ID ----->	001GGB0304		002G000201		002G000301		002G000401		002H000401		002G000501	
	SAMPLE DATE ----->	12/23/94		12/01/94		12/02/94		12/02/94		12/02/94		12/01/94	
	DATE EXTRACTED -->	12/28/94		12/06/94		12/06/94		12/07/94		12/07/94		12/06/94	
	DATE ANALYZED --->	12/30/94		12/08/94		12/08/94		12/08/94		12/08/94		12/08/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11234	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL
319-84-6	Alpha-BHC	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
319-85-7	Beta-BHC	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
319-86-8	Delta-BHC	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor Epoxide	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U
959-98-8	Endosulfan I	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-55-9	4,4'-DDE	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
72-20-8	Endrin	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
33213-65-9	Endosulfan II	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
72-54-8	4,4'-DDD	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
7421-93-4	Endrin aldehyde	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
1031-07-8	Endosulfan Sulfate	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U
50-29-3	4,4'-DDT	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
72-43-5	Methoxychlor	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
57-74-9	Chlordane	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
8001-35-2	Toxaphene	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
12674-11-2	Aroclor-1016	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U
11104-28-2	Aroclor-1221	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
11141-16-5	Aroclor-1232	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
53469-21-9	Aroclor-1242	0.65	U	0.65	U	0.65	U	0.65	U	0.65	U	0.65	U
12672-29-6	Aroclor-1248	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
11097-69-1	Aroclor-1254	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
11096-82-5	Aroclor-1260	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

PEST													
	SHORT ID --------->	4MW-1		4MW-2		4GB-4 (40')		4GB-4 (60')		4GB-4 (80')		4GB-4 (100')	
	ORIGINAL ID ----->	004G000101		004G000201		004G000401		004G000402		004G000403		004G000404	
	SAMPLE DATE ----->	12/15/94		12/15/94		01/31/95		01/31/95		01/31/95		01/31/95	
	DATE EXTRACTED -->	12/20/94		12/20/94		02/03/95		02/03/95		02/03/95		02/03/95	
	DATE ANALYZED --->	12/21/94		12/21/94		02/07/95		02/07/95		02/07/95		02/07/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11134	VAL	11134	VAL	11834	VAL	11834	VAL	11834	VAL	11834	VAL
319-84-6	Alpha-BHC	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
319-85-7	Beta-BHC	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
319-86-8	Delta-BHC	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U	0.03	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
1024-57-3	Heptachlor Epoxide	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U	0.83	U
959-98-8	Endosulfan I	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
72-55-9	4,4'-DDE	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
72-20-8	Endrin	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U
33213-65-9	Endosulfan II	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U	0.04	U
72-54-8	4,4'-DDD	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
7421-93-4	Endrin aldehyde	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U	0.23	U
1031-07-8	Endosulfan Sulfate	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U	0.66	U
50-29-3	4,4'-DDT	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
72-43-5	Methoxychlor	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U	1.8	U
57-74-9	Chlordane	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U	0.14	U
8001-35-2	Toxaphene	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
12674-11-2	Aroclor-1016	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U	0.89	U
11104-28-2	Aroclor-1221	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U
11141-16-5	Aroclor-1232	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
53469-21-9	Aroclor-1242	0.65	U	0.65	U	0.65	U	0.65	U	0.65	U	0.65	U
12672-29-6	Aroclor-1248	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U	2.6	U
11097-69-1	Aroclor-1254	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
11096-82-5	Aroclor-1260	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U	0.36	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

PEST	SHORT ID --------->	9MW-1		EMW-1		EMW-2		EMW-3		EMW-4		EMW-4 Dup	
	ORIGINAL ID ----->	009GW00101		00EG000101		00EG000201		00EG000301		00EG000401		00EH000401	
	SAMPLE DATE ----->	01/13/95		11/30/94		12/01/94		12/01/94		12/01/94		12/01/94	
	DATE EXTRACTED -->	01/16/95		12/04/94		12/06/94		12/06/94		12/06/94		12/06/94	
	DATE ANALYZED --->	01/18/95		12/06/94		12/08/94		12/08/94		12/08/94		12/08/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11513	VAL	10834	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL
319-84-6	Alpha-BHC	0.03	U	0.03	U	0.03	U	0.2	U	0.03	U	0.03	U
319-85-7	Beta-BHC	0.06	U	0.06	U	0.06	U	0.3	U	0.06	U	0.06	U
319-86-8	Delta-BHC	0.09	U	0.09	U	0.09	U	0.4	U	0.09	U	0.09	U
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.2	U	0.04	U	0.04	U
76-44-8	Heptachlor	0.03	U	0.03	U	0.03	U	0.2	U	0.03	U	0.03	U
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.2	U	0.04	U	0.04	U
1024-57-3	Heptachlor Epoxide	0.83	U	0.83	U	0.83	U	4.2	U	0.83	U	0.83	U
959-98-8	Endosulfan I	0.14	U	0.14	U	0.14	U	0.7	U	0.14	U	0.14	U
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.1	U	0.02	U	0.02	U
72-55-9	4,4'-DDE	0.04	U	0.04	U	0.04	U	0.2	U	0.04	U	0.04	U
72-20-8	Endrin	0.06	U	0.06	U	0.06	U	0.3	U	0.06	U	0.06	U
33213-65-9	Endosulfan II	0.04	U	0.04	U	0.04	U	0.2	U	0.04	U	0.04	U
72-54-8	4,4'-DDD	0.11	U	0.11	U	0.11	U	0.55	U	0.11	U	0.11	U
7421-93-4	Endrin aldehyde	0.23	U	0.23	U	0.23	U	1.2	U	0.23	U	0.23	U
1031-07-8	Endosulfan Sulfate	0.66	U	0.66	U	0.66	U	3.3	U	0.66	U	0.66	U
50-29-3	4,4'-DDT	0.12	U	0.12	U	0.12	U	0.6	U	0.12	U	0.12	U
72-43-5	Methoxychlor	1.8	U	1.8	U	1.8	U	9.	U	1.8	U	1.8	U
57-74-9	Chlordane	0.14	U	0.14	U	0.14	U	0.7	U	0.14	U	0.14	U
8001-35-2	Toxaphene	2.4	U	2.4	U	2.4	U	12.	U	2.4	U	2.4	U
12674-11-2	Aroclor-1016	0.89	U	0.89	U	0.89	U	4.4	U	0.89	U	0.89	U
11104-28-2	Aroclor-1221	2.7	U	2.7	U	2.7	U	14.	U	2.7	U	2.7	U
11141-16-5	Aroclor-1232	0.48	U	0.48	U	0.48	U	2.4	U	0.48	U	0.48	U
53469-21-9	Aroclor-1242	0.65	U	0.65	U	0.65	U	3.2	U	0.65	U	0.65	U
12672-29-6	Aroclor-1248	2.6	U	2.6	U	2.6	U	13.	U	2.6	U	2.6	U
11097-69-1	Aroclor-1254	1.2	U	1.2	U	1.2	U	6.	U	1.2	U	1.2	U
11096-82-5	Aroclor-1260	0.36	U	0.36	U	0.36	U	1.8	U	0.36	U	0.36	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

PEST	SHORT ID --------->	EMW-6		EMW-7		EMW-6A		EMW-6B			
	ORIGINAL ID ----->	00EG000601		00EG000701		00EG0006A0		00EG006B01			
	SAMPLE DATE ----->	11/30/94		12/01/94		11/30/94		11/30/94			
	DATE EXTRACTED -->	12/06/94		12/06/94		12/06/94		12/04/94			
	DATE ANALYZED --->	12/08/94		12/08/94		12/08/94		12/06/94			
	MATRIX ---------->	Water		Water		Water		Water			
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L			
CAS #	Parameter	10867	VAL	10867	VAL	10867	VAL	10834	VAL		
319-84-6	Alpha-BHC	0.03	U	0.03	U	0.03	U	0.03	U		
319-85-7	Beta-BHC	0.06	U	0.06	U	0.06	U	0.06	U		
319-86-8	Delta-BHC	0.09	U	0.09	U	0.09	U	0.09	U		
58-89-9	gamma-BHC (Lindane)	0.04	U	0.04	U	0.04	U	0.04	U		
76-44-8	Heptachlor	0.03	U	0.03	U	0.03	U	0.03	U		
309-00-2	Aldrin	0.04	U	0.04	U	0.04	U	0.04	U		
1024-57-3	Heptachlor Epoxide	0.83	U	0.83	U	0.83	U	0.83	U		
959-98-8	Endosulfan I	0.14	U	0.14	U	0.14	U	0.14	U		
60-57-1	Dieldrin	0.02	U	0.02	U	0.02	U	0.02	U		
72-55-9	4,4'-DDE	0.04	U	0.04	U	0.04	U	0.04	U		
72-20-8	Endrin	0.06	U	0.06	U	0.06	U	0.06	U		
33213-65-9	Endosulfan II	0.04	U	0.04	U	0.04	U	0.04	U		
72-54-8	4,4'-DDD	0.11	U	0.11	U	0.11	U	0.11	U		
7421-93-4	Endrin aldehyde	0.23	U	0.23	U	0.23	U	0.23	U		
1031-07-8	Endosulfan Sulfate	0.66	U	0.66	U	0.66	U	0.66	U		
50-29-3	4,4'-DDT	0.12	U	0.12	U	0.12	U	0.12	U		
72-43-5	Methoxychlor	1.8	U	1.8	U	1.8	U	1.8	U		
57-74-9	Chlordane	0.14	U	0.14	U	0.14	U	0.14	U		
8001-35-2	Toxaphene	2.4	U	2.4	U	2.4	U	2.4	U		
12674-11-2	Aroclor-1016	0.89	U	0.89	U	0.89	U	0.89	U		
11104-28-2	Aroclor-1221	2.7	U	2.7	U	2.7	U	2.7	U		
11141-16-5	Aroclor-1232	0.48	U	0.48	U	0.48	U	0.48	U		
53469-21-9	Aroclor-1242	0.65	U	0.65	U	0.65	U	0.65	U		
12672-29-6	Aroclor-1248	2.6	U	2.6	U	2.6	U	2.6	U		
11097-69-1	Aroclor-1254	1.2	U	1.2	U	1.2	U	1.2	U		
11096-82-5	Aroclor-1260	0.36	U	0.36	U	0.36	U	0.36	U		

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA	SHORT ID --------->	1MW-1	1MW-2	1MW-3	1MW-4	1MW-5	1MW-6
	ORIGINAL ID ----->	001G000101	001G000201	001G000301	001G000401	001G000501	001G000601
	SAMPLE DATE ----->	11/29/94	11/29/94	11/30/94	11/30/94	11/30/94	11/30/94
	DATE EXTRACTED -->	12/02/94	12/02/94	12/02/94	12/02/94	12/02/94	12/02/94
	DATE ANALYZED --->	12/02/94	12/03/94	12/03/94	12/03/94	12/07/94	12/07/94
	MATRIX ---------->	Water	Water	Water	Water	Water	Water
	UNITS ---------->	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L

CAS #	Parameter	10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	31.		10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	bis(2-chloroisopropyl) ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA		SHORT ID --------->	1MW-1		1MW-2		1MW-3		1MW-4		1MW-5		1MW-6	
		ORIGINAL ID ----->	001G000101		001G000201		001G000301		001G000401		001G000501		001G000601	
		SAMPLE DATE ----->	11/29/94		11/29/94		11/30/94		11/30/94		11/30/94		11/30/94	
		DATE EXTRACTED -->	12/02/94		12/02/94		12/02/94		12/02/94		12/02/94		12/02/94	
		DATE ANALYZED --->	12/02/94		12/03/94		12/03/94		12/03/94		12/07/94		12/07/94	
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter		10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL
7005-72-3	4-Chlorophenyl-phenylether		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline		50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	4,6-Dinitro-2-methylphenol		50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol		50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine		20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-85-7	Dinoseb		7.	U	7.	U	7.	U	7.	U	7.	U	7.	U
65-85-0	Benzoic acid		50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
106-47-8	4-Chloroaniline		20.	U	20.	U	100.		20.	U	20.	U	20.	U
84-74-2	Di-n-butylphthalate		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA	SHORT ID --------->	1GB-1 (36')		1GB-2 (42')		1GB-2 (61.5')		1GB-2 (80')		1GB-2 (102')		1GB-3 (37.5')	
	ORIGINAL ID ----->	001GGB0101		001GGB0201		001GGB0202		001GGB0203		001GGB0204		001GGB0301	
	SAMPLE DATE ----->	12/20/94		12/20/94		12/21/94		12/22/94		12/23/94		12/21/94	
	DATE EXTRACTED -->	12/22/94		12/22/94		12/22/94		12/27/94		12/27/94		12/22/94	
	DATE ANALYZED --->	12/23/94		12/23/94		12/23/94		12/27/94		12/27/94		12/23/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11213	VAL	11213	VAL	11213	VAL	11234	VAL	11234	VAL	11213	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	bis(2-chloroisopropyl) ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA																					
	SHORT ID --------->	1GB-1 (36')		1GB-2 (42')		1GB-2 (61.5')		1GB-2 (80')		1GB-2 (102')		1GB-3 (37.5')	
	ORIGINAL ID ----->	001GGB0101		001GGB0201		001GGB0202		001GGB0203		001GGB0204		001GGB0301	
	SAMPLE DATE ----->	12/20/94		12/20/94		12/21/94		12/22/94		12/23/94		12/21/94	
	DATE EXTRACTED -->	12/22/94		12/22/94		12/22/94		12/27/94		12/27/94		12/22/94	
	DATE ANALYZED --->	12/23/94		12/23/94		12/23/94		12/27/94		12/27/94		12/23/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11213	VAL	11213	VAL	11213	VAL	11234	VAL	11234	VAL	11213	VAL
7005-72-3	4-Chlorophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-85-7	Dinoseb	7.	U	7.	U	7.	U	7.	U	7.	U	7.	U
65-85-0	Benzoic acid	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
106-47-8	4-Chloroaniline	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA																	
	SHORT ID --------->	1GB-3 (60')		1GB-3 (80')		1GB-3 (100')		1GB-4 (40')		1GB-4 (40') Dup		1GB-4 (60')	
	ORIGINAL ID ----->	001GGB0302		001GGB0303		001GGB0304		001GGB0401		001HGB0401		001GGB0402	
	SAMPLE DATE ----->	12/23/94		12/23/94		12/23/94		01/05/95		01/05/95		01/09/95	
	DATE EXTRACTED -->	12/27/94		12/27/94		12/27/94		01/10/95		01/10/95		01/13/95	
	DATE ANALYZED --->	12/28/94		12/28/94		12/28/94		01/10/95		01/10/95		01/13/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11234	VAL	11234	VAL	11234	VAL	11379	VAL	11379	VAL	11462	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-60-1	bis(2-chloroisopropyl) ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA	SHORT ID --------->	1GB-3 (60')		1GB-3 (80')		1GB-3 (100')		1GB-4 (40')		1GB-4 (40') Dup		1GB-4 (60')	
	ORIGINAL ID ----->	001GGB0302		001GGB0303		001GGB0304		001GGB0401		001NGB0401		001GGB0402	
	SAMPLE DATE ----->	12/23/94		12/23/94		12/23/94		01/05/95		01/05/95		01/09/95	
	DATE EXTRACTED -->	12/27/94		12/27/94		12/27/94		01/10/95		01/10/95		01/13/95	
	DATE ANALYZED --->	12/28/94		12/28/94		12/28/94		01/10/95		01/10/95		01/13/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11234	VAL	11234	VAL	11234	VAL	11379	VAL	11379	VAL	11462	VAL
7005-72-3	4-Chlorophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-85-7	Dinoseb	7.	U	7.	U	7.	U	7.	U	7.	U	7.	U
65-85-0	Benzoic acid	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
106-47-8	4-Chloroaniline	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA	SHORT ID --------->	1GB-4 (80')		1GB-4 (107')		1MW-7		2MW-2		2MW-3		2MW-4	
	ORIGINAL ID ----->	001GGB0403		001GGB0404		001GW00701		0026000201		0026000301		0026000401	
	SAMPLE DATE ----->	01/09/95		01/09/95		01/13/95		12/01/94		12/02/94		12/02/94	
	DATE EXTRACTED -->	01/13/95		01/13/95		01/16/95		12/06/94		12/06/94		12/06/94	
	DATE ANALYZED --->	01/13/95		01/13/95		01/17/95		12/09/94		12/09/94		12/09/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11462	VAL	11462	VAL	11513	VAL	10867	VAL	10867	VAL	10867	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	250.		10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	40.		51.		20.	
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	25.		10.	U
108-60-1	bis(2-chloroisopropyl) ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	71.		10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA		SHORT ID --------->	1GB-4 (80')		1GB-4 (107')		1MW-7		2MW-2		2MW-3		2MW-4	
		ORIGINAL ID ----->	001GGB0403		001GGB0404		001GW00701		002G000201		002G000301		002G000401	
		SAMPLE DATE ----->	01/09/95		01/09/95		01/13/95		12/01/94		12/02/94		12/02/94	
		DATE EXTRACTED -->	01/13/95		01/13/95		01/16/95		12/06/94		12/06/94		12/06/94	
		DATE ANALYZED --->	01/13/95		01/13/95		01/17/95		12/09/94		12/09/94		12/09/94	
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter		11462	VAL	11462	VAL	11513	VAL	10867	VAL	10867	VAL	10867	VAL
7005-72-3	4-Chlorophenyl-phenylether		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline		50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	4,6-Dinitro-2-methylphenol		50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol		50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine		20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-85-7	Dinoseb		7.	U	7.	U	7.	U	7.	U	7.	U	7.	U
65-85-0	Benzoic acid		50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
106-47-8	4-Chloroaniline		20.	U	20.	U	20.	U	20.	U	57.		140.	
84-74-2	Di-n-butylphthalate		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA	SHORT ID --------->	2MW-4 Dup		2MW-5		2MW-7		2MW-6		2MW-7		4MW-1	
	ORIGINAL ID ----->	002H000401		002G000501		002G000701		002GW00602		002GW00701		004G000101	
	SAMPLE DATE ----->	12/02/94		12/01/94		12/23/94		01/20/95		01/19/95		12/15/94	
	DATE EXTRACTED -->	12/06/94		12/06/94		12/27/94		01/24/95		01/24/95		12/19/94	
	DATE ANALYZED --->	12/09/94		12/09/94		12/27/94		01/24/95		01/24/95		12/21/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	10867	VAL	10867	VAL	11234	VAL	11626	VAL	11626	VAL	11134	VAL
108-95-2	Phenol	2.		10.	U	10.	U	10.	U	10.	U	2400.	
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	110.	
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
100-51-6	Benzyl alcohol	20.	U	20.	U	20.	U	20.	U	20.	U	200.	U
95-50-1	1,2-Dichlorobenzene	22.		11.		10.	U	15.		10.	U	820.	
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	180.	
108-60-1	bis(2-chloroisopropyl) ether	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	340.	
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	150.	
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	20.	U	20.	U	20.	U	20.	U	200.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
95-95-4	2,4,5-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	500.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	500.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	500.	U
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	500.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA	SHORT ID --------->	2MW-4 Dup		2MW-5		2MW-7		2MW-6		2MW-7		4MW-1	
	ORIGINAL ID ----->	002H000401		002G000501		002G000701		002GW00602		002GW00701		004G000101	
	SAMPLE DATE ----->	12/02/94		12/01/94		12/23/94		01/20/95		01/19/95		12/15/94	
	DATE EXTRACTED -->	12/06/94		12/06/94		12/27/94		01/24/95		01/24/95		12/19/94	
	DATE ANALYZED --->	12/09/94		12/09/94		12/27/94		01/24/95		01/24/95		12/21/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	10867	VAL	10867	VAL	11234	VAL	11626	VAL	11626	VAL	11134	VAL
7005-72-3	4-Chlorophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	50.	U	50.	U	500.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	50.	U	50.	U	50.	U	50.	U	500.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	500.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	200.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U
88-85-7	Dinoseb	7.	U	26.		7.	U	7.	U	7.	U	70.	U
65-85-0	Benzoic acid	50.	U	50.	U	50.	U	50.	U	50.	U	500.	U
106-47-8	4-Chloroaniline	170.		20.	U	20.	U	20.	U	20.	U	5800.	
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	100.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA																	
	SHORT ID --------->	4MW-2		4GB-3 (51')		4GB-3 (65')		4GB-3 (80')		4GB-3 (95')		4GB-4 (40')					
	ORIGINAL ID ----->	004G000201		004G00G301		004G00G302		004G00G303		004G00G304		004G00G401					
	SAMPLE DATE ----->	12/15/94		12/13/94		12/14/94		12/14/94		12/14/94		01/31/95					
	DATE EXTRACTED -->	12/19/94		12/19/94		12/19/94		12/19/94		12/19/94		02/03/95					
	DATE ANALYZED --->	12/21/94		12/21/94		12/21/94		12/21/94		12/21/94		02/06/95					
	MATRIX ---------->	Water		Water		Water		Water		Water		Water					
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L					
CAS #	Parameter	11134	VAL	11097	VAL	11097	VAL	11097	VAL	11097	VAL	11834	VAL				
108-95-2	Phenol	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
111-44-4	bis(2-Chloroethyl)ether	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
95-57-8	2-Chlorophenol	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
541-73-1	1,3-Dichlorobenzene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
106-46-7	1,4-Dichlorobenzene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
100-51-6	Benzyl alcohol	400.	U	20.	U	20.	U	20.	U	20.	U	20.	U				
95-50-1	1,2-Dichlorobenzene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
95-48-7	2-Methylphenol (o-Cresol)	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
108-60-1	bis(2-chloroisopropyl) ether	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
106-44-5	4-Methylphenol (p-Cresol)	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
621-64-7	N-Nitroso-di-n-propylamine	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
67-72-1	Hexachloroethane	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
98-95-3	Nitrobenzene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
78-59-1	Isophorone	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
88-75-5	2-Nitrophenol	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
105-67-9	2,4-Dimethylphenol	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
111-91-1	bis(2-Chloroethoxy)methane	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
120-83-2	2,4-Dichlorophenol	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
120-82-1	1,2,4-Trichlorobenzene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
91-20-3	Naphthalene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
87-68-3	Hexachlorobutadiene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
59-50-7	4-Chloro-3-methylphenol	400.	U	20.	U	20.	U	20.	U	20.	U	20.	U				
91-57-6	2-Methylnaphthalene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
77-47-4	Hexachlorocyclopentadiene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
88-06-2	2,4,6-Trichlorophenol	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
95-95-4	2,4,5-Trichlorophenol	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
91-58-7	2-Chloronaphthalene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
88-74-4	2-Nitroaniline	1000.	U	50.	U	50.	U	50.	U	50.	U	50.	U				
131-11-3	Dimethylphthalate	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
208-96-8	Acenaphthylene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
99-09-2	3-Nitroaniline	1000.	U	50.	U	50.	U	50.	U	50.	U	50.	U				
83-32-9	Acenaphthene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
51-28-5	2,4-Dinitrophenol	1000.	U	50.	U	50.	U	50.	U	50.	U	50.	U				
100-02-7	4-Nitrophenol	1000.	U	50.	U	50.	U	50.	U	50.	U	50.	U				
132-64-9	Dibenzofuran	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
121-14-2	2,4-Dinitrotoluene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
606-20-2	2,6-Dinitrotoluene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				
84-66-2	Diethylphthalate	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA	SHORT ID --------->	4MW-2		4GB-3 (51')		4GB-3 (65')		4GB-3 (80')		4GB-3 (95')		4GB-4 (40')	
	ORIGINAL ID ----->	004G000201		004G00G301		004G00G302		004G00G303		004G00G304		004G00G401	
	SAMPLE DATE ----->	12/15/94		12/13/94		12/14/94		12/14/94		12/14/94		01/31/95	
	DATE EXTRACTED -->	12/19/94		12/19/94		12/19/94		12/19/94		12/19/94		02/03/95	
	DATE ANALYZED --->	12/21/94		12/21/94		12/21/94		12/21/94		12/21/94		02/06/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11134	VAL	11097	VAL	11097	VAL	11097	VAL	11097	VAL	11834	VAL
7005-72-3	4-Chlorophenyl-phenylether	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	1000.	U	50.	U	50.	U	50.	U	50.	U	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	1000.	U	50.	U	50.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	1000.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	400.	U	20.	U	20.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-85-7	Dinoseb	170000.		7.	U	7.	U	7.	U	7.	U	7.	U
65-85-0	Benzoic acid	1000.	U	50.	U	50.	U	50.	U	50.	U	50.	U
106-47-8	4-Chloroaniline	400.	U	20.	U	20.	U	20.	U	20.	U	20.	U
84-74-2	Di-n-butylphthalate	200.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA																	
	SHORT ID -------->	4GB-4 (60')		4GB-4 (80')		4GB-4 (100')		4MW-3		4MW-4		9GB-21 (30')	
	ORIGINAL ID ----->	004G000402		004G000403		004G000404		004GW00301		004GW00404		0096002101	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		01/13/95		01/20/95		12/07/94	
	DATE EXTRACTED -->	02/03/95		02/03/95		02/03/95		01/16/95		01/24/95		12/12/94	
	DATE ANALYZED --->	02/06/95		02/06/95		02/07/95		01/17/95		01/25/95		12/15/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11834	VAL	11834	VAL	11834	VAL	11513	VAL	11626	VAL	11008	VAL
108-95-2	Phenol	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
100-51-6	Benzyl alcohol	20.	U	20.	U	20.	U	200.	U	20.	U	200.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
108-60-1	bis(2-chloroisopropyl) ether	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	20.	U	20.	U	200.	U	20.	U	200.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
95-95-4	2,4,5-Trichlorophenol	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
88-74-4	2-Nitroaniline	50.	U	50.	U	50.	U	500.	U	50.	U	500.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
99-09-2	3-Nitroaniline	50.	U	50.	U	50.	U	500.	U	50.	U	500.	U
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	500.	U	50.	U	500.	U
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	500.	U	50.	U	500.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA	SHORT ID --------->	4GB-4 (60')		4GB-4 (80')		4GB-4 (100')		4MW-3		4MW-4		9GB-21 (30')	
	ORIGINAL ID ----->	004G00G402		004G00G403		004G00G404		004GW00301		004GW00404		009G002101	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/31/95		01/13/95		01/20/95		12/07/94	
	DATE EXTRACTED -->	02/03/95		02/03/95		02/03/95		01/16/95		01/24/95		12/12/94	
	DATE ANALYZED --->	02/06/95		02/06/95		02/07/95		01/17/95		01/25/95		12/15/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11834	VAL	11834	VAL	11834	VAL	11513	VAL	11626	VAL	11008	VAL
7005-72-3	4-Chlorophenyl-phenylether	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
100-01-6	4-Nitroaniline	50.	U	50.	U	50.	U	500.	U	50.	U	500.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	50.	U	50.	U	500.	U	50.	U	500.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	500.	U	50.	U	500.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	200.	U	20.	U	200.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U
88-85-7	Dinoseb	7.	U	7.	U	7.	U	70.	U	7.	U	1000.	
65-85-0	Benzoic acid	50.	U	50.	U	50.	U	500.	U	50.	U	500.	U
106-47-8	4-Chloroaniline	20.	U	20.	U	20.	U	200.	U	20.	U	200.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	100.	U	10.	U	100.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA	SHORT ID --------->	9GB-21 (45')		9GB-21 (60')		9GB-21 (75')		9GB-21 (90')		9MW-1		EMW-1	
	ORIGINAL ID ----->	009G002102		009G002103		009G002104		009G002105		009GW00101		00EG000101	
	SAMPLE DATE ----->	12/07/94		12/08/94		12/09/94		12/16/94		01/13/95		11/30/94	
	DATE EXTRACTED -->	12/12/94		12/12/94		12/12/94		12/19/94		01/16/95		12/02/94	
	DATE ANALYZED --->	12/15/94		12/15/94		12/15/94		12/21/94		01/17/95		12/07/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11134	VAL	11513	VAL	10834	VAL
108-95-2	Phenol	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
100-51-6	Benzyl alcohol	200.	U	200.	U	200.	U	20.	U	20.	U	20.	U
95-50-1	1,2-Dichlorobenzene	100.	U	100.	U	100.	U	10.	U	36.		18.	
95-48-7	2-Methylphenol (o-Cresol)	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
108-60-1	bis(2-chloroisopropyl) ether	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
67-72-1	Hexachloroethane	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
120-83-2	2,4-Dichlorophenol	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	200.	U	200.	U	200.	U	20.	U	20.	U	20.	U
91-57-6	2-Methylnaphthalene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
91-58-7	2-Chloronaphthalene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	500.	U	500.	U	500.	U	50.	U	50.	U	50.	U
131-11-3	Dimethylphthalate	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	500.	U	500.	U	500.	U	50.	U	50.	U	50.	U
83-32-9	Acenaphthene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
51-28-5	2,4-Dinitrophenol	500.	U	500.	U	500.	U	50.	U	50.	U	50.	U
100-02-7	4-Nitrophenol	500.	U	500.	U	500.	U	50.	U	50.	U	50.	U
132-64-9	Dibenzofuran	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
121-14-2	2,4-Dinitrotoluene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
606-20-2	2,6-Dinitrotoluene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA	SHORT ID --------->	9GB-21 (45')		9GB-21 (60')		9GB-21 (75')		9GB-21 (90')		9MW-1		EMW-1	
	ORIGINAL ID ----->	009G002102		009G002103		009G002104		009G002105		009GW00101		00EG000101	
	SAMPLE DATE ----->	12/07/94		12/08/94		12/09/94		12/16/94		01/13/95		11/30/94	
	DATE EXTRACTED -->	12/12/94		12/12/94		12/12/94		12/19/94		01/16/95		12/02/94	
	DATE ANALYZED --->	12/15/94		12/15/94		12/15/94		12/21/94		01/17/95		12/07/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11008	VAL	11008	VAL	11008	VAL	11134	VAL	11513	VAL	10834	VAL
7005-72-3	4-Chlorophenyl-phenylether	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	500.	U	500.	U	500.	U	50.	U	50.	U	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	500.	U	500.	U	500.	U	50.	U	50.	U	50.	U
86-30-6	N-Nitrosodiphenylamine	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
87-86-5	Pentachlorophenol	500.	U	500.	U	500.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
206-44-0	Fluoranthene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	200.	U	200.	U	200.	U	20.	U	20.	U	20.	U
56-55-3	Benzo(a)anthracene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U
88-85-7	Dinoseb	70.	U	70.	U	2800.		7.	U	18.		48.	
65-85-0	Benzoic acid	500.	U	500.	U	500.	U	50.	U	50.	U	50.	U
106-47-8	4-Chloroaniline	200.	U	200.	U	200.	U	20.	U	20.	U	20.	U
84-74-2	Di-n-butylphthalate	100.	U	100.	U	100.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA	SHORT ID --------->	EMW-2		EMW-3		EMW-4		EMW-4 Dup		EMW-6		EMW-7	
	ORIGINAL ID ----->	00EG000201		00EG000301		00EG000401		00EH000401		00EG000601		00EG000701	
	SAMPLE DATE ----->	12/01/94		12/01/94		12/01/94		12/01/94		11/30/94		12/01/94	
	DATE EXTRACTED -->	12/06/94		12/06/94		12/06/94		12/06/94		12/06/94		12/06/94	
	DATE ANALYZED --->	12/08/94		12/09/94		12/08/94		12/08/94		12/08/94		12/13/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL
108-95-2	Phenol	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
95-57-8	2-Chlorophenol	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
541-73-1	1,3-Dichlorobenzene	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
106-46-7	1,4-Dichlorobenzene	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
100-51-6	Benzyl alcohol	20.	U	40.	U	20.	U	20.	U	20.	U	200.	U
95-50-1	1,2-Dichlorobenzene	10.	U	280.		10.	U	10.	U	10.	U	100.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
108-60-1	bis(2-chloroisopropyl) ether	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
67-72-1	Hexachloroethane	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
98-95-3	Nitrobenzene	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
78-59-1	Isophorone	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
88-75-5	2-Nitrophenol	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
105-67-9	2,4-Dimethylphenol	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
120-83-2	2,4-Dichlorophenol	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
91-20-3	Naphthalene	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
87-68-3	Hexachlorobutadiene	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
59-50-7	4-Chloro-3-methylphenol	20.	U	40.	U	20.	U	20.	U	20.	U	200.	U
91-57-6	2-Methylnaphthalene	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
77-47-4	Hexachlorocyclopentadiene	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
95-95-4	2,4,5-Trichlorophenol	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
91-58-7	2-Chloronaphthalene	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
88-74-4	2-Nitroaniline	50.	U	100.	U	50.	U	50.	U	50.	U	500.	U
131-11-3	Dimethylphthalate	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
208-96-8	Acenaphthylene	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
99-09-2	3-Nitroaniline	50.	U	100.	U	50.	U	50.	U	50.	U	500.	U
83-32-9	Acenaphthene	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
51-28-5	2,4-Dinitrophenol	50.	U	100.	U	50.	U	50.	U	50.	U	500.	U
100-02-7	4-Nitrophenol	50.	U	100.	U	50.	U	50.	U	50.	U	500.	U
132-64-9	Dibenzofuran	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
121-14-2	2,4-Dinitrotoluene	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
606-20-2	2,6-Dinitrotoluene	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
84-66-2	Diethylphthalate	10.	U	20.	U	10.	U	10.	U	10.	U	100.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA		SHORT ID --------->	EMW-2		EMW-3		EMW-4		EMW-4 Dup		EMW-6		EMW-7	
		ORIGINAL ID ----->	00EG000201		00EG000301		00EG000401		00EH000401		00EG000601		00EG000701	
		SAMPLE DATE ----->	12/01/94		12/01/94		12/01/94		12/01/94		11/30/94		12/01/94	
		DATE EXTRACTED -->	12/06/94		12/06/94		12/06/94		12/06/94		12/06/94		12/06/94	
		DATE ANALYZED --->	12/08/94		12/09/94		12/08/94		12/08/94		12/08/94		12/13/94	
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter		10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL
7005-72-3	4-Chlorophenyl-phenylether		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
86-73-7	Fluorene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
100-01-6	4-Nitroaniline		50.	U	100.	U	50.	U	50.	U	50.	U	500.	U
534-52-1	4,6-Dinitro-2-methylphenol		50.	U	100.	U	50.	U	50.	U	50.	U	500.	U
86-30-6	N-Nitrosodiphenylamine		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
101-55-3	4-Bromophenyl-phenylether		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
118-74-1	Hexachlorobenzene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
87-86-5	Pentachlorophenol		50.	U	100.	U	50.	U	50.	U	50.	U	500.	U
85-01-8	Phenanthrene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
120-12-7	Anthracene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
206-44-0	Fluoranthene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
129-00-0	Pyrene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
85-68-7	Butylbenzylphthalate		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
91-94-1	3,3'-Dichlorobenzidine		20.	U	40.	U	20.	U	20.	U	20.	U	200.	U
56-55-3	Benzo(a)anthracene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
218-01-9	Chrysene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
117-84-0	Di-n-octylphthalate		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
205-99-2	Benzo(b)fluoranthene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
207-08-9	Benzo(k)fluoranthene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
50-32-8	Benzo(a)pyrene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
193-39-5	Indeno(1,2,3-cd)pyrene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
53-70-3	Dibenz(a,h)anthracene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
191-24-2	Benzo(g,h,i)perylene		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U
88-85-7	Dinoseb		7.	U	980.		7.	U	7.	U	7.	U	70.	U
65-85-0	Benzoic acid		50.	U	100.	U	50.	U	50.	U	50.	U	500.	U
106-47-8	4-Chloroaniline		20.	U	40.	U	180.		140.		20.	U	200.	U
84-74-2	Di-n-butylphthalate		10.	U	20.	U	10.	U	10.	U	10.	U	100.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA									
	SHORT ID --------->	EMW-6A		EMW-6B					
	ORIGINAL ID ----->	00EG0006A0		00EG0006B0					
	SAMPLE DATE ----->	11/30/94		11/30/94					
	DATE EXTRACTED -->	12/06/94		12/02/94					
	DATE ANALYZED --->	12/08/94		12/03/94					
	MATRIX ---------->	Water		Water					
	UNITS ---------->	UG/L		UG/L					
CAS #	Parameter	10867	VAL	10834	VAL				
108-95-2	Phenol	10.	U	100.	U				
111-44-4	bis(2-Chloroethyl)ether	10.	U	100.	U				
95-57-8	2-Chlorophenol	10.	U	100.	U				
541-73-1	1,3-Dichlorobenzene	10.	U	100.	U				
106-46-7	1,4-Dichlorobenzene	10.	U	100.	U				
100-51-6	Benzyl alcohol	20.	U	200.	U				
95-50-1	1,2-Dichlorobenzene	10.	U	120.					
95-48-7	2-Methylphenol (o-Cresol)	10.	U	100.	U				
108-60-1	bis(2-chloroisopropyl) ether	10.	U	100.	U				
106-44-5	4-Methylphenol (p-Cresol)	10.	U	100.	U				
621-64-7	N-Nitroso-di-n-propylamine	10.	U	100.	U				
67-72-1	Hexachloroethane	10.	U	100.	U				
98-95-3	Nitrobenzene	10.	U	100.	U				
78-59-1	Isophorone	10.	U	100.	U				
88-75-5	2-Nitrophenol	10.	U	100.	U				
105-67-9	2,4-Dimethylphenol	10.	U	100.	U				
111-91-1	bis(2-Chloroethoxy)methane	10.	U	100.	U				
120-83-2	2,4-Dichlorophenol	10.	U	100.	U				
120-82-1	1,2,4-Trichlorobenzene	10.	U	100.	U				
91-20-3	Naphthalene	10.	U	100.	U				
87-68-3	Hexachlorobutadiene	10.	U	100.	U				
59-50-7	4-Chloro-3-methylphenol	20.	U	200.	U				
91-57-6	2-Methylnaphthalene	10.	U	100.	U				
77-47-4	Hexachlorocyclopentadiene	10.	U	100.	U				
88-06-2	2,4,6-Trichlorophenol	10.	U	100.	U				
95-95-4	2,4,5-Trichlorophenol	10.	U	100.	U				
91-58-7	2-Chloronaphthalene	10.	U	100.	U				
88-74-4	2-Nitroaniline	50.	U	500.	U				
131-11-3	Dimethylphthalate	10.	U	100.	U				
208-96-8	Acenaphthylene	10.	U	100.	U				
99-09-2	3-Nitroaniline	50.	U	500.	U				
83-32-9	Acenaphthene	10.	U	100.	U				
51-28-5	2,4-Dinitrophenol	50.	U	500.	U				
100-02-7	4-Nitrophenol	50.	U	500.	U				
132-64-9	Dibenzofuran	10.	U	100.	U				
121-14-2	2,4-Dinitrotoluene	10.	U	100.	U				
606-20-2	2,6-Dinitrotoluene	10.	U	100.	U				
84-66-2	Diethylphthalate	10.	U	100.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

