APPENDIX A
METHOD PRECISION AND ACCURACY GOALS

TABLE A-1: ANIONS, WATER QUALITY PARAMETERS, AND GENERAL CHEMISTRIES METHODS PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

Analyte Group	Water		Soil	
	% Recovery	RPD	% Recovery	RPD
Anions (all)	80-120	25	80-120	35
Ammonia	80-120	25	80-120	35
Cyanide	80-120	25	80-120	35
Iodine	80-120	25	80-120	35
pH (standard)	± 0.2 unit	25	± 0.2 unit	35
Sulfide	80-120	25	80-120	35
Total inorganic carbon	80-120	25	80-120	35
Total Kjeldahl nitrogen	80-120	25	80-120	35
Total organic carbon	80-120	25	80-120	35
Alkalinity (bicarbonate, carbonate, hydroxide)	80-120	25	NA	NA
Conductivity	80-120	25	NA	NA
Total hardness	80-120	NA	NA	NA
Total solids (dissolved and suspended)	80-120	NA	NA	NA

Matrix Spike/Matrix Spike Duplicate Limits [1]

Analyte Group	Water		Soil	
	% Recovery	RPD	% Recovery	RPD
Anions	75-125	25	75-125	35
Ammonia	75-125	25	75-125	35
Cyanide	75-125	25	75-125	35
Iodine	75-125	25	75-125	35
Sulfide	75-125	25	75-125	35
Total inorganic carbon	75-125	25	75-125	35
Total Kjeldahl nitrogen	75-125	25	75-125	35
Total organic carbon	75-125	25	75-125	35

Notes:

NA Not applicable
RPD Relative percent difference
1 Matrix spike and matrix spike duplicate analyses are not required for every analyte group.

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-2: METALS
METHODS PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Analyte Group	% Recovery	RPD	% Recovery	RPD
Total metals by ICP	80-120	NA	80-120	NA
Total metals by ICP/MS	80-120	NA	80-120	NA
Hexavalent chromium	80-120	NA	80-120	NA

Matrix Spike/Matrix Spike Duplicate Limits

	Water		Soil	
Analyte Group	% Recovery	RPD	% Recovery	RPD
Total metals by ICP	75-125	25	75-125	35
Total metals by ICP/MS	75-125	25	75-125	35
Hexavalent chromium	75-125	25	75-125	35

Notes:

ICP Inductively coupled plasma
MS Mass spectrometer
NA Not applicable
RPD Relative percent difference

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-3: RADIONUCLIDES, VARIOUS METHODS METHOD PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Analyte Group	% Recovery	DER	% Recovery	DER
Uranium-233/234, 235, 238	80-120	2.0	80-120	2.0
Radium-226 and 228	70-130	2.0	70-130	2.0
Thorium-228, 230, and 232	80-120	2.0	80-120	2.0
Radon-222	75-125	2.0	75-125	2.0
Lead-210 by LSC	70-130	2.0	70-130	2.0
Gross α and β	70-130	2.0	70-130	2.0
Gamma spec isotopes	80-120	2.0	80-120	2.0

Matrix Duplicate Limits [1]

	Water		Soil	
Analyte Group	% Recovery	DER	% Recovery	DER
Uranium-233/234, 235, 238	NA	2.0	NA	2.0
Radium-226 and 228	NA	2.0	NA	2.0
Thorium-228, 230, and 232	NA	2.0	NA	2.0
Radon-222	NA	2.0	NA	2.0
Lead-210 by LSC	NA	2.0	NA	2.0
Gross α and β	NA	2.0	NA	2.0
Gamma spec isotopes	NA	2.0	NA	2.0

Tracer/Carrier Yield Control Limits [2]

Tracer/Carrier Yields for Analytes	Water % Recovery	Soil % Recovery
Uranium-233/234, 235, 238	30-110	30-110
Radium-226 and 228	40-110	40-110
Lead-210	40-110	40-110
Thorium-228, 230, and 232	30-110	30-110

Notes:

DER Duplicate error ratio
LSC Liquid scintillation counting
NA Not applicable
1 Matrix spikes are not applicable to radionuclide analysis; hence the table only lists matrix duplicate.
2 Tracers or carriers are not applicable to all analyte groups.

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-4: VOLATILE ORGANIC COMPOUNDS METHOD PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
1,1-Dichloroethene	80-120	NA	75-125	NA
Benzene	80-120	NA	75-125	NA
Trichloroethene	80-120	NA	75-125	NA
Toluene	80-120	NA	75-125	NA
Chlorobenzene	80-120	NA	75-125	NA

Matrix Spike/Matrix Spike Duplicate Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
1,1-Dichloroethene	75-125	20	60-140	35
Benzene	75-125	20	60-140	35
Trichloroethene	75-125	20	60-140	35
Toluene	75-125	20	60-140	35
Chlorobenzene	75-125	20	60-140	35

Surrogate Control Limits

Surrogate Compound	Water % Recovery	Soil % Recovery
4-Bromofluorobenzene	75-125	60-140
Dibromofluoromethane	75-125	60-140
Toluene-d_8	75-125	60-140
Dichloroethane-d_4	75-125	60-140

Notes:

GC Gas chromatography
MS Mass spectrometer
NA Not applicable
RPD Relative percent difference

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-5: SEMIVOLATILE ORGANIC COMPOUNDS METHOD PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
Phenol	30-150	NA	30-150	NA
2-Chlorophenol	30-150	NA	30-150	NA
N-Nitroso-di-n-propylamine	30-150	NA	30-150	NA
4-Chloro-3-methylphenol	30-150	NA	30-150	NA
Acenaphthene	30-150	NA	30-150	NA
4-Nitrophenol	30-150	NA	30-150	NA
2,4-Dinitrotoluene	30-150	NA	30-150	NA
Pentachlorophenol	30-150	NA	30-150	NA
Pyrene	30-150	NA	30-150	NA

Matrix Spike/Matrix Spike Duplicate Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
Phenol	30-150	20	30-150	35
2-Chlorophenol	30-150	20	30-150	35
N-Nitroso-di-n-propylamine	30-150	20	30-150	35
4-Chloro-3-methylphenol	30-150	20	30-150	35
Acenaphthene	30-150	20	30-150	35
4-Nitrophenol	30-150	20	30-150	35
2,4-Dinitrotoluene	30-150	20	30-150	35
Pentachlorophenol	30-150	20	30-150	35
Pyrene	30-150	20	30-150	35

Surrogate Control Limits

Surrogate Compound	Water % Recovery	Soil % Recovery
Nitrobenzene-d5	30-150	30-150
2-Fluorobiphenyl	30-150	30-150
Terphenyl-d14	30-150	30-150
Phenol-d5	30-150	30-150
2-Fluorophenol	30-150	30-150
2,4,6-Tribromophenol	30-150	30-150

TABLE A-5: SEMIVOLATILE ORGANIC COMPOUNDS (CONTINUED) METHOD PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Notes:

NA Not applicable
RPD Relative percent difference

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-6: DIOXINS AND FURANS
METHOD PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
2,3,7,8-TCDD	60-140	NA	60-140	NA
1,2,3,7,8-PeCDD	60-140	NA	60-140	NA
1,2,3,6,7,8-HxCDD	60-140	NA	60-140	NA
1,2,3,4,7,8-HxCDD	60-140	NA	60-140	NA
1,2,3,7,8,9-HxCDD	60-140	NA	60-140	NA
1,2,3,4,6,7,8-HpCDD	60-140	NA	60-140	NA
OCDD	60-140	NA	60-140	NA
2,3,7,8-TCDF	60-140	NA	60-140	NA
1,2,3,7,8-PeCDF	60-140	NA	60-140	NA
2,3,4,7,8-PeCDF	60-140	NA	60-140	NA
1,2,3,6,7,8-HxCDF	60-140	NA	60-140	NA
1,2,3,7,8,9-HxCDF	60-140	NA	60-140	NA
1,2,3,4,7,8-HxCDF	60-140	NA	60-140	NA
2,3,4,6,7,8-HxCDF	60-140	NA	60-140	NA
1,2,3,4,6,7,8-HpCDF	60-140	NA	60-140	NA
1,2,3,4,7,8,9-HpCDF	60-140	NA	60-140	NA
OCDF	60-140	NA	60-140	NA

Labeled Standard Limits

Labeled Standard	Water % Recovery	Soil % Recovery
2,3,7,8-TCDD-^{13}C	40-135	40-135
2,3,7,8-TCDF-^{13}C	40-135	40-135
1,2,3,7,8-PeCDD-^{13}C	40-135	40-135
1,2,3,7,8-PeCDF-^{13}C	40-135	40-135
2,3,4,7,8-PeCDF-^{13}C	40-135	40-135
1,2,3,6,7,8-HxCDD-^{13}C	40-135	40-135
1,2,3,6,7,8-HxCDF-^{13}C	40-135	40-135
1,2,3,4,7,8-HxCDD-^{13}C	40-135	40-135
1,2,3,4,7,8-HxCDF-^{13}C	40-135	40-135

TABLE A-6: DIOXINS AND FURANS (CONTINUED)
METHOD PRECISION AND ACCURACY GOALS
Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Labeled Standard Limits (continued)

Labeled Standard	Water % Recovery	Soil % Recovery
1,2,3,7,8,9-HxCDF-^{13}C	40-135	40-135
1,2,3,4,6,7,8-HpCDD-^{13}C	40-135	40-135
1,2,3,4,6,7,8-HpCDF-^{13}C	40-135	40-135
1,2,3,4,7,8,9-HpCDF-^{13}C	40-135	40-135
2,3,4,6,7,8-HxCDF-^{13}C	40-135	40-135
OCDD-^{13}C	40-135	40-135

Notes:

NA Not applicable
RPD Relative percent difference

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-7: ORGANOCHLORINE PESTICIDES METHOD PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
Gamma-BHC (Lindane)	30-150	NA	30-150	NA
Heptachlor	30-150	NA	30-150	NA
Aldrin	30-150	NA	30-150	NA
Dieldrin	30-150	NA	30-150	NA
Endrin	30-150	NA	30-150	NA
4,4'-DDT	30-150	NA	30-150	NA

Matrix Spike/Matrix Spike Duplicate Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
Gamma-BHC (Lindane)	30-150	20	30-150	35
Heptachlor	30-150	20	30-150	35
Aldrin	30-150	20	30-150	35
Dieldrin	30-150	20	30-150	35
Endrin	30-150	20	30-150	35
4,4'-DDT	30-150	20	30-150	35

Surrogate Control Limits

Surrogate Compound	Water % Recovery	Soil % Recovery
Decachlorobiphenyl (DCB)	30-150	30-150
Tetrachloro-meta-xylene (TCMX)	30-150	30-150

Notes:

NA Not applicable

RPD Relative percent difference

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-8: PCB AROCRORS AND CONGENERS
METHODS PRECISION AND ACCURACY GOALS
Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
Aroclor 1016	30-150	NA	30-150	NA
Aroclor 1260	30-150	NA	30-150	NA

Matrix Spike/Matrix Spike Duplicate Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
Aroclor 1016	30-150	20	30-150	50
Aroclor 1260	30-150	20	30-150	50

Surrogate Control Limits

Surrogate Compound	Water % Recovery	Soil % Recovery
Decachlorobiphenyl (DCB)	30-150	30-150
Tetrachloro-meta-xylene (TCMX)	30-150	30-150

Notes:

NA Not applicable
RPD Relative percent difference

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-9: CHLORINATED HERBICIDES
METHODS PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
2,4-D	30-150	NA	30-150	NA

Matrix Spike/Matrix Spike Duplicate Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
2-4-D	30-150	20	30-150	35

Surrogate Control Limits

Surrogate Compound	Water % Recovery	Soil % Recovery
2,4-Dichlorophenyl acetic acid (DCAA)	30-150	30-150

Notes:

NA Not applicable
RPD Relative percent difference

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-10: ORGANO-PHOSPHORUS PESTICIDES METHODS PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
Disulfoton				
Merphos	30-150	NA	30-150	NA

Matrix Spike/Matrix Spike Duplicate Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
Disulfoton				
Merphos	30-150	20	30-150	35

Surrogate Control Limits

Surrogate Compound	Water % Recovery	Soil % Recovery
Tributylphosphate	30-150	30-150

Notes:

NA Not applicable
RPD Relative percent difference
TBD To be determined

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-11: CHLORINATED COMPOUNDS
METHODS PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
All compounds	70-130	NA	30-150	NA

Matrix Spike/Matrix Spike Duplicate Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
All compounds	70-130	20	30-150	35

Surrogate Control Limits

Surrogate Compound	Water % Recovery	Soil % Recovery
TBD	30-150	30-150

Notes:

NA Not applicable
RPD Relative percent difference
TBD To be determined

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-12: ORGANIC ACIDS
METHODS PRECISION AND ACCURACY GOALS
Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
All compounds	70-130	NA	30-150	NA

Matrix Spike/Matrix Spike Duplicate Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
All compounds	70-130	20	30-150	35

Surrogate Control Limits

Surrogate Compound	Water % Recovery	Soil % Recovery
TBD	30-150	30-150

Notes:

NA Not applicable
RPD Relative percent difference
TBD To be determined

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-13: NON-HALOGENATED ORGANICS METHODS PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
All compounds	70-130	NA	30-150	NA

Matrix Spike/Matrix Spike Duplicate Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
All compounds	70-130	20	30-150	35

Surrogate Control Limits

Surrogate Compound	Water % Recovery	Soil % Recovery
TBD	30-150	30-150

Notes:

NA Not applicable
RPD Relative percent difference
TBD To be determined

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-14: ALDEHYDES
METHODS PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
Acetaldehyde	30-150	NA	30-150	NA
Formaldehyde	30-150	NA	30-150	NA

Matrix Spike/Matrix Spike Duplicate Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
Acetaldehyde	30-150	20	30-150	35
Formaldehyde	30-150	20	30-150	35

Surrogate Control Limits

Surrogate Compound	Water % Recovery	Soil % Recovery
Not applicable	NA	NA

Notes:

NA Not applicable
RPD Relative percent difference

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-15: DISSOLVED GASES
METHODS PRECISION AND ACCURACY GOALS
Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
All compounds	70-130	NA	NA	NA

Matrix Spike/Matrix Spike Duplicate Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
All compounds	30-150	20	NA	NA

Surrogate Control Limits

Surrogate Compound	Water % Recovery	Soil % Recovery
Not applicable	NA	NA

Notes:

NA Not applicable
RPD Relative percent difference

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

TABLE A-16: PETROLEUM HYDROCARBONS METHODS PRECISION AND ACCURACY GOALS

Generic Site-wide Sampling and Analysis Plan, Titanium Metals Corporation Facility

Laboratory Control Sample Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
Gasoline	30-150	NA	30-150	NA
Diesel	30-150	NA	30-150	NA
Motor oil	30-150	NA	30-150	NA

Matrix Spike/Matrix Spike Duplicate Limits

	Water		Soil	
Spiking Compound	% Recovery	RPD	% Recovery	RPD
Gasoline	30-150	20	30-150	35
Diesel	30-150	20	30-150	35
Motor oil	30-150	20	30-150	35

Surrogate Control Limits

Surrogate Compound	Water % Recovery	Soil % Recovery
o-Terphenyl (extractables)	30-150	30-150
1,4-Difluorobenzene (purgeables)	30-150	30-150

Notes:

EPA U.S. Environmental Protection Agency
NA Not applicable
RPD Relative percent difference

The complete analyte list and applicable methods are listed in Tables B-1 and B-2.

