

**Table 2 Backfill Quality Requirements  
 USS Lead Superfund Site, OUI Zone 2  
 East Chicago, Indiana**

Analyte Name	CAS No.	Soil RSL (mg/kg)
<b>PAHs<sup>2</sup> (continued)</b>		
Indeno(1,2,3-CD) pyrene	193-39-5	1.6
Naphthalene	91-20-3	3.8
Pyrene	129-00-0	1,800
<b>PCBs</b>		
PCB-1016 (Arochlor 1016)	12674-11-2	4.1
PCB-1221 (Arochlor 1221)	11104-28-2	0.2
PCB-1232 (Arochlor 1232)	11141-16-5	0.17
PCB-1242 (Arochlor 1242)	53469-21-9	0.23
PCB-1248 (Arochlor 1248)	12672-29-6	0.23
PCB-1254 (Arochlor 1254)	11097-69-1	0.24
PCB-1260 (Arochlor 1260)	11096-82-5	0.24
<b>PESTICIDES</b>		
Aldrin	309-00-2	0.039
alpha-BHC	319-84-6	0.086
beta-BHC	319-85-7	0.3
gamma-BHC	58-89-9	0.57
Chlordane <sup>4</sup>	12789-03-6	1.7
DDD	72-54-8	1.9
p,p'-DDE	72-55-9	2
DDT	50-29-3	1.9
Dieldrin	60-57-1	0.034
Endosulfan	115-29-7	470
Endrin	72-20-8	19
Heptachlor	76-44-8	0.13
Heptachlor epoxide	1024-57-3	0.07
Methoxychlor	72-43-5	320
Toxaphene	8001-35-2	0.49
<b>SVOCs</b>		
1,1'-Biphenyl	92-52-4	47
1,2,4,5-Tetrachlorobenzene	95-94-3	23

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Analyte Name	CAS No.	Soil RSL (mg/kg)
<b>HERBICIDES</b>		
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	630
Silvex (2,4,5-TP)	93-72-1	510
2,4-D	94-75-7	700
2,4-DB	94-82-6	1,900
Dalapon	75-99-0	1,900
Dicamba	1918-00-9	1,900
Dinoseb	88-85-7	63
MCPA	94-74-6	32
MCPP	93-65-2	63
<b>METALS</b>		
Arsenic <sup>1</sup>	7440-38-2	14.1
Barium	7440-39-3	15,000
Cadmium	7440-43-9	71
Chromium, Total <sup>2</sup>	7440-47-3	120,000
Lead <sup>1</sup>	7439-92-1	56.6
Mercury	7439-97-6	11
Selenium	7782-49-2	390
Silver	7440-22-4	390
<b>PAHs<sup>3</sup></b>		
2-Methylnaphthalene	91-57-6	240
Acenaphthene	83-32-9	3,600
Anthracene	120-12-7	18,000
Benzo(a)anthracene	56-55-3	1.8
Benzo(a)pyrene	50-32-8	2.1
Benzo(b)fluoranthene	205-99-2	2.1
Benzo(k)fluoranthene	207-08-9	11
Chrysene	218-01-9	110
Dibenz (a, h) anthracene	53-70-3	0.42
Fluoranthene	206-44-0	2,400
Fluorene	86-73-7	2,400

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Analyte Name	CAS No.	Soil RSL (mg/kg)
<b>SVOCs (continued)</b>		
2,2'-Oxybis(1-chloropropane)	108-60-1	3,100
2,3,4,6-Tetrachlorophenol	58-90-2	1,900
2,4,5-Trichlorophenol	95-95-4	6,300
2,4,6-Trichlorophenol	88-06-2	49
2,4-Dichlorophenol	120-83-2	190
2,4-Dimethylphenol	105-67-9	1,300
2,4-Dinitrophenol	51-28-5	130
2,4-Dinitrotoluene	121-14-2	1.7
2,6-Dinitrotoluene	606-20-2	0.36
2-Chloronaphthalene	91-58-7	4,800
2-Chlorophenol	95-57-8	390
2-Methylphenol	95-48-7	3,200
2-Nitroaniline	88-74-4	630
3,3'-Dichlorobenzidin	91-94-1	1.2
4,6-Dinitro-2-methylphenol	534-52-1	5.1
4-Chloro-3-methylpheno	59-50-7	6,300
4-Chloroaniline	106-47-8	2.7
4-Nitroaniline	100-01-6	27
Acetophenone	98-86-2	7,800
Atrazine	1912-24-9	2.4
Benzaldehyde	100-52-7	170
Butylbenzylphthalate	85-68-7	290
bis(2-Chloroethoxy) Methane	111-91-1	190
bis(2-Chloroethyl) ether	111-44-4	0.23
bis(2-Ethylhexyl)phthalate	117-81-7	39
Caprolactam	105-60-2	31,000
Dibenzofuran	132-64-9	73
Diethyl Phthalate	84-66-2	51,000
Dimethyl Phthalate <sup>5</sup>	131-11-3	1,100
Di-N-Butyl Phthalate	84-74-2	6,300