SVOA									
	SHORT ID --------->	EMW-6A		EMW-6B					
	ORIGINAL ID ----->	00EG0006A0		00EG0006B01					
	SAMPLE DATE ----->	11/30/94		11/30/94					
	DATE EXTRACTED -->	12/06/94		12/02/94					
	DATE ANALYZED --->	12/08/94		12/03/94					
	MATRIX ---------->	Water		Water					
	UNITS ---------->	UG/L		UG/L					
CAS #	Parameter	10867	VAL	10834	VAL				
7005-72-3	4-Chlorophenyl-phenylether	10.	U	100.	U				
86-73-7	Fluorene	10.	U	100.	U				
100-01-6	4-Nitroaniline	50.	U	500.	U				
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	500.	U				
86-30-6	N-Nitrosodiphenylamine	10.	U	100.	U				
101-55-3	4-Bromophenyl-phenylether	10.	U	100.	U				
118-74-1	Hexachlorobenzene	10.	U	100.	U				
87-86-5	Pentachlorophenol	50.	U	500.	U				
85-01-8	Phenanthrene	10.	U	100.	U				
120-12-7	Anthracene	10.	U	100.	U				
206-44-0	Fluoranthene	10.	U	100.	U				
129-00-0	Pyrene	10.	U	100.	U				
85-68-7	Butylbenzylphthalate	10.	U	100.	U				
91-94-1	3,3'-Dichlorobenzidine	20.	U	200.	U				
56-55-3	Benzo(a)anthracene	10.	U	100.	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	100.	U				
218-01-9	Chrysene	10.	U	100.	U				
117-84-0	Di-n-octylphthalate	10.	U	100.	U				
205-99-2	Benzo(b)fluoranthene	10.	U	100.	U				
207-08-9	Benzo(k)fluoranthene	10.	U	100.	U				
50-32-8	Benzo(a)pyrene	10.	U	100.	U				
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	100.	U				
53-70-3	Dibenz(a,h)anthracene	10.	U	100.	U				
191-24-2	Benzo(g,h,i)perylene	10.	U	100.	U				
88-85-7	Dinoseb	7.	U	70.	U				
65-85-0	Benzoic acid	50.	U	500.	U				
106-47-8	4-Chloroaniline	20.	U	6900.					
84-74-2	Di-n-butylphthalate	10.	U	100.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

VOA													
	SHORT ID --------->	1MW-1		1MW-2		1MW-3		1MW-4		1MW-5		1MW-6	
	ORIGINAL ID ----->	001G000101		001G000201		001G000301		001G000401		001G000501		001G000601	
	SAMPLE DATE ----->	11/29/94		11/29/94		11/30/94		11/30/94		11/30/94		11/30/94	
	DATE EXTRACTED -->	12/04/94		12/04/94		12/04/94		12/04/94		12/04/94		12/04/94	
	DATE ANALYZED --->	12/03/94		12/03/94		12/02/94		12/02/94		12/04/94		12/02/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL	10834	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
67-64-1	Acetone	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
75-15-0	Carbon disulfide	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	14.		5.	U	1100.		1100.		5.	U	1300.	
78-93-3	2-Butanone (MEK)	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
591-78-6	2-Hexanone	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	11.		5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

VOA																							
	SHORT ID --------->	1GB-1 (36')		1GB-2 (42')		1GB-2 (61.5')		1GB-2 (80')		1GB-2 (102')		1GB-3 (37.5')	
	ORIGINAL ID ----->	001GGB0101		001GGB0201		001GGB0202		001GGB0203		001GGB0204		001GGB0301	
	SAMPLE DATE ----->	12/20/94		12/20/94		12/21/94		12/22/94		12/23/94		12/21/94	
	DATE EXTRACTED -->	12/23/94		12/22/94		12/22/94		12/27/94		12/27/94		12/22/94	
	DATE ANALYZED --->	12/23/94		12/23/94		12/23/94		12/27/94		12/27/94		12/23/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11213	VAL	11213	VAL	11213	VAL	11234	VAL	11234	VAL	11213	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
67-64-1	Acetone	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
75-15-0	Carbon disulfide	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	5.	U	9.1		9.4		5.	U
78-93-3	2-Butanone (MEK)	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
591-78-6	2-Hexanone	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

VOA													
	SHORT ID --------->	1GB-3 (60')		1GB-3 (80')		1GB-3 (100')		1GB-4 (40')		1GB-4 (40') Dup		1GB-4 (60')	
	ORIGINAL ID ----->	001GGB0302		001GGB0303		001GGB0304		001GGB0401		001HGB0401		001GGB0402	
	SAMPLE DATE ----->	12/23/94		12/23/94		12/23/94		01/05/95		01/05/95		01/09/95	
	DATE EXTRACTED -->	12/27/94		12/27/94		12/27/94		01/09/95		01/09/95		01/12/95	
	DATE ANALYZED --->	12/28/94		12/28/94		12/28/94		01/10/95		01/10/95		01/12/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11234	VAL	11234	VAL	11234	VAL	11379	VAL	11379	VAL	11462	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
67-64-1	Acetone	100.	U	100.	U	620.		100.	U	100.	U	100.	U
75-15-0	Carbon disulfide	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.9		63.		5.	U	5.	U	5.	U
78-93-3	2-Butanone (MEK)	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
591-78-6	2-Hexanone	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

VOA																	
	SHORT ID --------->	1GB-4 (80')		1GB-4 (107')		1MW-7		2MW-2		2MW-3		2MW-4	
	ORIGINAL ID ----->	001GGB0403		001GGB0404		001GW00701		002G000201		002G000301		002G000401	
	SAMPLE DATE ----->	01/09/95		01/09/95		01/13/95		12/01/94		12/02/94		12/02/94	
	DATE EXTRACTED -->	01/12/95		01/12/95		01/16/95		12/09/94		12/09/94		12/09/94	
	DATE ANALYZED --->	01/12/95		01/12/95		01/17/95		12/08/94		12/08/94		12/08/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11462	VAL	11462	VAL	11513	VAL	10867	VAL	10867	VAL	10867	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	79.		10.	U
75-09-2	Methylene chloride	20.	U	20.	U	20.	U	20.	U	130.		20.	U
67-64-1	Acetone	170.		790.		100.	U	100.	U	2000.		140.	
75-15-0	Carbon disulfide	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	63.		5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	39.		5.	U	230.		150.	
78-93-3	2-Butanone (MEK)	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
591-78-6	2-Hexanone	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U	50.	U	50.	U	2500.		250.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	710.		21.	
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	62.		210.	
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (total)	5.	U	5.	U	5.	U	5.	U	17.		11.	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

VOA	SHORT ID --------->	2MW-4 Dup		2MW-5		2MW-7		2MW-7		4MW-1		4MW-2	
	ORIGINAL ID ----->	002H000401		002G000501		002G000701		002GW00701		004G000101		004G000201	
	SAMPLE DATE ----->	12/02/94		12/01/94		12/23/94		01/19/95		12/15/94		12/15/94	
	DATE EXTRACTED -->	12/09/94		12/09/94		12/27/94		01/23/95		12/22/94		12/22/94	
	DATE ANALYZED --->	12/08/94		12/08/94		12/27/94		01/23/95		12/22/94		12/22/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	10867	VAL	10867	VAL	11234	VAL	11626	VAL	11134	VAL	11134	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	5000.	U	50.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	5000.	U	50.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	5000.	U	50.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	5000.	U	50.	U
75-09-2	Methylene chloride	20.	U	20.	U	20.	U	20.	U	10000.	U	1300.	
67-64-1	Acetone	100.	U	100.	U	100.	U	1000.		50000.	U	500.	U
75-15-0	Carbon disulfide	100.	U	100.	U	100.	U	100.	U	50000.	U	500.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	2500.	U	460.	
107-06-2	1,2-Dichloroethane	150.		5.	U	5.	U	5.	U	4300.		310.	
78-93-3	2-Butanone (MEK)	100.	U	100.	U	100.	U	100.	U	50000.	U	500.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
108-05-4	Vinyl acetate	50.	U	50.	U	50.	U	50.	U	25000.	U	250.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U	5000.	U	50.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
591-78-6	2-Hexanone	50.	U	50.	U	50.	U	50.	U	25000.	U	250.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U	50.	U	50.	U	25000.	U	520.	
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
108-88-3	Toluene	12.		5.	U	5.	U	5.	U	140000.		25.	U
108-90-7	Chlorobenzene	240.		5.	U	5.	U	5.	U	2500.	U	25.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	2500.	U	25.	U
1330-20-7	Xylene (total)	10.	U	5.	U	5.	U	5.	U	2500.	U	25.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

VOA																							
	SHORT ID --------->	4GB-3 (51')		4GB-3 (65')		4GB-3 (80')		4GB-3 (95')		4GB-4 (40')		4GB-4 (60')	
	ORIGINAL ID ----->	004G00G301		004G00G302		004G00G303		004G00G304		004G00G401		004G00G402	
	SAMPLE DATE ----->	12/13/94		12/14/94		12/14/94		12/14/94		01/31/95		01/31/95	
	DATE EXTRACTED -->	12/21/94		12/21/94		12/21/94		12/21/94		02/02/95		02/02/95	
	DATE ANALYZED --->	12/22/94		12/21/94		12/21/94		12/21/94		02/02/95		02/02/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11097	VAL	11097	VAL	11097	VAL	11097	VAL	11834	VAL	11834	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
67-64-1	Acetone	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
75-15-0	Carbon disulfide	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
67-66-3	Chloroform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	5.	U	5.	U	8.4		7.6		5.	U	1900.	
78-93-3	2-Butanone (MEK)	100.	U	100.	U	100.	U	100.	U	100.	U	100.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-05-4	Vinyl acetate	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
591-78-6	2-Hexanone	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U
1330-20-7	Xylene (total)	5.	U	5.	U	5.	U	5.	U	5.	U	5.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

VOA	SHORT ID --------->	4GB-4 (80')		4GB-4 (100')		4MW-3		4MW-4		9GB-21 (30')		9GB-21 (45')	
	ORIGINAL ID ----->	004G00G403		004G00G404		004GW00301		004GW00404		009G002101		009G002102	
	SAMPLE DATE ----->	01/31/95		01/31/95		01/13/95		01/20/95		12/07/94		12/07/94	
	DATE EXTRACTED -->	02/02/95		02/02/95		01/16/95		01/23/95		12/19/94		12/19/94	
	DATE ANALYZED --->	02/03/95		02/03/95		01/16/95		01/24/95		12/19/94		12/19/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11834	VAL	11834	VAL	11513	VAL	11626	VAL	11008	VAL	11008	VAL
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	400.	U	400.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	400.	U	400.	U
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	400.	U	400.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	400.	U	400.	U
75-09-2	Methylene chloride	20.	U	20.	U	150.		20.	U	5000.		800.	U
67-64-1	Acetone	110.		100.	U	100.	U	110.		4000.	U	4000.	U
75-15-0	Carbon disulfide	100.	U	100.	U	100.	U	100.	U	4000.	U	4000.	U
75-35-4	1,1-Dichloroethene	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
75-34-3	1,1-Dichloroethane	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
156-60-5	trans-1,2-Dichloroethene	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
67-66-3	Chloroform	5.	U	5.	U	14.		5.	U	200.	U	200.	U
107-06-2	1,2-Dichloroethane	3300.		1900.		52000.		11.		3900.		5800.	
78-93-3	2-Butanone (MEK)	100.	U	100.	U	100.	U	100.	U	4000.	U	4000.	U
71-55-6	1,1,1-Trichloroethane	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
56-23-5	Carbon tetrachloride	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
108-05-4	Vinyl acetate	50.	U	50.	U	50.	U	50.	U	2000.	U	2000.	U
75-27-4	Bromodichloromethane	5.	U	5.	U	5.	U	6.1		200.	U	200.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
78-87-5	1,2-Dichloropropane	5.	U	5.	U	43.		5.	U	200.	U	200.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
79-01-6	Trichloroethene	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
124-48-1	Dibromochloromethane	5.	U	5.	U	5.	U	13.		200.	U	200.	U
79-00-5	1,1,2-Trichloroethane	5.	U	5.	U	27.		5.	U	200.	U	200.	U
71-43-2	Benzene	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U	400.	U	400.	U
75-25-2	Bromoform	5.	U	5.	U	5.	U	11.		200.	U	200.	U
591-78-6	2-Hexanone	50.	U	50.	U	50.	U	50.	U	2000.	U	2000.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U	50.	U	50.	U	50.	U	2000.	U	2000.	U
127-18-4	Tetrachloroethene	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
108-88-3	Toluene	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
108-90-7	Chlorobenzene	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
100-41-4	Ethylbenzene	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
100-42-5	Styrene	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U
1330-20-7	Xylene (total)	5.	U	5.	U	5.	U	5.	U	200.	U	200.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