APPENDIX B
PROJECT-REQUIRED REPORTING LIMITS

Table B-1: Project Analyte List for Groundwater
Generic Sampling and Analysis Plan

Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: MCL [a] (mg/L) or (pCi/L)	Screening Levels: Secondary Standard [b] (mg/L) or (pCi/L)	Screening Levels: NAC Toxic Stds [c] (mg/L) or (pCi/L)	Screening Levels: Tap Water PRGs (mg/L)		Project Reporting Limits [d] (mg/L) or (pCi/L)
Anions	Bromide/bromine	24959-67-9	300.1 [e]	--	--	--	--	--	2.0E-01
	Chlorate	14866-68-3	300.1 [e]	--	--	--	--	--	2.0E+01
	Chloride/soluble chlorine	16887-00-6	300.1 [e]	--	2.5E+02	--	--	--	2.0E-01
	Chlorite	14998-27-7	300.1 [e]	1.0E+00	--	--	--	--	2.0E+01
	Fluoride	16984-48-8	300.1 [e]	4.0E+00	2.0E+00	1.0E+00	2.2E+00	nc	1.0E-01
	Nitrate (as nitrogen)	14797-55-8	300.1 [e]	1.0E+01	--	--	1.0E+01	nc	2.0E-01
	Nitrite (as nitrogen)	14797-65-0	300.1 [e]	1.0E+00	--	--	1.0E+00	nc	2.0E-01
	Orthophosphate	14265-44-2	300.1 [e]	--	--	--	--	--	5.0E-01
	Sulfate	14808-79-8	300.1 [e]	HEA[k]	2.5E+02	--	--	--	1.0E+00
	Sulfite	14265-45-3	377.1 [e]	--	--	--	--	--	2.0E+03
	Perchlorate	14797-73-0	314.0 [e]	--	--	--	3.6E+00	ca/nc	1.0E-03
Dioxins/ Furans	2,3,7,8-TCDD	1746-01-6	8290 [f]	3E-08	--	--	**4.5E-10**	ca	1.0E-08
	1,2,3,7,8-PeCDD	40321-76-4	8290 [f]	--	--	--	--	--	5.0E-08
	1,2,3,6,7,8-HxCDD	57653-85-7	8290 [f]	--	--	--	--	--	5.0E-08
	1,2,3,4,7,8-HxCDD	39227-28-6	8290 [f]	--	--	--	--	--	5.0E-08
	1,2,3,7,8,9-HxCDD	19408-74-3	8290 [f]	--	--	--	--	--	5.0E-08
	1,2,3,4,6,7,8-HpCDD	35822-46-9	8290 [f]	--	--	--	--	--	5.0E-08
	OCDD	3268-87-9	8290 [f]	--	--	--	--	--	1.0E-07
	2,3,7,8-TCDF	51207-31-9	8290 [f]	--	--	--	--	--	1.0E-08
	1,2,3,7,8-PeCDF	57117-41-6	8290 [f]	--	--	--	--	--	5.0E-08
	2,3,4,7,8-PeCDF	57117-31-4	8290 [f]	--	--	--	--	--	5.0E-08
	1,2,3,6,7,8-HxCDF	57117-44-9	8290 [f]	--	--	--	--	--	5.0E-08
	1,2,3,7,8,9-HxCDF	72918-21-9	8290 [f]	--	--	--	--	--	5.0E-08
	1,2,3,4,7,8-HxCDF	70648-26-9	8290 [f]	--	--	--	--	--	5.0E-08
	2,3,4,6,7,8-HxCDF	60851-34-5	8290 [f]	--	--	--	--	--	5.0E-08
	1,2,3,4,6,7,8-HpCDF	67562-39-4	8290 [f]	--	--	--	--	--	5.0E-08
	1,2,3,4,7,8,9-HpCDF	55673-89-7	8290 [f]	--	--	--	--	--	5.0E-08
	OCDF	39001-02-0	8290 [f]	--	--	--	--	--	1.0E-07
General Chemistry Parameters	Ammonia (as N)	7664-41-7	350.2	--	--	--	--	--	1.0E-01
	Cyanide (Total)	57-12-5	335.1/335.2	2.0E-01	--	--	7.3E-01	nc	1.0E-02
	Iodine [o]	7553-56-2	345.1	--	--	--	--	--	TBD
	pH	pH	9040B	6.5-9[(11)]	--	--	--	--	0.1 unit
	Sulfide	18496-25-8	376.1/376.2	--	--	--	--	--	TBD
	Total inorganic carbon	7440-44-0	Mod. 415.1	--	--	--	--	--	1.0E+03
	Total Kjeldahl nitrogen (TKN)	TKN	351.2	--	--	--	--	--	1.0E+02
	Total organic carbon (TOC)	7440-44-0	EPA 415.1	--	--	--	--	--	1.0E+00

Table B-1: Project Analyte List for Groundwater
Generic Sampling and Analysis Plan

Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: MCL [a] (mg/L) or (pCi/L)	Screening Levels: Secondary Standard [b] (mg/L) or (pCi/L)	Screening Levels: NAC Toxic Stds [c] (mg/L) or (pCi/L)	Screening Levels: Tap Water PRGs (mg/L)		Project Reporting Limits [d] (mg/L) or (pCi/L)
Metals	Aluminum	7429-90-5	6010B [f]	--	**5.0E-02**	--	3.6E+01	nc	1.0E-01
	Antimony	7440-36-0	6010B [f]	**6.0E-03**	--	1.5E-01	**1.5E-02**	nc	2.0E-02
	Arsenic (cancer endpoint)	7440-38-2	6020 [f]	1.0E-02	--	5.0E-02	**4.5E-05**	ca	5.0E-03
	Barium	7440-39-3	6010B [f]	2.0E+00	--	2.0E+00	2.6E+00	nc	2.0E-01
	Beryllium	7440-41-7	6010B [f]	4.0E-03	--	**0.0E+00**	7.3E-02	nc	2.0E-03
	Boron	7440-42-8	6010B f	--	--	--	7.3E+00	nc	1.0E-01
	Cadmium	7440-43-9	6010B [f]	**5.0E-03**	--	**5.0E-03**	1.8E-02	nc	5.0E-03
	Calcium	7440-70-2	6010B [f]	--	--	--	--	--	5.0E-01
	Total chromium (1:6 ratio of Cr VI:Cr III)	7440-47-3	6010B [f]	1.0E-01	--	1.0E-01	--	--	1.0E-02
	Chromium VI	18540-29-9	7196A [f]	--	--	**1.0E+01**	**1.1E-01**	nc	5.0E+01
	Chromium III	16065-83-1	Calculated	--	--	h	5.5E+01	nc	5.0E-01
	Cobalt	7440-48-4	6010B [f]	--	--	--	7.3E-01	nc	1.0E-02
	Copper	7440-50-8	6010B [f]	1.3E+00	1.0E+00	2.0E-01 [i]	1.5E+00	nc	1.0E-02
	Iron	7439-89-6	6010B [f]	--	3.0E-01	1.0E+00	1.1E+01	nc	1.0E-01
	Lead	7439-92-1	6010B [f]	1.5E-02	--	5.0E-02 [j]	--	--	3.0E-03
	Lithium	7439-93-2	6010B [f]	--	--	--	7.3E-01	nc	1.0E-02
	Magnesium	7439-95-4	6010B [f]	--	--	--	--	--	1.0E+00
	Manganese	7439-96-5	6010B [f]	HEA[k]	**5.0E-02**	2.0E-01	8.8E-01	nc	1.0E-01
	Mercury	7487-94-7	7470A [f]	2.0E-03	--	1.2E-01	1.1E-02	nc	2.0E-05
	Molybdenum	7439-98-7	6010B [f]	--	--	**1.9E-02**	1.8E-01	nc	1.0E-02
	Nickel (soluble salts)	7440-02-0	6010B [f]	--	--	**1.3E-02** [l]	7.3E-01	nc	2.0E-02
	Niobium	7440-03-1	6010B/6020 [f]	--	--	--	--	--	TBD
	Palladium & Platinum	7440-05-3	6010B/6020 [f]	--	--	--	--	--	TBD
	Phosphorus (total phosphate-P)	7723-14-0	365.2 [e]	--	--	--	**7.3E-04**	nc	1.0E-02
	Potassium	7440-09-7	6010B [f]	--	--	--	--	--	1.0E+00
	Selenium	7782-49-2	6010B [f]	5.0E-02	--	**5.0E-03**	1.8E-01	nc	5.0E-03
	Silicon	7440-21-3	6010B [f]	--	--	--	--	--	4.0E+02
	Silver	7440-22-4	6010B [f]	--	1.0E-01	m	1.8E-01	nc	1.0E-02
	Sodium	7440-23-5	6010B [f]	HEA[k]	--	--	--	--	1.0E+00
	Strontium	7440-24-6	6010B f	--	--	--	2.2E+01	nc	1.0E-02
	Sulfur	7704-34-9	6010B f	--	--	--	--	--	1.0E+03
	Thallium	7446-18-6	6010B [f]	2.0E-03	--	1.3E-02	2.4E-03	nc	2.0E-04
	Tin (inorganic)	7440-31-5	6010B [f]	--	--	--	2.2E+01	nc	TBD
	Titanium	7440-32-6	6010B [f]	--	--	--	1.5E+02	nc	2.0E-02
	Tungsten	7440-33-7	6010B [f]	--	--	--	--	--	TBD
	Total Uranium	7440-61-0	6020 [f]	3.0E-02	--	--	7.3E-03	nc	1.0E-03
	Vanadium	7440-62-2	6010B [f]	--	--	--	3.6E-02	nc	1.0E-02
	Zinc	7440-66-6	6010B [f]	--	5.0E+00	2.0E+00 [n]	1.1E+01	nc	2.0E-02
	Zirconium	7440-67-7	6020 [f]	--	--	--	--	--	TBD

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Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: MCL [a] (mg/L) or (pCi/L)	Screening Levels: Secondary Standard [b] (mg/L) or (pCi/L)	Screening Levels: NAC Toxic Stds [c] (mg/L) or (pCi/L)	Screening Levels: Tap Water PRGs (mg/L)		Project Reporting Limits [d] (mg/L) or (pCi/L)
Organochlorine Pesticides	2,4-DDD	53-19-0	8081A [f]	--	--	--	--	--	1.0E+00
	2,4-DDE	3424-82-6	8081A [f]	--	--	--	--	--	1.0E+00
	4,4'-DDD	72-54-8	8081A [f]	--	--	--	2.8E-04	ca	1.0E-04
	4.4'-DDE	72-55-9	8081A [f]	--	--	--	2.0E-04	ca	1.0E-04
	4,4'-DDT	50-29-3	8081A [f]	--	--	0.0E+00	2.0E-04	ca*	1.0E-04
	Aldrin	309-00-2	8081A [f]	--	--	--	**4.0E-06**	c	5.0E-05
	alpha-BHC	319-84-6	8081A [f]	--	--	--	**1.1E-05**	c	5.0E-05
	alpha-Chlordane	5103-71-9	8081A [f]	2.0E-03	--	--	1.9E-04	c	5.0E-05
	beta-BHC	319-85-7	8081A [f]	--	--	--	**3.7E-05**	c	5.0E-05
	Chlordane	57-74-9	8081A [f]	2.0E-03	--	--	**1.9E-04**	c	1.0E-03
	delta-BHC	319-86-8	8081A [f]	--	--	--	--	--	5.0E-05
	Dieldrin	60-57-1	8081A [f]	--	--	--	**4.2E-06**	c	5.0E-05
	Endosulfan I	959-98-8	8081A [f]	--	--	--	2.2E-01	nc	5.0E-05
	Endosulfan II	33213-65-9	8081A [f]	--	--	--	2.2E-01	nc	5.0E-05
	Endosulfan sulfate	1031-07-8	8081A [f]	--	--	--	--	--	5.0E-05
	Endrin	72-20-8	8081A [f]	2.0E-03	--	--	1.1E-02	nc	5.0E-05
	Endrin aldehyde	7421-93-4	8081A [f]	--	--	--	--	--	5.0E-05
	Endrin ketone	53494-70-5	8081A [f]	--	--	--	--	--	5.0E-05
	gamma-BHC (Lindane)	58-89-9	8081A [f]	2.0E-04	--	--	5.2E-05	c	5.0E-05
	gamma-Chlordane	5103-74-2	8081A [f]	2.0E-03	--	--	1.9E-04	c	5.0E-05
	Heptachlor	76-44-8	8081A [f]	4.0E-04	--	--	**1.5E-05**	c	5.0E-05
	Heptachlor epoxide	1024-57-3	8081A [f]	2.0E-04	--	--	**7.4E-06**	c	5.0E-05
	Methoxychlor	72-43-5	8081A [f]	4.0E-02	--	--	1.8E-01	nc	2.5E-04
	Toxaphene	8001-35-2	8081A [f]	3.0E-03	--	--	6.1E-05	c	2.5E-03
Chlorinated Herbicides	2,4,5-T	93-76-5	8151A	5.0E-02	--	--	3.6E-01	nc	1.0E-04
	2,4,5-TP (Silvex)	93-72-1	8151A	5.0E-02	--	--	2.9E-01	nc	1.0E-04
	2,4-D	94-75-7	8151A	7.0E-02	--	--	3.6E-01	nc	1.0E-03
	2,4-DB	94-82-6	8151A	--	--	--	2.9E-01	nc	1.0E-03
	Dalapon	75-99-0	8151A	2.0E-01	--	--	1.1E+00	nc	4.0E-03
	Dicamba	1918-00-9	8151A	--	--	--	1.1E+00	nc	2.0E-04
	Dichloroprop	120-36-5	8151A	--	--	--	--	--	1.0E-03
	Dinoseb	88-85-7	8151A	7.0E-03	--	--	3.6E-02	nc	1.0E-03
	MCPA	94-74-6	8151A	--	--	--	**1.8E-02**	nc	1.0E-01
	MCPP	93-65-2	8151A	--	--	--	**3.6E-02**	nc	1.0E-01
SVOCs (including PAHs	1,2,4,5-Tetrachlorobenzene	95-94-3	8270C [f]	--	--	--	1.1E-02	nc	1.0E-02
	1,2-Diphenylhydrazine	122-66-7	8270C [f]	--	--	--	8.4E-05	c	1.0E+01
	1,4-Dioxane	123-91-1	8270C [f]	--	--	--	6.1E-03	c	3.0E-03
	2,4,5-Trichlorophenol	95-95-4	8270C [f]	--	--	--	3.6E+00	nc	1.0E-02

