	CAS	Solid Waste Ground Water Quality Protection Standard	State Drinking Water MCL R309-103 (mg/l)	State Ground Water Standard R317-6-2 (mg/l)	Federal MCL (mg/l) 95 40CFR 141.11, 141.12, 141.61 &141.62	Health Adv. (mg/l)	Reference Dose or Slope Factor (mg/kg/d)	Other Health Based Concentration (mg/l)	Health Risk c=cancinogen n=noncancinogen	Source i=IRIS h=HEAST o=other (see note)	Life time health risk level in drinking water (mg/l)[9]	EPA Me minimun limits
												EPA 6020
Inorganic Constituents												
Ammonia (as N)	7664-41-7											
Nitrate (as N)												
Carbonate/Bicarbonate												
pH												
Calcium												
Potassium												
Chloride												
Sodium												
Iron	7439-89-6											
Sulfate												
Magnesium												
Total Dissolved Solids (TDS)												
Manganese	7439-96-5											
Total Organic Carbon (TOC)												
Heavy Metals												
Antimony	7440-36-0	0.006	0.006		0.008		4.00E-04		n	i	.01460	0.003
Arsenic	7440-38-2	0.05	0.05	0.05	0.05		3.00E-04		n	i	.010950	0.005
Barium	7440-39-3	2	2	2	2		7.00E-02		n	i	2.5550	0.005
Beryllium	7440-41-7	0.004	0.004		0.004		5.00E-03		c	i	.017038	0.001
Cadmium	7440-43-9	0.005	0.005	0.005	0.005		5.00E-04		n	i	.018250	0.001
Chromium		0.1	0.1	0.1	0.1							0.005
Cobalt	7440-48-4	2					6.00E-02		n	o[1]	2.190	0.03
Copper	7440-50-8	1.3		1.3			4.00E-02		n	o[1]	1.460	0.012
Lead		0.015		0.015								0.003
Mercury (inorganic)	7439-97-6	0.002	0.002	0.002	0.002		4.00E-04		n	h	.01460	
Nickel	7440-02-0	0.1	0.1		0.1		2.00E-02		n	i	.730	0.01

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Selenium	7782-49-2	0.05	0.05	0.05	0.05		5.00E-03		n	i	.18250	0.001
Silver	7440-22-4	0.1		0.1			5.00E-03		n	i	.18250	0.002
Thallium		0.002	0.002	5	0.002							0.001
Vanadium	7440-62-2	0.3					7.00E-03		n	h	.25550	0.03
Zinc	7440-66-6	5		5			7.44E+06		n	i	271560000	0.03
Organic Constituents												**524.2[5]**
Acetone	67-64-1	4					1.00E-01		n	i	3.650	0.005
Acrylonitrile	107-13-1	.1[8]				0.006	5.40E-01		c	i	.000158	0.01
Benzene	71-43-2	0.005	0.005	0.005	0.005		2.90E-02		c	i	.002938	0.0005
Bromochloromethane	74-97-5	0.01				0.01		0.00019		o[2]		0.0005
Bromodichloromethane	75-27-4	0.1[4]	0.1[4]		0.1[4]		6.20E-02		c	i	.001374	0.0005
Bromoform (Tribromomethane)	75-25-2	0.1[4]	0.1[4]		0.1[4]		7.90E-03		c	i	.010784	0.0005
Carbon disulfide	75-15-0	4					1.00E-01		n	i	3.650	0.0005
Carbon tetrachloride	56-23-5	0.005	0.005	0.005	0.005		1.30E-01		c	i	.000655	0.0005
Chlorobenzene	108-90-7	0.1	0.1		0.1		2.00E-02		n	i	.730	0.0005
Chloroethane (ethyl chloride)	75-00-3	15					4.00E-01		n	o[1]	14.60	0.0005
Chloroform (Trichloromethane)	67-66-3	0.1[4]	0.1[4]		0.1[4]		6.10E-03		c	i	.013966	0.0005
Dibromochloromethane	124-48-1	0.1[4]	0.1[4]		0.1[4]		8.40E-02		c	i	.001014	0.0005
1,2-Dibromo-3-chloropropane (dibromochloropropane)	96-12-8	0.0002	0.0002		0.0002		1.40E+00		c	h	.000061	.000005[7]
1,2-Dibromoethane (EDB, ethylene dibromide)	106-93-4	0.00005	0.00005		5E-05		8.50E+01		c	i	.000001	.000005[7]
1,2-Dichlorobenzene (ortho, o-dichlorobenzene)	95-50-1	0.6	0.6	0.6	0.6		9.00E-02		n	i	3.2850	0.0005
1,4-Dichlorobenzene (para)	106-46-7	0.075	0.075	0.075	0.075		2.40E-02		c	h	.003550	0.0005
trans-1,4-Dichloro-2-butene	110-57-6	0.01								o[10]		0.01
1,1-Dichloroethane	75-34-3	4					1.00E-01		n	h	3.650	0.0005
1,2-Dichloroethane	107-06-2	0.005	0.005		0.005		9.10E-02		c	i	.000936	0.0005
1,1-Dichloroethylene	75-35-4	0.007	0.007	0.007	0.007		6.00E-01		c	i	.000142	0.0005
cis-1,2-Dichloroethylene	156-59-2	0.07	0.07	0.07	0.07		1.00E-02		n	h	.3650	0.0005
trans-1,2-Dichloroethylene	156-60-5	0.1	0.1	0.1	0.1		2.00E-02		n	i	.730	0.0005