VOA	SHORT ID --------->	9GB-21 (60')		9GB-21 (75')		9GB-21 (90')		9MW-1		EMW-1		EMW-2	
	ORIGINAL ID ----->	009G002103		009G002104		009G002105		009GW00101		00EG000101		00EG000201	
	SAMPLE DATE ----->	12/08/94		12/09/94		12/16/94		01/13/95		11/30/94		12/01/94	
	DATE EXTRACTED -->	12/19/94		12/19/94		12/23/94		01/16/95		12/04/94		12/06/94	
	DATE ANALYZED --->	12/19/94		12/19/94		12/23/94		01/18/95		12/02/94		12/08/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	11008	VAL	11008	VAL	11134	VAL	11513	VAL	10834	VAL	10867	VAL
74-87-3	Chloromethane	400.	U	400.	U	10.	U	100.	U	10.	U	10.	U
74-83-9	Bromomethane	400.	U	400.	U	10.	U	100.	U	10.	U	10.	U
75-01-4	Vinyl chloride	400.	U	400.	U	10.	U	100.	U	10.	U	10.	U
75-00-3	Chloroethane	400.	U	400.	U	10.	U	100.	U	10.	U	10.	U
75-09-2	Methylene chloride	800.	U	800.	U	20.	U	4100.		20.	U	20.	U
67-64-1	Acetone	4000.	U	4000.	U	100.	U	1000.	U	100.	U	130.	
75-15-0	Carbon disulfide	4000.	U	4000.	U	100.	U	1000.	U	100.	U	100.	U
75-35-4	1,1-Dichloroethene	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
75-34-3	1,1-Dichloroethane	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
156-60-5	trans-1,2-Dichloroethene	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
67-66-3	Chloroform	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
107-06-2	1,2-Dichloroethane	6800.		7300.		41.		2300.		62.		5.	U
78-93-3	2-Butanone (MEK)	4000.	U	4000.	U	100.	U	1000.	U	100.	U	100.	U
71-55-6	1,1,1-Trichloroethane	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
56-23-5	Carbon tetrachloride	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
108-05-4	Vinyl acetate	2000.	U	2000.	U	50.	U	500.	U	50.	U	50.	U
75-27-4	Bromodichloromethane	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
78-87-5	1,2-Dichloropropane	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
79-01-6	Trichloroethene	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
124-48-1	Dibromochloromethane	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
79-00-5	1,1,2-Trichloroethane	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
71-43-2	Benzene	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
110-75-8	2-Chloroethylvinylether	400.	U	400.	U	10.	U	100.	U	10.	U	10.	U
75-25-2	Bromoform	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
591-78-6	2-Hexanone	2000.	U	2000.	U	50.	U	500.	U	50.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	2000.	U	2000.	U	50.	U	500.	U	50.	U	50.	U
127-18-4	Tetrachloroethene	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
108-88-3	Toluene	200.	U	200.	U	5.	U	52.		5.	U	5.	U
108-90-7	Chlorobenzene	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
100-41-4	Ethylbenzene	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
100-42-5	Styrene	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U
1330-20-7	Xylene (total)	200.	U	200.	U	5.	U	50.	U	5.	U	5.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

VOA	SHORT ID --------->	EMW-3		EMW-4		EMW-4 Dup		EMW-6		EMW-7		EMW-6A	
	ORIGINAL ID ----->	00EG000301		00EG000401		00EH000401		00EG000601		00EG000701		00EG0006A0	
	SAMPLE DATE ----->	12/01/94		12/01/94		12/01/94		11/30/94		12/01/94		11/30/94	
	DATE EXTRACTED -->	12/06/94		12/06/94		12/09/94		12/06/94		12/09/94		12/09/94	
	DATE ANALYZED --->	12/08/94		12/08/94		12/08/94		12/08/94		12/08/94		12/08/94	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL	10867	VAL
74-87-3	Chloromethane	500.	U	100.	U	100.	U	20.	U	5000.	U	10.	U
74-83-9	Bromomethane	500.	U	100.	U	100.	U	20.	U	5000.	U	10.	U
75-01-4	Vinyl chloride	500.	U	100.	U	100.	U	20.	U	5000.	U	10.	U
75-00-3	Chloroethane	500.	U	100.	U	100.	U	20.	U	5000.	U	10.	U
75-09-2	Methylene chloride	2000.		200.	U	200.	U	40.	U	10000.	U	20.	U
67-64-1	Acetone	5000.	U	1000.	U	1000.	U	200.	U	50000.	U	100.	U
75-15-0	Carbon disulfide	5000.	U	1000.	U	1000.	U	200.	U	50000.	U	100.	U
75-35-4	1,1-Dichloroethene	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
75-34-3	1,1-Dichloroethane	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
156-60-5	trans-1,2-Dichloroethene	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
67-66-3	Chloroform	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
107-06-2	1,2-Dichloroethane	10000.		920.		950.		360.		84000.		49.	
78-93-3	2-Butanone (MEK)	5000.	U	1000.	U	1000.	U	200.	U	50000.	U	100.	U
71-55-6	1,1,1-Trichloroethane	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
56-23-5	Carbon tetrachloride	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
108-05-4	Vinyl acetate	2500.	U	500.	U	500.	U	100.	U	25000.	U	50.	U
75-27-4	Bromodichloromethane	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
78-87-5	1,2-Dichloropropane	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
10061-02-6	trans-1,3-Dichloropropene	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
79-01-6	Trichloroethene	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
124-48-1	Dibromochloromethane	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
79-00-5	1,1,2-Trichloroethane	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
71-43-2	Benzene	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
10061-01-5	cis-1,3-Dichloropropene	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
110-75-8	2-Chloroethylvinylether	500.	U	100.	U	100.	U	20.	U	5000.	U	10.	U
75-25-2	Bromoform	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
591-78-6	2-Hexanone	2500.	U	500.	U	500.	U	100.	U	25000.	U	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	2500.	U	500.	U	500.	U	100.	U	25000.	U	50.	U
127-18-4	Tetrachloroethene	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
108-88-3	Toluene	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
108-90-7	Chlorobenzene	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
100-41-4	Ethylbenzene	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
100-42-5	Styrene	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U
1330-20-7	Xylene (total)	250.	U	50.	U	50.	U	10.	U	2500.	U	5.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE II GROUNDWATER DATA

VOA

SHORT ID -------->	EMW-68
ORIGINAL ID ----->	00EG006801
SAMPLE DATE ----->	11/30/94
DATE EXTRACTED -->	12/04/94
DATE ANALYZED --->	12/03/94
MATRIX ---------->	Water
UNITS ----------->	UG/L

CAS #	Parameter	10834	VAL
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene chloride	20.	U
67-64-1	Acetone	230.	
75-15-0	Carbon disulfide	100.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
156-60-5	trans-1,2-Dichloroethene	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	1500.	
78-93-3	2-Butanone (MEK)	100.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon tetrachloride	5.	U
108-05-4	Vinyl acetate	50.	U
75-27-4	Bromodichloromethane	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	14.	
10061-01-5	cis-1,3-Dichloropropene	5.	U
110-75-8	2-Chloroethylvinylether	10.	U
75-25-2	Bromoform	5.	U
591-78-6	2-Hexanone	50.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	50.	U
127-18-4	Tetrachloroethene	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	48.	
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
1330-20-7	Xylene (total)	5.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

PEST	SHORT ID --------->	OFFMW-1		OFFMW-2		OFFMW-3		OFFMW-3 DUP		OFFMW-4	
	ORIGINAL ID ----->	OFFG000102		OFFG000202		OFFG000302		OFFH000302		OFFG000402	
	SAMPLE DATE ----->	01/09/96		01/09/96		01/09/96		01/09/96		01/09/96	
	DATE EXTRACTED -->	01/12/96		01/12/96		01/12/96		01/12/96		01/12/96	
	DATE ANALYZED --->	01/25/96		01/25/96		01/25/96		01/25/96		01/25/96	
	MATRIX ---------->	Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	G114-18	VAL	G114-18	VAL	G114-18	VAL	G114-18	VAL	G114-18	VAL
319-84-6	Alpha-BHC	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
319-85-7	Beta-BHC	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
319-86-8	Delta-BHC	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
58-89-9	gamma-BHC (Lindane)	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
76-44-8	Heptachlor	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
309-00-2	Aldrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
1024-57-3	Heptachlor Epoxide	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
959-98-8	Endosulfan I	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
60-57-1	Dieldrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-55-9	4,4'-DDE	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-20-8	Endrin	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-54-8	4,4'-DDD	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
33213-65-9	Endosulfan II	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
50-29-3	4,4'-DDT	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-43-5	Methoxychlor	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
8001-35-2	Toxaphene	1.	U	1.	U	1.	U	1.	U	1.	U
57-74-9	Chlordane	1.	U	1.	U	1.	U	1.	U	1.	U
7421-93-4	Endrin aldehyde	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
1031-07-8	Endosulfan Sulfate	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
53494-70-5	Endrin ketone	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

RCRA METAL		SHORT ID --------->	OFFMW-1		OFFMW-2		OFFMW-3		OFFMW-3 DUP		OFFMW-4	
		ORIGINAL ID ----->	OFFG000102		OFFG000202		OFFG000302		OFFH000302		OFFG000402	
		SAMPLE DATE ----->	01/09/96		01/09/96		01/09/96		01/09/96		01/09/96	
		DATE EXTRACTED -->	01/17/96		01/17/96		01/17/96		01/17/96		01/17/96	
		DATE ANALYZED --->	01/23/96		01/23/96		01/23/96		01/23/96		01/23/96	
		MATRIX ---------->	Water		Water		Water		Water		Water	
		UNITS ----------->	MG/L		MG/L		MG/L		MG/L		MG/L	
CAS #	Parameter		G114-18	VAL	G114-18	VAL	G114-18	VAL	G114-18	VAL	G114-18	VAL
7440-38-2	Arsenic (As)		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
7440-39-3	Barium (Ba)		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
7440-43-9	Cadmium (Cd)		0.005	U	0.006		0.005		0.006		0.005	
7440-47-3	Chromium (Cr)		0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
7439-92-1	Lead (Pb)		0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
7439-97-6	Mercury (Hg)		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U
7782-49-2	Selenium (Se)		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U
7440-22-4	Silver (Ag)		0.05	U	0.05	U	0.05	U	0.05	U	0.05	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

SVOA	SHORT ID --------->	2MW-6		4MW-2		EMW-1		EMW-7		OFFMW-1		OFFMW-1	
	ORIGINAL ID ----->	002G000602		004G000202		00EG000203		00EG000702		OFFG000102		OFFG000103	
	SAMPLE DATE ----->	09/22/95		09/26/95		04/02/96		09/27/95		01/09/96		04/02/96	
	DATE EXTRACTED -->	09/25/95		10/02/95		04/05/96		10/02/95		01/16/96		04/05/96	
	DATE ANALYZED --->	09/29/95		10/03/95		04/17/96		10/12/95		01/17/96		04/17/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	G114-5	VAL	G114-5	VAL	G114-19	VAL	G114-5	VAL	G114-18	VAL	G114-19	VAL
83-32-9	Acenaphthene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	20.	U	1000.	U	20.	U	20.	U	20.	U	20.	U
100-51-6	Benzyl alcohol	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
39638-32-9	2,2'-Oxybis(2-chloro)propane	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
91-58-7	2-Chloronaphthalene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
132-64-9	Dibenzofuran	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
95-76-1	3,4-Dichloroaniline	44.		500.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	11.		500.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	1000.	U	20.	U	20.	U	20.	U	20.	U
120-83-2	2,4-Dichlorophenol	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
131-11-3	Dimethylphthalate	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	2500.	U	50.	U	50.	U	50.	U	50.	U
51-28-5	2,4-Dinitrophenol	50.	U	2500.	U	50.	U	50.	U	50.	U	50.	U
121-14-2	2,4-Dinitrotoluene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

SVOA															
	SHORT ID --------->	2MW-6		4MW-2		EMW-1		EMW-7		OFFMW-1		OFFMW-1	
	ORIGINAL ID ----->	002G000602		004G000202		00EG000203		00EG000702		OFFG000102		OFFG000103	
	SAMPLE DATE ----->	09/22/95		09/26/95		04/02/96		09/27/95		01/09/96		04/02/96	
	DATE EXTRACTED -->	09/25/95		10/02/95		04/05/96		10/02/95		01/16/96		04/05/96	
	DATE ANALYZED --->	09/29/95		10/03/95		04/17/96		10/12/95		01/17/96		04/17/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	G114-5	VAL	G114-5	VAL	G114-19	VAL	G114-5	VAL	G114-18	VAL	G114-19	VAL
606-20-2	2,6-Dinitrotoluene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
88-85-7	Dinoseb	10.	U	54000.		86.		33.		10.	U	7.	U
206-44-0	Fluoranthene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	1000.	U	20.	U	20.	U	20.	U	20.	U
67-72-1	Hexachloroethane	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
100-02-7	4-Nitrophenol	50.	U	2500.	U	50.	U	50.	U	50.	U	50.	U
87-86-5	Pentachlorophenol	50.	U	2500.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
709-98-8	Propanil	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	500.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

SVOA	SHORT ID --------->	OFFMW-2		OFFMW-2		OFFMW-2 DUP		OFFMW-3		OFFMW-3 DUP		OFFMW-3	
	ORIGINAL ID ----->	OFFG000202		OFFG000203		OFFH000203		OFFG000302		OFFH000302		OFFG000303	
	SAMPLE DATE ----->	01/09/96		04/02/96		04/02/96		01/09/96		01/09/96		04/02/96	
	DATE EXTRACTED -->	01/16/96		04/05/96		04/05/96		01/16/96		01/16/96		04/05/96	
	DATE ANALYZED --->	01/17/96		04/17/96		04/17/96		01/17/96		01/17/96		04/17/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	G114-18	VAL	G114-19	VAL	G114-19	VAL	G114-18	VAL	G114-18	VAL	G114-19	VAL
83-32-9	Acenaphthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
208-96-8	Acenaphthylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-12-7	Anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-55-3	Benzo(a)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
50-32-8	Benzo(a)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
65-85-0	Benzoic acid	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
100-51-6	Benzyl alcohol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
39638-32-9	2,2'-Oxybis(2-chloro)propane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
85-68-7	Butylbenzylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-47-8	4-Chloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-58-7	2-Chloronaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-57-8	2-Chlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
218-01-9	Chrysene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-74-2	Di-n-butylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
117-84-0	Di-n-octylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
132-64-9	Dibenzofuran	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-76-1	3,4-Dichloroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
120-83-2	2,4-Dichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
84-66-2	Diethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
105-67-9	2,4-Dimethylphenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
131-11-3	Dimethylphthalate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
51-28-5	2,4-Dinitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

SVOA	SHORT ID --------->	OFFMW-2		OFFMW-2		OFFMW-2 DUP		OFFMW-3		OFFMW-3 DUP		OFFMW-3	
	ORIGINAL ID ----->	OFFG000202		OFFG000203		OFFH000203		OFFG000302		OFFH000302		OFFG000303	
	SAMPLE DATE ----->	01/09/96		04/02/96		04/02/96		01/09/96		01/09/96		04/02/96	
	DATE EXTRACTED -->	01/16/96		04/05/96		04/05/96		01/16/96		01/16/96		04/05/96	
	DATE ANALYZED --->	01/17/96		04/17/96		04/17/96		01/17/96		01/17/96		04/17/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	G114-18	VAL	G114-19	VAL	G114-19	VAL	G114-18	VAL	G114-18	VAL	G114-19	VAL
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-85-7	Dinoseb	10.	U	7.	U	7.	U	10.	U	10.	U	7.	U
206-44-0	Fluoranthene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-73-7	Fluorene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
118-74-1	Hexachlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
87-68-3	Hexachlorobutadiene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
77-47-4	Hexachlorocyclopentadiene	20.	U	20.	U	20.	U	20.	U	20.	U	20.	U
67-72-1	Hexachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-59-1	Isophorone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-57-6	2-Methylnaphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
91-20-3	Naphthalene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-74-4	2-Nitroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
99-09-2	3-Nitroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-01-6	4-Nitroaniline	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
98-95-3	Nitrobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-75-5	2-Nitrophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-02-7	4-Nitrophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
87-86-5	Pentachlorophenol	50.	U	50.	U	50.	U	50.	U	50.	U	50.	U
85-01-8	Phenanthrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-95-2	Phenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
709-98-8	Propanil	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
129-00-0	Pyrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-95-4	2,4,5-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

SVOA	SHORT ID --------->	OFFMW-4		OFFMW-4					
	ORIGINAL ID ----->	OFFG000402		OFFG000403					
	SAMPLE DATE ----->	01/09/96		04/02/96					
	DATE EXTRACTED -->	01/16/96		04/05/96					
	DATE ANALYZED --->	01/17/96		04/17/96					
	MATRIX ---------->	Water		Water					
	UNITS ----------->	UG/L		UG/L					
CAS #	Parameter	G114-18	VAL	G114-19	VAL				
83-32-9	Acenaphthene	10.	U	10.	U				
208-96-8	Acenaphthylene	10.	U	10.	U				
120-12-7	Anthracene	10.	U	10.	U				
56-55-3	Benzo(a)anthracene	10.	U	10.	U				
50-32-8	Benzo(a)pyrene	10.	U	10.	U				
205-99-2	Benzo(b)fluoranthene	10.	U	10.	U				
191-24-2	Benzo(g,h,i)perylene	10.	U	10.	U				
207-08-9	Benzo(k)fluoranthene	10.	U	10.	U				
65-85-0	Benzoic acid	20.	U	20.	U				
100-51-6	Benzyl alcohol	10.	U	10.	U				
111-91-1	bis(2-Chloroethoxy)methane	10.	U	10.	U				
111-44-4	bis(2-Chloroethyl)ether	10.	U	10.	U				
39638-32-9	2,2'-Oxybis(2-chloro)propane	10.	U	10.	U				
117-81-7	bis(2-Ethylhexyl)phthalate (BEHP)	10.	U	10.	U				
101-55-3	4-Bromophenyl-phenylether	10.	U	10.	U				
85-68-7	Butylbenzylphthalate	10.	U	10.	U				
106-47-8	4-Chloroaniline	10.	U	10.	U				
59-50-7	4-Chloro-3-methylphenol	10.	U	10.	U				
91-58-7	2-Chloronaphthalene	10.	U	10.	U				
95-57-8	2-Chlorophenol	10.	U	10.	U				
7005-72-3	4-Chlorophenyl-phenylether	10.	U	10.	U				
218-01-9	Chrysene	10.	U	10.	U				
84-74-2	Di-n-butylphthalate	10.	U	10.	U				
117-84-0	Di-n-octylphthalate	10.	U	10.	U				
53-70-3	Dibenz(a,h)anthracene	10.	U	10.	U				
132-64-9	Dibenzofuran	10.	U	10.	U				
95-76-1	3,4-Dichloroaniline	10.	U	10.	U				
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U				
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U				
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U				
91-94-1	3,3'-Dichlorobenzidine	20.	U	20.	U				
120-83-2	2,4-Dichlorophenol	10.	U	10.	U				
84-66-2	Diethylphthalate	10.	U	10.	U				
105-67-9	2,4-Dimethylphenol	10.	U	10.	U				
131-11-3	Dimethylphthalate	10.	U	10.	U				
534-52-1	4,6-Dinitro-2-methylphenol	50.	U	50.	U				
51-28-5	2,4-Dinitrophenol	50.	U	50.	U				
121-14-2	2,4-Dinitrotoluene	10.	U	10.	U				

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

SVOA								
	SHORT ID --------->	OFFMW-4		OFFMW-4				
	ORIGINAL ID ----->	OFFG000402		OFFG000403				
	SAMPLE DATE ----->	01/09/96		04/02/96				
	DATE EXTRACTED -->	01/16/96		04/05/96				
	DATE ANALYZED --->	01/17/96		04/17/96				
	MATRIX ---------->	Water		Water				
	UNITS ----------->	UG/L		UG/L				
CAS #	Parameter	G114-18	VAL	G114-19	VAL			
606-20-2	2,6-Dinitrotoluene	10.	U	10.	U			
88-85-7	Dinoseb	10.	U	7.	U			
206-44-0	Fluoranthene	10.	U	10.	U			
86-73-7	Fluorene	10.	U	10.	U			
118-74-1	Hexachlorobenzene	10.	U	10.	U			
87-68-3	Hexachlorobutadiene	10.	U	10.	U			
77-47-4	Hexachlorocyclopentadiene	20.	U	20.	U			
67-72-1	Hexachloroethane	10.	U	10.	U			
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	10.	U			
78-59-1	Isophorone	10.	U	10.	U			
91-57-6	2-Methylnaphthalene	10.	U	10.	U			
95-48-7	2-Methylphenol (o-Cresol)	10.	U	10.	U			
106-44-5	4-Methylphenol (p-Cresol)	10.	U	10.	U			
621-64-7	N-Nitroso-di-n-propylamine	10.	U	10.	U			
86-30-6	N-Nitrosodiphenylamine	10.	U	10.	U			
91-20-3	Naphthalene	10.	U	10.	U			
88-74-4	2-Nitroaniline	10.	U	10.	U			
99-09-2	3-Nitroaniline	10.	U	10.	U			
100-01-6	4-Nitroaniline	10.	U	10.	U			
98-95-3	Nitrobenzene	10.	U	10.	U			
88-75-5	2-Nitrophenol	10.	U	10.	U			
100-02-7	4-Nitrophenol	50.	U	50.	U			
87-86-5	Pentachlorophenol	50.	U	50.	U			
85-01-8	Phenanthrene	10.	U	10.	U			
108-95-2	Phenol	10.	U	10.	U			
709-98-8	Propanil	10.	U	10.	U			
129-00-0	Pyrene	10.	U	10.	U			
120-82-1	1,2,4-Trichlorobenzene	10.	U	10.	U			
95-95-4	2,4,5-Trichlorophenol	10.	U	10.	U			
88-06-2	2,4,6-Trichlorophenol	10.	U	10.	U			

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

VOA	SHORT ID --------->	1GB-12 (80')		1GB-12 (100')		1GB-7 (100')		1GB-12 (120')		2MW-6		4MW-2	
	ORIGINAL ID ----->	001G001203		001G001204		001GGB0704		001GGB1205		002G000602		004G000202	
	SAMPLE DATE ----->	10/19/95		10/19/95		09/27/95		11/03/95		09/22/95		09/26/95	
	DATE EXTRACTED -->	11/01/95		11/01/95		09/30/95		11/06/95		10/04/95		10/02/95	
	DATE ANALYZED --->	11/01/95		11/01/95		09/30/95		11/06/95		10/04/95		10/02/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	G114-11	VAL	G114-11	VAL	G114-5	VAL	G114-13	VAL	G114-5	VAL	G114-5	VAL
67-64-1	Acetone	25.	U	25.	U	25.	U	25.	U	43.		25.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	13.	
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	14.	
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U	10.	U	760.	
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	17.		76.	
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	10.	U	150.		10.	U	10.	U	260.	
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-69-4	Trichlorofluoromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	460.	
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

VOA	SHORT ID --------->	1GB-12 (80')		1GB-12 (100')		1GB-7 (100')		1GB-12 (120')		2MW-6		4MW-2	
	ORIGINAL ID ----->	001G001203		001G001204		001GGB0704		001GGB1205		002G000602		004G000202	
	SAMPLE DATE ----->	10/19/95		10/19/95		09/27/95		11/03/95		09/22/95		09/26/95	
	DATE EXTRACTED -->	11/01/95		11/01/95		09/30/95		11/06/95		10/04/95		10/02/95	
	DATE ANALYZED --->	11/01/95		11/01/95		09/30/95		11/06/95		10/04/95		10/02/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	G114-11	VAL	G114-11	VAL	G114-5	VAL	G114-13	VAL	G114-5	VAL	G114-5	VAL
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (total)	10.	U	10.	U	10.	U	10.	U	10.	U	12.	
95-47-6	o-Xylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

VOA																							
	SHORT ID --------->	4GB-7 (80')		4GB-9 (118')		4GB-10 (134')		4GB-12 (100')		EMW-1		EMW-7	
	ORIGINAL ID ----->	004GGB0703		004GGB0905		004GGB1005		004GGB1204		00EG000203		00EG000702	
	SAMPLE DATE ----->	10/05/95		11/01/95		11/02/95		11/06/95		04/02/96		09/27/95	
	DATE EXTRACTED -->	10/17/95		11/06/95		11/10/95		11/15/95		04/12/96		10/02/95	
	DATE ANALYZED --->	10/17/95		11/06/95		11/10/95		11/15/95		04/12/96		10/02/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	G114-5	VAL	G114-13	VAL	G114-13	VAL	G114-13	VAL	G114-19	VAL	G114-5	VAL
67-64-1	Acetone	100.		25.	U	25.	U	25.	U	25.	U	25.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	11.	U
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	3700.		10.	U	10.	U	10.	U	10.	U	87000.	
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	150.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-69-4	Trichlorofluoromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

VOA	SHORT ID --------->	4GB-7 (80')		4GB-9 (118')		4GB-10 (134')		4GB-12 (100')		EMW-1		EMW-7	
	ORIGINAL ID ----->	004GGB0703		004GGB0905		004GGB1005		004GGB1204		00EG000203		00EG000702	
	SAMPLE DATE ----->	10/05/95		11/01/95		11/02/95		11/06/95		04/02/96		09/27/95	
	DATE EXTRACTED -->	10/17/95		11/06/95		11/10/95		11/15/95		04/12/96		10/02/95	
	DATE ANALYZED --->	10/17/95		11/06/95		11/10/95		11/15/95		04/12/96		10/02/95	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	G114-5	VAL	G114-13	VAL	G114-13	VAL	G114-13	VAL	G114-19	VAL	G114-5	VAL
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	23.	U
1330-20-7	Xylene (total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-47-6	o-Xylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

VOA	SHORT ID --------->	BH-1		BH-1		OFFMW-1		OFFMW-1		OFFMW-2		OFFMW-2	
	ORIGINAL ID ----->	BHIGAG0101		BHIGAG0102		OFFG000102		OFFG000103		OFFG000202		OFFG000203	
	SAMPLE DATE ----->	10/02/95		11/07/95		01/09/96		04/02/96		01/09/96		04/02/96	
	DATE EXTRACTED -->	10/04/95		11/15/95		01/19/96		04/11/96		01/22/96		04/12/96	
	DATE ANALYZED --->	10/04/95		11/15/95		01/19/96		04/11/96		01/22/96		04/12/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	G114-5	VAL	G114-13	VAL	G114-18	VAL	G114-19	VAL	G114-18	VAL	G114-19	VAL
67-64-1	Acetone	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.	U	10.	U	10.	U	10.	U	77.		10.	U
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	10.	U	1600.		10.	U	10.	U	110.		140.	
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-69-4	Trichlorofluoromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