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Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: MCL [a] (mg/L) or (pCi/L)	Screening Levels: Secondary Standard [b] (mg/L) or (pCi/L)	Screening Levels: NAC Toxic Stds [c] (mg/L) or (pCi/L)	Screening Levels: Tap Water PRGs (mg/L)		Project Reporting Limits [d] (mg/L) or (pCi/L)
SVOCs continued	2,4,6-Trichlorophenol	88-06-2	8270C [f]	--	--	--	**3.6E-03**	nc	1.0E-02
	2,4-Dichlorophenol	120-83-2	8270C [f]	--	--	--	1.1E-01	nc	1.0E-02
	2,4-Dimethylphenol	105-67-9	8270C [f]	--	--	--	7.3E-01	nc	1.0E-02
	2,4-Dinitrophenol	51-28-5	8270C [f]	--	--	--	7.3E-02	nc	2.0E-02
	2,4-Dinitrotoluene	121-14-2	8270C [f]	--	--	--	**9.9E-05**	c	1.0E-02
	2,6-Dinitrotoluene	606-20-2	8270C [f]	--	--	--	**9.9E-05**	c	1.0E-02
	2-Chloronaphthalene	91-58-7	8270C [f]	--	--	--	4.9E-01	nc	1.0E-02
	2-Chlorophenol	95-57-8	8270C [f]	--	--	--	3.0E-02	nc	1.0E-02
	2-Methylnaphthalene	91-57-6	8270C [f]	--	--	--	--	--	1.0E-02
	2-Nitroaniline	88-74-4	8270C [f]	--	--	--	1.1E-01	nc	2.0E-02
	2-Nitrophenol	88-75-5	8270C [f]	--	--	--	--	--	1.0E-02
	3,3-Dichlorobenzidine	91-94-1	8270C [f]	--	--	--	**1.5E-04**	c	1.0E-02
	3-Nitroaniline	99-09-2	8270C [f]	--	--	--	**3.2E-03**	c	2.0E-02
	4,4'-Dichlorobenzil	3457-46-3	8270C [f]	--	--	--	--	--	TBD
	4-Bromophenyl phenyl ether	101-55-3	8270C [f]	--	--	--	--	--	1.0E-02
	4-Chloro-3-methylphenol	59-50-7	8270C [f]	--	--	--	--	--	1.0E-02
	4-Chlorophenyl phenyl ether	7005-72-3	8270C [f]	--	--	--	--	--	1.0E-02
	4-Chlorothioanisole	123-09-1	8270C [f]	--	--	--	--	--	TBD
	4-Chlorothiophenol	106-54-7	8270C [f]	--	--	--	--	--	TBD
	4-Nitroaniline	100-01-6	8270C [f]	--	--	--	**3.2E-03**	c	2.0E-02
	4-Nitrophenol	100-02-7	8270C [f]	--	--	--	--	--	2.0E-02
	Acenaphthene	83-32-9	8270C [f]	--	--	--	3.7E-01	nc	1.0E-03
	Acenaphthylene	208-96-8	8270C [f]	--	--	--	--	--	1.0E-03
	Acetophenone	98-86-2	8270C [f]	--	--	--	--	--	1.0E-02
	Aniline	62-53-3	8270C [f]	--	--	--	1.2E-02	c	1.0E-02
	Anthracene	120-12-7	8270C [f]	--	--	--	1.8E+00	nc	1.0E-03
	Azobenzene	103-33-3	8270C [f]	--	--	--	**6.1E-04**	c	1.0E-02
	Benzo(a)anthracene (SIM)	56-55-3	8270C [f]	--	--	--	**9.2E-05**	ca	1.0E-04
	Benzo(a)pyrene (SIM)	50-32-8	8270C [f]	2.0E-04	--	--	**9.2E-06**	ca	1.0E-04
	Benzo(b)fluoranthene (SIM)	205-99-2	8270C [f]	--	--	--	**9.2E-05**	ca	1.0E-04
	Benzo(g,h,i)perylene	191-24-2	8270C [f]	--	--	--	--	--	1.0E-03
	Benzo(k)fluoranthene (SIM)	207-08-9	8270C [f]	--	--	--	9.2E-04	ca	1.0E-04
	Benzoic acid	65-85-0	8270C [f]	--	--	--	**1.5E+02**	nc	5.0E-02
	Benzyl alcohol	100-51-6	8270C [f]	--	--	--	1.1E+01	nc	1.0E-02
	bis(2-Chloroethoxy)methane	111-91-1	8270C [f]	--	--	--	--	--	1.0E-02
	bis(2-Chloroethyl) ether	111-44-4	8270C [f]	--	--	--	**1.0E-05**	c	1.0E-02
	bis(2-Chloroisopropyl) ether	108-60-1	8270C [f]	--	--	--	**2.7E-04**	c	1.0E-02
	bis(2-Ethylhexyl) phthalate	117-81-7	8270C [f]	6.0E-03	--	--	**4.8E-03**	c	1.0E-02
	bis(Chloromethyl) ether	542-88-1	8270C [f]	--	--	--	5.2E-08	c	TBD

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Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: MCL [a] (mg/L) or (pCi/L)	Screening Levels: Secondary Standard [b] (mg/L) or (pCi/L)	Screening Levels: NAC Toxic Stds [c] (mg/L) or (pCi/L)	Screening Levels: Tap Water PRGs (mg/L)		Project Reporting Limits [d] (mg/L) or (pCi/L)
SVOCs continued	bis(p-Chlorophenyl) sulfone	80-07-9	8270C [f]	--	--	--	--	--	TBD
	bis(p-Chlorophenyl)disulfide	1142-19-4	8270C [f]	--	--	--	--	--	TBD
	Butyl benzyl phthalate	85-68-7	8270C [f]	--	--	--	7.3E+00	nc	1.0E-02
	Carbazole	86-74-8	8270C [f]	--	--	--	**3.4E-03**	c	1.0E-02
	Chrysene (SIM)	218-01-9	8270C [f]	--	--	--	9.2E-03	ca	1.0E-04
	Dibenzo(a,h)anthracene (SIM)	53-70-3	8270C [f]	--		--	**9.2E-06**	ca	1.0E-04
	Dibenzofuran	132-64-9	8270C [f]	--	--	--	1.2E-02	nc	1.0E-02
	Dichloromethyl ether	542-88-1	8270C [f]	--	--	--	--	--	TBD
	Diethyl phthalate	84-66-2	8270C [f]	--	--	--	2.9E+01	nc	1.0E-02
	Dimethyl phthalate	131-11-3	8270C [f]	--	--	--	3.6E+02	nc	1.0E-02
	Di-n-butyl phthalate	84-74-2	8270C [f]	--	--	--	3.6E+00	nc	1.0E-02
	Di-n-octyl phthalate	117-84-0	8270C [f]	--	--	--	1.5E+00	nc	1.0E-02
	Diphenyl disulfide	882-33-7	8270C [f]	--	--	--	--	--	TBD
	Diphenyl sulfide	139-66-2	8270C [f]	--	--	--	--	--	TBD
	Diphenyl sulfone	127-63-9	8270C [f]	--	--	--	1.1E-01	nc	TBD
	Fluoranthene	206-44-0	8270C [f]	--	--	4.2E-02	1.5E+00	nc	1.0E-03
	Fluorene	86-73-7	8270C [f]	--	--	--	2.4E-01	nc	1.0E-03
	Hexachlorobenzene (SIM)	118-74-1	8270C [f]	--	--	--	**4.2E-05**	ca	1.0E-04
	Hexachlorobutadiene	87-68-3	8270C [f]	--	--	--	**8.6E-04**	c	1.0E-02
	Hexachlorocyclopentadiene	77-47-4	8270C [f]	5.0E-02	--	--	2.2E-01	nc	1.0E-02
	Hexachloroethane	67-72-1	8270C [f]	--	--	--	**4.8E-03**	c	1.0E-02
	Hydroxymethyl phthalimide	118-29-6	8270C [f]	--	--	--	--	--	TBD
	Indeno(1,2,3-cd)pyrene (SIM)	193-39-5	8270C [f]	--	--	--	**9.2E-05**	ca	1.0E-04
	Isophorone	78-59-1	8270C [f]	--	--	--	7.1E-02	c	1.0E-02
	m,p-Cresol	106-44-5	8270C [f]	--	--	--	1.8E-01	nc	1.0E-02
	Naphthalene	91-20-3	8270C [f]	HEA[k]	--	--	6.2E-03	ca	1.0E-03
	Nitrobenzene	98-95-3	8270C [f]	--	--	--	**3.4E-03**	nc	1.0E-02
	N-nitrosodi-n-propylamine	621-64-7	8270C [f]	--	--	--	**9.6E-06**	c	1.0E-02
	N-nitrosodiphenylamine	86-30-6	8270C [f]	--	--	--	1.4E-02	c	1.0E-02
	o-Cresol	95-48-7	8270C [f]	--	--	--	1.8E+00	nc	1.0E-02
	Octachlorostyrene	29082-74-4	8270C [f]	--	--	--	--	--	TBD
	p-Chloroaniline (4-Chloroaniline)	106-47-8	8270C [f]	--	--	--	**1.5E-01**	nc	1.0E-02
	Pentachlorobenzene	608-93-5	8270C [f]	--	--	--	2.9E-02	nc	1.0E-02
	Pentachlorophenol	87-86-5	8270C [f]	1.0E-03	--	--	**5.6E-04**	c	2.0E-02
	Phenanthrene	85-01-8	8270C [f]	--	--	--	--	--	1.0E-03
	Phenol	108-95-2	8270C [f]	--	--	--	1.1E+01	nc	1.0E-02
	Phthalic acid	88-99-3	8270C [f]	--	--	--	3.7E+01	nc	TBD
	Pyrene	129-00-0	8270C [f]	--	--	--	1.8E-01	nc	1.0E-03

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Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: MCL [a] (mg/L) or (pCi/L)	Screening Levels: Secondary Standard [b] (mg/L) or (pCi/L)	Screening Levels: NAC Toxic Stds [c] (mg/L) or (pCi/L)	Screening Levels: Tap Water PRGs (mg/L)		Project Reporting Limits [d] (mg/L) or (pCi/L)
SVOCs continued	Pyridine	110-86-1	8270C [f]	--	--	--	**3.6E-02**	nc	2.5E+01
	Thiophenol	108-98-5	8270C [f]	--	--	--	--	--	TBD
	Tentatively Identified Compounds (TICs)		8270C [f]	--	--	--	--	--	NA
PCBs [x]	Aroclor-1016	12674-11-2	8082 [f]	**5.0E-04**	--	--	**9.6E-04**	ca	1.0E-03
	Aroclor-1221	11104-28-2	8082 [f]	**5.0E-04**	--	--	--	--	1.0E-03
	Aroclor-1232	11141-16-5	8082 [f]	**5.0E-04**	--	--	--	--	1.0E-03
	Aroclor-1242	53469-21-9	8082 [f]	**5.0E-04**	--	--	--	--	1.0E-03
	Aroclor-1248	12672-29-6	8082 [f]	**5.0E-04**	--	--	--	--	1.0E-03
	Aroclor-1254	11097-69-1	8082 [f]	**5.0E-04**	--	--	**3.4E-05**	ca*	1.0E-03
	Aroclor-1260	11096-82-5	8082 [f]	**5.0E-04**	--	--	--	--	1.0E-03
	PCB-77 (see 2,3,7,8-TCDD TEQ)	32598-13-3	8082 [f]	--	--	--	--	--	5.0E-07
	PCB-81 (see 2,3,7,8-TCDD TEQ)	70362-50-4	8082 [f]	--	--	--	--	--	5.0E-07
	PCB-105 (see 2,3,7,8-TCDD TEQ)	32598-14-4	8082 [f]	--	--	--	--	--	2.0E-07
	PCB-114 (see 2,3,7,8-TCDD TEQ)	74472-37-0	8082 [f]	--	--	--	--	--	5.0E-07
	PCB-118 (see 2,3,7,8-TCDD TEQ)	31508-00-6	8082 [f]	--	--	--	--	--	5.0E-07
	PCB-123 (see 2,3,7,8-TCDD TEQ)	65510-44-3	8082 [f]	--	--	--	--	--	5.0E-07
	PCB-126 (see 2,3,7,8-TCDD TEQ)	57465-28-8	8082 [f]	--	--	--	--	--	5.0E-07
	PCB-156 (see 2,3,7,8-TCDD TEQ)	38380-08-4	8082 [f]	--	--	--	--	--	5.0E-07
	PCB-157 (see 2,3,7,8-TCDD TEQ)	69782-90-7	8082 [f]	--	--	--	--	--	5.0E-07
	PCB-167 (see 2,3,7,8-TCDD TEQ)	52663-72-6	8082 [f]	--	--	--	--	--	5.0E-07
	PCB-169 (see 2,3,7,8-TCDD TEQ)	32774-16-6	8082 [f]	--	--	--	--	--	5.0E-07
	PCB-189 (see 2,3,7,8-TCDD TEQ)	39635-31-9	8082 [f]	--	--	--	--	--	5.0E-07
Petroleum Hydrocarbons	Gasoline	8006-61-9	8015M [f]	--	--	--	--	--	1.0E+00
	Diesel fuel	--	8015M [f]	--	--	--	--	--	1.0E+00
	Waste oil (hydraulic fluids, gear oil, and motor oil)	--	8015M [f]	--	--	--	--	--	1.0E+00
Radionuclides	**Radionuclides are reported in pCi/L; unless otherwise noted.**								
	Gross alpha	--	9310 [f]	**1.5E+01**	--	--	--	ca	3.00E+02
	Gross beta	--	9310 [f]	**4.0E+00 mR/yr**	--	--	--	ca	3.00E+02
	Cobalt-57	13981-50-5	Gamma/901.1	--	--	--	4.6E+01	c	2.50E+00
	Cobalt-60	10198-40-0	Gamma/901.1	--	--	--	**3.0E+00**	c	5.00E+00
	Potassium-40 (K-40)	013966-00-2	Gamma/ 901.1	--	--	--	**1.9E+00**	--	1.20E+02
	Uranium-238 Decay Series			--	--				
	Uranium-238 (U-238)	007440-61-1	ASTM D3972-90M	--	--	--	7.4E-01	--	2.00E-01
	Thorium-234 (Th-234)	015065-10-8	Gamma/ 901.1	--	--	--	**2.1E+00**	--	1.75E+02
	Protactinium-234 (Pa-234)	015100-28-4	Gamma/ 901.1[u]	--	--	--	**1.9E+01**	--	1.50E+03
	Uranium-234 (U-234)	013966-29-5	ASTM D3972-90M	--	--	--	6.7E-01	--	2.00E-01
	Thorium-230 (Th-230)	014269-63-7	ASTM D3972-90M	--	--	--	5.2E-01	--	2.00E-01
	Radium-226 (Ra-226)	013982-68-3	903.1	5.0E+00[z]	--	--	**8.2E-04**	--	1.00E+00

Table B-1: Project Analyte List for Groundwater
Generic Sampling and Analysis Plan

Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: MCL [a] (mg/L) or (pCi/L)	Screening Levels: Secondary Standard [b] (mg/L) or (pCi/L)	Screening Levels: NAC Toxic Stds [c] (mg/L) or (pCi/L)	Screening Levels: Tap Water PRGs (mg/L)		Project Reporting Limits [d] (mg/L) or (pCi/L)
Radionuclides continued	Radon-222 (Rn-222)	014859-67-7	LSC/SOP799	--	--	--	**1.3E+00**	--	5.00E+01
	Polonium-218 (Po-218)	015422-24-9	Calculated [t]	--	--	--	--	--	Calculated [t]
	Lead-214 (Pb-214)	015067-28-4	Gamma/ 901.1	--	--	--	1.4E+02	--	1.50E+01
	Bismuth-214 (Bi-214)	014733-03-0	Gamma/ 901.1	--	--	--	2.5E+02	--	2.50E+01
	Polonium-214 (Po-214)	015735-67-8	Calculated [r]	--	--	--	--	--	Calculated [r]
	Lead-210 (Pb-210)	014255-04-0	LSC/SOP726	--	--	--	**5.4E-02**	--	1.00E+00
	Bismuth-210 (Bi-210)	014331-79-4	Calculated [p]	--	--	--	5.3E+00	--	Calculated [p]
	Polonium-210 (Po-210)	013981-52-7	ASTM D3972-90M	--	--	--	**1.3E-01**	--	2.00E-01
	Lead-206 (stable; part of total lead)		See total metals	--	--	--	--	--	See total metals
	Thorium-232 Decay Series			--	--	--			
	Thorium-232 (Th-232)	007440-29-1	ASTM D3972-90M	--	--	--	4.7E-01	--	2.00E-01
	Radium-228 (Ra-228)	015262-20-1	904.0[x]	5.0E+00[z]	--	--	**4.6E-02**	--	1.00E+00
	Actinium-228 (Ac-228)	014381-83-0	Gamma/ 901.1	--	--	--	**2.4E+01**	--	3.50E+01
	Thorium-228 (Th-228)	014274-82-9	ASTM D3972-90M	--	--	--	4.5E-01	--	2.00E-01
	Radium-224 (Ra-224)	013233-32-4	Calculated [v]	--	--	--	9.5E-04	--	Calculated [v]
	Radon-220 (Rn-220)	022481-48-7	Calculated [y]	--	--	--	--	--	Calculated [y]
	Polonium-216 (Po-216)	015756-58-8	Calculated [s]	--	--	--	--	--	Calculated [s]
	Lead-212 (Pb-212)	015092-94-1	Gamma/ 901.1	--	--	--	**1.9E+00**	--	1.50E+01
	Bismuth-212 (Bi-212)	014913-49-6	Gamma/ 901.1	--	--	--	**6.7E+01**	--	1.00E+02
	Thallium-208 (Tl-208)	014913-50-9	Gamma/ 901.1	--	--	--	--	--	1.00E+01
	Polonium-212 (Po-212)	015389-34-1	Calculated [q]	--	--	--	--	--	Calculated [q]
	Lead-206 (stable; part of total lead)		See total metals	--	--	--	--	--	See total metals
	Uranium-235 Decay Series			--	--				
	Uranium-235 (U-235)	15117-96-1	ASTM D3972-90M	--	--	--	6.6E-01	--	2.00E-01
	Thorium-231 (Th-231)	--	Not analyzed	--	--	--	2.2E+01	--	NA
	Protactinium-231 (Pa-231)	--	Not analyzed	--	--	--	2.8E-01	--	NA
	Actinium-227 (Ac-227)	--	Not analyzed	--	--	--	2.4E-01	--	NA
	Thorium-227 (Th-227)	--	Not analyzed	--	--	--	1.0E+00	--	NA
	Radium-223 (Ra-223)	--	Not analyzed	--	--	--	2.0E-01	--	NA
	Radon-219 (Rn-219)	--	Not analyzed	--	--	--	--	--	NA
	Polonium-215 (Po-215)	--	Not analyzed	--	--	--	--	--	NA
	Lead-211 (Pb-211)	--	Not analyzed	--	--	--	1.2E+02	--	NA
	Bismuth-211 (Bi-211)	--	Not analyzed	--	--	--	--	--	NA
	Thallium-207 (Tl-207)	--	Not analyzed	--	--	--	--	--	NA
VOCs	1,1,1,2-Tetrachloroethane	630-20-6	8260B [f]	--	--	--	**4.3E-04**	c	5.0E-03
	1,1,1-Trichloroethane	71-55-6	8260B [f]	2.0E-01	--	2.0E-01	3.2E+00	nc	1.0E-03
	1,1,2,2-Tetrachloroethane	79-34-5	8260B [f]	--	--	--	**5.5E-05**	c	5.0E-03
	1,1,2-Trichloroethane	79-00-5	8260B [f]	5.0E-03	--	--	**2.0E-04**	ca	1.0E-03
	1,1-Dichloroethane (DCA)	75-34-3	8260B [f]	--	--	--	8.1E-01	nc	1.0E-03
	1,1-Dichloroethene	75-35-4	8260B [f]	7.0E-03	--	7.0E-03	3.4E-01	nc	1.0E-03
	1,1-Dichloropropene	563-58-6	8260B [f]	--	--	--	--	--	5.0E-03