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1,2-Dichloropropane	78-87-5	0.005	0.005	0.005	0.005		6.80E-02		c	h	.001253	0.0005
cis-1,3-Dichloropropene	10061-01-5	0.002				0.002		0.0005		o[3]		0.0005
trans-1,3-Dichloropropene	10061-02-6	0.002				0.002		0.0005		o[3]		0.0005
Ethylbenzene	100-41-4	0.7	0.7	0.7	0.7		1.00E-01		n	i	3.650	0.0005
2-Hexanone (Methyl butyl ketone)	591-78-6	1.5					4.00E-02		n	o[1]	1.460	0.005
Methyl bromide (Bromomethane)	74-83-9	0.01				0.01	1.40E-03	0.00019	n	i	.05110	0.0005
Methyl chloride (Chloromethane)	74-87-3	0.003				0.003	1.30E-02		c	h	.006553	0.0005
Methylene bromide (Dibromomethane)	74-95-3	0.4					1.00E-02		n	h	.3650	0.0005
Methylene chloride (Dichloromethane)	75-09-2	0.005	0.005		0.005		7.50E-03		c	i	.011359	0.001
Methyl ethyl ketone (2-Butanone)	78-93-3	0.17				0.17	6.00E-01		n	i	21.90	0.005
Methyl Iodide (Iodomethane)	74-88-4	0.02								o[10]		0.001
4-Methyl-2-pentanone (MIBK)	108-10-1	3					8.00E-02		n	h	2.920	0.005
Styrene	100-42-5	0.1	0.1	0.1	0.1		2.00E-01		n	i	7.30	0.0005
1,1,1,2-Tetrachloroethane	630-20-6	0.07				0.07	2.60E-02		c	i	.003277	0.0005
1,1,2,2-Tetrachloroethane	79-34-5	0.005[8]					2.00E-01	0.00017	c	i	.000426	0.0005
Tetrachloroethylene (PCE)	127-18-4	0.005	0.005	0.005	0.005	5	5.20E-02		c	o[1]	.001638	0.0005
Toluene	108-88-3	1	1	1	1		2.00E-01		n	i	7.30	0.0005
1,1,1-Trichloroethane (Methyl chloroform)	71-55-6	0.2	0.2	0.2	0.2		3.50E-02		n	o[1]	1.27750	0.0005
1,1,2-Trichloroethane	79-00-5	0.005	0.005		0.005		5.70E-02		c	i	.001495	0.0005
Trichloroethylene (TCE)	79-01-6	0.005	0.005	0.005	0.005		1.10E-02		c	o[1]	.007745	0.0005
Trichlorofluoromethane (Freon II)	75-69-4	10					3.00E-01	0.00019	n	i	10.950	0.0005
1,2,3-Trichloropropane	96-18-4	0.04				0.04	6.00E-03		n	i	.2190	0.0005
Vinyl acetate	108-05-4	37					1.00E+00		n	h	36.50	0.005
Vinyl chloride	75-01-4	0.002	0.002	0.002	0.002		1.90E+00		c	h	.000045	0.0005
Xylenes[10]	1330-20-7	10	10	10	10		2.00E+00		n	h	73.0	0.0005
Appendix II Constituents (with Ground Water Standard)												
2,4,5 T	93-76-5	0.3650					0.01		n	o[1]	.3650	
Cyanide	57-12-5	0.2			0.2							