VOA		SHORT ID --------->	BH-1		BH-1		OFFMW-1		OFFMW-1		OFFMW-2		OFFMW-2	
		ORIGINAL ID ----->	BHIGAG0101		BHIGAG0102		OFFG000102		OFFG000103		OFFG000202		OFFG000203	
		SAMPLE DATE ----->	10/02/95		11/07/95		01/09/96		04/02/96		01/09/96		04/02/96	
		DATE EXTRACTED -->	10/04/95		11/15/95		01/19/96		04/11/96		01/22/96		04/12/96	
		DATE ANALYZED --->	10/04/95		11/15/95		01/19/96		04/11/96		01/22/96		04/12/96	
		MATRIX ---------->	Water		Water		Water		Water		Water		Water	
		UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter		G114-5	VAL	G114-13	VAL	G114-18	VAL	G114-19	VAL	G114-18	VAL	G114-19	VAL
75-01-4	Vinyl chloride		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (total)		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-47-6	o-Xylene		10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

VOA	SHORT ID --------->	OFFMW-2 DUP		OFFMW-3		OFFMW-3 DUP		OFFMW-3		OFFMW-4		OFFMW-4	
	ORIGINAL ID ----->	OFFH000203		OFFG000302		OFFH000302		OFFG000303		OFFG000402		OFFG000403	
	SAMPLE DATE ----->	04/02/96		01/09/96		01/09/96		04/02/96		01/09/96		04/02/96	
	DATE EXTRACTED -->	04/12/96		01/19/96		01/19/96		04/11/96		01/19/96		04/11/96	
	DATE ANALYZED --->	04/12/96		01/19/96		01/19/96		04/11/96		01/19/96		04/11/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ---------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	G114-19	VAL	G114-18	VAL	G114-18	VAL	G114-19	VAL	G114-18	VAL	G114-19	VAL
67-64-1	Acetone	25.	U	25.	U	25.	U	25.	U	25.	U	25.	U
71-43-2	Benzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-27-4	Bromodichloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-25-2	Bromoform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-83-9	Bromomethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-93-3	2-Butanone (MEK)	10.		10.	U	10.	U	10.	U	10.	U	10.	U
75-15-0	Carbon disulfide	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
56-23-5	Carbon tetrachloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-90-7	Chlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-00-3	Chloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
110-75-8	2-Chloroethylvinylether	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
67-66-3	Chloroform	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
74-87-3	Chloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
124-48-1	Dibromochloromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-34-3	1,1-Dichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
107-06-2	1,2-Dichloroethane	130.		10.	U	10.	U	10.	U	10.	U	10.	U
75-35-4	1,1-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
156-60-5	trans-1,2-Dichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
78-87-5	1,2-Dichloropropane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
10061-02-6	trans-1,3-Dichloropropene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-41-4	Ethylbenzene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-69-4	Trichlorofluoromethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
591-78-6	2-Hexanone	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
75-09-2	Methylene chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
100-42-5	Styrene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
127-18-4	Tetrachloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-88-3	Toluene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
79-01-6	Trichloroethene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
108-05-4	Vinyl acetate	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

CEDAR CHEMICAL CORPORATION
WEST HELENA, ARKANSAS
PHASE III GROUNDWATER DATA

VOA	SHORT ID --------->	OFFMW-2 DUP		OFFMW-3		OFFMW-3 DUP		OFFMW-3		OFFMW-4		OFFMW-4	
	ORIGINAL ID ----->	OFFH000203		OFFG000302		OFFH000302		OFFG000303		OFFG000402		OFFG000403	
	SAMPLE DATE ----->	04/02/96		01/09/96		01/09/96		04/02/96		01/09/96		04/02/96	
	DATE EXTRACTED -->	04/12/96		01/19/96		01/19/96		04/11/96		01/19/96		04/11/96	
	DATE ANALYZED --->	04/12/96		01/19/96		01/19/96		04/11/96		01/19/96		04/11/96	
	MATRIX ---------->	Water		Water		Water		Water		Water		Water	
	UNITS ----------->	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
CAS #	Parameter	G114-19	VAL	G114-18	VAL	G114-18	VAL	G114-19	VAL	G114-18	VAL	G114-19	VAL
75-01-4	Vinyl chloride	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
1330-20-7	Xylene (total)	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U
95-47-6	o-Xylene	10.	U	10.	U	10.	U	10.	U	10.	U	10.	U

*** Validation Complete ***

Appendix C

95% Upper Confidence Limits

TABLE C1

95% UPPER CONFIDENCE LIMIT ESTIMATES FOR ARSENIC IN SITE 1 SURFACE SOIL

MTCAStat VERSION 2.1 CALCULATIONS

CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Number of samples		**Uncensored values**	
Uncensored	12	**Mean**	9.25
Censored		**Lognormal mean**	8.53
Detection limit or PQL		**Std. devn.**	11.47427954
Method detection limit		**Median**	5.45
TOTAL	12	**Min.**	3.2
		Max.	44.6

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.755	**r-squared is:**	0.478
Recommendations:	Assumed lognormal distribution.		

UCL (Land's method) is 14.35

Data set used for calculation:

Result	Sample ID
5.1	1HA-1 (0-1')
44.6	1HA-2 (0-1')
5.8	1HA-3 (0-1')
7.3	1HA-4 (0-1')
3.2	1HA-5 (0-1')
5.7	1MW-1 (0-5')
14	1MW-2 (0-5')
6.8	1MW-3 (0-5')
3.3	1MW-4 (0-5')
5.2	1MW-5 (0-5')
5	1HA-7 (2-3')
5	1SB-1 (0-2')

Uncensored data = Represents contaminant detections above the quantitation limit.
Censored data = Represents data reported below detection limit or below practical quantitation limits and reported as nondetect, "U."

MTCAStat Version 2.1 provided by the State of Washington Department of Ecology Toxics Cleanup Program, MTCAStat, P.O, Box 47600, Olympia, WA 98504-7600.

Table C2
95% UPPER CONFIDENCE LIMIT ESTIMATES FOR DINOSEB IN SITE 4 SURFACE SOIL
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Number of samples		**Uncensored values**	
Uncensored	9	**Mean**	264211.11
Censored	5	**Lognormal mean**	711609.83
Detection limit or PQL	5	**Std. devn.**	294134.4524
Method detection limit		**Median**	95000
TOTAL	14	**Min.**	1400
		Max.	840000
Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.758	**r-squared is:**	0.919
Recommendations:	Use normal distribution.		
UCL:	UCL (based on t-statistic) is 248380.71 Cohen's method applied.		

Data set used for calculation:

Result	Sample ID
1400	004SHA0501
18000	004SMW0201
91000	004SHA0801
92500	004S000401
95000	004SGB0301
190000	004SHA0601
500000	004SHA0201
550000	004S000101
840000	004SHA0701

Uncensored data = Represents contaminant detections above the quantitation limit.
Censored data = Represents data reported below detection limit or below practical quantitation limits and reported as nondetect, "U."

MTCAStat Version 2.1 provided by the State of Washington Department of Ecology Toxics Cleanup Program, MTCAStat, P.O. Box 47600, Olympia, WA 98504-7600.

TABLE C3

95% UPPER CONFIDENCE LIMIT ESTIMATES FOR ARSENIC IN SITE 6 SURFACE SOIL

MTCAStat VERSION 2.1 CALCULATIONS

CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Number of samples		**Uncensored values**	
Uncensored	20	**Mean**	7.36
Censored		**Lognormal mean**	7.36
Detection limit or PQL		**Std. devn.**	1.336324496
Method detection limit		**Median**	6.95
TOTAL	20	**Min.**	5.4
		Max.	10.3

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.974	**r-squared is:**	0.949

Recommendations: Use lognormal distribution.

UCL: UCL (Land's method) is 7.9

Data set used for calculation:

Results	Sample ID
5.4	006SB0H101
5.8	006SB0L101
6.1	006SB0F201
6.2	006SB0H201
6.3	006SB0C101
6.3	006SB0L201
6.5	006SB0F101
6.8	006SB0D101
6.8	006SB0D201
6.8	006SB0G101
7.1	006SB0G201
7.4	006SB0A101
7.4	006SB0J301
7.9	006SB0J201
8	006SB0E201
8.5	006SB0K201
8.9	006SB0E101
9	006SB0K101
9.6	006SB0C201
10.3	006SB0A201

Uncensored data = Represents contaminant detections above the quantitation limit.
Censored data = Represents data reported below detection limit or below practical quantitation limits and reported as nondetect, "U."

MTCAStat Version 2.1 provided by the State of Washington Department of Ecology Toxics Cleanup Program, MTCAStat, P.O. Box 47600, Olympia, WA 98504-7600.

TABLE C4
95% UPPER CONFIDENCE LIMIT ESTIMATES FOR ALDRIN IN SITE 6 SURFACE SOIL
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	33	**Mean**	13.83
Censored		**Lognormal mean**	9.04
Detection limit or PQL		**Std. devn.**	41.7910448
Method detection limit		**Median**	1.7
TOTAL	33	**Min.**	1.35
		Max.	240

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.770	**r-squared is:**	0.283
Recommendations:	Assumed lognormal distribution.		
UCL:	UCL (Land's method) is 17.45		

UCL (Land's method) is 17.45

Data set used for calculation:

Results	Sample ID
1.35	006S00B101
1.35	006S00C101
1.35	006S00D101
1.35	006S00G101
1.35	006S00G201
1.35	006S00H101
1.35	006S00I101
1.35	006S00K101
1.5	006SB0L101
1.65	006SB0A201
1.65	006SB0C101
1.65	006SB0C201
1.65	006SB0D101
1.65	006SB0F101
1.65	006SB0G201
1.65	006SB0J201
1.7	006SB0D201
1.7	006SB0F201
1.7	006SB0J301
1.7	006SB0L201
4.3	006SB0A101
4.8	006S00L101
6.5	006SB0G101
6.5	006SB0H201
7.5	006SB0H101
14	006S00J101
16	006SB0E201
17	006S00F101
18	006S00H201
18	006SB0E101
24	006S00C201
49	006SB0K101
240	006SB0K201

TABLE C5
95% UPPER CONFIDENCE LIMIT ESTIMATES FOR DIELDRIN IN SITE 6 SURFACE SOIL
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	33	**Mean**	11.03
Censored		**Lognormal mean**	11.66
Detection limit or PQL		**Std. devn.**	18.0026696
Method detection limit		**Median**	0.85
TOTAL	33	**Min.**	0.65
		Max.	78

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.814	**r-squared is:**	0.639

Recommendations: Assumed lognormal distribution.

UCL: UCL (Land's method) is 30.7

Data used for calculation:

Result	Sample ID
0.65	006S00B101
0.65	006S00D101
0.65	006S00G101
0.65	006S00G201
0.65	006S00H101
0.65	006S00H201
0.65	006S00I101
0.75	006SB0L101
0.8	006SB0C101
0.8	006SB0C201
0.8	006SB0F101
0.8	006SB0G201
0.85	006SB0D101
0.85	006SB0D201
0.85	006SB0F201
0.85	006SB0J201
0.85	006SB0J301
0.85	006SB0L201
3.1	006SB0G101
3.2	006SB0H201
3.85	006SB0H101
5.5	006SB0A201
8	006SB0E201
8.5	006SB0K201
8.6	006SB0E101
24.5	006SB0K101
26	006S00C101
29	006S00L101
30	006SB0A101
36	006S00F101
42	006S00J101
44	006S00K101
78	006S00C201

TABLE C6
95% UPPER CONFIDENCE LIMIT ESTIMATES FOR ARSENIC IN SITE 6 SURFACE SOIL
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	22	**Mean**	462.73
Censored		**Lognormal mean**	391.56
Detection limit or PQL		**Std. devn.**	781.2211553
Method detection limit		**Median**	100
TOTAL	22	**Min.**	80
		Max.	2950

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.731	**r-squared is:**	0.532

Recommendations: Assumed lognormal distribution.

UCL: UCL (Land's method) is 777.37

Data used for calculation:

Result	Sample ID
80	006S00K101
2500	006S00L101
95	006SB0A101
100	006SB0A201
100	006SB0C101
100	006SB0C201
100	006SB0D101
100	006SB0D201
195	006SB0E101
950	006SB0E201
100	006SB0F101
100	006SB0F201
375	006SB0G101
100	006SB0G201
460	006SB0H101
385	006SB0H201
100	006SB0J201
100	006SB0J301
2950	006SB0K101
1000	006SB0K201
90	006SB0L101
100	006SB0L201

TABLE C7
95% UPPER CONFIDENCE LIMIT ESTIMATES FOR DINOSEB IN SITE 6 SURFACE SOIL
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	33	**Mean**	13884.21
Censored		**Lognormal mean**	13834.17
Detection limit or PQL		**Std. devn.**	33005.21059
Method detection limit		**Median**	2900
TOTAL	33	**Min.**	231
		Max.	160000

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.972	**r-squared is:**	0.416

Recommendations: Use lognormal distribution.
Use lognormal distribution.

UCL: UCL (Land's method) is 37971.88

Data used for calculation:

Result	Sample ID
2200	006S00G201
231	006S00H101
1155	006S00H201
231	006S00I101
2900	006S00J101
960	006S00K101
231	006S00L101
9500	006SB0A101
430	006SB0A201
14000	006SB0C101
2050	006SB0C201
6100	006SB0D101
2100	006SB0D201
2000	006SB0E101
10000	006SB0E201
16000	006SB0F101
21000	006SB0F201
45000	006SB0G101
5300	006SB0G201
7700	006SB0H101
10200	006SB0H201
500	006SB0J201
500	006SB0J301
4100	006SB0K101
1060	006SB0K201
1900	006SB0L101
2100	006SB0L201

TABLE C8

95% UPPER CONFIDENCE LIMIT ESTIMATES FOR 3,4-DICHLOROANILINE SITE 9 SURFACE SOIL

MTCAStat VERSION 2.1 CALCULATIONS

CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	16	**Mean**	4026175
Censored		**Lognormal mean**	66833524
Detection limit or PQL		**Std. devn.**	10506577
Method detection limit		**Median**	405000
TOTAL	16	**Min.**	150
		Max.	42500000

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.972	**r-squared is:**	0.396
Recommendations:	Use lognormal distribution.		
UCL:	UCL (Land's method) is 42227172423.58		

Data used for calculation:

Result	Sample ID
150	009SB01501
2000	009SB00101
4150	009SB01401
16000	009SB01901
19000	009SB00601
41500	009SB01301
76000	009SB00301
405000	009SB01001
405000	009SB01101
450000	009SB00701
1850000	009SB00901
2100000	009SB00801
4200000	009SB01201
4350000	009SB00501
8000000	009SB00401
42500000	009SB01601

TABLE C9
95% UPPER CONFIDENCE LIMIT ESTIMATES FOR DINOSEB IN SITE 9 SURFACE SOIL
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Number of samples		**Uncensored values**	
Uncensored	19	**Mean**	7593221
Censored		**Lognormal mean**	102858292
Detection limit or PQL		**Std. devn.**	11136492
Method detection limit		**Median**	210000
TOTAL	19	**Min.**	500
		Max.	29000000

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.925	**r-squared is:**	0.710

Recommendations: Use lognormal distribution.

UCL: UCL (Land's method) is 17181279.09

Data set used for calculation:

Result	Sample ID
500	009S002001
8600	009SB01501
9100	009SB01401
38000	009SB00101
42000	009S002101
93000	009SB01901
140000	009SB00301
150000	009SB01301
160000	009SB01101
210000	009SB00601
270000	009S002201
650000	009SB01001
7500000	009SB01601
13000000	009SB01201
15000000	009SB00801
24000000	009SB00401
26000000	009SB00701
28000000	009SB00901
29000000	009SB00501

TABLE C10
95% UPPER CONFIDENCE LIMIT ESTIMATES FOR PROPANIL IN SITE 9 SURFACE SOIL
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	16	**Mean**	3796358
Censored		**Lognormal mean**	61092176
Detection limit or PQL		**Std. devn.**	10446813.96
Method detection limit		**Median**	405000
TOTAL	16	**Min.**	360
		Max.	42500000

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.956	**r-squared is:**	0.360

Recommendations: Use lognormal distribution.

UCL (Land's method) is 36428134152.15

Data used for calculation:

Result	Sample ID
360	009SB01501
860	009SB01401
2000	009SB00101
11000	009SB00301
41500	009SB01301
50000	009SB01901
56000	009SB00601
405000	009SB01001
405000	009SB01101
770000	009SB00701
1850000	009SB00901
2100000	009SB00801
4000000	009SB00401
4200000	009SB01201
4350000	009SB00501
42500000	009SB01601

TABLE C11

95% UPPER CONFIDENCE LIMIT ESTIMATES FOR ARSENIC IN SITE 1 SURFACE AND SUBSURFACE SOIL

MTCAStat VERSION 2.1 CALCULATIONS

CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	20	**Mean**	7.26
Censored		**Lognormal mean**	6.77
Detection limit or PQL		**Std. devn.**	9.230464435
Method detection limit		**Median**	5.45
TOTAL	20	**Min.**	1.6
		Max.	44.6

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.885	**r-squared is:**	0.464

Recommendations: Assumed lognormal distribution.

UCL: UCL (Land's method) is 9.88

Data used for calculation:

Result	Sample ID
6.1	001SMW0102
7	001SMW0202
8.6	001SMW0302
6.1	001SMW0402
4.8	001SMW0502
1.6	001SMW0606
2.5	001SGB0103
2.5	001SGB0107
5.1	001SHA0101
44.6	001SHA0201
5.8	001SHA0301
7.3	001SHA0401
3.2	001SHA0501
5.7	001MW0101
14	001MW0201
6.8	001MW0301
3.3	001MW0401
5.2	001MW0501
2.5	001S000701
2.5	001GB0101

TABLE C12
95% UCL CALCULATION FOR DIELDRIN IN SITE 1 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		Uncensored values	
Uncensored	25	Mean	27.42
Censored		Lognormal mean	5.18
Detection limit or PQL		Std. devn.	118.5270492
Method detection limit		Median	0.8
TOTAL	25	Min.	0.65
		Max.	593

Lognormal distribution?		Normal distribution?	
r-squared is:	0.484	r-squared is:	0.214

Recommendations: Assumed lognormal distribution.

UCL: UCL (Land's method) is 16.04

Data used for calculation:

Result	Sample ID
0.65	S1S000603
0.65	S1S000702
0.65	S1S000704
0.65	S1SGB0103
0.65	S1SGB0107
0.65	1S000701
0.65	1SGB0101
0.65	S1SHA0701
0.7	S1SHA0301
0.75	1SMW0301
0.8	S1SMW0502
0.8	1SMW0101
0.8	1SMW0201
0.8	1SMW0401
0.8	1SMW0501
0.85	S1SMW0102
0.85	S1SMW0202
0.85	S1SMW0302
0.85	S1SMW0402
0.85	S1SHA0201
0.95	S1SMW0606
4.05	S1SHA0101
7.5	S1SHA0401
65	S1S000604
593	S1SHA0501

TABLE C13
95% UCL CALCULATION FOR 1,2-DICHLOROETHANE IN SITE 1 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	18	**Mean**	430.92
Censored		**Lognormal mean**	47.28
Detection limit or PQL		**Std. devn.**	1764.883443
Method detection limit		**Median**	3
TOTAL	18	**Min.**	2.5
		Max.	7500

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.381	**r-squared is:**	0.234

Recommendations: Assumed lognormal distribution.

UCL: UCL (Land's method) is 429.38

Data used for calculation:

Result	Sample ID
2.5	001SGB0103
2.5	001SGB0107
2.5	001SHA0301
3	001SMW0102
3	001SMW0202
3	001SMW0302
3	001SMW0402
3	001SMW0502
3	001SHA0101
3	001SHA0201
3	001SHA0401
3	001SMW0101
3	001SMW0201
3	001SMW0301
3	001SMW0401
3	001SMW0501
210	001SMW0606
7500	001SHA0501

TABLE C14
95% UCL CALCULATION FOR ALDRIN IN SITE 2 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	57	**Mean**	54.49
Censored		**Lognormal mean**	18.52
Detection limit or PQL		**Std. devn.**	238.0661693
Method detection limit		**Median**	1.8
TOTAL	57	**Min.**	1.2
		Max.	1700

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.730	**r-squared is:**	0.211
Recommendations:	Assumed lognormal distribution		
UCL:	UCL (Land's method) is 36.27		

Data used for calculation:

Result	Sample ID	Result	Sample ID
1.2	0IMSB00301	2.05	002S001405
1.35	002S000701	3.4	0IMSB00401
1.35	002S000702	3.45	002SB00804
1.35	002S000705	3.5	002SB00325
1.35	002S001001	3.6	0IMSB00201
1.35	002S001301	7	002SB01006
1.35	002S001305	16.5	002SB01206
1.35	002S001306	17	002SB00504
1.65	002SB00314	17	002SB00622
1.65	0IMSB00501	17	002SB01204
1.7	002SB00106	17.5	002SB00905
1.7	002SB00314	17.5	0IMSB00203
1.7	002SB00406	18	002SB00206
1.7	002SB00703	18	002SB00706
1.7	002SMW0107	18	002SB00806
1.7	002SMW0202	18	002SB00927
1.7	002SMW0304	1700	002SB01004
1.7	0IMSB00102	9.3	0IMSB00302
1.7	0IMSB00402	11	002S001501
1.7	0IMSB00502	16	002S001505
1.75	002SB00104	58	002S000501
1.75	002SB00205	140	002SB00506
1.75	002SMW0104	420	0IMSB00101
1.75	002SMW0105	500	002SB00629
1.75	002SMW0204		
1.75	0IMSB00103		
1.75	0IMSB00202		
1.75	0IMSB00303		
1.8	002SB00404		
1.8	002SMW0305		
1.8	002SMW0307		
1.85	002SB01106		
1.9	002SB01105		

TABLE C15
95% UCL CALCULATION FOR ARSENIC IN SITE 2 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	54	**Mean**	10.65
Censored	0	**Lognormal mean**	12.77
Detection limit or PQL	0	**Std. devn.**	11.79834879
Method detection limit	0	**Median**	8.7
TOTAL	54	**Min.**	0.1
		Max.	68.8

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.759	***r*-squared is:**	0.547
Recommendations:	Lognormal distribution assumed.		
UCL	UCL (Land's method) is 18.25		

Data used for calculation:

Result	Sample ID	Result	Sample ID
0.1	002S000501	9.6	0IMSB00501
0.1	002S001001	9.7	CEDSHAC301
2.5	002S000701	9.9	002SB01006
2.5	002S000702	10	CEDSHAC201
2.5	002S000705	10.5	002SMW0104
2.5	002S001301	10.7	002SB00104
2.5	002S001305	10.7	002SB00905
2.5	002S001306	10.8	002SMW0304
3.4	0IMSB00201	10.9	002SB00703
3.7	002SB00629	11.3	002SMW0305
4.3	002SB00106	12.1	002SB00706
4.9	002SB00206	12.2	002SMW0204
5	002SMW0107	14.7	002SB00406
5.6	002SB00506	18.7	002SB00622
6.1	002SMW0307	20.1	002SB01106
7.2	002SB00404	24.4	002SB01206
7.2	002SB00804	27.7	002SB00806
7.2	0IMSB00502	59	0IMSB00101
7.3	0IMSB00302	68.8	002CHA0501
7.4	0IMSB00202		
7.4	0IMSB00301		
7.6	002SMW0202		
7.7	002SB01204		
8	002SB00325		
8.5	002SB00314		
8.5	0IMSB00402		
8.6	0IMSB00401		
8.8	002SB01004		
8.8	002SB01105		
9	002SMW0105		
9.1	002SB00504		
9.1	002SB00927		
9.1	CEDSHAC101		
9.3	0IMSB00102		
9.4	002SB00205		

TABLE C16
95% UCL CALCULATION FOR CADMIUM IN SITE 2 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	44	**Mean**	7.72
Censored		**Lognormal mean**	1.08
Detection limit or PQL		**Std. devn.**	34.23387214
Method detection limit		**Median**	0.195
TOTAL	44	**Min.**	0.12
		Max.	163.8

Lognormal distribution?		**Normal distribution?**	
***r*-squared is:**	0.548	***r*-squared is:**	0.207

Recommendations: Assumed lognormal distribution

UCL: UCL (Land's method) is 2.09

Data used for calculation:

Result	Sample ID	Result	Sample ID
0.12	002SB00504	0.51	002SMW0204
0.125	002SB01204	0.53	002SB01105
0.13	002SB00404	0.73	002SB00629
0.13	002SB01006	0.73	002SB00905
0.175	0IMSB00101	0.75	002SB01004
0.18	002SB00206	0.75	002SMW0104
0.18	002SB00314	0.94	002SB00106
0.18	0IMSB00301	0.97	002SB00406
0.18	0IMSB00302	1.1	002SB00506
0.18	0IMSB00501	161.8	002SHA0501
0.185	002SMW0202	163.8	002CHA0501
0.185	002SMW0304		
0.185	0IMSB00102		
0.185	0IMSB00202		
0.185	0IMSB00401		
0.185	0IMSB00502		
0.19	002SB00622		
0.19	002SB00804		
0.19	0IMSB00402		
0.195	002SB00205		
0.195	002SB00325		
0.195	002SB00806		
0.195	002SB00927		
0.195	002SMW0105		
0.2	002SMW0307		
0.2	0IMSB00201		
0.25	002SB01206		
0.28	002SB00703		
0.29	002SB00104		
0.3	002SB00706		
0.44	002SMW0305		
0.45	002SB01106		
0.47	002SMW0107		

TABLE C17
95% UCL CALCULATION FOR CARBON TETRACHLORIDE IN SITE 2 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	51	**Mean**	1294.81
Censored		**Lognormal mean**	909.26
Detection limit or PQL		**Std. devn.**	6267.396605
Method detection limit		**Median**	9
TOTAL	51	**Min.**	2.5
		Max.	44500

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.797	**r-squared is:**	0.180

Recommendations: Assumed lognormal distribution.