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Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: MCL [a] (mg/L) or (pCi/L)	Secondary Standard [b] (mg/L) or (pCi/L)	NAC Toxic Stds [c] (mg/L) or (pCi/L)	Tap Water PRGs (mg/L)		Project Reporting Limits [d] (mg/L) or (pCi/L)
VOCs continued	1,2,3-Trichlorobenzene	87-61-6	8260B [f]	--	--	--	--	--	5.0E-03
	1,2,3-Trichloropropane	96-18-4	8260B [f]	--	--	--	**5.6E-06**	c	5.0E-03
	1,2,4-Trichlorobenzene	120-82-1	8260B [f]	7.0E-02	--	--	7.2E-03	nc	5.0E-03
	1,2,4-Trimethylbenzene	95-63-6	8260B [f]	--	--	--	1.2E-02	nc	5.0E-03
	1,2-Dichlorobenzene	95-50-1	8260B [f]	6.0E-01	--	--	3.7E-01	nc	5.0E-03
	1,2-Dichloroethane (DCA)	107-06-2	8260B [f]	5.0E-03	--	5.0E-03	**1.2E-04**	ca*	1.0E-03
	1,2-Dichloropropane	78-87-5	8260B [f]	5.0E-03	--	--	**1.6E-04**	ca*	1.0E-03
	1,3,5-Trichlorobenzene	108-70-3	8260B [f]	--	--	--	--	--	TBD
	1,3,5-Trimethylbenzene	108-67-8	8260B [f]	--	--	--	1.2E-02	nc	5.0E-03
	1,3-Dichlorobenzene	541-73-1	8260B [f]	--	--	4.0E-01	1.8E-01	nc	1.0E-03
	1,3-Dichloropropane	142-28-9	8260B [f]	--	--	--	1.2E-01	nc	5.0E-03
	1,4-Dichlorobenzene	106-46-7	8260B [f]	7.5E-02	--	--	5.0E-04	c	5.0E-03
	2,2-Dichloropropane	594-20-7	8260B [f]	--	--	--	--	--	5.0E-03
	2,2-Dimethylpentane	590-35-2	8260B [f]	--	--	--	--	--	TBD
	2,2,3-Trimethylbutane	464-06-2	8260B [f]	--	--	--	--	--	TBD
	2,3-Dimethylpentane	565-59-3	8260B [f]	--	--	--	--	--	TBD
	2,4-Dimethylpentane	108-08-7	8260B [f]	--	--	--	--	--	TBD
	2-Chlorotoluene	95-49-8	8260B [f]	--	--	--	1.2E-01	nc	5.0E-03
	2-Hexanone	591-78-6	8260B [f]	--	--	--	--	--	2.0E-02
	2-Methylhexane	591-76-4	8260B [f]	--	--	--	--	--	TBD
	2-Nitropropane	79-46-9	8260B [f]	--	--	--	1.2E-06	c	TBD
	3,3-Dimethylpentane	562-49-2	8260B [f]	--	--	--	--	--	TBD
	3-Ethylpentane	617-78-7	8260B [f]	--	--	--	--	--	TBD
	3-Methylhexane	589-34-4	8260B [f]	--	--	--	--	--	TBD
	4-Chlorotoluene	106-43-4	8260B [f]	--	--	--	--	--	5.0E-03
	2-Butanone (MEK)	78-93-3	8260B [f]	--	--	--	7.0E+00	nc	1.0E-02
	4-Methyl-2-pentanone (MIBK)	108-10-1	8260B [f]	--	--	--	2.0E+00	nc	1.0E-02
	Acetone	67-64-1	8260B [f]	--	--	--	5.5E+00	nc	1.0E-02
	Acetonitrile	75-05-8	8260B [f]	--	--	--	1.0E-01	nc	5.0E-02
	Benzene	71-43-2	8260B [f]	5.0E-03	--	5.0E-03	**3.5E-04**	ca*	1.0E-03
	Bromobenzene	108-86-1	8260B [f]	--	--	--	2.0E-02	nc	5.0E-03
	Bromodichloromethane	75-27-4	8260B [f]	--	--	--	**1.8E-04**	ca	1.0E-03
	Bromoform (tribromomethane)	75-25-2	8260B [f]	--	--	--	8.5E-03	ca*	1.0E-03
	Bromomethane (Methyl bromide)	74-87-3	8260B [f]	--	--	--	8.7E-03	nc	1.0E-03
	Carbon Disulfide	75-15-0	8260B [f]	--	--	--	1.0E+00	nc	1.0E-03
	Carbon Tetrachloride	56-23-5	8260B [f]	5.0E-03	--	5.0E-03	**1.7E-04**	ca*	1.0E-03
	Chlorobenzene	108-90-7	8260B [f]	1.0E-01	--	4.9E-01	1.1E-01	nc	1.0E-03
	Chlorobromomethane	74-97-5	8260B [f]	--	--	--	--	--	5.0E-01
	Chloroethane	75-00-3	8260B [f]	--	--	--	**4.6E-03**	c	5.0E-03

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Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: MCL [a] (mg/L) or (pCi/L)	Screening Levels: Secondary Standard [b] (mg/L) or (pCi/L)	Screening Levels: NAC Toxic Stds [c] (mg/L) or (pCi/L)	Screening Levels: Tap Water PRGs (mg/L)		Project Reporting Limits [d] (mg/L) or (pCi/L)
VOCs continued	Chloroform	67-66-3	8260B [f]	--	--	--	**1.7E-04**	ca	1.0E-03
	Chloromethane (Methyl chloride)	74-87-3	8260B [f]	--	--	--	1.6E-01	nc	1.0E-03
	cis-1,2-Dichloroethene	156-59-2	8260B [f]	7.0E-02	--	--	6.1E-02	nc	1.0E-03
	cis-1,3-Dichloropropene	10061-01-5	8260B [f]	--	--	--	**4.0E-04**	c	5.0E-03
	Cymene (Isopropyltoluene)	99-87-6	8260B [f]	--	--	--	--	--	TBD
	Dibromochloroethane	73506-94-2	8260B [f]	--	--	--	--	--	TBD
	Dibromochloromethane	124-48-1	8260B [f]	--	--	--	**1.3E-04**	ca	1.0E-03
	Dibromochloropropane	96-12-8	8260B [f]	2.0E-04	--	--	4.8E-05	c	TBD
	Dibromomethane	74-95-3	8260B [f]	--	--	--	6.1E-02	nc	5.0E-03
	Dimethyldisulfide	624-92-0	8260B [f]	--	--	--	--	--	TBD
	Ethanol	64-17-5	8260B [f]	--	--	--	--	--	TBD
	Ethylbenzene	100-41-4	8260B [f]	7.0E-01	--	1.4E+00	1.3E+00	nc	1.0E-03
	Freon-113 (1,1,2-Trifluoro-1,2,2-trichloroethane)	76-13-1	8260B [f]	--	--	--	5.9E+01	nc	TBD
	Freon-12 (Dichlorodifluoromethane)	75-71-8	8260B [f]	--	--	--	3.9E-01	nc	5.0E-03
	Heptane	142-82-5	8260B [f]	--	--	--	--	--	TBD
	Isoheptane	31394-54-4	8260B [f]	--	--	--	--	--	TBD
	Isopropylbenzene	98-82-8	8260B [f]	--	--	--	6.6E-01	nc	5.0E-03
	Methylene chloride	75-09-2	8260B [f]	--	--	--	**4.3E-03**	ca	1.0E-03
	Methyl iodide	74-88-4	8260B [f]	--	--	--	--	--	TBD
	MTBE (Methyl tert-butyl ether)	1634-04-4	8260B [f]	--	--	--	6.2E-03	c	5.0E-01
	n-Butylbenzene	104-51-8	8260B [f]	--	--	--	2.4E-01	nc	5.0E-03
	n-Propylbenzene	103-65-1	8260B [f]	--	--	--	2.4E-01	nc	5.0E-03
	Nonanal	124-19-6	8260B [f]	--	--	--	--	--	TBD
	sec-Butylbenzene	135-98-8	8260B [f]	--	--	--	2.4E+02	nc	5.0E-03
	Styrene	100-42-5	8260B [f]	1.0E-01	--	--	1.6E+00	nc	1.0E-03
	tert-Butylbenzene	98-06-6	8260B [f]	--	--	--	2.4E-01	nc	5.0E-03
	Tetrachloroethylene (PCE)	127-18-4	8260B [f]	5.0E-03	--	--	**1.0E-04**	ca	1.0E-03
	Toluene	108-88-3	8260B [f]	1.0E+00	--	1.4E+01	7.2E-01	nc	1.0E-03
	trans-1,2-Dichloroethene	156-60-5	8260B [f]	1.0E-01	--	--	1.2E-01	nc	1.0E-03
	trans-1,3-Dichloropropene	10061-02-6	8260B [f]	--	--	--	**4.0E-04**	c	5.0E-03
	Trichloroethylene (TCE)	79-01-6	8260B [f]	5.0E-03	--	5.0E-03	**2.8E-06**	ca	1.0E-03
	Trichlorofluoromethane	75-69-4	8260B [f]	--	--	--	1.3E+00	nc	1.0E-03
	Vinyl acetate	108-05-4	8260B [f]	--			4.1E-01	nc	2.0E-02
	Vinyl chloride (adult)	75-01-4	8260B [f]	--	--	--	--	--	1.0E-03
	Vinyl chloride (child/adult)	75-01-4	8260B [f]	2.0E-03	--	2.0E-03	**2.0E-05**	ca	1.0E-03
	Xylenes (total)	1330-20-7	8260B [f]	1.0E+01	--	--	2.1E-01	nc	2.0E-03
	Tentatively Identified Compounds (TICs)		8260B [f]	--	--	--	--	--	NA

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Water Quality Indicators	Bicarbonate alkalinity	--	310.1 [e]	--	--	--	--	--	5.0E+00
	Conductivity (umhos/cm)	COND	120.1	--	--	--	--	--	2.0E+00
	Hardness, total	Hardness	130.2	--	--	--	--	--	2.0E+03
	Total suspended solids	TSS	160.2	--	--	--	--	--	5.0E+03
	Alkalinity, Total (as CACO3)	ALK	310.1	--	--	--	--	--	2.0E+03
	Carbonate alkalinity	3812-32-6	310.1 Mod [e]	--	--	--	--	--	5.0E+00
	Hydroxide alkalinity	OH-ALK	310.1 Mod [e]	--	--	--	--	--	5.0E+00
	Total dissolved solids	--	160.1 [e]	--	5E+02	--	--	--	2.0E+01
Dissolved Gases	Ethane	74-84-0	RSK 175 [cc]	--	--	--	--	--	5.0E+00
	Ethylene	74-85-1	RSK 175 [cc]	--	--	--	--	--	5.0E+00
	Methane	74-82-8	RSK 175 [cc]	--	--	--	--	--	5.0E+00
Chlorinated Compounds	Chloral	75-87-6	551.1	--	--	--	--	--	1.0E+02
	Dichloroacetaldehyde	79-02-7	551.1	--	--	--	--	--	1.0E+02
Organo-phosphorus Pesticides	Azinphos-ethyl	264-27-19	8141A [f]	--	--	--	--	--	5.0E-01
	Azinphos-methyl	86-50-0	8141A [f]	--	--	--	--	--	2.0E-03
	Carbophenothion	786-19-6	8141A [f]	--	--	--	--	--	5.0E-01
	Chlorpyrifos	2921-88-2	8141A [f]	--	--	--	1.1E-01	nc	1.0E-03
	Coumaphos	56-72-4	8141A [f]	--	--	--	--	--	2.0E-03
	Demeton-O	298-03-3	8141A [f]	--	--	--	1.5E-03	nc	1.0E-03
	Demeton-S	126-75-0	8141A [f]	--	--	--	1.5E-03	nc	1.0E-03
	Diazinon	333-41-5	8141A [f]	--	--	--	3.3E-02	nc	1.0E-03
	Dichlorvos	62-73-7	8141A [f]	--	--	--	**2.3E-04**	c	1.0E-03
	Dimethoate	60-51-5	8141A [f]	--	--	--	**7.3E-03**	nc	5.0E-01
	Disulfoton	298-04-4	8141A [f]	--	--	--	**1.5E-03**	nc	4.0E-03
	EPN	2104-64-5	8141A [f]	--	--	--	**3.6E-04**	nc	2.0E-01
	Ethoprop	13194-48-4	8141A [f]	--	--	--	--	--	1.0E-03
	Ethyl parathion	56-38-2	8141A [f]	--	--	--	**2.2E-01**	nc	5.0E-01
	Fampphur	52-85-7	8141A [f]	--	--	--	--	--	1.0E+00
	Fenthion	55-38-9	8141A [f]	--	--	--	--	--	1.0E-03
	Malathion	121-75-5	8141A [f]	--	--	--	7.3E-01	nc	2.0E-01
	Methyl carbophenothion	953-17-3	8141A [f]	--	--	--	--	--	1.0E+00
	Methyl parathion	298-00-0	8141A [f]	--	--	--	9.1E-03	nc	1.0E-03
	Mevinphos	7786-34-7	8141A [f]	--	--	--	--	--	1.0E-03
	Naled	300-76-5	8141A [f]	--	--	--	7.3E-02	nc	3.0E-03
	O,O,O-Triethyl phosphorothioate (TEPP)	297-97-2	8141A [f]	--	--	--	--	--	1.0E+00
	Phorate	298-02-2	8141A [f]	--	--	--	7.3E-03	nc	1.0E-03
	Phosmet	732-11-6	8141A [f]	--	--	--	7.3E-01	nc	1.0E+00
	Ronnel	299-84-3	8141A [f]	--	--	--	1.8E+00	nc	1.0E-03
	Stirophos (Tetrachlorovinphos)	22248-79-9	8141A [f]	--	--	--	2.8E-03	--	1.0E-03
	Sulfotep	3689-24-5	8141A [f]	--	--	--	**1.8E-02**	nc	5.0E-02

Table B-1: Project Analyte List for Groundwater
Generic Sampling and Analysis Plan

Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: MCL [a] (mg/L) or (pCi/L)	Screening Levels: Secondary Standard [b] (mg/L) or (pCi/L)	Screening Levels: NAC Toxic Stds [c] (mg/L) or (pCi/L)	Screening Levels: Tap Water PRGs (mg/L)		Project Reporting Limits [d] (mg/L) or (pCi/L)
Organic acids	4-Chlorobenzene sulfonic acid	98-66-8	HPLC	--	--	--	--	--	5.0E+00
	Benzenesulfonic acid	98-11-3	HPLC	--	--	--	--	--	5.0E+00
	O,O-Diethylphosphorodithioic acid	298-06-6	HPLC	--	--	--	--	--	5.0E+00
	O,O-Dimethylphosphorodithioic acid	756-80-9	HPLC	--	--	--	--	--	5.0E+00
Non-halogenated Organics	Ethylene glycol	107-21-1	8015B [f]	--	--	--	7.3E+01	nc	1.0E+00
	Ethylene glycol monobutyl ether	111-76-2	8015B [f]	--	--	--	1.8E+01	nc	1.0E+00
	Methanol	67-56-1	8015B [f]	--	--	--	1.8E+01	nc	1.0E+00
	Propylene glycol	57-55-6	8015B [f]	--	--	--	1.8E+01	nc	1.0E+00
Aldehydes	Acetaldehyde	75-07-0	8315A [f]	--	--	--	**1.7E-03**	c	1.0E+02
	Chloroacetaldehyde	107-20-0	8315A [f]	--	--	--	--	--	1.0E+02
	Dichloroacetaldehyde	79-02-7	8315A [f]	--	--	--	--	--	1.0E+02
	Formaldehyde	50-00-0	8315A [f]	--	--	--	**5.5E+00**	nc	1.0E+02
	Trichloroacetaldehyde	75-87-6	8315A [f]	--	--	--	--	--	1.0E+02
Flashpoint	Flammables	NA	1010 [f]	--	--	--	--	--	NA
White Phosphorus	White phosphorus	12185-10-3	7580 Mod [f]	--	--	--	--	--	1.0E+03
Methyl Mercury	Methyl mercury	22967-92-6	1630	--	--	--	--	--	1.0E-04
Miscellaneous	Asbestos	1332-21-4	100.2 [aa]	7.0E+00 MFL	--	--	--	--	1.0E+00 MFL

Notes:

a MCL values are taken form http://www.epa.gov/safewater/mcl.html.
b Secondary drinking water standard values are taken from http://www.epa.gov/safewater/mcl.html.
c The lower of the domestic, aquatic, irrigation, or livestock beneficial use toxicity standards from the Nevada Administrative Code at: http://www.leg.state.nv.us/NAC/NAC-445A.html#NAC445ASec144.
d Groundwater reporting limits that are greater than one-half the screening values are highlighted. The screening value exceeded is indicated by bold font.
e Analytical methods taken from MCAWW (EPA 1983).
f Analytical methods taken from SW-846 (EPA 2004e).
g Equation for chronic exposure cadmium aquatic toxicity is 0.85 exp(0.7852 ln(H) - 3.490)
h Equation for chronic exposure chromium III aquatic toxicity is 0.85 exp(0.8190 ln(H) + 1.561)
i Equation for chronic exposure copper aquatic toxicity is 0.85 exp(0.8545 ln(H) - 1.465)
j Equation for chronic exposure lead aquatic toxicity is 0.25 exp(1.273 ln(H) - 4.705)
k HEA taken from http://www.epa.gov/safewater/dw_unregcontaminants.html.
l Equation for chronic exposure nickel aquatic toxicity is 0.85 exp(0.8460 ln(H) + 1.1645)
m Equation for chronic exposure silver aquatic toxicity is 0.85 exp(1.72 ln(H) - 6.52)
n Equation for chronic exposure zinc aquatic toxicity is 0.85 exp(0.8473 ln(H) + 0.7614)
o Highlighted rows indicate compounds for which method detection limits have not been established by project laboratories.
p Bi-210 is assumed to be in secular equilibrium with Pb-210. See Pb-210 results.
q Po-212 has no useful gamma emissions. Refer to the Th-228 parent results and assume secular equilibrium.
r Po-214 has no useful gamma emissions. Refer to the Pb-214 or Bi-214 parent results and assume secular equilibrium.
s Po-216 has a 0.15 m half-life. Direct quantification by alpha spec is not possible. Refer to the Th-228 parent or the Pb-212 progeny results and assume secular equilibrium.
t Po-218 has a 3 m half-life. Direct quantification by alpha spec is not possible. Refer to the Ra-226 parent or the Pb-214 progeny results and assume secular equilibrium.
u Pa-234 is typically used to evaluate the natural decay chain; MDC = 1500 pCi/L in waters. While Pa-234 has lower detection limits when analyzed directly, the very low branching ratio (approx 0.2%) makes it more difficult to detect.
v Ra-224 can be analyzed directly by gamma spec, resulting in a very high MDC and subject to interference from Pb-214. Ra-224 will be calculated from the Th-228 parent or the Pb-212 progeny results and assuming secular equilibrium.
w EPA Methods 903.1 and 904.0
x Decachlorobiphenyl can be quantified with method modifications.

Notes continued:

x	Ra-228 is quantified by the gamma emissions of the Ac-228 progeny in secular equilibrium. See Ac-228.
y	Rn-220 is not directly quantifiable. Refer to the Th-228 parent or the Pb-212 progeny results and assume secular equilibrium.
z	MCL takes into account Radium 226 and Radium 228 combined.
aa	EPA Method 100.2 (EPA 1994)
bb	EPA Method 1664 (EPA 1999)
cc	R. S. Kerr Environmental Research Center, Method RSK-175.

--	Information not available	mg/L	Milligrams per liter
ASTM	American Society of Testing and Materials	mR/yr	Millirem per year
ca	Cancer PRG	NA	Not applicable
ca*	Where nc< 100x ca	nc	Noncancer PRG
ca**	Where nc< 10x ca	NAC	Nevada Administrative Code
CAS	Chemical Abstracts Service	pCi/L	Picocurie per liter
EPA	U.S. Environmental Protection Agency	PAH	Polycyclic aromatic hydrocarbons
exp	Exponential	PCB	Polychlorinated biphenyl
H	Hardness	PRG	Preliminary remediation goal
HEA	Health effects assessment	µg/L	Micrograms per liter
ICP	Inductively coupled plasma	Sat	Soil saturation
In(H)	Natural log of hardness	SIM	Selective ion monitoring
max	Ceiling limit	SVOC	Semivolatile organic compound
MCAWW	Methods for Chemical Analysis of Water and Waste	TBD	To be determined
MCL	Maximum concentration level	TEQ	Toxicity equivalent
MFL	Million fibers per liter	VOC	Volatile organic compound

Sources:

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EPA. 1999. "Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil and Grease) and Silica Gel Treated N-Hexane Extractable Material by Extraction and Gravimetry" EPA 821/R-98-002. February.
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EPA. 2004. "Drinking Water MCLs." May (http://www.epa.gov/safewater/mcl.html)
EPA. 2004. "Unregulated Drinking Water Contaminants" June (http://www.epa.gov/safewater/dw_unregcontaminants.html)
NAC. Chapter 445A Water Controls Section 144 Standards for Toxic Materials Applicable to Designated Waters (http://www.leg.state.nv.us/NAC/NAC-445A.html#NAC445ASec144)

Table B-2: Project Analyte List for Soil
Generic Sampling and Analysis Plan

Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: Industrial or Outdoor Worker PRG[a] (mg/kg) or (pCi/g)		Screening Levels: Migration to Ground Water DAF 20[b] (mg/kg) or (pCi/g)	Screening Levels: Migration to Ground Water DAF 1[c] (mg/kg) or (pCi/g)	XRF Detection Limits (ppm)	Project Reporting Limits [d] (mg/kg) or (pCi/g)
Anions	Bromide/bromine	24959-67-9	300.1 Mod [e]	--	--	--	--	NA	2.0E+00
	Chlorate	14866-68-3	300.1 Mod [e]	--	--	--	--	NA	2.0E+01
	Chloride/chlorine	16887-00-6	300.1 Mod [e]	--	--	--	--	NA	2.0E+00
	Chlorite	14998-27-7	300.1 Mod [e]	--	--	--	--	NA	2.0E+01
	Fluoride	16984-48-8	300.1 Mod [e]	3.7E+04	nc	--	--	NA	1.0E+00
	Nitrate (as nitrogen)	14797-55-8	300.1 Mod [e]	--	--	--	--	NA	2.0E+00
	Nitrite (as nitrogen)	14797-65-0	300.1 Mod [e]	--	--	--	--	NA	2.0E+00
	Orthophosphate	14265-44-2	300.1 Mod [e]	--	--	--	--	NA	5.0E-02
	Sulfate	14808-79-8	300.1 Mod [e]	--	--	--	--	NA	1.0E+01
	Sulfite	14265-45-3	377.1 Mod [e]	--	--	--	--	NA	2.0E+00
	Perchorate	14808-79-8	314.0 Mod [e]	1.0E+02	ca/nc	--	--	NA	1.0E+00
Dioxins/ Furans	2,3,7,8-TCDD	1746-01-6	8290 [f]	1.6E-05	ca	--	--	NA	1.0E-06
	1,2,3,7,8-PeCDD	40321-76-4	8290 [f]	--		--	--	NA	5.0E-06
	1,2,3,6,7,8-HxCDD	57653-85-7	8290 [f]	--		--	--	NA	5.0E-06
	1,2,3,4,7,8-HxCDD	39227-28-6	8290 [f]	--		--	--	NA	5.0E-06
	1,2,3,7,8,9-HxCDD	19408-74-3	8290 [f]	--		--	--	NA	5.0E-06
	1,2,3,4,6,7,8-HpCDD	35822-46-9	8290 [f]	--		--	--	NA	5.0E-06
	OCDD	3268-87-9	8290 [f]	--		--	--	NA	1.0E-05
	2,3,7,8-TCDF	51207-31-9	8290 [f]	--		--	--	NA	1.0E-06
	1,2,3,7,8-PeCDF	57117-41-6	8290 [f]	--		--	--	NA	5.0E-06
	2,3,4,7,8-PeCDF	57117-31-4	8290 [f]	--		--	--	NA	5.0E-06
	1,2,3,6,7,8-HxCDF	57117-44-9	8290 [f]	--		--	--	NA	5.0E-06
	1,2,3,7,8,9-HxCDF	72918-21-9	8290 [f]	--		--	--	NA	5.0E-06
	1,2,3,4,7,8-HxCDF	70648-26-9	8290 [f]	--		--	--	NA	5.0E-06
	2,3,4,6,7,8-HxCDF	60851-34-5	8290 [f]	--		--	--	NA	5.0E-06
	1,2,3,4,6,7,8-HpCDF	67562-39-4	8290 [f]	--		--	--	NA	5.0E-06
	1,2,3,4,7,8,9-HpCDF	55673-89-7	8290 [f]	--		--	--	NA	5.0E-06
	OCDF	39001-02-0	8290 [f]	--		--	--	NA	1.0E-05
General Chemistry Parameters	Ammonia (as N)	7664-41-7	350.2 Mod	--	--	--	--	NA	1.0E+00
	Cyanide (Total)	57-12-5	335.2	1.2E+04	nc	--	--	NA	5.0E-01
	Iodine [q]	7553-56-2	345.1 Mod	--	--	--	--	NA	TBD
	pH	pH	9045C	--	--	--	--	NA	0.1 unit
	Sulfide	18496-25-8	376.2	--	--	--	--	NA	TBD
	Total inorganic carbon (%)	7440-44-0	Mod. 415.1	--	--	--	--	NA	5.0E-02
	Total Kjeldahl nitrogen (TKN)	TKN	351.2	--	--	--	--	NA	2.0E+01
	Total organic carbon (TOC) (%)	7440-44-0	EPA 415.1	--	--	--	--	NA	5.0E-02

Table B-2: Project Analyte List for Soil
Generic Sampling and Analysis Plan

Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: Industrial or Outdoor Worker PRG[a] (mg/kg) or (pCi/g)		Screening Levels: Migration to Ground Water DAF 20[b] (mg/kg) or (pCi/g)	Screening Levels: Migration to Ground Water DAF 1[c] (mg/kg) or (pCi/g)	XRF Detection Limits (ppm)	Project Reporting Limits [d] (mg/kg) or (pCi/g)
Metals	Aluminum	7429-90-5	6010B [f]	1.0E+05	max	--	--	NA	4.0E+01
	Antimony	7440-36-0	6010B [f]	4.1E+02	nc	5.0E+00	**3.0E-01**	NA	4.0E+00
	Arsenic (cancer endpoint)	7440-38-2	6020 [f]	1.6E+00	ca	2.9E+01	1.0E+00	10-100	2.0E-01
	Barium	7440-39-3	6010B [f]	6.7E+04	nc	1.6E+03	8.2E+01	50-150	2.0E+01
	Beryllium	7440-41-7	6010B [f]	1.9E+03	ca**	6.3E+01	3.0E+00	NA	1.0E+00
	Boron	7440-42-8	6010B f	1.0E+05	max	--	--	NA	1.0E+01
	Cadmium	7440-43-9	6010B [f]	4.5E+02	nc	8.0E+00	**4.0E-01**	50-150	1.0E+00
	Calcium	7440-70-2	6010B [f]	--	--	--	--	NA	2.0E+02
	Total chromium (1:6 ratio of Cr VI:Cr III)	7440-47-3	6010B [f]	4.5E+02	ca	3.8E+01	2.0E+00	10-100	1.0E+00
	Chromium VI	18540-29-9	3060A/7196 [f]	6.4E+01	ca	3.8E+01	2.0E+00	NA	5.0E-01
	Chromium III	16065-83-1	Calculated	1.0E+05	max	--	--	NA	1.0E+00
	Cobalt	7440-48-4	6010B [f]	1.9E+03	ca*	--	--	NA	2.0E+00
	Copper	7440-50-8	6010B [f]	4.1E+04	nc	--	--	10-100	2.0E+00
	Iron	7439-89-6	6010B [f]	1.0E+05	max	--	--	10-100	2.0E+01
	Lead	7439-92-1	6010B [f]	8.0E+02	nc	--	--	10-100	6.0E-01
	Lithium	7439-93-2	6010B [f]	2.0E+04	nc	--	--	NA	4.0E+00
	Magnesium	7439-95-4	6010B [f]	--	--	--	--	NA	2.0E+02
	Manganese	7439-96-5	6010B [f]	1.9E+04	nc	--	--	10-100	2.0E+00
	Mercury	7487-94-7	7471B [f]	3.1E+02	nc	--	--	NA	1.0E-01
	Molybdenum	7439-98-7	6010B [f]	5.1E+03	nc	--	--	NA	5.0E+00
	Nickel (soluble salts)	7440-02-0	6010B [f]	2.0E+04	nc	1.3E+02	7.0E+00	NA	3.0E+00
	Niobium	7440-03-1	6010B/6020	--	--	--	--	NA	TBD
	Palladium & Platinum	7440-05-3	6010B/6020	--	--	--	--	NA	TBD
	Phosphorus (total phosphate)	7723-14-0	365.2 Mod [e]	2.0E+01	nc	--	--	NA	1.0E-02
	Potassium	7440-09-7	6010B [f]	--	--	--	--	NA	2.0E+02
	Selenium	7782-49-2	6010B [f]	5.1E+03	nc	5.0E+00	**3.0E-01**	NA	1.0E+00
	Silicon	7440-21-3	6010B [f]	--	--	--	--	NA	1.6E+02
	Silver	7440-22-4	6010B [f]	5.1E+03	nc	3.4E+01	2.0E+00	NA	1.0E+00
	Sodium	7440-23-5	6010B [f]	--	--	--	--	NA	2.0E+02
	Strontium	7440-24-6	6010B f	1.0E+05	max	--	--	NA	1.0E+00
	Sulfur	7704-34-9	6010B f	--	--	--	--	NA	2.0E+01
	Thallium	7446-18-6	6010B [f]	6.7E+01	nc	--	--	10-100	2.0E+00
	Tin (inorganic)	7440-31-5	6010B [f]	1.0E+05	max	--	--	Not analyzed	1.0E+01
	Titanium	7440-32-6	6010B [f]	1.0E+05	max	--	--	10-100	4.0E+00
	Tungsten	7440-33-7	6010B [f]	--	--	--	--	Not analyzed	TBD
	Total Uranium	7440-61-0	6020 [f]	2.0E+02	nc	--	--	10-100	1.0E-01
	Vanadium	7440-62-2	6010B [f]	1.0E+03	nc	6.0E+03	3.0E+02	10-100	2.0E+00
	Zinc	7440-66-6	6010B [f]	1.0E+05	max	1.2E+04	6.2E+02	10-100	4.0E+00
	Zirconium	7440-67-7	6020 [f]	--	--	--	--	Not analyzed	TBD