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Tin	7440315	21.9					6.00E-01	4	n	h	21.90	
bis(2-Ethylhexyl)phthalate	117-81-7	0.006			0.006							
Benzo[a]pyrene	50-32-8	0.0002			0.0002							
2,4-D	94-75-7	0.07			0.07							
Dinoseb	88-85-7	0.007			0.007							
Endrin	72-20-8	0.002			0.002							
Heptachlor	76-44-8	0.0004			0.0004							
Heptachlor epoxide	1024-57-3	0.0002			0.0002							
Hexachlorobenzene	118-74-1	0.001			0.001							
Hexachlorocyclopentadiene	77-47-4	0.05			0.05							
Lindane	58-89-9	0.0002			0.0002							
Methoxychlor	72-43-5	0.04			0.04							
Pentachlorophenol	87-86-5	0.001			0.001							
Polychlorinated biphenyls[11] (PCBs)	1336-36-3	0.0005			0.0005							
Toxaphene[12]	8001-35-2	0.003			0.003							
2,4,5-TP	93-72-1	0.05			0.05							
1,2,4-Trichlorobenzene	120-82-1	0.07			0.07							
Chlordane	See note 13	0.002			0.002							
Appendix II (no Ground Water Standard Set - Health Data Available)												
Acenaphthene	83-32-9						6.00E-02		n	i	2.190	
Acetophenone	98-86-2						1.00E-01		n	i	3.650	
Acrolein	107-02-8						2.00E-02		n	h	.730	
Aldrin	309-00-2						3.00E-05		n	i	.001095	
Anthracene	120-12-7						3.00E-01		n	i	10.950	
Benzo[a]anthracene (Benzanthracene)	56-55-3						7.30E-01		c	o	.000117	
Benzo[b]fluoranthene	205-99-2						7.30E-01		c	o	.000117	
Benzo[k]fluoranthene	207-08-9						7.30E-02		c	o	.001167	

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Benzyl alcohol	100-51-6						3.00E-01		n	h	10.950	
alpha-BHC	319-84-6						6.30E+00		c	i	.000014	
beta-BHC	319-85-7						1.80E+00		c	i	.000047	
Bis(2-chloroethyl) ether (Dichloroethyl ether)	111-44-4						1.10E+00		c	i	.000077	
Bis-(2-chloro-1-methylethyl) ether (2,2\1\-Dichlorodiisopropyl ether; DCIP)	108-60-1						7.00E-02		c	h	.001217	
Butyl benzyl phthalate (Benzyl butyl)	85-68-7						2.00E-01		n	i	7.30	
p-Chloroaniline	106-47-8						4.00E-03		c	i	.021298	
Chlorobenzilate	510-15-6						2.00E-02		c	h	.004260	
2-Chloronaphthalene	91-58-7						8.00E-02		n	i	2.920	
2-Chlorophenol	95-57-8						5.00E-03		n	i	.18250	
Chloroprene	126-99-8						2.00E-02		n	o	.730	
Chrysene	218-01-9						7.30E-03		c	o	.011670	
m-Cresol (3-methylphenol)	108-39-4						5.00E-02		n	i	1.8250	
o-Cresol (2-methylphenol)	95-48-7						5.00E-02		n	i	1.8250	
p-Cresol (4-methylphenol)	106-44-5						5.00E-03		n	h	.18250	
4,4\1\-DDD	72-54-8						2.40E-01		c	i	.000355	
4,4\1\-DDE	72-55-9						3.40E-01		c	i	.000251	
4,4\1\-DDT	50-29-3						3.40E-01		c	i	.000251	
Dibenz[a,h]anthracene	53-70-3						7.30E+00		c	o	.000012	
Dibenzofuran	132-64-9						4.00E-03		n	o	.1460	
Di-n-butyl phthalate	84-74-2						1.00E-01		n	i	3.650	
m-Dichlorobenzene (1,3-Dichlorobenzene)	541-73-1						3.00E-02		n	o	1.0950	
3,3\1\-Dichlorobenzidine	91-94-1						4.50E-01		c	i	.000189	
Dichlorodifluoromethane (CFC 12)	75-71-8						2.00E-01		n	i	7.30	
2,4-Dichlorophenol	120-83-2						3.00E-03		n	i	.10950	
Dieldrin	60-57-1						1.60E+01		c	i	.000005	
Diethyl phthalate	84-66-2						8.00E-01		n	i	29.20	
3,3\1\-Dimethylbenzidine	119-93-7						9.20E+00		c	h	.000009	
2,4-Dimethylphenol (m-Xylenol)	105-67-9						2.00E-02		n	i	.730	
Dimethyl phthalate	131-11-3						1.00E+01		n	o	365.0	