UCL: UCL (Land's method) is 5033.43

Data used for calculation:

Result	Sample ID	Result	Sample ID
2.5	002S000501	16.5	002SB01006
2.5	002S000701	17	002SB00806
2.5	002S000702	17	002SMW0307
2.5	002S000705	310	002SB00325
2.5	002S001001	375	002SB00206
2.5	002S001301	380	002SB01204
3	002SB00314	410	002SB00706
3	002SMW0202	415	002SB01106
3	002SMW0204	415	002SMW0105
3	002SMW0304	420	002SB00104
3	0IMSB00101	800	002SB00106
3	0IMSB00102	800	002SB00406
3	0IMSB00301	3900	002SB00622
3	0IMSB00302	4100	002SB00205
3	0IMSB00401	4150	002SB00629
3	0IMSB00402	4150	002SB01004
3	0IMSB00501	44500	002SB00506
3	0IMSB00502	670	002SB00927
3.5	002SB00703		
3.5	002SB00905		
3.5	002SMW0107		
3.5	0IMSB00201		
3.5	0IMSB00202		
3.5	0IMSB00203		
7	002SMW0104		
9	002SB01105		
11.5	002S001305		
12.5	002S001306		
14.5	002SB00504		
15.5	002SB01206		
15.5	002SMW0305		
16	002SB00804		
16.5	002SB00404		

TABLE C18
95% UCL CALCULATION FOR CHLOROFORM IN SITE 2 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	51	**Mean**	1622.93
Censored		**Lognormal mean**	3208.60
Detection limit or PQL		**Std. devn.**	6456.901288
Method detection limit		**Median**	11.5
TOTAL	51	**Min.**	2
		Max.	44500

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.850	**r-squared is:**	0.237
Recommendations:	Assumed lognormal distribution.		
UCL:	UCL (Land's method) is 24525.06		

Data used for calculation:

Result	Sample ID	Result	Sample ID
2	002SB00905	260	002SB00706
2.5	002S000501	375	002SB00206
2.5	002S000701	390	002SMW0305
2.5	002S000702	415	002SMW0105
2.5	002S000705	420	002SB00104
2.5	002S001001	620	002SB00325
2.5	002S001301	620	002SB01204
3	002SB00314	800	002SB00106
3	002SMW0202	800	002SB00406
3	002SMW0204	1100	002SB00806
3	0IMSB00101	1100	002SB01206
3	0IMSB00102	2700	002SB01106
3	0IMSB00301	2800	002SB00629
3	0IMSB00302	3900	002SB00622
3	0IMSB00401	4100	002SB00205
3	0IMSB00402	4150	002SB01004
3	0IMSB00501	13000	002SB00927
3	0IMSB00502	44500	002SB00506
3.5	002SB00703		
3.5	002SMW0107		
3.5	0IMSB00201		
3.5	0IMSB00202		
3.5	0IMSB00203		
7	002SMW0104		
10	002SMW0307		
11.5	002S001305		
12.5	002S001306		
18	002SB00404		
39	002SB01105		
50	002SB00804		
64	002SB01006		
190	002SMW0304		
250	002SB00504		

TABLE C19
95% UCL CALCULATION FOR MERCURY IN SITE 2 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	43	**Mean**	2.66
Censored		**Lognormal mean**	
Detection limit or PQL		**Std. devn.**	17.02472318
Method detection limit		**Median**	0.06
TOTAL	43	**Min.**	0.05
		Max.	111.7

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.166	**r-squared is:**	0.122
Recommendations:	Assumed lognormal distribution		
UCL:	UCL (Land's method) is 0.22		

Data used for calculation:

Result	Sample ID	Result	Sample ID
0.05	0IMSB00301	0.065	002SB00927
0.05	0IMSB00501	0.065	002SB01006
0.055	002SB00504	0.065	002SB01106
0.055	0IMSB00101	0.065	002SMW0105
0.055	0IMSB00201	0.065	002SMW0204
0.055	0IMSB00202	0.065	002SMW0304
0.055	0IMSB00302	0.065	002SMW0305
0.055	0IMSB00401	0.07	002SB01105
0.06	002SB00104	0.07	002SMW0307
0.06	002SB00622	111.7	002SHA0501
0.06	002SB00706		
0.06	002SB00804		
0.06	002SB00905		
0.06	002SB01004		
0.06	002SB01204		
0.06	002SB01206		
0.06	002SMW0104		
0.06	002SMW0107		
0.06	002SMW0202		
0.06	0IMSB00102		
0.06	0IMSB00402		
0.06	0IMSB00502		
0.065	002SB00106		
0.065	002SB00205		
0.065	002SB00206		
0.065	002SB00314		
0.065	002SB00325		
0.065	002SB00404		
0.065	002SB00406		
0.065	002SB00506		
0.065	002SB00629		
0.065	002SB00703		
0.065	002SB00806		

TABLE C20
95% UCL CALCULATION FOR DIELDRIN IN SITE 2 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	6	**Mean**	214.32
Censored		**Lognormal mean**	369.68
Detection limit or PQL		**Std. devn.**	338.4849209
Method detection limit		**Median**	34.5
TOTAL	6	**Min.**	7.4
		Max.	850

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.899	**r-squared is:**	0.712

Recommendations: Assumed lognormal distribution.

UCL: UCL (Land's method) is 368503.14

Data used for calculation:

Result	Sample ID
7.4	0IMSB00201
9.5	002S001505
13	0IMSB00501
56	0IMSB00401
350	0IMSB00203
850	002SB01004

TABLE C21
95% UCL CALCULATION FOR DICHLOROMETHANE IN SITE 1 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	33	**Mean**	34472.00
Censored		**Lognormal mean**	165781.30
Detection limit or PQL		**Std. devn.**	74612.76343
Method detection limit		**Median**	2100
TOTAL	33	**Min.**	12
		Max.	380000

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.974	**r-squared is:**	0.503
Recommendations:	Assumed lognormal distribution.		
UCL:	UCL (Land's method) is 2360611.12		

Data used for calculation:

Result	Sample ID
12	0IMSB00302
26	002SMW0307
28	002SB00905
46	002SB00703
66	0IMSB00203
68	002SB00314
160	002SMW0107
250	002SMW0304
320	002SMW0104
340	002SB01105
370	002SB01006
890	002SMW0305
1100	002SB00804
1200	002SB00404
1750	002SB01106
1900	002SB00504
2100	002SB00806
3600	002S001306
4000	002S001305
4100	002SB01206
4150	002SB01004
8100	002SB00325
13000	002SB00104
25000	002SMW0105
40000	002SB00206
45000	002SB00205
45000	002SB01204
82000	002SB00629
93000	002SB00927
100000	002SB00406
110000	002SB00106
170000	002SB00622
380000	002SB00506

TABLE C22
95% UCL CALCULATION FOR ARSENIC IN SITE 3 SEDIMENT
CONSTRUCTION WORKER AND TRESPASSER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	34	**Mean**	10.61
Censored		**Lognormal mean**	5.83
Detection limit or PQL		**Std. devn.**	37.52934966
Method detection limit		**Median**	2.5
TOTAL	34	**Min.**	2.5
		Max.	222

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.541	**r-squared is:**	0.192

Recommendations: Assumed lognormal distribution.

UCL: UCL (Land's method) is 8.36

Data used for calculation:

Result	Sample ID
2.5	003M000101
2.5	003M000102
2.5	003M000201
2.5	003M000202
2.5	003M000301
2.5	003M000302
2.5	003M000401
2.5	003M000402
2.5	003M000501
2.5	003M000502
2.5	003M000601
2.5	003M000602
2.5	003M000701
2.5	003M000702
2.5	003M000801
2.5	003M000802
2.5	003M000901
2.5	003M000902
2.5	003M001001
2.5	003M001002
2.5	003M001101
20	003M001102
2.5	003M001201
2.5	003M001202
6.5	003MSD0100
6.6	003MSD0200
4.5	003MSD0300
3.6	003MSD0400
7.2	003MSD0500
12.5	003MSD0600
6.6	003MSD0700
9.3	003MSD0800
222	003MSD0900
4.3	003MSD1000

TABLE C23
95% UCL CALCULATION FOR ALDRIN IN SITE 3 SEDIMENT
CONSTRUCTION WORKER AND TRESPASSER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	34	**Mean**	14.66
Censored		**Lognormal mean**	5.99
Detection limit or PQL		**Std. devn.**	60.44827087
Method detection limit		**Median**	1.35
TOTAL	34	**Min.**	1.35
		Max.	354

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.622	**r-squared is:**	0.200

Recommendations: Assumed lognormal distribution

UCL: UCL (Land's method) is 10.86

Data used for calculation:

Result	Sample ID
1.35	003M000101
1.35	003M000102
1.35	003M000201
1.35	003M000202
1.35	003M000301
8.3	003M000302
1.35	003M000401
1.35	003M000402
13.5	003M000501
1.35	003M000502
1.35	003M000601
1.35	003M000602
2.8	003M000701
1.35	003M000702
1.35	003M000801
1.35	003M000802
1.35	003M000901
1.35	003M000902
42.5	003M001001
1.35	003M001002
1.35	003M001101
1.35	003M001102
1.35	003M001201
1.35	003M001202
16.5	003MSD0100
1.7	003MSD0200
354	003MSD0300
1.85	003MSD0400
5	003MSD0500
6.5	003MSD0600
8	003MSD0700
7.5	003MSD0800
1.75	003MSD0900
1.55	003MSD1000

TABLE C24
95% UCL CALCULATION FOR DIELDRIN IN SITE 3 SEDIMENT
CONSTRUCTION WORKER AND TRESPASSER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	34	**Mean**	125.60
Censored		**Lognormal mean**	46.05
Detection limit or PQL		**Std. devn.**	583.2495023
Method detection limit		**Median**	0.65
TOTAL	34	**Min.**	0.65
		Max.	3400

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.759	**r-squared is:**	0.196

Recommendations: Assumed lognormal distribution.

UCL: UCL (Land's method) is 245.06

Data used for calculation:

Result	Sample ID
0.65	003M000101
0.65	003M000102
0.65	003M000201
0.65	003M000202
0.65	003M000301
2	003M000302
5.6	003M000401
0.65	003M000402
6.5	003M000501
0.65	003M000502
0.65	003M000601
0.65	003M000602
0.65	003M000701
0.65	003M000702
0.65	003M000801
0.65	003M000802
0.65	003M000901
0.65	003M000902
385	003M001001
11	003M001002
0.65	003M001101
43	003M001102
0.65	003M001201
0.65	003M001202
8.5	003MSD0100
12	003MSD0200
3400	003MSD0300
2.9	003MSD0400
57	003MSD0500
86	003MSD0600
200	003MSD0700
34	003MSD0800
4.5	003MSD0900
0.8	003MSD1000

TABLE C25
95% UCL CALCULATION FOR PENTACHLOROPHENOL IN SITE 3 SEDIMENT
CONSTRUCTION WORKER AND TRESPASSER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	10	**Mean**	2091.50
Censored		**Lognormal mean**	2453.00
Detection limit or PQL		**Std. devn.**	1359.330002
Method detection limit		**Median**	2100
TOTAL	10	**Min.**	200
		Max.	5300

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.736	**r-squared is:**	0.754

Recommendations: Assumed lognormal distribution.

UCL: UCL (Land's method) is 6203.9

Data used for calculation:

Result	Sample ID
5300	003MSD0100
200	003MSD0200
2050	003MSD0300
2300	003MSD0400
2150	003MSD0500
2000	003MSD0600
2000	003MSD0700
2300	003MSD0800
2150	003MSD0900
465	003MSD1000

TABLE C26
95% UCL CALCULATION FOR ARSENIC IN SITE 4 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	16	**Mean**	6.22
Censored		**Lognormal mean**	6.37
Detection limit or PQL		**Std. devn.**	3.34283905
Method detection limit		**Median**	5.7
TOTAL	16	**Min.**	1.3
		Max.	15.5

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.943	**r-squared is:**	0.893

Recommendations: Use lognormal distribution.

UCL: UCL (Land's method) is 8.72

Data used for calculation:

Result	Sample ID
1.3	4MW-2 (25-30
3.1	4HA-5 (2-3')
3.3	4HA-1 (2-3')
3.8	4HA-2 (1-2')
4.1	4HA-5 (1-2')
4.4	4HA-2 (2-3')
5	4HA-1 (1-2')
5.2	4HA-6 (1-2')
6.2	4HA-7 (7-8')
6.6	4HA-8 (7-8')
7.2	4HA-4 (1-2')
7.4	4HA-7 (6-7')
8.3	4HA-8 (6-7')
8.65	4HA-4 (2-3')
9.4	4MW-1 (10-15
15.5	4MW-1 (25-30

TABLE C27
95% UCL CALCULATION FOR DIELDRIN IN SITE 4 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	41	**Mean**	35.15
Censored		**Lognormal mean**	13.14
Detection limit or PQL		**Std. devn.**	121.8385868
Method detection limit		**Median**	0.85
TOTAL	41	**Min.**	0.65
		Max.	630

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.709	**r-squared is:**	0.298
Recommendations:	Assumed lognormal distribution.		
UCL:	UCL (Land's method) is 36.95		

Data used for calculation:

Result	Sample ID	Result	Sample ID
0.65	4SB-1 (4-6')	39	4HA-5 (1-2')
0.65	4SB-1 (8-10'	1.6	4HA-4 (0-1')
0.65	4SB-2 (4-6')	5.7	4MW-1 (10-15
0.65	4SB-2 (12-14	50	4HA-1 (2-3')
0.65	4MW-3 (26-33	190	4HA-6 (0-1')
0.65	4MW-3 (33-38	455	4MW-4 (0-3')
0.65	4MW-4 (8-13'	630	4HA-6 (1-2')
0.65	4MW-4 (18-23		
0.65	4MW-4 (23-28		
0.65	4SB-3 (12-14		
0.65	4SB-1 (0-2')		
0.65	4SB-2 (0-2')		
0.65	4MW-3 (0-3')		
0.7	4HA-3 (0-1')		
0.75	4HA-1 (1-2')		
0.75	4HA-1 (0-1')		
0.8	4HA-8 (6-7')		
0.8	4HA-8 (7-8')		
0.8	4HA-8 (5-6')		
0.8	4MW-2 (0-5')		
0.85	4HA-7 (6-7')		
0.85	4HA-7 (7-8')		
0.85	4MW-2 (25-30		
0.85	4HA-7 (5-6')		
0.9	4MW-1 (25-30		
1.55	4HA-5 (0-1')		
1.65	4HA-4 (2-3')		
4.1	4HA-5 (2-3')		
6.5	4SB-3 (6-8')		
6.5	4SB-3 (0-2')		
7.5	4HA-2 (0-1')		
8	4HA-2 (1-2')		
8	4HA-2 (2-3')		
8	4HA-4 (1-2')		

TABLE C28
95% UCL CALCULATION FOR 3,4-DICHLOROANILINE IN SITE 4 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	25	**Mean**	601697.88
Censored		**Lognormal mean**	356155.27
Detection limit or PQL		**Std. devn.**	2426990.639
Method detection limit		**Median**	750
TOTAL	25	**Min.**	12
		Max.	12000000

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.834	**r-squared is:**	0.246
Recommendations:	Assumed lognormal distribution.		
UCL:	UCL (Land's method) is 15083232.59		

Data used for calculation:

Result	Sample ID
12	4MW-1 (25-30
345	4HA-3 (0-1')
350	4HA-4 (0-1')
360	4HA-1 (0-1')
400	4HA-8 (7-8')
400	4HA-8 (5-6')
405	4HA-4 (1-2')
405	4HA-4 (2-3')
405	4HA-7 (6-7')
405	4HA-8 (6-7')
410	4HA-7 (5-6')
500	4MW-2 (25-30
750	4HA-6 (0-1')
800	4HA-7 (7-8')
1900	4HA-1 (1-2')
2550	4MW-1 (10-15
4750	4MW-2 (0-5')
4900	4HA-1 (2-3')
7400	4HA-2 (1-2')
11500	4HA-2 (2-3')
18500	4HA-2 (0-1')
85000	4HA-5 (0-1')
400000	4HA-5 (2-3')
2500000	4HA-5 (1-2')
12000000	4HA-6 (1-2')

TABLE C29

95% UCL CALCULATION FOR DINOSEB IN SITE 4 SURFACE AND SUBSURFACE SOIL

CONSTRUCTION WORKER SCENARIO

MTCAStat VERSION 2.1 CALCULATIONS

CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	41	**Mean**	152127.93
Censored		**Lognormal mean**	1247887.80
Detection limit or PQL		**Std. devn.**	286698.5487
Method detection limit		**Median**	1400
TOTAL	41	**Min.**	45
		Max.	1100000

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.871	**r-squared is:**	0.600
Recommendations:	Assumed lognormal distribution.		
UCL:	UCL (Land's method) is 22273753.36		

Data used for calculation:

Result	Sample ID	Result	Sample ID
45	4MW-2 (25-30	190000	4HA-6 (0-1')
231	4SB-1 (8-10'	360000	4SB-1 (4-6')
231	4SB-2 (4-6')	470000	4HA-2 (2-3')
231	4SB-2 (12-14	500000	4HA-2 (0-1')
231	4MW-3 (28-33	550000	4SB-1 (0-2')
231	4MW-3 (33-38	700000	4HA-6 (1-2')
231	4MW-4 (18-23	840000	4HA-7 (5-6')
231	4MW-4 (23-28	920000	4HA-5 (2-3')
231	4SB-3 (6-8')	1100000	4HA-2 (1-2')
231	4SB-3 (12-14		
231	4MW-3 (0-3')		
345	4HA-3 (0-1')		
350	4HA-4 (0-1')		
360	4HA-1 (0-1')		
380	4HA-1 (1-2')		
405	4HA-4 (1-2')		
405	4HA-4 (2-3')		
550	4MW-1 (25-30		
740	4HA-1 (2-3')		
1155	4SB-2 (0-2')		
1400	4HA-5 (0-1')		
6300	4MW-1 (10-15		
18000	4MW-2 (0-5')		
19000	4HA-7 (7-8')		
26000	4HA-6 (7-8')		
30000	4HA-5 (1-2')		
50000	4MW-4 (8-13'		
73000	4HA-8 (6-7')		
91000	4HA-8 (5-6')		
92500	4MW-4 (0-3')		
95000	4SB-3 (0-2')		
98000	4HA-7 (6-7')		

TABLE C30
95% UCL CALCULATION FOR 1,2-DICHLOROETHANE IN SITE 4 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	35	**Mean**	71.51
Censored		**Lognormal mean**	42.60
Detection limit or PQL		**Std. devn.**	184.9843042
Method detection limit		**Median**	3
TOTAL	35	**Min.**	2.5
		Max.	820

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.737	**r-squared is:**	0.419
Recommendations:	Assumed lognormal distribution.		
UCL:	UCL (Land's method) is 119.88		

Data used for calculation:

Result	Sample ID
2.5	4SB-1 (4-6')
2.5	4SB-1 (8-10'
2.5	4MW-4 (8-13'
2.5	4MW-4 (23-28
2.5	4MW-3 (0-3')
2.5	4MW-4 (0-3')
2.5	4HA-2 (0-1')
2.5	4HA-3 (0-1')
2.5	4HA-4 (0-1')
3	4HA-1 (1-2')
3	4HA-1 (2-3')
3	4HA-5 (2-3')
3	4HA-8 (6-7')
3	4HA-8 (7-8')
3	4HA-1 (0-1')
3	4HA-6 (0-1')
3	4HA-7 (5-6')
3	4HA-8 (5-6')
3	4MW-2 (0-5')
3.5	4MW-2 (25-30
5	4HA-5 (0-1')
5.5	4HA-6 (1-2')
7.5	4HA-2 (2-3')
8.5	4HA-2 (1-2')
14.5	4HA-5 (1-2')
9.9	4SB-1 (0-2')
25	4HA-4 (1-2')
26	4HA-7 (7-8')
31	4HA-7 (6-7')
49	4MW-4 (18-23
120	4MW-1 (10-15
335	4HA-4 (2-3')
340	4MW-3 (28-33
650	4MW-1 (25-30
820	4MW-3 (33-38

TABLE C31
95% UCL CALCULATION FOR 3,4-DICHLOROANILINE IN SITE 9 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	36	**Mean**	1956929.72
Censored		**Lognormal mean**	9135980.24
Detection limit or PQL		**Std. devn.**	7164821.148
Method detection limit		**Median**	41500
TOTAL	36	**Min.**	130
		Max.	42500000

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.977	**r-squared is:**	0.263

Recommendations: Use lognormal distribution

UCL: UCL (Land's method) is 208228588.14

Data used for calculation:

Result	Sample ID
130	9SB-3 (5-10')
150	9SB-15 (0-5')
420	9SB-1 (5-10')
420	9SB-2 (5-10')
1300	9SB-19 (5-10')
2000	9SB-1 (0-5')
4100	9SB-8 (5-10')
4100	9SB-10 (5-10')
4150	9SB-14 (5-10')
4150	9SB-16 (5-10')
4150	9SB-14 (0-5')
4200	9SB-13 (5-10')
4200	9SB-15 (5-10')
8000	9SB-9 (5-10')
16000	9SB-19 (0-5')
19000	9SB-6 (0-5')
20500	9SB-11 (5-10')
41500	9SB-7 (10-15')
41500	9SB-12 (5-10')
41500	9SB-13 (0-5')
42000	9SB-6 (5-10')
76000	9SB-3 (0-5')
85000	9SB-4 (10-15')
210000	9SB-5 (10-15')
405000	9SB-10 (0-5')
405000	9SB-11 (0-5')
450000	9SB-7 (0-5')
455000	9SB-7 (5-10')
800000	9SB-4 (5-10')
1850000	9SB-9 (0-5')
2100000	9SB-8 (0-5')
4200000	9SB-12 (0-5')
4300000	9SB-5 (5-10')
4350000	9SB-5 (0-5')
8000000	9SB-4 (0-5')
42500000	9SB-16 (0-5')

TABLE C32
95% UCL CALCULATION FOR DINOSEB IN SITE 9 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	45	**Mean**	3708180
Censored		**Lognormal mean**	29665010
Detection limit or PQL		**Std. devn.**	8037728
Method detection limit		**Median**	93000
TOTAL	45	**Min.**	231
		Max.	29000000

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.972	**r-squared is:**	0.522
Recommendations:	Use lognormal distribution.		

UCL (Land's method) is 510866815.38

Data used for calculation:

Result	Sample ID	Result	Sample ID
231	9SB-20 (25-27')	650000	9SB-10 (0-5')
231	9SB-20 (30-32')	1700000	9SB-5 (10-15')
500	9SB-20 (10-12')	4100000	9SB-5 (5-10')
690	9SB-21 (25-27')	6400000	9SB-7 (5-10')
880	9SB-22 (15-17')	7500000	9SB-16 (0-5')
1600	9SB-2 (5-10')	8500000	9SB-4 (5-10')
2050	9SB-3 (5-10')	13000000	9SB-12 (0-5')
4000	9SB-22 (17-19')	15000000	9SB-8 (0-5')
7400	9SB-21 (23-25')	24000000	9SB-4 (0-5')
8600	9SB-15 (0-5')	26000000	9SB-7 (0-5')
9100	9SB-14 (0-5')	28000000	9SB-9 (0-5')
9200	9SB-16 (5-10')	29000000	9SB-5 (0-5')
9600	9SB-1 (5-10')		
13000	9SB-8 (5-10')		
17000	9SB-19 (5-10')		
22000	9SB-15 (5-10')		
34000	9SB-13 (5-10')		
35000	9SB-14 (5-10')		
38000	9SB-1 (0-5')		
40000	9SB-10 (5-10')		
42000	9SB-21 (10-12')		
90000	9SB-9 (5-10')		
93000	9SB-19 (0-5')		
140000	9SB-3 (0-5')		
150000	9SB-13 (0-5')		
160000	9SB-11 (0-5')		
170000	9SB-11 (5-10')		
210000	9SB-6 (5-10')		
210000	9SB-6 (0-5')		
270000	9SB-22 (10-12')		
320000	9SB-12 (5-10')		
360000	9SB-7 (10-15')		
550000	9SB-4 (10-15')		

TABLE C33
95% UCL CALCULATION FOR PROPANIL IN SITE 9 SURFACE AND SUBSURFACE SOIL
CONSTRUCTION WORKER SCENARIO
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

MTCA*Stat* 2.1

Number of samples		**Uncensored values**	
Uncensored	36	**Mean**	1854404
Censored		**Lognormal mean**	8839870
Detection limit or PQL		**Std. devn.**	7097625
Method detection limit		**Median**	41500
TOTAL	36	**Min.**	150
		Max.	42500000

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.971	**r-squared is:**	0.242
Recommendations:	Use lognormal distribution.		
UCL:	UCL (Land's method) is 203638676.85		

Data used for calculation:

Result	Sample ID	Result	Sample ID
150	9SB-2 (5-10')	4300000	9SB-5 (5-10')
310	9SB-1 (5-10')	4350000	9SB-5 (0-5')
360	9SB-15 (0-5')	42500000	9SB-16 (0-5')
410	9SB-3 (5-10')		
860	9SB-14 (0-5')		
1300	9SB-19 (5-10')		
2000	9SB-1 (0-5')		
3300	9SB-14 (5-10')		
4100	9SB-8 (5-10')		
4100	9SB-10 (5-10')		
4150	9SB-16 (5-10')		
4200	9SB-13 (5-10')		
4200	9SB-15 (5-10')		
8000	9SB-9 (5-10')		
8600	9SB-6 (5-10')		
11000	9SB-3 (0-5')		
41000	9SB-11 (5-10')		
41500	9SB-7 (10-15')		
41500	9SB-12 (5-10')		
41500	9SB-13 (0-5')		
50000	9SB-19 (0-5')		
56000	9SB-6 (0-5')		
85000	9SB-4 (10-15')		
210000	9SB-5 (10-15')		
405000	9SB-10 (0-5')		
405000	9SB-11 (0-5')		
455000	9SB-7 (5-10')		
770000	9SB-7 (0-5')		
800000	9SB-4 (5-10')		
1850000	9SB-9 (0-5')		
2100000	9SB-8 (0-5')		
4000000	9SB-4 (0-5')		
4200000	9SB-12 (0-5')		

TABLE C34
95% UCL FOR ARSENIC IN BACKGROUND SURFACE SOIL
MTCAStat VERSION 2.1 CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Uncensored	13	**Mean**	17.50
Censored	0	**Lognormal mean**	17.74
Detection limit or PQL	NA	**Std. devn.**	15.6355426
Method detection limit	NA	**Median**	9.8
TOTAL	13	**Min.**	3.9
		Max.	61

Lognormal distribution?		**Normal distribution?**	
r-squared is:	0.968	**r-squared is:**	0.769
Recommendations:	Use lognormal distribution.		
UCL:	UCL (Land's method) is 31.64		

Data used for calculation:

Result	Sample ID
7.9	CEDSBKG901
7.95	CEDSBK1001
9.5	CEDSBKG501
9.8	CEDSBKG601
18	CEDSBKG801
20	CEDSBKG201
21	CEDSBKG101
26	CEDSBKG401
31	CEDSBKG701
61	CEDSBKG301
3.9	BGHA-1
6.2	BGHA-2
5.3	BGHA-3

NA = Not Applicable. There were no nondetects in the data set.