Table B-2: Project Analyte List for Soil
Generic Sampling and Analysis Plan

Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: Industrial or Outdoor Worker PRG[a] (mg/kg) or (pCi/g)		Screening Levels: Migration to Ground Water (mg/kg) or (pCi/g): DAF 20[b]	DAF 1[c]	XRF Detection Limits (ppm)	Project Reporting Limits[d] (mg/kg) or (pCi/g)
Organochlorine Pesticides	2,4-DDD	53-19-0	8081A [f]	--	--	--	--	NA	3.3E-03
	2,4-DDE	3424-82-6	8081A [f]	--	--	--	--	NA	3.3E-03
	4,4'-DDD	72-54-8	8081A [f]	1.0E+01	ca	1.6E+01	8.0E-01	NA	3.3E-03
	4,4'-DDE	72-55-9	8081A [f]	7.0E+00	ca	5.4E+01	3.0E+00	NA	3.3E-03
	4,4'-DDT	50-29-3	8081A [f]	7.0E+00	ca*	3.2E+01	2.0E+00	NA	3.3E-03
	Aldrin	309-00-2	8081A [f]	1.0E-01	c	5.0E-01	2.0E-02	NA	1.7E-03
	alpha-BHC	319-84-6	8081A [f]	3.6E-01	c	**5.0E-04**	**3.0E-05**	NA	1.7E-03
	alpha-Chlordane	5103-71-9	8081A [f]	6.5E+00	c	1.0E+01	5.0E-01	NA	1.7E-03
	beta-BHC	319-85-7	8081A [f]	1.3E+00	c	3.0E-03	**1.0E-04**	NA	1.7E-03
	Chlordane	57-74-9	8081A [f]	6.5E+00	c	1.0E+01	5.0E-01	NA	3.3E-02
	delta-BHC	319-86-8	8081A [f]	--	--	--	--	NA	1.7E-03
	Dieldrin	60-57-1	8081A [f]	1.1E-01	c	4.0E-03	**2.0E-04**	NA	1.7E-03
	Endosulfan I	959-98-8	8081A [f]	3.7E+03	nc	1.8E+01	9.0E-01	NA	1.7E-03
	Endosulfan II	33213-65-9	8081A [f]	3.7E+03	nc	1.8E+01	9.0E-01	NA	1.7E-03
	Endosulfan sulfate	1031-07-8	8081A [f]	--	--	--	--	NA	1.7E-03
	Endrin	72-20-8	8081A [f]	1.8E+02	nc	1.0E+00	5.0E-02	NA	1.7E-03
	Endrin aldehyde	7421-93-4	8081A [f]	--	--	--	--	NA	1.7E-03
	Endrin ketone	53494-70-5	8081A [f]	--	--	--	--	NA	1.7E-03
	gamma-BHC (Lindane)	58-89-9	8081A [f]	1.7E+00	c	9.0E-03	**5.0E-04**	NA	1.7E-03
	gamma-Chlordane	5103-74-2	8081A [f]	6.5E+00	c	1.0E+01	5.0E-01	NA	1.7E-03
	Heptachlor	76-44-8	8081A [f]	3.8E-01	c	2.3E+01	1.0E+00	NA	1.7E-03
	Heptachlor epoxide	1024-57-3	8081A [f]	1.9E-01	c	7.0E-01	3.0E-02	NA	1.7E-03
	Methoxychlor	72-43-5	8081A [f]	3.1E+03	nc	1.6E+02	8.0E+00	NA	8.3E-03
	Toxaphene	8001-35-2	8081A [f]	1.6E+00	c	3.1E+01	2.0E+00	NA	8.3E-02
Chlorinated Herbicides	2,4,5-T	93-76-5	8151A	6.2E+03	nc	--	--	NA	3.3E-03
	2,4,5-TP (Silvex)	93-72-1	8151A	4.9E+03	nc	--	--	NA	3.3E-03
	2,4-D	94-75-7	8151A	7.7E+03	nc	--	--	NA	3.3E-02
	2,4-DB	94-82-6	8151A	4.9E+03	nc	--	--	NA	3.3E-02
	Dalapon	75-99-0	8151A	1.8E+04	nc	--	--	NA	1.3E-01
	Dicamba	1918-00-9	8151A	1.8E+04	nc	--	--	NA	6.7E-03
	Dichloroprop	120-36-5	8151A	--	--	--	--	NA	3.3E-02
	Dinoseb	88-85-7	8151A	6.2E+02	nc	--	--	NA	3.3E-02
	MCPA	94-74-6	8151A	3.1E+02	nc	--	--	NA	3.3E+00
	MCPP	93-65-2	8151A	6.2E+02	nc	--	--	NA	3.3E+00
SVOCs (including PAHs)	1,2,4,5-Tetrachlorobenzene	95-94-3	8270C [f]	1.8E+02	nc	--	--	NA	3.3E-01
	1,2-Diphenylhydrazine	122-66-7	8270C [f]	2.2E+00	c	--	--	NA	3.3E-01
	1,4-Dioxane	123-91-1	8270C [f]	1.6E+02	c	--	--	NA	3.3E-01
	2,4,5-Trichlorophenol	95-95-4	8270C [f]	6.2E+04	nc	2.7E+02	1.4E+01	NA	3.3E-01
	2,2'-Dichlorobenzil	3457-46-3	8270C [f]	--	--	--	--	NA	TBD

Table B-2: Project Analyte List for Soil
Generic Sampling and Analysis Plan

Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: Industrial or Outdoor Worker PRG[a] (mg/kg) or (pCi/g)		Migration to Ground Water (mg/kg) or (pCi/g): DAF 20[b]	Migration to Ground Water (mg/kg) or (pCi/g): DAF 1[c]	XRF Detection Limits (ppm)	Project Reporting Limits[d] (mg/kg) or (pCi/g)
SVOCs continued	2,4,6-Trichlorophenol	88-06-2	8270C [f]	6.2E+01	nc	**2.0E-01**	**8.0E-03**	NA	3.3E-01
	2,4-Dichlorophenol	120-83-2	8270C [f]	1.8E+03	nc	1.0E+00	**5.0E-02**	NA	3.3E-01
	2,4-Dimethylphenol	105-67-9	8270C [f]	1.2E+04	nc	9.0E+00	4.0E-01	NA	3.3E-01
	2,4-Dinitrophenol	51-28-5	8270C [f]	1.2E+03	nc	**3.0E-01**	**1.0E-02**	NA	6.6E-01
	2,4-Dinitrotoluene	121-14-2	8270C [f]	2.5E+00	c	**8.0E-04**	**4.0E-05**	NA	3.3E-01
	2,6-Dinitrotoluene	606-20-2	8270C [f]	2.5E+00	c	**7.0E-04**	**3.0E-05**	NA	3.3E-01
	2-Chloronaphthalene	91-58-7	8270C [f]	2.3E+04	nc	--	--	NA	3.3E-01
	2-Chlorophenol	95-57-8	8270C [f]	2.4E+02	nc	4.0E+00	**2.0E-01**	NA	3.3E-01
	2-Methylnaphthalene	91-57-6	8270C [f]	--	--	--	--	NA	3.3E-01
	2-Nitroaniline	88-74-4	8270C [f]	1.8E+03	nc	--	--	NA	6.6E-01
	2-Nitrophenol	88-75-5	8270C [f]	--	--	--	--	NA	3.3E-01
	3,3-Dichlorobenzidine	91-94-1	8270C [f]	3.8E+00	c	**7.0E-03**	**3.0E-04**	NA	3.3E-01
	3-Nitroaniline	99-09-2	8270C [f]	8.2E+01	c	--	--	NA	6.6E-01
	4,4'-Dichlorobenzil	3457-46-3	8270C [f]	--	--	--	--	NA	TBD
	4-Bromophenyl phenyl ether	101-55-3	8270C [f]	--	--	--	--	NA	3.3E-01
	4-Chloro-3-methylphenol	59-50-7	8270C [f]	--	--	--	--	NA	3.3E-01
	4-Chlorophenyl phenyl ether	7005-72-3	8270C [f]	--	--	--	--	NA	3.3E-01
	4-Chlorothioanisole	123-09-1	8270C [f]	--	--	--	--	NA	TBD
	4-Chlorothiophenol	106-54-7	8270C [f]	--	--	--	--	NA	TBD
	4-Nitroaniline	100-01-6	8270C [f]	8.2E+01	c	--	--	NA	6.6E-01
	4-Nitrophenol	100-02-7	8270C [f]	--	--	--	--	NA	6.6E-01
	Acenaphthene	83-32-9	8270C [f]	2.9E+04	nc	5.7E+02	2.9E+01	NA	3.3E-01
	Acenaphthylene	208-96-8	8270C [f]	--	--	--	--	NA	3.3E-01
	Acetophenone	98-86-2	8270C [f]	--	--	--	--	NA	3.3E-01
	Aniline	62-53-3	8270C [f]	3.0E+02	c	--	--	NA	3.3E-01
	Anthracene	120-12-7	8270C [f]	1.0E+05	max	1.2E+04	5.9E+02	NA	3.3E-01
	Azobenzene	103-33-3	8270C [f]	1.6E+01	c	--	--	NA	3.3E-01
	Benzo(a)anthracene (SIM)	56-55-3	8270C [f]	2.1E+00	ca	2.0E+00	8.0E-02	NA	3.3E-03
	Benzo(a)pyrene (SIM)	50-32-8	8270C [f]	2.1E-01	ca	8.0E+00	4.0E-01	NA	3.3E-03
	Benzo(b)fluoranthene (SIM)	205-99-2	8270C [f]	2.1E+00	ca	5.0E+00	2.0E-01	NA	3.3E-03
	Benzo(g,h,i)perylene	191-24-2	8270C [f]	--	--	--	--	NA	3.3E-01
	Benzo(k)fluoranthene (SIM)	207-08-9	8270C [f]	2.1E+01	ca	4.9E+01	2.0E+00	NA	3.3E-03
	Benzoic acid	65-85-0	8270C [f]	1.0E+05	max	4.0E+02	2.0E+01	NA	1.7E+00
	Benzyl alcohol	100-51-6	8270C [f]	1.0E+05	max	--	--	NA	3.3E-01
	bis(2-Chloroethoxy)methane	111-91-1	8270C [f]	--	--	--	--	NA	3.3E-01
	bis(2-Chloroethyl) ether	111-44-4	8270C [f]	5.8E-01	c	**4.0E-04**	**2.0E-05**	NA	3.3E-01
	bis(2-Chloroisopropyl) ether	108-60-1	8270C [f]	7.4E+00	c	--	--	NA	3.3E-01
	bis(2-Ethylhexyl) phthalate	117-81-7	8270C [f]	1.2E+02	c	--	--	NA	3.3E-01
	bis(Chloromethyl) ether	542-88-1	8270C [f]	4.3E-04	c	--	--	NA	TBD

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Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: Industrial or Outdoor Worker PRG[a] (mg/kg) or (pCi/g)		Screening Levels: Migration to Ground Water DAF 20[b] (mg/kg) or (pCi/g)	Screening Levels: Migration to Ground Water DAF 1[c] (mg/kg) or (pCi/g)	XRF Detection Limits (ppm)	Project Reporting Limits[d] (mg/kg) or (pCi/g)
SVOCs continued	bis(p-Chlorophenyl) sulfone	80-07-9	8270C [f]	--	--	--	--	NA	TBD
	bis(p-Chlorophenyl)disulfide	1142-19-4	8270C [f]	--	--	--	--	NA	TBD
	Butyl benzyl phthalate	85-68-7	8270C [f]	1.0E+05	max	9.3E+02	8.1E+02	NA	3.3E-01
	Carbazole	86-74-8	8270C [f]	8.6E+01	c	6.0E-01	3.0E-02	NA	3.3E-01
	Chrysene (SIM)	218-01-9	8270C [f]	2.1E+02	ca	1.6E+02	8.0E+00	NA	3.3E-03
	Dibenzo(a,h)anthracene (SIM)	53-70-3	8270C [f]	2.1E-01	ca	2.0E+00	8.0E-02	NA	3.3E-03
	Dibenzofuran	132-64-9	8270C [f]	1.6E+03	nc	--	--	NA	3.3E-01
	Dichloromethyl ether	542-88-1	8270C [f]	--	--	--	--	NA	TBD
	Diethyl phthalate	84-66-2	8270C [f]	1.0E+05	max	--	--	NA	3.3E-01
	Dimethyl phthalate	131-11-3	8270C [f]	1.0E+05	max	--	--	NA	3.3E-01
	Di-n-butyl phthalate	84-74-2	8270C [f]	6.2E+04	nc	2.3E+03	2.7E+02	NA	3.3E-01
	Di-n-octyl phthalate	117-84-0	8270C [f]	2.5E+04	nc	1.0E+04	1.0E+04	NA	3.3E-01
	Diphenyl disulfide	882-33-7	8270C [f]	--	--	--	--	NA	TBD
	Diphenyl sulfide	139-66-2	8270C [f]	--	--	--	--	NA	TBD
	Diphenyl sulfone	127-63-9	8270C [f]	1.8E+03	nc	--	--	NA	TBD
	Fluoranthene	206-44-0	8270C [f]	2.2E+04	nc	4.3E+03	2.1E+02	NA	3.3E-01
	Fluorene	86-73-7	8270C [f]	2.6E+04	nc	5.6E+02	2.8E+01	NA	3.3E-01
	Hexachlorobenzene (SIM)	118-74-1	8270C [f]	1.1E+00	ca	2.0E+00	1.0E-01	NA	3.3E-03
	Hexachlorobutadiene	87-68-3	8270C [f]	2.2E+01	c	2.0E+00	**1.0E-01**	NA	3.3E-01
	Hexachlorocyclopentadiene	77-47-4	8270C [f]	3.7E+03	nc	4.0E+02	2.0E+01	NA	3.3E-01
	Hexachloroethane	67-72-1	8270C [f]	1.2E+02	c	5.0E-01	**2.0E-02**	NA	3.3E-01
	Hydroxymethyl phthalimide	118-29-6	8270C [f]	--	--	--	--	NA	TBD
	Indeno(1,2,3-cd)pyrene (SIM)	193-39-5	8270C [f]	2.1E+00	ca	1.4E+01	7.0E-01	NA	3.3E-03
	Isophorone	78-59-1	8270C [f]	5.1E+02	c	5.0E-01	**3.0E-02**	NA	3.3E-01
	m,p-Cresol	106-44-5	8270C [f]	3.1E+03	nc	--	--	NA	3.3E-01
	Naphthalene	91-20-3	8270C [f]	1.9E+02	nc	8.4E+01	4.0E+00	NA	3.3E-01
	Nitrobenzene	98-95-3	8270C [f]	1.0E+02	nc	**1.0E-01**	**7.0E-03**	NA	3.3E-01
	N-nitrosodi-n-propylamine	621-64-7	8270C [f]	**2.5E-01**	c	**5.0E-05**	**2.0E-06**	NA	3.3E-01
	N-nitrosodiphenylamine	86-30-6	8270C [f]	3.5E+02	c	1.0E+00	**6.0E-02**	NA	3.3E-01
	o-Cresol	95-48-7	8270C [f]	3.1E+04	nc	1.5E+01	8.0E-01	NA	3.3E-01
	Octachlorostyrene	29082-74-4	8270C [f]	--	--	--	--	NA	TBD
	p-Chloroaniline (4-Chloroaniline)	106-47-8	8270C [f]	2.5E+03	nc	7.0E-01	**3.0E-02**	NA	3.3E-01
	Pentachlorobenzene	608-93-5	8270C [f]	4.9E+02	nc	--	--	NA	3.3E-01
	Pentachlorophenol	87-86-5	8270C [f]	9.0E+00	c	**3.0E-02**	**1.0E-03**	NA	6.6E-01
	Phenanthrene	85-01-8	8270C [f]	--	--	--	--	NA	3.3E-01
	Phenol	108-95-2	8270C [f]	1.0E+05	max	1.0E+02	5.0E+00	NA	3.3E-01
	Phthalic acid	88-99-3	8270C [f]	1.0E+05	max	--	--	NA	TBD
	Pyrene	129-00-0	8270C [f]	2.9E+04	nc	4.2E+03	2.1E+02	NA	3.3E-01