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m-Dinitrobenzene	99-65-0						1.00E-04		n	i	.003650	
4,6-Dinitro-o-cresol 4,6-Dinitro-2-methylphenol	534-52-1						1.00E-04		n	o	.003650	
2,4-Dinitrophenol	51-28-5						2.00E-03		n	i	.0730	
2,4-Dinitrotoluene	121-14-2						2.00E-03		n	i	.0730	
2,6-Dinitrotoluene	606-20-2						1.00E-03		n	h	.03650	
Di-n-octyl phthalate	117-84-0						2.00E-02		n	h	.730	
Diphenylamine	122-39-4						2.50E-02		n	i	.91250	
Disulfoton	298-04-4						4.00E-05		n	i	.001460	
Ethyl methacrylate	97-63-2						9.00E-02		n	h	3.2850	
Fluoranthene	206-44-0						4.00E-02		n	i	1.460	
Fluorene	86-73-7						4.00E-02		n	i	1.460	
Hexachlorobutadiene	87-68-3						7.80E-02		c	i	.001092	
Hexachloroethane	67-72-1						1.40E-02		c	i	.006085	
Indeno(1,2,3-cd)pyrene	193-39-5						7.30E-01		c	o	.000117	
Isobutyl alcohol	78-83-1						3.00E-01		n	i	10.950	
Isophorone	78-59-1						9.50E-04		c	i	.089674	
Methacrylonitrile	126-98-7						1.00E-04		n	i	.003650	
Methyl methacrylate	80-62-6						1.40E+00		n	i	51.10	
2-Methylnaphthalene	91-57-6						2.00E-02		n	o	.730	
Methyl parathion; Parathion methyl	298-00-0						2.50E-04		n	i	.009125	
Naphthalene	91-20-3						2.00E-02		n	i	.730	
Nitrobenzene	98-95-3						5.00E-04		n	i	.018250	
p-Nitrophenol (4-Nitrophenol)	100-02-7						8.00E-03		n	o	.2920	
N-Nitrosodi-n-butylamine	924-16-3						5.40E+00		c	i	.000016	
N-Nitrosodiethylamine	55-18-5						1.50E+02		c	i	.000001	
N-Nitrosodimethylamine	62-75-9						5.10E+01		c	i	.000002	
N-Nitrosodiphenylamine	86-30-6						4.90E-03		c	i	.017386	
N-Nitrosodipropylamine (N-Nitroso-N-dipropylamine; Di-n-propylnitrosamine)	621-64-7						7.00E+00		c	i	.000012	
N-Nitrosomethylethalamine	10595-95-6						2.20E+01		c	i	.000004	