D

Appendix D

Volatilization Factor Calculations

EPA United States Environmental Protection Agency — Superfund Risk Assessment

Equation Values for Inhalation of Volatiles

Volatilization Factor Parameter	Value	Soil Saturation Concentration Parameter	Value	Noncarcinogenic Parameter	Value	Carcinogenic Parameter
Surface Area (acres)	30.0			Target Hazard Quotient (unitless)	1	Target Risk (unitless
City (climate zone)	LittleRock(VI)			Exposure Duration (yr)	30	Exposure Duration (
Q/C (g/m^2-s per kg/m^3)	37.64			Exposure Frequency (day/yr)	350	Exposure Frequency (day/yr)
Fraction organic carbon (unitless)	0.006	Fraction organic carbon (unitless)	0.006			Average Lifetime (yr
Dry soil bulk density (g/cm^3)	1.5	Dry soil bulk density (g/cm^3)	1.5			
Soil particle density (g/cm^3)	2.65	Soil particle density (g/cm^3)	2.65			
Water-filled soil porosity (L_{water}/L_{soil})	0.15	Water-filled soil porosity (L_{water}/L_{soil})	0.15			
Exposure interval (s)	9.5e08					

Soil Screening Levels for Inhalation of Volatiles (mg/kg)

Analyte	Cas Number	Inhalation RfC	Inhalation Unit Risk	Volatilization Factor	Soil Saturation Concentration	Noncarcinogenic	Carci
Carbon Tetrachloride	56235		1.5E-05 a	1.1E+03	1.1E+03		1.8

URL: http://risk.lsd.ornl.gov/epa/ssl1.htm
This page was last updated on: May 12, 1999
Site maintained by: Office of Emergency and Remedial Response
beasley.lynn@epa.gov

EPA United States Environmental Protection Agency — Superfund Risk Assessment

SELECTION:

Your **Analytes** are:
Carbon Tetrachloride

Your **Pathways** are
Inhalation of Volatiles

Default Parameters
Each pathway you have selected is given below along with the applicable Equations and its associated Default Parameters. equation, the default values will be used unless you enter a different value.

Inhalation of Volatiles

There are two methods for calculating volatilization factor depending on which parameters are known. Select a surface area, a zone, and a method calculation.

Volatilization Factor - METHOD 1

$$VF\,(m^3/kg) = \frac{Q/C \times (3.14 \times D_A \times T)^{1/2} \times 10^{-4}\,(m^2/cm^2)}{2 \times \rho_b \times D_A}$$

where $$D_A = \frac{\left[\left(\theta_a^{10/3} D_i H' + \theta_w^{10/3} D_w\right)/n^2\right]}{\rho_b K_d + \theta_w + \theta_a H'}$$

0.006	foc (fraction organic carbon in soil) g/g
1.5	ρ_b (dry soil bulk density) g/cm^3
2.65	ρ_s (soil particle density) g/cm^3
9.5e08	T (exposure interval) s
0.15	θ_w (water-filled soil porosity) L$_{water}$/L$_{soil}$

Volatilization Factor - METHOD 2 (mass-limit approach)

$$VF = Q/C \times \frac{\left[T \times \left(3.15 \times 10^7\,(s/yr)\right)\right]}{\left(\rho_b \times d_s \times 10^6\,(g/Mg)\right)}$$

1.5	ρ_b (dry soil bulk density) kg/L or M
30	T (exposure interval) yr
0	d_s (depth of source) m - site-specific

Do not use this method unless you have values for all of the parameters.

Little Rock (VI) — City (Climatic Zone)

30.0 — Surface Area (acres)

37.64 — Q/C (inverse of the mean conc. at the center of a 0.5-acre-square source) g/m^2-s per kg/m^3

Method for Calculating VF
Method 1 (●) Method 2 ( )

NOTES:

1. VF (volatilization factor) m^3/kg
2. The Surface Area and City/Climate Zone are used to look up a Q/C. Q/C is the inverse of mean concentration at center acre-square source (g/m^2-s per kg/m^3). Pick the city with the most similar climatic conditions (map).
3. D_A (apparent diffusivity) cm^2/s

4. θ_a (air-filled soil porosity) $L_{air}/L_{soil} = n - \theta_w$
5. D_i (diffusivity in air) cm^2/s - chemical-specific
6. H' (dimensionless Henry's law constant) - chemical-specific
7. n (total soil porosity) $L_{pore}/L_{soil} = 1-(\rho_b/\rho_s)$
8. D_w (diffusivity in water) - chemical-specific
9. K_d (soil-water partition coefficient) $cm^3/g = K_{oc} \times f_{oc}$ (organics) - chemical-specific
10. K_{oc} (soil organic carbon partition coefficient) cm^3/g - chemical specific

Inhalation of Noncarcinogenic Volatiles in Soil

$$SL(mg/kg) = \frac{THQ \times AT \times 365(d/yr)}{EF \times ED \times \left[\frac{1}{RfC} \times \frac{1}{VF}\right]}$$

1	THQ (target hazard quotient) unitless
30	AT (averaging time) yr
350	EF (exposure frequency) d/yr
30	ED (exposure duration) yr

NOTES:

1. AT=ED for Noncarcinogens.
2. RfC (inhalation reference concentration) mg/m^3 - chemical-specific
3. VF (volatilization factor) m^3/kg

Inhalation of Carcinogenic Volatiles in Soil

$$SL(mg/kg) = \frac{TR \times AT \times 365(d/yr)}{URF \times 1{,}000(ug/mg) \times EF \times ED \times \frac{1}{VF}}$$

1.0E-6	TR (target risk) unitless
70	AT (averaging time) yr
350	EF (exposure frequency) d/yr
30	ED (exposure duration) yr

NOTES:

1. URF (inhalation unit risk factor) $(ug/m^3)^{-1}$ - chemical-specific
2. VF (volatilization factor) m^3/kg

Inhalation of Volatiles - Soil Saturation Concentration

Only applies to chemicals which are liquid at ambient air temperatures.

$$C_{sat} = \frac{S}{\rho_b}(K_d\rho_b + \theta_w + H'\theta_a)$$

0.006	foc (fraction organic carbon in soil) g/g
1.5	ρ_b (dry soil bulk density) kg/L
2.65	ρ_s (soil particle density) kg/L
0.15	θ_w (water-filled soil porosity) L_{water}/L_{soil}

NOTES:

1. C_{sat} (soil saturation concentration) mg/kg
2. S (solubility in water) mg/L-water - chemical-specific
3. θ_a (air-filled soil porosity) $L_{air}/L_{soil} = n - \theta_w$
4. H' (dimensionless Henry's law constant) - chemical-specific
5. n (total soil porosity) $L_{pore}/L_{soil} = 1-(\rho_b/\rho_s)$
6. K_d (soil-water partition coefficient) L/kg = $K_{oc} \times f_{oc}$ (organics) - chemical-specific
7. K_{oc} (soil organic carbon/water partition coefficient) L/kg - chemical specific

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Equation Values for Inhalation of Volatiles

Volatilization Factor Parameter	Value	Soil Saturation Concentration Parameter	Value	Noncarcinogenic Parameter	Value	Carcinogenic Parameter
Surface Area (acres)	30.0			Target Hazard Quotient (unitless)	1	Target Risk (unitless
City (climate zone)	LittleRock(VI)			Exposure Duration (yr)	30	Exposure Duration (
Q/C (g/m^2-s per kg/m^3)	37.64			Exposure Frequency (day/yr)	350	Exposure Frequency (day/yr)
Fraction organic carbon (unitless)	0.006	Fraction organic carbon (unitless)	0.006			Average Lifetime (yr
Dry soil bulk density (g/cm^3)	1.5	Dry soil bulk density (g/cm^3)	1.5			
Soil particle density (g/cm^3)	2.65	Soil particle density (g/cm^3)	2.65			
Water-filled soil porosity (L_{water}/L_{soil})	0.15	Water-filled soil porosity (L_{water}/L_{soil})	0.15			
Exposure interval (s)	9.5e08					

Soil Screening Levels for Inhalation of Volatiles (mg/kg)

Analyte	Cas Number	Inhalation RfC	Inhalation Unit Risk	Volatilization Factor	Soil Saturation Concentration	Noncarcinogenic	Carcino
Chloroform	67663		2.3E-05 a	1.4E+03	2.9E+03		1.5E

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SELECTION:

Your **Analytes** are:
Chloroform

Your **Pathways** are
Inhalation of Volatiles

Default Parameters
Each pathway you have selected is given below along with the applicable Equations and its associated Default Parameters. equation, the default values will be used unless you enter a different value.

Inhalation of Volatiles

There are two methods for calculating volatilization factor depending on which parameters are known. Select a surface area, a zone, and a method calculation.

Volatilization Factor - METHOD 1

$$VF\,(m^3/kg) = \frac{Q/C \times (3.14 \times D_A \times T)^{1/2} \times 10^{-4}\,(m^2/cm^2)}{2 \times \rho_b \times D_A}$$

where $$D_A = \frac{\left[\left(\theta_a^{10/3} D_i H' + \theta_w^{10/3} D_w\right)/n^2\right]}{\rho_b K_d + \theta_w + \theta_a H'}$$

0.006	foc (fraction organic carbon in soil) g/g
1.5	ρ_b (dry soil bulk density) g/cm^3
2.65	ρ_s (soil particle density) g/cm^3
9.5e08	T (exposure interval) s
0.15	θ_w (water-filled soil porosity) L_{water}/L_{soil}

Volatilization Factor - METHOD 2 (mass-limit approach)

$$VF = Q/C \times \frac{\left[T \times \left(3.15 \times 10^7\,(s/yr)\right)\right]}{\left[\rho_b \times d_s \times 10^6\,(g/Mg)\right]}$$

1.5	ρ_b (dry soil bulk density) kg/L or M
30	T (exposure interval) yr
0	d_s (depth of source) m - site-specific

Do not use this method unless you have values for all of the parameters.

Los Angeles (III)		City (Climatic Zone)
0.5		Surface Area (acres)
68.81		Q/C (inverse of the mean conc. at the center of a 0.5-acre-square source) g/m^2-s per kg/m^3

Method for Calculating VF
Method 1 (●) Method 2 ( )

NOTES:

1. VF (volatilization factor) m^3/kg
2. The Surface Area and City/Climate Zone are used to look up a Q/C. Q/C is the inverse of mean concentration at center acre-square source (g/m^2-s per kg/m^3). Pick the city with the most similar climatic conditions (map).
3. D_A (apparent diffusivity) cm^2/s

4. θ_a (air-filled soil porosity) $L_{air}/L_{soil} = n - \theta_w$
5. D_i (diffusivity in air) cm^2/s - chemical-specific
6. H' (dimensionless Henry's law constant) - chemical-specific
7. n (total soil porosity) $L_{pore}/L_{soil} = 1-(\rho_b/\rho_s)$
8. D_w (diffusivity in water) - chemical-specific
9. K_d (soil-water partition coefficient) $cm^3/g = K_{oc} \times f_{oc}$ (organics) - chemical-specific
10. K_{oc} (soil organic carbon partition coefficient) cm^3/g - chemical specific

Inhalation of Noncarcinogenic Volatiles in Soil

$$SL(mg/kg) = \frac{THQ \times AT \times 365(d/yr)}{EF \times ED \times \left[\frac{1}{RfC} \times \frac{1}{VF}\right]}$$

1	THQ (target hazard quotient) unitless
30	AT (averaging time) yr
350	EF (exposure frequency) d/yr
30	ED (exposure duration) yr

NOTES:

1. AT=ED for Noncarcinogens
2. RfC (inhalation reference concentration) mg/m^3 - chemical-specific
3. VF (volatilization factor) m^3/kg

Inhalation of Carcinogenic Volatiles in Soil

$$SL(mg/kg) = \frac{TR \times AT \times 365(d/yr)}{URF \times 1{,}000(ug/mg) \times EF \times ED \times \frac{1}{VF}}$$

1.0E-6	TR (target risk) unitless
70	AT (averaging time) yr
350	EF (exposure frequency) d/yr
30	ED (exposure duration) yr

NOTES:

1. URF (inhalation unit risk factor) $(ug/m^3)^{-1}$ - chemical-specific
2. VF (volatilization factor) m^3/kg

Inhalation of Volatiles - Soil Saturation Concentration

Only applies to chemicals which are liquid at ambient air temperatures.

$$C_{sat} = \frac{S}{\rho_b}(K_d\rho_b + \theta_w + H'\theta_a)$$

0.006	foc (fraction organic carbon in soil) g/g
1.5	ρ_b (dry soil bulk density) kg/L
2.65	ρ_s (soil particle density) kg/L
0.15	θ_w (water-filled soil porosity) L_{water}/L_{soil}

NOTES:

1. C_{sat} (soil saturation concentration) mg/kg
2. S (solubility in water) mg/L-water - chemical-specific
3. θ_a (air-filled soil porosity) $L_{air}/L_{soil} = n - \theta_w$
4. H' (dimensionless Henry's law constant) - chemical-specific
5. n (total soil porosity) $L_{pore}/L_{soil} = 1-(\rho_b/\rho_s)$
6. K_d (soil-water partition coefficient) L/kg = $K_{oc} \times f_{oc}$ (organics) - chemical-specific
7. K_{oc} (soil organic carbon/water partition coefficient) L/kg - chemical specific

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Equation Values for Inhalation of Volatiles

Volatilization Factor Parameter	Value	Soil Saturation Concentration Parameter	Value	Noncarcinogenic Parameter	Value	Carcinogenic Parameter
Surface Area (acres)	30.0			Target Hazard Quotient (unitless)	1	Target Risk (unitless
City (climate zone)	LittleRock(VI)			Exposure Duration (yr)	30	Exposure Duration (
Q/C (g/m^2-s per kg/m^3)	37.64			Exposure Frequency (day/yr)	350	Exposure Frequency (day/yr)
Fraction organic carbon (unitless)	0.006	Fraction organic carbon (unitless)	0.006			Average Lifetime (yr
Dry soil bulk density (g/cm^3)	1.5	Dry soil bulk density (g/cm^3)	1.5			
Soil particle density (g/cm^3)	2.65	Soil particle density (g/cm^3)	2.65			
Water-filled soil porosity (L_{water}/L_{soil})	0.15	Water-filled soil porosity (L_{water}/L_{soil})	0.15			
Exposure interval (s)	9.5e08					

Soil Screening Levels for Inhalation of Volatiles (mg/kg)

Analyte	Cas Number	Inhalation RfC	Inhalation Unit Risk	Volatilization Factor	Soil Saturation Concentration	Noncarcinogenic	Carcin
Dichloroethane, 1,2-	107062		2.6E-05 a	2.1E+03	1.8E+03		2.0

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SELECTION:

Your **Analytes** are:
Dichloroethane, 1,2-

Your **Pathways** are
Inhalation of Volatiles

Default Parameters
Each pathway you have selected is given below along with the applicable Equations and its associated Default Parameters. equation, the default values will be used unless you enter a different value.

Inhalation of Volatiles

There are two methods for calculating volatilization factor depending on which parameters are known. Select a surface area, a zone, and a method calculation.

Volatilization Factor - METHOD 1

$$VF\ (m^3/kg) = \frac{Q/C \times (3.14 \times D_A \times T)^{1/2} \times 10^{-4}\ (m^2/cm^2)}{2 \times \rho_b \times D_A}$$

where $$D_A = \frac{\left[\left(\theta_a^{10/3} D_i H' + \theta_w^{10/3} D_w\right)/n^2\right]}{\rho_b K_d + \theta_w + \theta_a H'}$$

0.006	foc (fraction organic carbon in soil) g/g
1.5	ρ_b (dry soil bulk density) g/cm^3
2.65	ρ_s (soil particle density) g/cm^3
9.5e08	T (exposure interval) s
0.15	θ_w (water-filled soil porosity) L_{water}/L_{soil}

Volatilization Factor - METHOD 2 (mass-limit approach)

$$VF = Q/C \times \frac{\left[T \times (3.15 \times 10^7\ (s/yr))\right]}{\left(\rho_b \times d_s \times 10^6\ (g/Mg)\right)}$$

1.5	ρ_b (dry soil bulk density) kg/L or M
30	T (exposure interval) yr
0	d_s (depth of source) m - site-specific

Do not use this method unless you have values for all of the parameters.

Little Rock (VI) — City (Climatic Zone)

30.0 — Surface Area (acres)

37.64 — Q/C (inverse of the mean conc. at the center of a 0.5-acre-square source) g/m^2-s per kg/m^3

Method for Calculating VF
Method 1 (●) Method 2 ( )

NOTES:

1. VF (volatilization factor) m^3/kg
2. The Surface Area and City/Climate Zone are used to look up a Q/C. Q/C is the inverse of mean concentration at center acre-square source (g/m^2-s per kg/m^3). Pick the city with the most similar climatic conditions (map).
3. D_A (apparent diffusivity) cm^2/s

4. θ_a (air-filled soil porosity) $L_{air}/L_{soil} = n - \theta_w$
5. D_i (diffusivity in air) cm^2/s - chemical-specific
6. H' (dimensionless Henry's law constant) - chemical-specific
7. n (total soil porosity) $L_{pore}/L_{soil} = 1-(\rho_b/\rho_s)$
8. D_w (diffusivity in water) - chemical-specific
9. K_d (soil-water partition coefficient) $cm^3/g = K_{oc} \times f_{oc}$ (organics) - chemical-specific
10. K_{oc} (soil organic carbon partition coefficient) cm^3/g - chemical specific

Inhalation of Noncarcinogenic Volatiles in Soil

$$SL(mg/kg) = \frac{THQ \times AT \times 365(d/yr)}{EF \times ED \times \left[\frac{1}{RfC} \times \frac{1}{VF}\right]}$$

1	THQ (target hazard quotient) unitless
30	AT (averaging time) yr
350	EF (exposure frequency) d/yr
30	ED (exposure duration) yr

NOTES:

1. AT=ED for Noncarcinogens.
2. RfC (inhalation reference concentration) mg/m^3 - chemical-specific
3. VF (volatilization factor) m^3/kg

Inhalation of Carcinogenic Volatiles in Soil

$$SL(mg/kg) = \frac{TR \times AT \times 365(d/yr)}{URF \times 1{,}000(ug/mg) \times EF \times ED \times \frac{1}{VF}}$$

1.0E-6	TR (target risk) unitless
70	AT (averaging time) yr
350	EF (exposure frequency) d/yr
30	ED (exposure duration) yr

NOTES:

1. URF (inhalation unit risk factor) $(ug/m^3)^{-1}$ - chemical-specific
2. VF (volatilization factor) m^3/kg

Inhalation of Volatiles - Soil Saturation Concentration

Only applies to chemicals which are liquid at ambient air temperatures.

$$C_{sat} = \frac{S}{\rho_b}(K_d\rho_b + \theta_w + H'\theta_a)$$

0.006	foc (fraction organic carbon in soil) g/g
1.5	ρ_b (dry soil bulk density) kg/L
2.65	ρ_s (soil particle density) kg/L
0.15	θ_w (water-filled soil porosity) L_{water}/L_{soil}

NOTES:

1. C_{sat} (soil saturation concentration) mg/kg
2. S (solubility in water) mg/L-water - chemical-specific
3. θ_a (air-filled soil porosity) $L_{air}/L_{soil} = n - \theta_w$
4. H' (dimensionless Henry's law constant) - chemical-specific
5. n (total soil porosity) $L_{pore}/L_{soil} = 1-(\rho_b/\rho_s)$
6. K_d (soil-water partition coefficient) L/kg = $K_{oc} \times f_{oc}$ (organics) - chemical-specific
7. K_{oc} (soil organic carbon/water partition coefficient) L/kg - chemical specific

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Equation Values for Inhalation of Volatiles

Volatilization Factor Parameter	Value	Soil Saturation Concentration Parameter	Value	Noncarcinogenic Parameter	Value	Carcinogenic Parameter
Surface Area (acres)	30.0			Target Hazard Quotient (unitless)	1	Target Risk (unitless
City (climate zone)	LittleRock(VI)			Exposure Duration (yr)	30	Exposure Duration (
Q/C (g/m^2-s per kg/m^3)	37.64			Exposure Frequency (day/yr)	350	Exposure Frequency (day/yr)
Fraction organic carbon (unitless)	0.006	Fraction organic carbon (unitless)	0.006			Average Lifetime (yr
Dry soil bulk density (g/cm^3)	1.5	Dry soil bulk density (g/cm^3)	1.5			
Soil particle density (g/cm^3)	2.65	Soil particle density (g/cm^3)	2.65			
Water-filled soil porosity (L_{water}/L_{soil})	0.15	Water-filled soil porosity (L_{water}/L_{soil})	0.15			
Exposure interval (s)	9.5e08					

Soil Screening Levels for Inhalation of Volatiles (mg/kg)

Analyte	Cas Number	Inhalation RfC	Inhalation Unit Risk	Volatilization Factor	Soil Saturation Concentration	Noncarcinogenic	Carcin
Methylene Chloride	75092	3.0E+00 b	4.7E-07 a	1.3E+03	2.4E+03	4.2E+03	7.0

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SELECTION:

Your **Analytes** are:
Methylene Chloride

Your **Pathways** are
Inhalation of Volatiles

Default Parameters
Each pathway you have selected is given below along with the applicable Equations and its associated Default Parameters. equation, the default values will be used unless you enter a different value.

Inhalation of Volatiles

There are two methods for calculating volatilization factor depending on which parameters are known. Select a surface area, a zone, and a method calculation.

Volatilization Factor - METHOD 1

$$VF\,(m^3/kg) = \frac{Q/C \times (3.14 \times D_A \times T)^{1/2} \times 10^{-4}\,(m^2/cm^2)}{2 \times \rho_b \times D_A}$$

where $$D_A = \frac{\left[\left(\theta_a^{10/3} D_i H' + \theta_w^{10/3} D_w\right)/n^2\right]}{\rho_b K_d + \theta_w + \theta_a H'}$$

0.006	foc (fraction organic carbon in soil) g/g
1.5	ρ_b (dry soil bulk density) g/cm^3
2.65	ρ_s (soil particle density) g/cm^3
9.5e08	T (exposure interval) s
0.15	θ_w (water-filled soil porosity) L_{water}/L_{soil}

Volatilization Factor - METHOD 2 (mass-limit approach)

$$VF = Q/C \times \frac{\left[T \times (3.15 \times 10^7\,(s/yr))\right]}{\left[\rho_b \times d_s \times 10^6\,(g/Mg)\right]}$$

1.5	ρ_b (dry soil bulk density) kg/L or M
30	T (exposure interval) yr
0	d_s (depth of source) m - site-specific

Do not use this method unless you have values for all of the parameters.