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Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: Industrial or Outdoor Worker PRG[a] (mg/kg) or (pCi/g)		Screening Levels: Migration to Ground Water DAF 20[b] (mg/kg) or (pCi/g)	Screening Levels: Migration to Ground Water DAF 1[c] (mg/kg) or (pCi/g)	XRF Detection Limits (ppm)	Project Reporting Limits [d] (mg/kg) or (pCi/g)
SVOCs continued	Pyridine	110-86-1	8270C [f]	6.2E+02	nc	--	--	NA	3.3E-01
	Thiophenol	108-98-5	8270C [f]	--	--	--	--	NA	TBD
	Tentatively Identified Compounds (TICs)		8270C [f]	--	--	--	--	NA	NA
PCBs [o]	Aroclor-1016	12674-11-2	8082 [f]	2.1E+01	ca**	--	--	NA	3.3E-02
	Aroclor-1221	11104-28-2	8082 [f]	--	--	--	--	NA	6.7E-02
	Aroclor-1232	11141-16-5	8082 [f]	--	--	--	--	NA	3.3E-02
	Aroclor-1242	53469-21-9	8082 [f]	--	--	--	--	NA	3.3E-02
	Aroclor-1248	12672-29-6	8082 [f]	--	--	--	--	NA	3.3E-02
	Aroclor-1254	11097-69-1	8082 [f]	7.4E-01	ca*	--	--	NA	3.3E-02
	Aroclor-1260	11096-82-5	8082 [f]	--	--	--	--	NA	3.3E-02
	PCB-77 (see 2,3,7,8-TCDD TEQ)	32598-13-3	8082 [f]	--	--	--	--	NA	5.0E-05
	PCB-81 (see 2,3,7,8-TCDD TEQ)	70362-50-4	8082 [f]	--	--	--	--	NA	5.0E-05
	PCB-105 (see 2,3,7,8-TCDD TEQ)	32598-14-4	8082 [f]	--	--	--	--	NA	2.0E-05
	PCB-114 (see 2,3,7,8-TCDD TEQ)	74472-37-0	8082 [f]	--	--	--	--	NA	5.0E-05
	PCB-118 (see 2,3,7,8-TCDD TEQ)	31508-00-6	8082 [f]	--	--	--	--	NA	5.0E-05
	PCB-123 (see 2,3,7,8-TCDD TEQ)	65510-44-3	8082 [f]	--	--	--	--	NA	5.0E-05
	PCB-126 (see 2,3,7,8-TCDD TEQ)	57465-28-8	8082 [f]	--	--	--	--	NA	5.0E-05
	PCB-156 (see 2,3,7,8-TCDD TEQ)	38380-08-4	8082 [f]	--	--	--	--	NA	5.0E-05
	PCB-157 (see 2,3,7,8-TCDD TEQ)	69782-90-7	8082 [f]	--	--	--	--	NA	5.0E-05
	PCB-167 (see 2,3,7,8-TCDD TEQ)	52663-72-6	8082 [f]	--	--	--	--	NA	5.0E-05
	PCB-169 (see 2,3,7,8-TCDD TEQ)	32774-16-6	8082 [f]	--	--	--	--	NA	5.0E-05
	PCB-189 (see 2,3,7,8-TCDD TEQ)	39635-31-9	8082 [f]	--	--	--	--	NA	5.0E-05
Petroleum Hydrocarbons	Gasoline	8006-61-9	8015 Mod [f]	--	--	--	--	NA	1.0E+00
	Diesel fuel	--	8015 Mod [f]	--	--	--	--	NA	1.0E+00
	Waste oil (hydraulic fluids, gear oil, and motor oil)	--	8015 Mod [f]	--	--	--	--	NA	1.0E+00
Radionuclides	Gross alpha	--	Not applicable [r]	--	--	--	--	NA	NA
	Gross beta	--	Not applicable [r]	--	--	--	--	NA	NA
	Cobalt-57	13981-50-5	Gamma/901.1	**1.4E+01**	c	1.7E+02	8.4E+00	NA	1.0E+01
	Cobalt-60	10198-40-0	Gamma/901.1	**6.0E-02**	c	**2.4E+00**	1.2E-01	NA	1.0E+01
	Potassium-40 (K-40)	013966-00-2	Gamma/ 901.1	**2.73E-01**	--	--	--	NA	3.00E+00
	Uranium-238 Decay Series								
	Uranium-238 (U-238)	007440-61-1	ASTM D3972-90M	3.68E+01	--	**1.21E-01**	**6.04E-03**	NA	1.00E-01
	Thorium-234 (Th-234)	015065-10-8	Gamma/ 901.1	3.28E+03	--	8.26E+04	4.13E+03	NA	5.00E+00
	Protactinium-234 (Pa-234)	015100-28-4	Gamma/ 901.1[m]	5.68E+02	--	--	--	NA	3.50E+01
	Uranium-234 (U-234)	013966-29-5	ASTM D3972-90M	3.24E+01	--	2.24E+03	1.12E+02	NA	1.00E-01
	Thorium-230 (Th-230)	014269-63-7	ASTM D3972-90M	1.90E+01	--	6.06E+00	3.03E-01	NA	1.00E-01
	Radium-226 (Ra-226)	013982-68-3	Gamma/901.1	3.70E+00	--	**3.22E-01**	**1.61E-02**	NA	5.00E-01
	Radon-222 (Rn-222)	014859-67-7	LSC/SOP799	2.08E+05	--	2.38E+03	1.19E+02	NA	NA

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Radionuclides continued	Polonium-218 (Po-218)	015422-24-9	Calculated [l]	1.53E+10	--	--	--	NA	Calculated [l]
	Lead-214 (Pb-214)	015067-28-4	Gamma/ 901.1	7.56E+04	--	2.85E+12	1.43E+11	NA	5.00E-01
	Bismuth-214 (Bi-214)	014733-03-0	Gamma/ 901.1	1.34E+04	--	--	--	NA	5.00E-01
	Polonium-214 (Po-214)	015735-67-8	Calculated [j]	1.89E+15	--	--	--	NA	Calculated [j]
	Lead-210 (Pb-210)	014255-04-0	LSC/SOP726	4.19E+00	--	**1.58E-02**	**7.90E-04**	NA	1.00E+00
	Bismuth-210 (Bi-210)	014331-79-4	Calculated [h]	8.55E+04	--	--	--	NA	Calculated [h]
	Polonium-210 (Po-210)	013981-52-7	ASTM D3972-90M	2.73E+02	--	--	--	NA	1.00E-01
	Lead-206 (stable; part of total lead)		See total metals	--		--	--	NA	See total metals
	Thorium-232 Decay Series								
	Thorium-232 (Th-232)	007440-29-1	ASTM D3972-90M	1.90E+01	--	6.06E+00	3.03E-01	NA	1.00E-01
	Radium-228 (Ra-228)	015262-20-1	Gamma/901.1[p]	8.40E+00	--	**1.19E+00**	**5.95E-02**	NA	1.0E+00/NA
	Actinium-228 (Ac-228)	014381-83-0	Gamma/ 901.1	1.19E+03	--	--	--	NA	1.00E+00
	Thorium-228 (Th-228)	014274-82-9	ASTM D3972-90M	1.25E+02	--	6.60E+01	3.30E+00	NA	1.00E-01
	Radium-224 (Ra-224)	013233-32-4	Calculated [n]	7.91E+03	--	7.84E+04	3.92E+03	NA	Calculated [n]
	Radon-220 (Rn-220)	022481-48-7	Calculated [q]	1.26E+09	--	--	--	NA	Calculated [q]
	Polonium-216 (Po-216)	015756-58-8	Calculated [k]	1.01E+13	--	--	--	NA	Calculated [k]
	Lead-212 (Pb-212)	015092-94-1	Gamma/ 901.1	6.13E+03	--	6.97E+07	3.49E+06	NA	4.00E-01
	Bismuth-212 (Bi-212)	014913-49-6	Gamma/ 901.1	3.70E+04	--	--	--	NA	3.00E+00
	Thallium-208 (Tl-208)	014913-50-9	Gamma/ 901.1	3.68E+04	--	--	--	NA	3.00E-01
	Polonium-212 (Po-212)	015389-34-1	Calculated [i]	--	--	--	--	NA	Calculated [i]
	Lead-206 (stable; part of total lead)		See total metals	--		--	--	NA	See total metals
	Uranium-235 Decay Series								
	Uranium-235 (U-235)	15117-96-1	ASTM D3972-90M	3.98E-01		7.77E-01	**3.89E-02**	NA	1.00E-01
	Thorium-231 (Th-231)	--	Not analyzed	5.28E+04	--	4.44E+08	2.22E+07	NA	NA
	Protactinium-231 (Pa-231)	--	Not analyzed	1.38E+00	--	--	--	NA	NA
	Actinium-227 (Ac-227)	--	Not analyzed	1.14E+01	--	--	--	NA	NA
	Thorium-227 (Th-227)	--	Not analyzed	1.94E+02	--	6.68E+04	3.34E+03	NA	NA
	Radium-223 (Ra-223)	--	Not analyzed	2.70E+02	--	5.67E+03	2.84E+02	NA	NA
	Radon-219 (Rn-219)	--	Not analyzed	1.34E+08	--	--	--	NA	NA
	Polonium-215 (Po-215)	--	Not analyzed	8.97E+13	--	--	--	NA	NA
	Lead-211 (Pb-211)	--	Not analyzed	2.41E+05	--	1.32E+12	6.60E+10	NA	NA
	Bismuth-211 (Bi-211)	--	Not analyzed	4.95E+06	--	--	--	NA	NA
	Thallium-207 (Tl-207)	--	Not analyzed	2.74E+07	--	--	--	NA	NA
VOCs	1,1,1,2-Tetrachloroethane	630-20-6	8260B [f]	7.28E+00	c	--	--	NA	5.0E-03
	1,1,1-Trichloroethane	71-55-6	8260B [f]	1.2E+03	sat	2.0E+00	1.0E-01	NA	5.0E-03
	1,1,2,2-Tetrachloroethane	79-34-5	8260B [f]	9.3E-01	c	**3.0E-03**	**2.0E-04**	NA	5.0E-03
	1,1,2-Trichloroethane	79-00-5	8260B [f]	1.6E+00	ca*	2.0E-02	**9.0E-04**	NA	1.2E-03
	1,1-Dichloroethane (DCA)	75-34-3	8260B [f]	1.7E+03	nc	2.3E+01	1.0E+00	NA	5.0E-03
	1,1-Dichloroethene	75-35-4	8260B [f]	4.1E+02	nc	6.0E-02	**3.0E-03**	NA	5.0E-03
	1,1-Dichloropropene	563-58-6	8260B [f]	--	--	--	--	NA	5.0E-03
	1,2,3-Trichlorobenzene	87-61-6	8260B [f]	--	--	--	--	NA	5.0E-03

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Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: Industrial or Outdoor Worker PRG[a] (mg/kg) or (pCi/g)		Screening Levels: Migration to Ground Water (mg/kg) or (pCi/g): DAF 20[b]	Screening Levels: Migration to Ground Water (mg/kg) or (pCi/g): DAF 1[c]	XRF Detection Limits (ppm)	Project Reporting Limits[d] (mg/kg) or (pCi/g)
VOCs continued	1,2,3-Trichloropropane	96-18-4	8260B [f]	7.6E-02	c	--	--	NA	5.0E-03
	1,2,4-Trichlorobenzene	120-82-1	8260B [f]	2.2E+02	nc	5.0E+00	3.0E-01	NA	5.0E-03
	1,2,4-Trimethylbenzene	95-63-6	8260B [f]	1.7E+02	nc	--	--	NA	5.0E-03
	1,2-Dichlorobenzene	95-50-1	8260B [f]	6.0E+02	sat	1.7E+01	9.0E-01	NA	5.0E-03
	1,2-Dichloroethane (DCA)	107-06-2	8260B [f]	6.0E-01	ca*	2.0E-02	**1.0E-03**	NA	1.3E-03
	1,2-Dichloropropane	78-87-5	8260B [f]	7.4E-01	ca*	3.0E-02	**1.0E-03**	NA	1.1E-03
	1,3,5-Trichlorobenzene	108-70-3	8260B [f]	--	--	--	--	NA	TBD
	1,3,5-Trimethylbenzene	108-67-8	8260B [f]	7.0E+01	nc	--	--	NA	5.0E-03
	1,3-Dichlorobenzene	541-73-1	8260B [f]	6.3E+01	nc	--	--	NA	5.0E-03
	1,3-Dichloropropane	142-28-9	8260B [f]	3.6E+02	nc	--	--	NA	5.0E-03
	1,4-Dichlorobenzene	106-46-7	8260B [f]	7.9E+00	c	2.0E+00	1.0E-01	NA	5.0E-03
	2,2-Dichloropropane	594-20-7	8260B [f]	--	--	--	--	NA	5.0E-03
	2,2-Dimethylpentane	590-35-2	8260B [f]	--	--	--	--	NA	TBD
	2,2,3-Trimethylbutane	464-06-2	8260B [f]	--	--	--	--	NA	TBD
	2,3-Dimethylpentane	565-59-3	8260B [f]	--	--	--	--	NA	TBD
	2,4-Dimethylpentane	108-08-7	8260B [f]	--	--	--	--	NA	TBD
	2-Chlorotoluene	95-49-8	8260B [f]	5.6E+02	nc	--	--	NA	5.0E-03
	2-Hexanone	591-78-6	8260B [f]	--	--	--	--	NA	2.0E-02
	2-Methylhexane	591-76-4	8260B [f]	--	--	--	--	NA	TBD
	2-Nitropropane	79-46-9	8260B [f]	--	--	--	--	NA	TBD
	3,3-Dimethylpentane	562-49-2	8260B [f]	--	--	--	--	NA	TBD
	3-Ethylpentane	617-78-7	8260B [f]	--	--	--	--	NA	TBD
	3-Methylhexane	589-34-4	8260B [f]	--	--	--	--	NA	TBD
	4-Chlorotoluene	106-43-4	8260B [f]	--	--	--	--	NA	5.0E-03
	2-Butanone (MEK)	78-93-3	8260B [f]	1.1E+05	nc	--	--	NA	2.0E-02
	4-Methyl-2-pentanone (MIBK)	108-10-1	8260B [f]	4.7E+04	nc	--	--	NA	2.0E-02
	Acetone	67-64-1	8260B [f]	5.4E+04	nc	1.6E+01	8.0E-01	NA	2.0E-02
	Acetonitrile	75-05-8	8260B [f]	1.8E+03	nc	--	--	NA	5.0E-02
	Benzene	71-43-2	8260B [f]	1.4E+00	ca*	3.0E-02	**2.0E-03**	NA	1.2E-03
	Bromobenzene	108-86-1	8260B [f]	9.2E+01	nc	--	--	NA	5.0E-03
	Bromodichloromethane	75-27-4	8260B [f]	1.8E+00	ca	6.0E-01	3.0E-02	NA	5.0E-03
	Bromoform (tribromomethane)	75-25-2	8260B [f]	2.2E+02	ca*	8.0E-01	4.0E-02	NA	5.0E-03
	Bromomethane (Methyl bromide)	74-87-3	8260B [f]	1.3E+01	nc	2.0E-01	1.0E-02	NA	5.0E-03
	Carbon Disulfide	75-15-0	8260B [f]	7.2E+02	sat	3.2E+01	2.0E+00	NA	5.0E-03
	Carbon Tetrachloride	56-23-5	8260B [f]	5.5E-01	ca*	7.0E-02	3.0E-03	NA	1.4E-03
	Chlorobenzene	108-90-7	8260B [f]	5.3E+02	nc	1.0E+00	7.0E-02	NA	5.0E-03
	Chlorobromomethane	74-97-5	8260B [f]	--	--	--	--	NA	5.0E+00
	Chloroethane	75-00-3	8260B [f]	6.5E+00	c	--	--	NA	5.0E-03
	Chloroform	67-66-3	8260B [f]	4.7E-01	ca	6.0E-01	3.0E-02	NA	5.0E-03