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N-Nitrosopyrrolidine	930-55-2						2.10E+00		c	i	.000041	
5-Nitro-o-toluidine	99-55-8						3.30E-02		c	h	.002582	
Parathion	56-38-2						6.00E-03		n	h	.2190	
Pentachlorobenzene	608-93-5						8.00E-04		n	i	.02920	
Pentachloronitrobenzene	82-68-8						2.60E-01		c	h	.000328	
Phenol	108-95-2						6.00E-01		n	i	21.90	
p-Phenylenediamine	106-50-3						1.90E-01		n	h	6.9350	
Pyrene	129-00-0						3.00E-02		n	i	1.0950	
1,2,4,5-Tetrachlorobenzene	95-94-3						3.00E-04		n	i	.010950	
2,3,4,6-Tetrachlorophenol	58-90-2						3.00E-02		n	i	1.0950	
2,4,5-Trichlorophenol	95-95-4						1.00E-01		n	i	3.650	
2,4,6-Trichlorophenol	88-06-2						1.10E-02		c	i	.007745	
sym-Trinitrobenzene	99-35-4						3.00E-02		n	i	1.0950	
Appendix II (no health data)												
0,0,0-Triethyl phosphorothioate	126-68-1											
0,0-Diethyl 0-2-pyrazinyl phosphorothioate (Thionazin)	297-97-2											
1,1-Dichloropropene	563-58-6											
1,3-Dichloropropane (Trimethylene dichloride)	142-28-9											
1,4-Naphthoquinone	130-15-4											
1-Naphthylamine	134-32-7											
2,2-Dichloropropane (Isopropylidene chloride)	594-20-7											
2,6-Dichlorophenol	87-65-0											
2-Acetylaminofluorene (2-AAF)	53-96-3											
2-Naphthylamine	91-59-8											
3-Methylcholanthrene	56-49-5											
4-Aminobiphenyl	92-67-1											

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4-Bromophenyl phenyl ether	101-55-3											
4-Chlorophenyl phenyl ether	7005-72-3											
7,12-Dimethylbenz[a]anthracene	57-97-6											
Acenaphthylene	208-96-8											
Acetonitrile (Methyl cyanide)	75-05-8											
Allyl chloride	107-05-1											
Benzo[ghi]perylene	191-24-2											
Bis(2-chloroethoxy)methane	111-91-1											
delta-BHC	319-86-8											
Diallate	2303-16-4											
Dimethoate	60-51-5											
Endosulfan I	959-98-8											
Endosulfan II	33213-65-9											
Endosulfan sulfate	1031-07-8											
Endrin aldehyde	7421-93-4											
Ethyl methanesulfonate	62-50-0											
Famphur	52-85-7											
Hexachloropropene	1888-71-7											
Isodrin	465-73-6											
Isosafrole	120-58-1											
Kepone	143-50-0											
Methapyrilene	91-80-5											
Methyl methanesulfonate	66-27-3											
m-Nitroaniline (3-Nitroanile)	99-09-2											
N-Nitrosopiperidine	100-75-4											
o-Nitroaniline (2-Nitroaniline)	88-74-4											
o-Nitrophenol (2-Nitrophenol)	88-75-5											
o-Toluidine	95-53-4											
p-(Dimethylamino)azobenzene	60-11-7											
p-Chloro-m-cresol (4-Chloro-3-methylphenol)	59-50-7											