Little Rock (VI) — City (Climatic Zone)

30.0 — Surface Area (acres)

37.64 — Q/C (inverse of the mean conc. at the center of a 0.5-acre-square source) g/m^2-s per kg/m^3

Method for Calculating VF
Method 1 (●) Method 2 ( )

NOTES:

1. VF (volatilization factor) m^3/kg
2. The Surface Area and City/Climate Zone are used to look up a Q/C. Q/C is the inverse of mean concentration at center acre-square source (g/m^2-s per kg/m^3). Pick the city with the most similar climatic conditions (map).
3. D_A (apparent diffusivity) cm^2/s

4. θ_a (air-filled soil porosity) $L_{air}/L_{soil} = n - \theta_w$
5. D_i (diffusivity in air) cm^2/s - chemical-specific
6. H' (dimensionless Henry's law constant) - chemical-specific
7. n (total soil porosity) $L_{pore}/L_{soil} = 1-(\rho_b/\rho_s)$
8. D_w (diffusivity in water) - chemical-specific
9. K_d (soil-water partition coefficient) $cm^3/g = K_{oc} \times f_{oc}$ (organics) - chemical-specific
10. K_{oc} (soil organic carbon partition coefficient) cm^3/g - chemical specific

Inhalation of Noncarcinogenic Volatiles in Soil

$$SL(mg/kg) = \frac{THQ \times AT \times 365(d/yr)}{EF \times ED \times \left[\frac{1}{RfC} \times \frac{1}{VF}\right]}$$

1	THQ (target hazard quotient) unitless
30	AT (averaging time) yr
350	EF (exposure frequency) d/yr
30	ED (exposure duration) yr

NOTES:

1. AT=ED for Noncarcinogens.
2. RfC (inhalation reference concentration) mg/m^3 - chemical-specific
3. VF (volatilization factor) m^3/kg

Inhalation of Carcinogenic Volatiles in Soil

$$SL(mg/kg) = \frac{TR \times AT \times 365(d/yr)}{URF \times 1{,}000(ug/mg) \times EF \times ED \times \frac{1}{VF}}$$

1.0E-6	TR (target risk) unitless
70	AT (averaging time) yr
350	EF (exposure frequency) d/yr
30	ED (exposure duration) yr

NOTES:

1. URF (inhalation unit risk factor) $(ug/m^3)^{-1}$ - chemical-specific
2. VF (volatilization factor) m^3/kg

Inhalation of Volatiles - Soil Saturation Concentration

Only applies to chemicals which are liquid at ambient air temperatures.

$$C_{sat} = \frac{S}{\rho_b}(K_d\rho_b + \theta_w + H'\theta_a)$$

0.006	foc (fraction organic carbon in soil) g/g
1.5	ρ_b (dry soil bulk density) kg/L
2.65	ρ_s (soil particle density) kg/L
0.15	θ_w (water-filled soil porosity) L_{water}/L_{soil}

NOTES:

1. C_{sat} (soil saturation concentration) mg/kg
2. S (solubility in water) mg/L-water - chemical-specific
3. θ_a (air-filled soil porosity) $L_{air}/L_{soil} = n - \theta_w$
4. H' (dimensionless Henry's law constant) - chemical-specific
5. n (total soil porosity) $L_{pore}/L_{soil} = 1-(\rho_b/\rho_s)$
6. K_d (soil-water partition coefficient) L/kg = $K_{oc} \times f_{oc}$ (organics) - chemical-specific
7. K_{oc} (soil organic carbon/water partition coefficient) L/kg - chemical specific

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Toxicity References

a Source: Integrated Risk Information System (IRIS)

b Source: Health Effects and Environmental Affects Summary Table (HEAST)

c These subchronic and chronic non-cancer toxicity values are found in Agency documents, but were calculated by alternative methods that are not currently practiced by the RfD/RfC Work Group. These values are considered to be adequate provisional values for risk assessment purposes at Superfund and RCRA sites, but are subject to be reviewed by the RfD/RfC Work Group and revised when necessary to reflect current work group practices.

d Lead Alkyls - See IRIS cover sheet for further explanation

e Contact the Superfund Health Risk Technical Support Center: (513)569-7300

f HEAST concluded that toxicity data were inadequate for calculation of oral RfDs for copper and substituted the current drinking water standard (MCLG) of 1.3 mg/L.

g Listed as "Dinitrotoluene mixture, 2,4-/2,6-" in IRIS. The value is based on a study using technical grade DNT.

h Value expressed as fibers/mL.

i (pg/m3)-1

j The oral toxicity values for "Cadmium (Diet)" are to be used for soil and food uses while the oral toxicity values for "Cadmium (Water)" are to be used for water uses only.

k This chemical is a criteria pollutant regulated by National Ambient Air Quality Standards under the Clean Air Act. The NAAQS are not included in the table because they represent different levels of review and different methods of calculation and must be interpreted and used differently. A list of NAAQS is appended to the table.

m IRIS no longer separates manganese values for chronic oral RfDs into water and diet RfDs. The chronic oral RfD for the total oral intake of manganese is 1.40E-01. However, when assessing exposure to manganese from drinking water or soil, IRIS recommends using a modifying factor of 3, thereby lowering the RfD to 4.67E-02, which has been rounded to 4.6E-02. Rounding to 4.7E-02 is more accurate, but makes the value less conservative. HEAST values remain separated into water and diet subchronic RfDs.

n The cancer potency of PCB mixtures is determined using a three tiered approach that depends on the information available. Criteria for use of the High Risk and Persistence Tier include: food chain exposure; sediment or soil ingestion; dust or aerosol inhalation; dermal exposure if an absorption factor has been applied; any early-life exposure; and the presence of dioxin-like, tumor-promoting, or persistent congeners. This value, 2.00e+00 per (mg/kg)/day, is the upper-bound slope factor for the High Risk and Persistence Tier. The central-estimate slope factor for this tier is 1.00+00 per (mg/kg)/day.

o Criteria for use of the Low Risk and Persistence Tier includes: ingestion of water-soluble congeners; inhalation of evaporated congeners; and dermal exposure if no absorption factor has been applied. The value of 4.00E-01 per (mg/kg/day) is the upper-bound Oral Slope Factor for the Low Risk and Persistence Tier. The central-estimate Oral Slope Factor for the Low Risk and Persistence Tier is 3.00E-01 per (mg/kg/day). For ingestion of water-soluble congeners, the middle tier upper-bound slope factor can be converted to a unit risk of 1.00E-05 per (ug/L/day).

p This value is the upper-bound Oral Slope Factor for the Lowest Risk and Persistence Tier. Criteria for use of this tier include situations in which congener or isomer analyses verify that congeners with more than 4 chlorines comprise less than 0.5% of the total PCBs. The central-estimate Oral Slope Factor for the Lowest Risk and Persistence Tier is 4.00E-02 per (mg/kg/day).

q For inhalation of evaporated congeners, the middle tier (Low Risk and Persistence Tier) slope factor can be converted to a unit risk estimate. The value 4.00E-01 per (mg/kg/day) is the upper-bound Inhalation Slope Factor for the Low Risk and Persistence Tier. The value 1.00E-04 per (ug/m3/day) is the upper-bound Inhalation Unit Risk. For inhalation of an aerosol or dust contaminated with PCBs, the slope factor for the High Risk and persistence Tier should be used.

s The chemical name "Mercury (inorganic)" was replaced with the name "Mercury (elemental)" in 9/95. Note: because "Mercuric Chloride" was used in the studies from which the toxicity values for "Mercury (inorganic)" were derived and because "Mercuric Chloride" is a specific inorganic form/compound of "Mercury (inorganic)", the oral RfD values have been assigned to "Mercuric Chloride".

t This entry was formerly listed as Nickel (metallic) with the CAS number 7440-02-0. The chemical name was changed so that it more accurately indicates the chemicals used in the studies from which the values were derived. The values remain unchanged.

v Provisional toxicity values have been developed by the National Center for Environmental Assessment (NCEA). These values should be clearly marked as provisional. For questions, contact the Superfund Health Risk Technical Support Center directly at (513)569-7300.

y The value of 34 mg/L is a concentration in drinking water given to both chronic and subchronic RfDs. Specifically related to organoleptic threshold. Safe concentration may be higher, but data are inadequate to assess.

z The value of 400 mg/kg is a guideline value given to the chronic RfD. Specifically related to organoleptic threshold. Safe concentration may be higher, but data are inadequate to assess.

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E

Appendix E

Central Tendency Intake Factor Calculations

TABLE E1
INGESTION-SPECIFIC INTAKE FACTOR
CENTRAL TENDENCY EXPOSURE
CONSTRUCTION WORKER EXPOSURE: INGESTION OF CHEMICALS IN SOIL AND DUST
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF oral kg/kg-day	= ((	IR mg/day	)x(	EF days/yr	)x(	ED yr	)x(	FI Unitless	)x(	CF kg/mg	) ÷ ((	BW kg	)x(	AT days	)))
NONCARCINOGENIC	3.91E-08	= ((	50	)x(	20	)x(	1	)x(	1	)x(	1.00E-06	) ÷ ((	70	)x(	365	)))
CARCINOGENIC	5.59E-10	= ((	50	)x(	20	)x(	1	)x(	1	)x(	1.00E-06	) ÷ ((	70	)x(	25,550	)))

See Table 34 for definitions and sources of equation variables identified as follows:

IF = intake factor
IR = ingestion rate
AT = averaging time
EF = exposure frequency
BW = body weight
ED = exposure duration
FI = fraction ingested
CF = conversion factor

TABLE E2
INHALATION-SPECIFIC INTAKE FACTOR
CENTRAL TENDENCY EXPOSURE
CONSTRUCTION WORKER EXPOSURE: INHALATION OF AIRBORNE CHEMICALS FROM SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IFinh kg/kg-day	= ((	IR m^3/day	)x(	EF days/yr	)x(	ED yr	)x(1 /	PEF m^3/kg	+ 1 /	VF m^3/kg	)) + ((	BW kg	)x(	AT days	)))
NONCARCINOGENIC EFFECTS																
Metals	9.01E-12	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Aldrin	9.01E-12	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Dieldrin	9.01E-12	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Methoxychlor	9.01E-12	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Heptachlor	9.01E-12	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Dinoseb	9.01E-12	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Toxaphene	9.01E-12	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
3,4-Dichloroaniline	9.01E-12	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
Propanil	9.01E-12	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	365	)))
1,2-Dichloroethane	5.67E-06	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	2.10E+03	)) + ((	70	)x(	365	)))
Carbon tetrachloride	1.08E-05	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	1.10E+03	)) + ((	70	)x(	365	)))
Chloroform	8.50E-06	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	1.40E+03	)) + ((	70	)x(	365	)))
Methylene chloride	9.15E-06	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	1.30E+03	)) + ((	70	)x(	365	)))
CARCINOGENIC EFFECTS																
Metals	1.29E-13	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Aldrin	1.29E-13	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Dieldrin	1.29E-13	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Methoxychlor	1.29E-13	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Heptachlor	1.29E-13	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Dinoseb	1.29E-13	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Toxaphene	1.29E-13	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
3,4-Dichloroaniline	1.29E-13	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Propanil	1.29E-13	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
1,2-Dichloroethane	8.09E-06	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	2.10E+03	)) + ((	70	)x(	25,550	)))
Carbon tetrachloride	1.55E-07	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	1.10E+03	)) + ((	70	)x(	25,550	)))
Chloroform	1.21E-07	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	1.40E+03	)) + ((	70	)x(	25,550	)))
Methylene chloride	1.31E-07	= ((	15.2	)x(	20	)x(	1	)x(1 /	1.32E+09	+ 1 /	1.30E+03	)) + ((	70	)x(	25,550	)))

See Table 34 for definitions and sources of equation variables identified as follows:

IF = Intake factor
IR = Inhalation Rate
EF = Exposure frequency
ED = Exposure duration
PEF = Particulate emission factor
VF = Volatilization factor
BW = Body weight
AT = Averaging time

TABLE E3
DERMAL-SPECIFIC INTAKE FACTOR
CENTRAL TENDENCY EXPOSURE
CONSTRUCTION WORKER EXPOSURE: DERMAL CONTACT WITH CHEMICALS IN SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF derm = ((	SA)x(	AF)x(	ABS)x(	EF)x(	ED)x(	CF) + ((	BW)x(	AT)))
	kg/kg-day	cm2/event	mg/cm2	unitless	events/year	years	kg/mg	kg	days
NONCARCINOGENIC									
Arsenic	3.10E-09 = ((	3.60E+03)x(	0.0367)x(	3.00E-02)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
Other Metals	1.03E-09 = ((	3.60E+03)x(	0.0367)x(	1.00E-02)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
Aldrin	1.03E-08 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
Dieldrin	1.03E-08 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
Methoxychlor	1.03E-08 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
Heptachlor	1.03E-08 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
Dinoseb	1.03E-08 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
Toxaphene	1.03E-08 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
3,4-Dichloroaniline	1.03E-08 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
Propanil	1.03E-08 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
1,2-Dichloroethane	1.03E-08 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
Carbon tetrachloride	1.03E-08 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
Chloroform	1.03E-08 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
Methylene chloride	1.03E-08 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	365)))
CARCINOGENIC									
Arsenic	4.43E-11 = ((	3.60E+03)x(	0.0367)x(	3.00E-02)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))
Other Metals	1.48E-11 = ((	3.60E+03)x(	0.0367)x(	1.00E-02)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))
Aldrin	1.48E-10 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))
Dieldrin	1.48E-10 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))
Methoxychlor	1.48E-10 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))
Heptachlor	1.48E-10 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))
Dinoseb	1.48E-10 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))
Toxaphene	1.48E-10 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))
3,4-Dichloroaniline	1.48E-10 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))
Propanil	1.48E-10 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))
1,2-Dichloroethane	1.48E-10 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))
Carbon tetrachloride	1.48E-10 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))
Chloroform	1.48E-10 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))
Methylene chloride	1.48E-10 = ((	3.60E+03)x(	0.0367)x(	1.00E-01)x(	20)x(	1)x(	1.00E-06) + ((	70)x(	25,550)))

See Table 34 for definitions and sources of equation variables identified as follows:

IF = intake factor
CF = conversion factor
SA = skin surface area available for contact
AF = soil to skin adherence factor
ABS = absorption factor
EF = exposure frequency
ED = exposure duration
BW = body weight
AT = averaging time

TABLE E4
INGESTION-SPECIFIC INTAKE FACTOR
CENTRAL TENDENCY EXPOSURE
CONSTRUCTION WORKER EXPOSURE: INGESTION OF CHEMICALS IN GROUNDWATER

EQUATION	IF oral	= ((	IR	)x(	ET	)x(	EF	)x(	ED	) ÷ ((	BW	)x(	AT	)))
UNITS	L/kg-day		mg/hour		hours/event		days/yr		yr		kg		days	
NONCARCINOGENIC EFFECTS	3.13E-05	= ((	0.01	)x(	4	)x(	20	)x(	1	) ÷ ((	70	)x(	365	)))
CARCINOGENIC EFFECTS	4.47E-07	= ((	0.01	)x(	4	)x(	20	)x(	1	) ÷ ((	70	)x(	25,550	)))

See Table 41 for definitions and sources of equation variables identified as follows:

IF = intake factor
IR = ingestion rate
ET = exposure time
EF = exposure frequency
ED = exposure duration
BW = body weight
AT = averaging time

TABLE E5
DERMAL-SPECIFIC INTAKE FACTOR
CENTRAL TENDENCY EXPOSURE
CONSTRUCTION WORKER EXPOSURE: DERMAL CONTACT WITH CHEMICALS IN GROUNDWATER

EQUATION	IF derm	=	((	CF	)x(	SA	)x(	PC	)x(	ET	)x(	EF	)x(	ED	)	+	((	BW	)x(	AT	)))
UNITS	L/kg-day			L/cm^3		cm^2/event		cm/hr		hours/day		events/year		years				kg		days	
NONCARCINOGENIC EFFECTS																					
Arsenic	1.13E-05	=	((	1.00E-03	)x(	3.6E+03	)x(	1.00E-03	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	365	)))
Chromium	1.13E-05	=	((	1.00E-03	)x(	3.6E+03	)x(	1.00E-03	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	365	)))
4,4'-DDT	4.85E-03	=	((	1.00E-03	)x(	3.6E+03	)x(	4.30E-01	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	365	)))
alpha-BHC	2.14E-04	=	((	1.00E-03	)x(	3.6E+03	)x(	1.90E-02	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	365	)))
4-Chloroaniline	3.49E-04	=	((	1.00E-03	)x(	3.6E+03	)x(	3.10E-02	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	365	)))
Dinoseb	3.16E-04	=	((	1.00E-03	)x(	3.6E+03	)x(	2.80E-02	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	365	)))
1,2-Dichloroethane	5.97E-05	=	((	1.00E-03	)x(	3.6E+03	)x(	5.30E-03	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	365	)))
Chloroform	1.00E-04	=	((	1.00E-03	)x(	3.6E+03	)x(	8.90E-03	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	365	)))
Methylene chloride	5.07E-05	=	((	1.00E-03	)x(	3.6E+03	)x(	4.50E-03	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	365	)))
Vinyl chloride	8.23E-05	=	((	1.00E-03	)x(	3.6E+03	)x(	7.30E-03	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	365	)))
CARCINOGENIC EFFECTS																					
Arsenic	1.61E-07	=	((	1.00E-03	)x(	3.6E+03	)x(	1.00E-03	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	25,550	)))
Chromium	1.61E-07	=	((	1.00E-03	)x(	3.6E+03	)x(	1.00E-03	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	25,550	)))
4,4'-DDT	6.92E-05	=	((	1.00E-03	)x(	3.6E+03	)x(	4.30E-01	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	25,550	)))
alpha-BHC	3.06E-06	=	((	1.00E-03	)x(	3.6E+03	)x(	1.90E-02	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	25,550	)))
4-Chloroaniline	4.99E-06	=	((	1.00E-03	)x(	3.6E+03	)x(	3.10E-02	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	25,550	)))
Dinoseb	4.51E-06	=	((	1.00E-03	)x(	3.6E+03	)x(	2.80E-02	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	25,550	)))
1,2-Dichloroethane	8.53E-07	=	((	1.00E-03	)x(	3.6E+03	)x(	5.30E-03	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	25,550	)))
Chloroform	1.43E-06	=	((	1.00E-03	)x(	3.6E+03	)x(	8.90E-03	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	25,550	)))
Methylene chloride	7.25E-07	=	((	1.00E-03	)x(	3.6E+03	)x(	4.50E-03	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	25,550	)))
Vinyl chloride	1.18E-06	=	((	1.00E-03	)x(	3.6E+03	)x(	7.30E-03	)x(	4	)x(	20	)x(	1	)	+	((	70	)x(	25,550	)))

See Table 41 for definitions and sources of equation variables identified as follows:

IF = intake factor (kg/kg-day)
CF = conversion factor (kg sediment/kg sediment)
SA = skin surface area available for contact (cm2/day)
PC = permeability constant (cm/hr)
EF = exposure frequency (days/year)
ED = exposure duration (years)
BW = body weight (kg)
AT = averaging time (days)

TABLE E6
INGESTION-SPECIFIC INTAKE FACTOR
CENTRAL TENDENCY EXPOSURE
SITE WORKER EXPOSURE: INGESTION OF CHEMICALS IN SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF oral kg/kg-day	=	((	IR mg/day	)x(	EF days/yr	)x(	ED yr	)x(	FI unitless	)x(	CF kg/mg	) ÷ ((	BW kg	)x(	AT days	)))
NONCARCINOGENIC	4.89E-08	=	((	50	)x(	250	)x(	6.6	)x(	0.1	)x(	1.00E-06	) ÷ ((	70	)x(	2,409	)))
CARCINOGENIC	4.61E-09	=	((	50	)x(	250	)x(	6.6	)x(	0.1	)x(	1.00E-06	) ÷ ((	70	)x(	25,550	)))

See Table 44 for definitions and sources of equation variables identified as follows:

IF = intake factor (kg/kg soil-day)
AT = averaging time (days)
BW = body weight (kg)
FI = fraction ingested (unitless)
IR = ingestion rate (mg/day)
EF = exposure frequency (days/year)
ED = exposure duration (years)
CF = conversion factor (kg/mg)

TABLE E7
DERMAL-SPECIFIC INTAKE FACTOR
CENTRAL TENDENCY EXPOSURE
SITE WORKER EXPOSURE: DERMAL CONTACT WITH CHEMICALS IN SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF derm = ((	SA)x(	AF)x(	ABS)x(	EF)x(	ED)x(	CF) + ((	BW)x(	AT)))
	kg/kg-day	cm2/event	mg/cm2	unitless	events/year	years	kg/mg	kg	days
NONCARCINOGENIC									
Arsenic	3.88E-08 = ((	3600)x(	0.0367)x(	3.00E-02)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	2,409)))
Aldrin	1.29E-07 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	2,409)))
Dieldrin	1.29E-07 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	2,409)))
Heptachlor	1.29E-07 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	2,409)))
Methoxychlor	1.29E-07 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	2,409)))
3,4-Dichloroaniline	1.29E-07 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	2,409)))
Dinoseb	1.29E-07 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	2,409)))
Propanil	1.29E-07 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	2,409)))
Toxaphene	1.29E-07 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	2,409)))
1,2-Dichloroethane	1.29E-07 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	2,409)))
CARCINOGENIC									
Arsenic	3.66E-09 = ((	3600)x(	0.0367)x(	3.00E-02)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	25,550)))
Aldrin	1.22E-08 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	25,550)))
Dieldrin	1.22E-08 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	25,550)))
Heptachlor	1.22E-08 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	25,550)))
Methoxychlor	1.22E-08 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	25,550)))
3,4-Dichloroaniline	1.22E-08 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	25,550)))
Dinoseb	1.22E-08 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	25,550)))
Propanil	1.22E-08 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	25,550)))
Toxaphene	1.22E-08 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	25,550)))
1,2-Dichloroethane	1.22E-08 = ((	3600)x(	0.0367)x(	1.00E-01)x(	250)x(	6.6)x(	1E-06) + ((	70)x(	25,550)))

See Table 44 for definitions and sources of equation variables identified as follows:

IF = intake factor (kg/kg-day)
CF = conversion factor (kg soil/kg soil)
SA = skin surface area available for contact (cm2/day)
AF = soil to skin adherence factor (mg/cm2)
ABS = absorption factor (unitless)
EF = exposure frequency (days/year)
ED = exposure duration (years)
BW = body weight (kg)
AT = averaging time (days)

TABLE E8
INHALATION-SPECIFIC INTAKE FACTOR
CENTRAL TENDENCY EXPOSURE
SITE WORKER EXPOSURE: INHALATION OF AIRBORNE CHEMICALS FROM SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IFinh kg/kg-day	=	((	IR m3/day	)x(	EF days/yr	)x(	ED yr	)x(	1	/	PEF m3/kg	+	1	/	VF m3/kg	))	+	((	BW kg	)x(	AT days	)))
NONCARCINOGENIC EFFECTS																							
Arsenic	8.38E-11	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	2,409	)))
Aldrin	8.38E-11	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	2,409	)))
Dieldrin	8.38E-11	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	2,409	)))
Heptachlor	8.38E-11	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	2,409	)))
Methoxychlor	8.38E-11	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	2,409	)))
3,4-Dichloroaniline	8.38E-11	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	2,409	)))
Dinoseb	8.38E-11	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	2,409	)))
Propanil	8.38E-11	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	2,409	)))
Toxaphene	8.38E-11	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	2,409	)))
1,2-Dichloroethane	5.27E-05	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	2.10E+03	))	+	((	70	)x(	2,409	)))
CARCINOGENIC EFFECTS																							
Arsenic	7.90E-12	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Aldrin	7.90E-12	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Dieldrin	7.90E-12	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Heptachlor	7.90E-12	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Methoxychlor	7.90E-12	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
3,4-Dichloroaniline	7.90E-12	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Dinoseb	7.90E-12	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Propanil	7.90E-12	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Toxaphene	7.90E-12	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
1,2-Dichloroethane	4.96E-06	=	((	11.3	)x(	250	)x(	6.6	)x(	1	/	1.32E+09	+	1	/	2.10E+03	))	+	((	70	)x(	25,550	)))

See Table 44 for definitions and sources of equation variables identified as follows:
IF = Intake factor
IR = Inhalation Rate
EF = Exposure frequency
ED = Exposure duration
ET = Exposure time

TABLE E9
INGESTION-SPECIFIC INTAKE FACTOR
CENTRAL TENDENCY EXPOSURE
TRESPASSER EXPOSURE: INGESTION OF CHEMICALS IN SOIL AND DUST
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF oral kg/kg-day	= ((	IR mg/day	)x(	EF days/yr	)x(	ED yr	)x(	FI Unitless	)x(	CF kg/mg	) ÷ ((	BW kg	)x(	AT days	)))
NONCARCINOGENIC	7.91E-09	= ((	50	)x(	26	)x(	10	)x(	0.1	)x(	1.00E-06	) ÷ ((	45	)x(	3,650	)))
CARCINOGENIC	1.13E-09	= ((	50	)x(	26	)x(	10	)x(	0.1	)x(	1.00E-06	) ÷ ((	45	)x(	25,550	)))

See Table 48 for definitions and sources of equation variables identified as follows:

IF = intake factor
AT = averaging time
BW = body weight
FI = fraction ingested
IR = ingestion rate
EF = exposure frequency
ED = exposure duration
CF = conversion factor

TABLE E10
DERMAL-SPECIFIC INTAKE FACTOR
CENTRAL TENDENCY EXPOSURE
TRESPASSER EXPOSURE: DERMAL CONTACT WITH CHEMICALS IN SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF derm = ((	SA)x(	AF)x(	ABS)x(	EF)x(	ED)x(	CF) + ((	BW)x(	AT)))
	kg/kg-day	cm2/event	mg/cm2	unitless	events/year	years	kg/mg	kg	days
NONCARCINOGENIC									
Arsenic	7.15E-09	4,100	0.0367	3.00E-02	26	10	1.00E-06	45	3,650
Aldrin	2.38E-08	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	3,650
Dieldrin	2.38E-08	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	3,650
Heptachlor	2.38E-08	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	3,650
Methoxychlor	2.38E-08	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	3,650
3,4-Dichloroaniline	2.38E-08	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	3,650
Dinoseb	2.38E-08	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	3,650
Propanil	2.38E-08	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	3,650
Toxaphene	2.38E-08	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	3,650
1,2-Dichloroethane	2.38E-08	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	3,650
CARCINOGENIC									
Arsenic	1.02E-09	4,100	0.0367	3.00E-02	26	10	1.00E-06	45	25,550
Aldrin	3.40E-09	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	25,550
Dieldrin	3.40E-09	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	25,550
Heptachlor	3.40E-09	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	25,550
Methoxychlor	3.40E-09	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	25,550
3,4-Dichloroaniline	3.40E-09	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	25,550
Dinoseb	3.40E-09	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	25,550
Propanil	3.40E-09	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	25,550
Toxaphene	3.40E-09	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	25,550
1,2-Dichloroethane	3.40E-09	4,100	0.0367	1.00E-01	26	10	1.00E-06	45	25,550

See Table 48 for definitions and sources of equation variables identified as follows:
IF = intake factor
CF = conversion factor
SA = skin surface area available for contact
AF = soil to skin adherence factor
ABS = absorption factor
EF = exposure frequency
ED = exposure duration
BW = body weight
AT = averaging time

TABLE E11
INHALATION-SPECIFIC INTAKE FACTOR
CENTRAL TENDENCY EXPOSURE
TRESPASSER EXPOSURE: INHALATION OF AIRBORNE CHEMICALS FROM SOIL
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IFinh kg/kg-day	= ((	Inh R m3/day	)x(	EF days/yr	)x(	ED yr	)x(1 /	PEF m3/kg	+ 1 /	VF m3/kg	)) + ((	BW kg	)x(	AT days	)))
NONCARCINOGENIC EFFECTS																
Arsenic	8.71E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	3,650	)))
Aldrin	8.71E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	3,650	)))
Dieldrin	8.71E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	3,650	)))
Heptachlor	8.71E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	3,650	)))
Methoxychlor	8.71E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	3,650	)))
3,4-Dichloroaniline	8.71E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	3,650	)))
Dinoseb	8.71E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	3,650	)))
Propanil	8.71E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	3,650	)))
Toxaphene	8.71E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	3,650	)))
1,2-Dichloroethane	5.48E-06	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	2.10E+03	)) + ((	70	)x(	3,650	)))
CARCINOGENIC EFFECTS																
Arsenic	1.24E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Aldrin	1.24E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Dieldrin	1.24E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Heptachlor	1.24E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Methoxychlor	1.24E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
3,4-Dichloroaniline	1.24E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Dinoseb	1.24E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Propanil	1.24E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
Toxaphene	1.24E-12	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	N/A	)) + ((	70	)x(	25,550	)))
1,2-Dichloroethane	7.82E-07	= ((	11.3	)x(	26	)x(	10	)x(1 /	1.32E+09	+ 1 /	2.10E+03	)) + ((	70	)x(	25,550	)))

See Table 48 for definitions and sources of equation variables identified as follows:
IF = Intake factor
IR = Inhalation Rate
EF = Exposure frequency
ED = Exposure duration
ET = Exposure time
PEF = Particulate Emission Factor
VF = Volatilization Factor