**Table 2 Backfill Quality Requirements  
 USS Lead Superfund Site, OU1 Zone 2  
 East Chicago, Indiana**

Analyte Name	CAS No.	Soil RSL (mg/kg)
<b>SVOCs (continued)</b>		
Di-N-Octylphthalate	117-84-0	630
Hexachlorobenzene	118-74-1	0.21
Hexachlorobutadiene	87-68-3	1.2
Hexachlorocyclopentadiene	77-47-4	1.8
Hexachloroethane	67-72-1	1.8
Isophorone	78-59-1	570
Nitrobenzene	98-95-3	5.1
N-Nitrosodi-N-propylamine <sup>6</sup>	621-64-7	0.078
N-Nitrosodiphenylamine	86-30-6	110
Pentachlorophenol	87-86-5	1
Phenol	108-95-2	19,000
<b>VOCs</b>		
1,1,1-Trichloroethane	71-55-6	8,100
1,1,2,2-Tetrachloroethane	79-34-5	0.6
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	6,700
1,1,2-Trichloroethane	79-00-5	1.1
1,1-Dichloroethane	75-34-3	3.6
1,1-Dichloroethene	75-35-4	230
1,2,3-Trichlorobenzene	87-61-6	63
1,2,4-Trichlorobenzene	120-82-1	24
1,2-Dibromo-3-chloropropane	96-12-8	0.0053
1,2-Dibromoethane	106-93-4	0.036
1,2-Dichlorobenzene	95-50-1	1,800
1,2-Dichloroethane	107-06-2	0.46
1,2-Dichloropropane	78-87-5	2.5
1,4-Dichlorobenzene	106-46-7	2.6
1,4-Dioxane (P-Dioxane)	123-91-1	5.3
2-Butanone	78-93-3	27,000
2-Hexanone	591-78-6	200
4-Methyl-2-pentanone	108-10-1	33,000

**Table 2 Backfill Quality Requirements**  
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Analyte Name	CASNo.	Soil RSL (mg/kg)
<b>VOCs (continued)</b>		
Acetone	67-64-1	61,000
Benzene	71-43-2	1.2
Bromochloromethane	74-97-5	150
Bromodichloromethane	75-27-4	0.29
Bromoform	75-25-2	19
Bromomethane	74-83-9	6.8
Carbon disulfide	75-15-0	770
Carbon tetrachloride	56-23-5	0.65
Chlorobenzene	108-90-7	280
Chloroethane	75-00-3	14,000
Chloroform	67-66-3	0.32
Chloromethane	74-87-3	110
cis-1,2-Dichloroethene	156-59-2	160
cis-1,3-Dichloropropene	542-75-6	1.8
Cyclohexane	110-82-7	6,500
Dibromochloromethane	124-48-1	8.3
Dichlorodifluoromethane	75-71-8	87
Ethylbenzene	100-41-4	5.8
Isopropylbenzene	98-82-8	1,900
m,p-Xylene	108-38-3	550
Methyl Tert butyl Ether	1634-04-4	47
Methyl Acetate	79-20-9	78,000
Methylene chloride	75-09-2	57
o-Xylene	95-47-6	650
Styrene	100-42-5	6,000
Tetrachloroethene	127-18-4	24
Toluene	108-88-3	4,900
trans-1,2-Dichloroethene	156-60-5	1,600
trans-1,3-Dichloropropene	542-75-6	1.8
Trichloroethene	79-01-6	0.94

**Table 2 Backfill Quality Requirements  
 USS Lead Superfund Site, OU1 Zone 2  
 East Chicago, Indiana**

Analyte Name	CAS No.	Soil RSL (mg/kg)
<b>VOCs (continued)</b>		
Trichlorofluoromethane	75-69-4	23,000
Vinyl chloride	75-01-4	0.059
Xylenes (total)	1330-20-7	580

Footnotes:

- <sup>1</sup> 14.1 mg/kg is the site-specific background concentration for arsenic. 56.6 mg/kg is the background threshold value [BTV] for lead in 6- to 12-inch soils (SulTRAC 2012).
- <sup>2</sup> There is no EPA RSL for Total Chromium in soils, the value for Chromium (III) insoluble salts is used here.
- <sup>3</sup> For PAHs, backfill must not exceed the higher of the EPA RSL or the Tiered Approach to Corrective Action (TACO) metropolitan areas concentration (Appendix A, Table H in 31 Ill. Reg. 4063, State of Illinois, 2007)
- <sup>4</sup> Chlordane is a mixture of chemicals; the major components include trans-chlordane, cis-chlordane, and heptachlor (ATSDR Toxicological Profile for Chlordane). The sum of concentrations of these compounds must not exceed the listed RSL for chlordane.
- <sup>5</sup> Indiana Department of Environmental Management (IDEM) has established a default closure limit of 1,100 mg/kg for dimethyl phthalate in soil.
- <sup>6</sup> Commonly employed analytical methods are unable to achieve a detection limit lower than the RSL for N-Nitrosodi-N-propylamine, therefore this compound has been excluded from the list of required backfill chemical quality analytes.