	CAS	Solid Waste Ground Water Quality Protection Standard	State Drinking Water MCL R309-103 (mg/l)	State Ground Water Standard R317-6-2 (mg/l)	Federal MCL (mg/l) 95 40CFR 141.11, 141.12, 141.61 &141.62	Health Adv. (mg/l)	Reference Dose or Slope Factor (mg/kg/d)	Other Health Based Concentration (mg/l)	Health Risk c=cancinogen n=noncancinogen	Source i=IRIS h=HEAST o=other (see note)	Life time health risk level in drinking water (mg/l)[9]	EPA Me minimun limits
Phenacetin	62-44-2											
Phenanthrene	85-01-8											
Phorate	298-02-2											
p-Nitroaniline (4-Nitroaniline)	100-01-6											
Pronamide	23950-58-5											
Propionitrile (Ethyl cyanide)	107-12-0											
Sulfide	18496-25-8											
Safrole	94-59-7											
Notes												
1 EPA Region III Risk-Based Concentration Table, Roy Smith, April 30, 1996, revised 4/12/99 by Jennifer Hubbard												
2 Ambient Water Quality Criteria for Human Health												
3 EPACMPT Model												
4 The MCL of .1 mg/l is for total trihalomethanes and is the sum of the concentrations of bromodichioromethane,												
dibromochioromethane, tribromomethane (bromomform) and trichloromethane (chloroform)												
5 Utah Health Laboratory reporting limits. Most laboratories use 0.005 reporting limit for method 8260												
6 EPA Method 8011												
7 EPA Method 504												
8 Solid Waste Ground Water Quality Protection Standard set at 10 times reporting limit												
9 For noncarcinogen C_{dw}=(THQ*RfD*BW*AT*365)/(CR*EF*ED) or for carcinogens C_{dw}=(R*BW*ATc*365)/(CR*ED*EF*CSF_{oral})												
where C_{dw}= maximum concentration in drinking water THQ=target hazard quotient (1.0) RfD=Reference dose BW=Body weight (70 kg) AT=Averaging time (30years)												
AT_c=Averaging time for carcinogens (70years) CR=water consumption rate (2 L/day) EF= exposure frequency (350 days) ED= exposure duration (30 years)												
R= risk (lx 10-6) CSF_{oral}= oral cancer slop factor												
10 Xylene (total): This entry includes o-xylene (CAS RN 96-47-6), m-xylene (CAS RN 108-38-3), p-xylene (CAS RN 106-42-3), and unspecified xylenes (dimethylbenzenes)												
(CAS RN 1330-20-7). PQLs for method 8021 are 0.2 for o- xylene and 0.1 for m- or p-xylene.												
11 Polychlorinated biphenyls (CAS RN 1336-36-3); this category contains congener chemicals, including constituents of Aroclor 1016 (CAS RN 12674-11-2),												
Aroclor 1221 (CAS RN 11104-28-2), Aroclor 1232 (CAS RN 11141-16-5), Aroclor 1242 (CAS RN 53469-21-9), Aroclor 1248 (CAS RN 12672-29-6), Aroclor 1254												
(CAS RN 11097-69-1), and Aroclor 1260 (CAS RN 11096-82-5).												

	CAS	Solid Waste Ground Water Quality Protection Standard	State Drinking Water MCL R309-103 (mg/l)	State Ground Water Standard R317-6-2 (mg/l)	Federal MCL (mg/l) 95 40CFR 141.11, 141.12, 141.61 &141.62	Health Adv. (mg/l)	Reference Dose or Slope Factor (mg/kg/d)	Other Health Based Concentration (mg/l)	Health Risk c=cancinogen n=noncancinogen	Source i=IRIS h=HEAST o=other (see note)	Life time health risk level in drinking water (mg/l)[9]	EPA Me minimun limits
12 Toxaphene: This entry includes congener chemicals contained in technical toxaphene (CAS RN 8001-35-2), i.e., chlorinated camphene.												
13 Chlordane: This entry includes alpha-chlordane (CAS RN 5103-71-9), beta-chlordane (CAS RN 5103-74-2), gamma- chlordane (CAS RN 5566-34-7), and constituents of chlordane (CAS RN 57-74-9 and CAS RN 12789-03-6).												

thod with n reporting (mg/l)
Cold Vapor AAS
0.0002

thod with n reporting (mg/l)
8260A[5]
0.005
0.05
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
.00001[6]
.00001[6]
0.001
0.001
0.02
0.001
0.001
0.001
0.001
0.001

thod with n reporting (mg/l)
0.001
0.001
0.001
0.001
0.01
0.001
0.001
0.001
0.005
0.01
0.01
0.01
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.001
0.01
0.005
0.001

thod with reporting (mg/l)

thod with n reporting (mg/l)

ethod with n reporting (mg/l)

thod with n reporting (mg/l)

thod with n reporting (mg/l)

thod with reporting (mg/l)

thod with n reporting (mg/l)