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Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: Industrial or Outdoor Worker PRG[a] (mg/kg) or (pCi/g)		Screening Levels: Migration to Ground Water DAF 20[b] (mg/kg) or (pCi/g)	Screening Levels: Migration to Ground Water DAF 1[c] (mg/kg) or (pCi/g)	XRF Detection Limits (ppm)	Project Reporting Limits[d] (mg/kg) or (pCi/g)
VOCs continued	Chloromethane (Methyl chloride)	74-87-3	8260B [f]	1.6E+02	nc	--	--	NA	5.0E-03
	cis-1,2-Dichloroethene	156-59-2	8260B [f]	1.5E+02	nc	4.0E-01	2.0E-02	NA	5.0E-03
	cis-1,3-Dichloropropene	10061-01-5	8260B [f]	1.8E+00	c	**4.0E-03**	**2.0E-04**	NA	5.0E-03
	Cymene (Isopropyltoluene)	99-87-6	8260B [f]	--	--	--	--	NA	TBD
	Dibromochloroethane	73506-94-2	8260B [f]	--	--	--	--	NA	TBD
	Dibromochloromethane	124-48-1	8260B [f]	2.6E+00	ca	4.0E-01	2.0E-02	NA	5.0E-03
	Dibromochloropropane	96-12-8	8260B [f]	2.0E+00	c	--	--	NA	TBD
	Dibromomethane	74-95-3	8260B [f]	2.3E+02	nc	--	--	NA	5.0E-03
	Dimethyldisulfide	624-92-0	8260B [f]	--	--	--	--	NA	TBD
	Ethanol	64-17-5	8260B [f]	--	--	--	--	NA	TBD
	Ethylbenzene	100-41-4	8260B [f]	4.0E+02	sat	1.3E+01	7.0E-01	NA	5.0E-03
	Freon-113 (1,1,2-Trifluoro-1,2,2-trichloroethane)	76-13-1	8260B [f]	5.6E+03	sat	--	--	NA	TBD
	Freon-12 (Dichlorodifluoromethane)	75-71-8	8260B [f]	3.1E+02	nc	--	--	NA	5.0E-03
	Heptane	142-82-5	8260B [f]	--	--	--	--	NA	TBD
	Isoheptane	31394-54-4	8260B [f]	--	--	--	--	NA	TBD
	Isopropylbenzene	98-82-8	8260B [f]	2.0E+03	nc	--	--	NA	5.0E-03
	Methylene chloride	75-09-2	8260B [f]	2.1E+01	ca	2.0E-02	**1.0E-03**	NA	1.4E-03
	Methyl iodide	74-88-4	8260B [f]	--	--	--	--	NA	TBD
	MTBE (Methyl tert-butyl ether)	1634-04-4	8260B [f]	3.6E+01	c	--	--	NA	5.0E+00
	n-Butylbenzene	104-51-8	8260B [f]	2.4E+02	sat	--	--	NA	5.0E-03
	n-Propylbenzene	103-65-1	8260B [f]	2.4E+02	sat	--	--	NA	5.0E-03
	Nonanal	124-19-6	8260B [f]	--	--	--	--	NA	TBD
	sec-Butylbenzene	135-98-8	8260B [f]	2.2E+02	sat	--	--	NA	5.0E-03
	Styrene	100-42-5	8260B [f]	1.7E+03	sat	4.0E+00	2.0E-01	NA	5.0E-03
	tert-Butylbenzene	98-06-6	8260B [f]	3.9E+02	sat	--	--	NA	5.0E-03
	Tetrachloroethylene (PCE)	127-18-4	8260B [f]	1.3E+00	ca	6.0E-02	3.0E-03	NA	1.1E-03
	Toluene	108-88-3	8260B [f]	5.2E+02	sat	1.2E+01	6.0E-01	NA	5.0E-03
	trans-1,2-Dichloroethene	156-60-5	8260B [f]	2.3E+02	nc	7.0E-01	3.0E-02	NA	5.0E-03
	trans-1,3-Dichloropropene	10061-02-6	8260B [f]	1.8E+00	c	**4.0E-03**	**2.0E-04**	NA	5.0E-03
	Trichloroethylene (TCE)	79-01-6	8260B [f]	1.1E-01	ca	6.0E-02	3.0E-03	NA	1.1E-03
	Trichlorofluoromethane	75-69-4	8260B [f]	2.0E+03	sat	--	--	NA	5.0E-03
	Vinyl acetate	108-05-4	8260B [f]	1.4E+03	nc	1.7E+02	8.0E+00	NA	2.0E-02
	Vinyl chloride (adult)	75-01-4	8260B [f]	7.5E-01	ca	--	--	NA	5.0E-03
	Vinyl chloride (child/adult)	75-01-4	8260B [f]	--		1.0E-02	**7.0E-04**	NA	1.3E-03
	Xylenes (total)	1330-20-7	8260B [f]	4.2E+02	sat	2.1E+02	1.0E+01	NA	1.0E-02
	Tentatively Identified Compounds (TICs)		8260B [f]	--	--	--	--	NA	NA

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Chlorinated Compounds	Chloral	75-87-6	551.1	--	--	--	--	NA	5.0E+00
	Dichloroacetaldehyde	79-02-7	551.1	--	--	--	--	NA	5.0E+00
Organophosphorus Pesticides	Azinphos-ethyl	264-27-19	8141A [f]	--	--	--	--	NA	6.7E-02
	Azinphos-methyl	86-50-0	8141A [f]	--	--	--	--	NA	6.7E-02
	Carbophenothion	786-19-6	8141A [f]	--	--	--	--	NA	3.3E-01
	Chlorpyrifos	2921-88-2	8141A [f]	1.8E+03	nc	--	--	NA	3.3E-02
	Coumaphos	56-72-4	8141A [f]	--	--	--	--	NA	6.7E-02
	Demeton-O	298-03-3	8141A [f]	2.5E+01	nc	--	--	NA	3.3E-02
	Demeton-S	126-75-0	8141A [f]	2.5E+01	nc	--	--	NA	3.3E-02
	Diazinon	333-41-5	8141A [f]	5.5E+02	nc	--	--	NA	3.3E-02
	Dichlorvos	62-73-7	8141A [f]	5.9E+00	c	--	--	NA	3.3E-02
	Dimethoate	60-51-5	8141A [f]	1.2E+02	nc	--	--	NA	5.0E-02
	Disulfoton	298-04-4	8141A [f]	2.5E+01	nc	--	--	NA	1.3E-01
	EPN	2104-64-5	8141A [f]	6.2E+00	nc	--	--	NA	5.0E-02
	Ethoprop	13194-48-4	8141A [f]	--	--	--	--	NA	3.3E-02
	Ethyl parathion	56-38-2	8141A [f]	3.7E+03	nc	--	--	NA	5.0E-02
	Fampphur	52-85-7	8141A [f]	--	--	--	--	NA	5.0E-02
	Fenthion	55-38-9	8141A [f]	--	--	--	--	NA	3.3E-02
	Malathion	121-75-5	8141A [f]	1.2E+04	nc	--	--	NA	5.0E-02
	Methyl carbophenothion	953-17-3	8141A [f]	--	--	--	--	NA	5.0E-01
	Methyl parathion	298-00-0	8141A [f]	1.5E+02	nc	--	--	NA	3.3E-02
	Mevinphos	7786-34-7	8141A [f]	--	--	--	--	NA	3.3E-02
	Naled	300-76-5	8141A [f]	1.2E+03	nc	--	--	NA	1.0E-01
	O,O,O-Triethyl phosphorothioate (TEPP)	297-97-2	8141A [f]	--	--	--	--	NA	5.0E-01
	Phorate	298-02-2	8141A [f]	1.2E+02	nc	--	--	NA	3.3E-02
	Phosmet	732-11-6	8141A [f]	1.2E+04	nc	--	--	NA	5.0E-01
	Ronnel	299-84-3	8141A [f]	3.1E+04	nc	--	--	NA	3.3E-02
	Stirophos (Tetrachlorovinphos)	22248-79-9	8141A [f]	7.2E+01	c	--	--	NA	3.3E-02
	Sulfotep	3689-24-5	8141A [f]	3.1E+02	nc	--	--	NA	5.0E-02
Organic acids	4-Chlorobenzene sulfonic acid	98-66-8	HPLC	--	--	--	--	NA	2.0E+00
	Benzenesulfonic acid	98-11-3	HPLC	--	--	--	--	NA	2.0E+00
	O,O-Diethylphosphorodithioic acid	298-06-6	HPLC	--	--	--	--	NA	2.0E+00
	O,O-Dimethylphosphorodithioic acid	756-80-9	HPLC	--	--	--	--	NA	2.0E+00
Non-halogenated Organics	Ethylene glycol	107-21-1	8015B [f]	1.00E+05	max	--	--	NA	5.0E-01
	Ethylene glycol monobutyl ether	111-76-2	8015B [f]	1.00E+05	max	--	--	NA	5.0E-01
	Methanol	67-56-1	8015B [f]	1.00E+05	max	--	--	NA	5.0E-01
	Propylene glycol	57-55-6	8015B [f]	1.00E+05	max	--	--	NA	5.0E-01

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Analytical Group	Chemical	CAS No.	EPA Analytical Method	Screening Levels: Industrial or Outdoor Worker PRG[a] (mg/kg) or (pCi/g)		Screening Levels: Migration to Ground Water DAF 20[b] (mg/kg) or (pCi/g)	Screening Levels: Migration to Ground Water DAF 1[c] (mg/kg) or (pCi/g)	XRF Detection Limits (ppm)	Project Reporting Limits [d] (mg/kg) or (pCi/g)
Aldehydes	Acetaldehyde	75-07-0	8315A [f]	2.30E+01	c	--	--	NA	2.0E+00
	Chloroacetaldehyde	107-20-0	8315A [f]	--	--	--	--	NA	2.0E+00
	Dichloroacetaldehyde	79-02-7	8315A [f]	--	--	--	--	NA	2.0E+00
	Formaldehyde	50-00-0	8315A [f]	1.00E+05	nc	--	--	NA	2.0E+00
	Trichloroacetaldehyde	75-87-6	8315A [f]	--	--	--	--	NA	2.0E+00
Flashpoint	Flammables	NA	1010 [f]	--	--	--	--	NA	NA
White Phosphorus	White phosphorus	12185-10-3	7580 Mod [f]	**2.00E+01**	nc	--	--	NA	4.0E+02
Methyl Mercury	Methyl mercury	22967-92-6	1630	6.20E+01	nc	--	--	NA	1.00E-04
Miscellaneous	Asbestos	1332-21-4	TEM analysis [s]	--	--	--	--	NA	0.1 weight percent

Notes:

a PRG values are taken from the 'Region 9 PRGs 2004 Table' at http://www.epa.gov/region09/waste/sfund/prg/index.htm and the 'Preliminary Remediation Goals for Radionuclides' table at http:/epa_prgs.ornl.gov/cgi-bin/epa-prgs/rad_search.

b DAF 20 values are taken from the 'Preliminary Remediation Goals for Radionuclides' table at http:/epa_prgs.ornl.gov/cgi-bin/epa-prgs/rad_search.

c The DAF 1 values are calculated from the DAF 20 values (DAF 20/ 20).

d Soil reporting limits that are greater than the screening levels are highlighted in bold font.

e Analytical methods for anions taken from MCAWW (EPA 1983).

f Analytical methods taken from SW-846 (EPA 2004e).

g Highlighted rows indicate compounds for which method detection limits have not been established by project laboratories.

h Bi-210 is assumed to be in secular equilibrium with Pb-210. See Pb-210 results.

i Po-212 has no useful gamma emissions. Refer to the Th-228 parent results and assume secular equilibrium.

j Po-214 has no useful gamma emissions. Refer to the Pb-214 or Bi-214 parent results and assume secular equilibrium.

k Po-216 has a 0.15 m half-life. Direct quantification by alpha spec is not possible. Refer to the Th-228 parent or the Pb-212 progeny results and assume secular equilibrium.

l Po-218 has a 3 m half-life. Direct quantification by alpha spec is not possible. Refer to the Ra-226 parent or the Pb-214 progeny results and assume secular equilibrium.

m Pa-234 is typically used to evaluate the natural decay chain; MDC = 35 pCi/g in soils. While Pa-234 has lower detection limits when analyzed directly, the very low branching ratio (approx 0.2%) makes it more difficult to detect.

n Ra-224 can be analyzed directly by gamma spec, resulting in a very high MDC and subject to interference from Pb-214. Alternately a Total Alpha Emitting Radium Analysis includes Ra-224 as a component of the final result. Otherwise, refer to the Th-228 parent or the Pb-212 progeny results and assume secular equilibrium.

o Decachlorobiphenyl can be quantified with method modifications.

p Ra-228 is quantified by the gamma emissions of the Ac-228 progeny in secular equilibrium. See Ac-228 by gamma spec.

q Rn-220 is not directly quantifiable. Refer to the Th-228 parent or the Pb-212 progeny results and assume secular equilibrium.

r Gross alpha and beta are not analyzed on solid matrices.

s Modified bulk method using TEM as required by EPA Region IX (EPA 1993)

Notes continued:

--	Information not available
ca	Cancer PRG
ca*	Where nc< 100x ca
ca**	Where nc< 10x ca
CAS	Chemical Abstracts Service
DAF	Dilution attenuation factor
DCA	Dichloroethane
EPA	U.S. Environmental Protection Agency
MCAWW	Methods for Chemical Analysis of Water and Waste
mg/kg	Milligrams per kilogram
NA	Not applicable
nc	Noncancer PRG
NAC	Nevada Administrative Code
PAH	Polycyclic aromatic hydrocarbons
PCB	Polychlorinated biphenyl
pCi/g	Picocurie per gram
PRG	Preliminary remediation goal
µg/kg	Micrograms per kilogram
sat	Soil saturation
SIM	Selective ion monitoring
SVOC	Semivolatile organic compound
TBD	To be determined
TEM	Transmission electron microscopy
TEQ	Toxicity equivalent
VOC	Volatile organic compound

Sources:

EPA, Region IX. 2004. "Region 9 PRGs Table 2004 Update." October (http://www.epa.gov/region09/waste/sfund/prg/index.htm).
EPA. 2003. "Preliminary Remediation Goals for Radionuclides" September (http://epa-prgs.ornl.gov/radionuclides/prg_search.shtml)
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EPA. 1983. "Method for the Chemical Analysis of Water and Waste" March.
EPA. 1994. "Method 100.2--Determination of Asbestos Structures over 10 Micrometers in Length in Drinking Water." June. EPA/600/R-94/134.
EPA 2004e. "Test Method for Evaluating Solid Waste, Chemical/Physical Methods, SW-846"
EPA. 1999. "Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil and Grease) and Silica Gel Treated N-Hexane Extractable Material by Extraction and Gravimetry" EPA 821/R-98-002.
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EPA. 2004. "Drinking Water MCLs." May (http://www.epa.gov/safewater/mcl.html)
EPA. 2004. "Unregulated Drinking Water Contaminants" June (http://www.epa.gov/safewater/dw_unregcontaminants.html)
NAC. Chapter 445A Water Controls Section 144 Standards for Toxic Materials Applicable to Designated Waters (http://www.leg.state.nv.us/NAC/NAC-445A.html#NAC445ASec144)