TABLE E12
INHALATION-SPECIFIC INTAKE FACTOR
CENTRAL TENDENCY EXPOSURE
OFFSITE AGRICULTURAL WORKER EXPOSURE: INHALATION OF AIRBORNE (VAPOR PHASE) CHEMICALS FROM GROUNDWATER
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IFinh m^3/kg-day	= ((	IR m^3/day	)x(	EF days/yr	)x(	ED yr	)x(	ET hr/day	)) + ((	BW kg	)x(	AT days	)))
NONCARCINOGENIC EFFECTS	1.64E-03	= ((	0.47	)x(	44.6	)x(	25	)x(	2	)) + ((	70	)x(	9,125	)))
CARCINOGENIC EFFECTS	5.87E-04	= ((	0.47	)x(	44.6	)x(	25	)x(	2	)) + ((	70	)x(	25,550	)))

See Table 55 for definitions and sources of equation variables identified as follows:
IF = Intake factor
IR = Inhalation Rate
EF = Exposure frequency
ED = Exposure duration
ET = Exposure time

TABLE E13
VALUES USED FOR DAILY INTAKE CALCULATIONS
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

Scenario Timeframe: Current/ Future
Medium: Soil
Exposure Medium: Surface Soil
Exposure Point: Sites 4
Receptor Population: Site Worker
Receptor Age: Adult

Exposure Route	Parameter Code	Parameter Definition	Units	RME Value	RME Rationale/ Reference	CT Value[a]	CT Rationale/ Reference	Intake Equation/ Model Name
Ingestion	IR-S	Ingestion Rate of Soil	mg/day	50	USEPA, 1989	-	-	CDI ing = $\frac{[IR][CF][FI][EF][ED]}{(BW)(AT)}$
	EF	Exposure Frequency	days/year	93.75[b]	Conservative assumption	-	-	
	ED	Exposure Duration	years	25	USEPA, 1989	-	-	
	FI	Fraction ingested from contaminated source	unitless	1	Conservative assumption	-	-	
	CF	Conversion Factor	kg/mg	1.00E-06	SI system	-	-	
	BW	Body Weight	kg	70	USEPA, 1989	-	-	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA, 1989	-	-	
	AT-N	Averaging Time (Noncancer)	days	9,125	USEPA, 1989	-	-	
Inhalation	InR-S	Inhalation Rate of Soil	m^3/day	20	USEPA, 1989	-	-	CDI inh = $\frac{[IR][EF][ED][(1/VF)+(1/PEF)]}{(BW)(AT)}$
	EF	Exposure Frequency	days/year	93.75b	Conservative assumption	-	-	
	ED	Exposure Duration	years	25	USEPA, 1989	-	-	
	BW	Body Weight	kg	70	USEPA, 1989	-	-	
	AT-C	Averaging Time (Cancer)	days	25550	USEPA, 1989	-	-	
	AT-N	Averaging Time (Noncancer)	days	9125	USEPA, 1989	-	-	
	PEF	Particulate Emission Factor	m^3/kg	1.32E+09	USEPA, 1996	-	-	
	VF	Volatilization Factor	m^3/kg	Chemical specific	USEPA, 1996	-	-	
Dermal	EF	Exposure Frequency	days/year	93.75b	Conservative assumption	-	-	CDI derm = $\frac{[CF][SA][AF][ABSd][EF][ED]}{(BW)(AT)}$
	ED	Exposure Duration	years	25	USEPA, 1989	-	-	
	CF	Conversion Factor	kg/mg	1.00E-06	SI system	-	-	
	SA	Skin Surface Area Available for Contact	cm^2	4,100	USEPA, 1997	-	-	
	ABSd	Dermal Absorption Factor	unitless	Chemical specific	USEPA, 1998	-	-	
	AF	Soil to Skil Adherence Factor	mg/cm^2/event	1	USEPA, 1995	-	-	
	AT-C	Averaging Time (Cancer)	days	25,550	USEPA, 1989	-	-	
	AT-N	Averaging Time (Noncancer)	days	9,125	USEPA, 1989	-	-	

RME = Reasonable Maximum Exposure
CT = Central Tendency
mg = milligram
kg = kilogram
m^3 = cubic meters
cm^2 = square centimeters

a = The central tendency exposure was not evaluated for this site.
b = This exposure frequency assumes the site worker is present at this site 3 hours per day.

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U.S. EPA. 1998. EPA Region 6 Human Health Medium-Specific Screening Levels. October.
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TABLE E14
INGESTION-SPECIFIC INTAKE FACTOR
SITE WORKER EXPOSURE: INGESTION OF CHEMICALS IN SOIL
SITE 4
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF oral kg/kg-day	=	((	IR mg/day	)x(	EF days/yr	)x(	ED yr	)x(	FI unitless	)x(	CF kg/mg	)	+	((	BW kg	)x(	AT days	)))
NONCARCINOGENIC	1.83E-07	=	((	50	)x(	93.75	)x(	25	)x(	1	)x(	1.00E-06	)	+	((	70	)x(	9,125	)))
CARCINOGENIC	6.55E-08	=	((	50	)x(	93.75	)x(	25	)x(	1	)x(	1.00E-06	)	+	((	70	)x(	25,550	)))

See Table E13 for definitions and sources of equation variables identified as follows:

IF = intake factor
AT = averaging time
BW = body weight
FI = fraction ingested
IR = ingestion rate
EF = exposure frequency
ED = exposure duration
CF = conversion factor

TABLE E15
DERMAL-SPECIFIC INTAKE FACTOR
SITE WORKER EXPOSURE: DERMAL CONTACT WITH CHEMICALS IN SOIL
SITE 4
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IF derm kg/kg-day	= ((	SA cm^2/event	)x(	AF mg/cm^2	)x(	ABS unitless	)x(	EF events/year	)x(	ED years	)x(	CF kg/mg	) + ((	BW kg	)x(	AT days	)))
NONCARCINOGENIC																		
Dieldrin	1.50E-06	= ((	4.10E+03	)x(	1	)x(	1.00E-01	)x(	93.75	)x(	25	)x(	1.00E-06	) + ((	70	)x(	9,125	)))
Dinoseb	1.50E-06	= ((	4.10E+03	)x(	1	)x(	1.00E-01	)x(	93.75	)x(	25	)x(	1.00E-06	) + ((	70	)x(	9,125	)))
CARCINOGENIC																		
Dieldrin	5.37E-07	= ((	4.10E+03	)x(	1	)x(	1.00E-01	)x(	93.75	)x(	25	)x(	1.00E-06	) + ((	70	)x(	25,550	)))
Dinoseb	5.37E-07	= ((	4.10E+03	)x(	1	)x(	1.00E-01	)x(	93.75	)x(	25	)x(	1.00E-06	) + ((	70	)x(	25,550	)))

See Table E13 for definitions and sources of equation variables identified as follows:

IF = intake factor
CF = conversion factor
SA = skin surface area available for contact
AF = soil to skin adherence factor
ABS = absorption factor
EF = exposure frequency
ED = exposure duration
BW = body weight
AT = averaging time

TABLE E16
INHALATION-SPECIFIC INTAKE FACTOR
SITE WORKER EXPOSURE: INHALATION OF AIRBORNE CHEMICALS FROM SOIL
SITE 4
CEDAR CHEMICAL CORPORATION, WEST HELENA, ARKANSAS

EQUATION UNITS	IFinh kg/kg-day	=	((	IR m^3/day	)x(	EF days/yr	)x(	ED yr	)x(	1	/	PEF m^3/kg	+	1	/	VF m^3/kg	))	+	((	BW kg	)x(	AT days	)))
NONCARCINOGENIC EFFECTS																							
Dieldrin	5.56E-11	=	((	20	)x(	93.75	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	9,125	)))
Dinoseb	5.56E-11	=	((	20	)x(	93.75	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	9,125	)))
CARCINOGENIC EFFECTS																							
Dieldrin	1.99E-11	=	((	20	)x(	93.75	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))
Dinoseb	1.99E-11	=	((	20	)x(	93.75	)x(	25	)x(	1	/	1.32E+09	+	1	/	N/A	))	+	((	70	)x(	25,550	)))

See Table E13 for definitions and sources of equation variables identified as follows:

IF = Intake factor
IR = Inhalation Rate
EF = Exposure frequency
ED = Exposure duration
PEF = Particulate emission factor
VF = Volatilization factor
BW = Body weight
AT = Averaging time

Appendix F

Threatened and Endangered Species

2 MAY 1999

ARKANSAS NATURAL HERITAGE COMMISSION
DEPARTMENT OF ARKANSAS HERITAGE
INVENTORY RESEARCH PROGRAM
ELEMENTS OF SPECIAL CONCERN
PHILLIPS COUNTY, ARKANSAS

ELEMENT NAME	FEDERAL STATUS	STATE STATUS	GLOBAL RANK	STATE RANK
** Animals				
* Vertebrates				
ACIPENSER FULVESCENS, LAKE STURGEON	-	INV	G3	S1
AMMODRAMUS SAVANNARUM, GRASSHOPPER SPARROW	-	INV	G5	S3B
ATRACTOSTEUS SPATULA, ALLIGATOR GAR	-	INV	G5	S2?
ELAPHE OBSOLETA SPILOIDES, GRAY RAT SNAKE	-	INV	G5T5	S2?
HALIAEETUS LEUCOCEPHALUS, BALD EAGLE	LT	INV	G4	S2B,S3N
HYLA AVIVOCA, BIRD-VOICED TREEFROG	-	INV	G5	S2?
LIMNOTHLYPIS SWAINSONII, SWAINSON'S WARBLER	-	INV	G4	S3B
NOTURUS FLAVUS, STONECAT	-	INV	G5	S1
SCAPHIRHYNCHUS ALBUS, PALLID STURGEON	LE	INV	G1G2	S1
STERNA ANTILLARUM ATHALASSOS, INTERIOR LEAST TERN	LE	INV	G4T2Q	S2B
** Plants				
* Vascular Plants				
CAREX HITCHCOCKIANA, HITCHCOCK'S SEDGE	-	INV	G5	S1
JUGLANS CINEREA, BUTTERNUT	-	INV	G3G4	S3
[illegible]ARIA VIRGINICA, VIRGINIA PENNYWORT	-	INV	G5	S2
OSMORHIZA CLAYTONII, HAIRY SWEET-CICELY	-	INV	G5	S1S3
SCHISANDRA GLABRA, CLIMBING MAGNOLIA	-	INV	G3	S2S3
ZANNICHELLIA PALUSTRIS, HORNED PONDWEED	-	INV	G5	S2S3
** Natural Communities				
MIXED MESOPHYTIC FOREST	-	INV	-	S4
RIVER FRONT FOREST	-	INV	-	S3

LEGEND

STATUS CODES

FEDERAL STATUS CODES

C = Candidate species. The U.S. Fish and Wildlife Service has enough scientific information to warrant proposing these species for listing as endangered or threatened under the Endangered Species Act.

LE = Listed Endangered; the U.S. Fish and Wildlife Service has listed these species as endangered under the Endangered Species Act.

LT = Listed Threatened; the U.S. Fish and Wildlife Service has listed these species as threatened under the Endangered Species Act.

LELT = Listed Endangered and Threatened; the U.S. Fish and Wildlife Services has listed these species as endangered and threatened in different parts of the breeding range.

PE = Proposed Endangered; the U.S. Fish and Wildlife Service has proposed these species for listing as endangered.

PT = Proposed Threatened; the U.S. Fish and Wildlife Service has proposed these species for listing as threatened.

T/SA
E/SA = Threatened (or Endangered) because of similarity of appearance.

STATE STATUS CODES

INV = Inventory Element; The Arkansas Natural Heritage Commission is currently conducting inventory work on these elements to determine their status in the state. These elements may include outstanding examples of Natural Communities, colonial nesting sites, outstanding scenic and geologic features as well as plants and animals which, according to current information, may be rare, peripheral, or of an undetermined status in the state.

SE = State Endangered; The Arkansas Natural Heritage Commission applies this term to native taxa which are in danger of being extirpated from the state.

ST = State Threatened; The Arkansas Natural Heritage Commission applies this term to native taxa which are believed likely to become endangered in Arkansas in the foreseeable future, based on current inventory information.

DEFINITION OF RANKS

Global Ranks

G1 = Critically imperiled globally because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.

G2 = Imperiled globally because of rarity (6-20 occurrences or few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.

G3 = Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range (e.g., a single western state, a physiographic region in the East) or because of other factors making it vulnerable to extinction throughout its range; in terms of occurrences, in the range of 21 - 100.

G4 = Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.

G5	=	Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.
GH	=	Of historical occurrence throughout its range, i.e., formerly part of the established biota, with the expectation that it may be rediscovered (e.g., Bachman's Warbler).
GU	=	Possibly in peril range-wide but status uncertain; more information needed.
GX	=	Believed to be extinct throughout range (e.g., Passenger Pigeon) with virtually no likelihood that it will be rediscovered.
T-RANKS	=	T subranks are given to global ranks when a subspecies, variety, or race is considered at the state level. The subrank is made up of a "T" plus a number or letter (1, 2, 3, 4, 5, H, U, X) with the same ranking rules as a full species.

State Ranks

S1	=	Extremely rare. Typically 5 or fewer estimated occurrences in the state, or only a few remaining individuals, may be especially vulnerable to extirpation.
S2	=	Very rare. Typically between 5 and 20 estimated occurrences or with many individuals in fewer occurrences, often susceptible to becoming extirpated.
S3	=	Rare to uncommon. Typically between 20 and 100 estimated occurrences, may have fewer occurrences but with large number of individuals in some populations, may be susceptible to large-scale disturbances.
S4	=	Common, apparently secure under present conditions. Typically 100 or more estimated occurrences, but may be fewer with many large populations, may be restricted to only a portion of the state, usually not susceptible to immediate threats.
S5	=	Demonstrably widespread, common, and secure in the state and essentially ineradicable under present conditions.
SA	=	Accidental.
SH	=	Historically known from the state, but not verified for an extended period, usually 15 years.
SU	=	Possibly in peril in the state, but status uncertain, more information is needed.
SX	=	Apparently extirpated from state.
SZ	=	Zero occurrences. Not of practical conservation concern in the state because there are no definable occurrences, although the taxa is native and appears regularly in the state.

General Ranking Notes

Q	=	A "Q" in the global rank indicates the element's taxonomic classification as a species is a matter of conjecture among scientists.
RANGES	=	Ranges are used temporarily until a final rank decision can be made.
?	=	A question mark is used temporarily when there is some indecision regarding the rank assignment or when an element has not been ranked.
B	=	Breeding status
N	=	Non-breeding status

G

Appendix G

Cedar Chemical Corporation Biomonitoring Reports

AMERICAN INTERPLEX CORPORATION

48-Hour Static Renewal Definitive Acute Toxicity Test
Cedar Chemical Corporation 5/99 Outfall 002 AR0036412

May 14, 1999
Control No. 42802

Daphnia pulex

Permitee: Cedar Chemical Corporation NPDES NO. AR003641

Composite Collected From: 5/9/99 0800 To: 5/10/99 0803
From: 5/10/99 0810 To: 5/11/99 0810

Test Initiated: 5/11/99 1705
Dilution water: Moderately Hard

PERCENT SURVIVAL

TIME	REP	Control	0.001%	0.01%	0.1%	1.0%	10%
24 hours	A	100	100	87.5	87.5	100	75.0
	B	100	100	100	87.5	100	75.0
	C	100	100	100	100	100	100
	D	100	100	100	87.5	100	100
	E	87.5	100	87.5	75.0	87.5	87.5
48 hours	A	87.5	100	87.5	87.5	62.5	37.5
	B	100	100	100	87.5	75.0	25.0
	C	100	100	100	75.0	75.0	37.5
	D	87.5	100	75.0	87.5	87.5	50.0
	E	87.5	100	100	75.0	75.0	50.0

1. Dunnett's Procedure or Steel's Many-One Rank Test as appropriate. Is the mean survival at 48 hours significantly different (p=0.05) than the control survival for the % effluent corresponding to:
   a) Low Flow (0.01 %): ____ Yes X No
   b) 1/2 Low Flow (NA): ____ Yes ____ No

2. If you answered No to 1a) enter [0], otherwise enter [1]: 0

3. If you answered No to 1b) enter [0], otherwise enter [1]: NA

4. Enter response to item 2 on the DMR Form, parameter #TEM3D.

5. Enter response to item 3 on the DMR Form, parameter #TFM3D.

6. Enter percent effluent corresponding to the LC-50 below.
   LC-50 = 5.2 % effluent
   Method of LC-50 calculation: Trimmed Spearman-Karber

AMERICAN INTERPLEX CORPORATION
48-Hour Static Renewal Definitive Acute Toxicity Test
Cedar Chemical Corporation 5/99 Outfall 002 AR0036412

May 14, 199
Control-No. 4280

CHEMICAL PARAMETERS CHART
Daphnia pulex

PERMITTEE: Cedar Chemical Corporation

NPDES NO.: AR0036412

CONTACT: Dr. Peter Fields

ANALYST 181, 182, 193, 208, 209, 210, 211

SAMPLE COLLECTED: DATE: 5/9-10/99 TIME: 0803
DATE: 5/10-11/99 TIME: 0810

TEST BEGIN: DATE: 5/11/99 TIME: 1609

TEST END: DATE: 5/13/99 TIME: 1609

PARAMETER	D.O.			TEMPERATURE			ALKALINITY			HARDNESS			pH		
DILUT./Time	0 hrs.	24 hrs.	48 hrs	0 hrs.	24 hrs.	48 hrs.	0 hrs.	24 hrs.	48 hrs.	0 hrs.	24 hrs.	48 hrs.	0 hrs.	24 hrs.	48 hrs
Control	8.2	8.2	7.9	20	20	20	63	64		100	101		8.2	7.9	8.1
0.001%	8.0	8.2	7.9	20	20	20							8.3	7.9	8.1
0.01%	8.1	8.2	7.9	20	20	20	64	64		8.1	8.1		8.3	7.9	8.1
0.1%	8.4	8.2	7.9	20	20	20							8.1	7.9	8.1
1.0%	8.4	8.1	7.6	20	20	20							8.3	8.0	8.3
10%	8.3	8.1	6.0	20	20	20							8.4	8.1	

Aug-10-99 13:25 From-CEDAR CHEMICAL +8705723785 T-882 P.04/10 F-945

AMERICAN INTERPLEX CORPORATION

48-Hour Static Renewal Definitive Acute Toxicity Test
Cedar Chemical Corporation 5/99 Outfall 002 AR0036412

May 14, 1999
Control No. 42802

Pimephales promelas

PERMITTEE: Cedar Chemical Corporation NPDES NO.: AR003641

Composite Collected
From: 5/9/99 0800 To: 5/10/99 0803
From: 5/10/99 0810 To: 5/11/99 0810

Test Initiated: 5/11/99 1705
Dilution water: Moderately Hard

PERCENT SURVIVAL

TIME	REP	Control	0.001%	0.01%	0.1%	1.0%	10%
24 hours	A	100	100	100	87.5	100	62.5
	B	100	100	100	87.5	100	100
	C	100	100	100	100	100	100
	D	100	100	100	87.5	100	100
	E	100	100	100	75.0	100	100
48 hours	A	100	100	100	100	100	62.5
	B	100	100	100	100	100	87.5
	C	100	100	100	87.5	100	100
	D	100	100	75.0	87.5	100	87.5
	E	100	100	100	100	100	87.5

1. Dunnett's Procedure or Steel's Many-One Rank Test as appropriate. Is the mean survival at 48 hours significantly different (p=0.05) than the control survival for the % effluent corresponding to:
   a) Low Flow (0.01 %): ____ Yes X No
   b) 1/2 Low Flow (N/A) ____ Yes ____ No

2. If you answered No to 1a) enter [0], otherwise enter [1]: 0

3. If you answered No to 1b) enter [0], otherwise enter [1]: NA

4. Enter response to item 2 on the DMR Form, parameter #TEM6C.

5. Enter response to item 3 on the DMR Form, parameter #TFM6C.

6. Enter percent effluent corresponding to the LC-50 below.
   LC-50 = >10% effluent
   Method of LC-50 calculation: not applicable

AMERICAN INTERPLEX CORPORATION
48-Hour Static Renewal Definitive Acute Toxicity Test
Cedar Chemical Corporation 5/99 Outfall 002 AR0036412

May 14, 1999
Control No. 4280:

CHEMICAL PARAMETERS CHART
Pimephales promelas

PERMITTEE: Cedar Chemical Corporation

NPDES NO.: AR0036412

CONTACT: Dr. Peter Fields

ANALYST 181, 182, 193, 208, 209, 210, 211

SAMPLE COLLECTED: DATE: 5/9-10/99 TIME: 0800
DATE: 5/10-11/99 TIME: 0810

TEST BEGIN: DATE: 5/11/99 TIME: 1609

TEST END: DATE: 5/13/99 TIME: 1609

PARAMETER	D.O.			TEMPERATURE			ALKALINITY			HARDNESS			pH		
DILUT./Time	0 hrs.	24 hrs.	48 hrs.	0 hrs.	24 hrs.	48 hrs.	0 hrs.	24 hrs.	48 hrs.	0 hrs	24 hrs.	48 hrs.	0 hrs	24 hrs.	48 hrs
Control	8.2	8.2	8.5	25	25	25	63	64		100	101		8.2	7.9	8.2
0.001%	8.0	8.2	8.5	25	25	25							8.3	7.9	8.2
0.01%	8.1	8.2	8.6	25	25	25	8.2	8.2		8.1	8.1		8.3	7.9	8.2
0.1%	8.4	8.2	8.8	25	25	25							8.1	7.9	8.1
1.0%	8.4	8.1	8.7	25	25	25							8.3	8.0	8.2
10%	8.3	8.1	8.6	25	25	25							8.4	8.1	–

Aug-10-99 13:25 From-CEDAR CHEMICAL +8705723795 T-882 P.06/10 F-945

4 RESULTS SUMMARY

PIMEPHALES PROMELAS, Fathead Minnow, 48-Hour Static Non-Renewal Definitive Toxicity Test

Larvae are exposed in a static non-renewal system for 48 hours to different concentrations of effluent and dilution water. Effluent dilutions selected for this test were 0.75%, 1.25%, 2.5%, 5.0%, and 10% effluent. Test results are based on the survival of the larvae.

The test was initiated June 13, 1997, and continued through June 15, 1997. Statistical analyses were performed on the observed data. The sample did exhibit toxicity. Steel's Many-One Rank Test was used to determine the NOEC (No Observable Effects Concentration). The NOEC was 0.75% effluent. The 48-hour LC_{50} was determined to be 1.59% effluent. A summary of the data is outlined in the table below.

SUMMARY OF THE 48-HOUR DEFINITIVE TOXICITY TEST
WITH FATHEAD MINNOWS (*Pimephales promelas*)

Concentration	Percent survival after 24 hours	Percent survival after 48 hours
Control	100	100
0.75%	100	100
1.25%	100	65.0*
2.5%	90.0	15.0*
5.0%	20.0	0.0*
10%	0.0	0.0*

*Significant difference when compared to the control (p=0.05)

5 RESULTS SUMMARY

DAPHNIA PULEX, 48-Hour Static Non-Renewal Definitive Toxicity Test

Daphnia pulex are exposed in a static non-renewal system to different concentrations of effluent and dilution water Effluent dilutions for this test were 0 05%, 0 1%, 0.25%, 0 5%, and 1 0%. Test results are based on survival

The test was initiated June 13, 1997, and continued through June 15, 1997 The sample did exhibit toxicity. Statistical analyses were performed on the observed data Using Steel's Many-One Rank Test, the NOEC was determined to be 0 1% effluent The 48 hour LC_{50} was determined to be 0 35% effluent A summary of the data is outlined in the table below

SUMMARY OF 48-HOUR DEFINITIVE TOXICITY TEST
WITH *DAPHNIA PULEX*

Concentration (% effluent)	Percent Survival at 24 hours	Percent Survival at 48 hours
Control	100	100
0.05%	100	100
0.1%	100	100
0.25%	75.0	70 0*
0.5%	65.0	35 0*
1.0%	70.0	0.0*

* Significant difference compared to the control (p=0 05)

24 Hour Acute Static Range Finding Toxicity Test
Cedar Chemical Corporation 6/97 Control No. 27888

4 RESULTS SUMMARY

PIMEPHALES PROMELAS, Fathead Minnow, 24-Hour Static Range Finding Toxicity Test

Larvae are exposed in a static non-renewal system for 24 hours to different concentrations of effluent and dilution water. Test results are based on the survival of the larvae Effluent dilutions selected for this test were 0.001%, 0 1%, 1 0%, 10%, and 100%

The test was initiated June 12, 1997, and continued through June 13, 1997 Statistical analyses were performed on the observed data The sample did exhibit toxicity Steel's Many-One Rank Test was used to determine the NOEC (No Observable Effects Concentration). The NOEC was 1 0% effluent The 24-hour LC_{50} was 3 16 % effluent A summary of the data is outlined in the table below

SUMMARY OF THE 24-HOUR DEFINITIVE TOXICITY TEST
WITH FATHEAD MINNOWS (*Pimephales promelas*)

Concentration	Percent survival 0 hours	Percent survival after 24 hours
Control 0%	100	100
0.001%	100	100
0.1%	100	100
1.0%	100	100
10%	100	0.0*
100%	100	0.0*

*Significant difference when compared to the control. (p=0 05)

5 RESULTS SUMMARY

DAPHNIA PULEX, 24-Hour Static Range Finding Test

Daphnia pulex are exposed in a static non-renewal system to different concentrations of effluent and dilution water Effluent dilutions for this test were 0 001%, 0 1%, 1 0%, 10%, and 100% Test results are based on survival

The test was initiated June 12, 1997, and continued through June 13, 1997 The sample did not exhibit toxicity Statistical analyses were performed on the observed data Using Steel's Many-One Rank Test, the NOEC was determined to be 0 1% effluent The 24-hour LC_{50} was 0 56% effluent A summary of the data is outlined in the table below

SUMMARY OF 24-HOUR DEFINITIVE TOXICITY TEST
WITH *DAPHNIA PULEX*

Concentration (% effluent)	Percent Survival 0 hours	Percent Survival at 24 hours
Control 0%	100	100
0.001%	100	100
0.1%	100	100
1.0%	100	25 0*
10%	100	0 0*
100%	100	0 0*

* Significant difference compared to the control (p=0 05)