

Table 3. Nonradiological Environmental Surveillance Practical Quantitation Limits (PQLs)

Parameter/Laboratory	2014 PQL	Units
SRNS Environmental Monitoring Field Laboratory		
pH	as recorded	su
Total Residual Chlorine	0.05	mg/l
SRNS Environmental Bioassay Laboratory		
Total Suspended Solids (TSS)	1.0	mg/l
Aluminum (Al)	0.05	mg/l
Arsenic (As)	0.005	mg/l
Barium (Ba)	0.05	mg/l
Beryllium (Be)	0.001	mg/l
Cadmium (Cd)	0.0001	mg/l
Chromium (Cr)	0.005	mg/l
Copper (Cu)	0.005	mg/l
Iron (Fe)	0.004	mg/l
Lead (Pb)	0.002	mg/l
Manganese (Mn)	0.01	mg/l
Mercury (Hg), Total	0.02	ug/L
Nickel (Ni)	0.01	mg/l
Selenium (Se)	0.005	mg/l
Silver (Ag)	0.005	mg/l
Zinc (Zn)	0.01	mg/l
SRNS Central Sanitary Wastewater Treatment Facility Laboratory		
Biological Oxygen Demand (BOD)	2.0	mg/l
pH	as recorded	su
Offsite Analytical Laboratories		
Inorganic Nonmetals (aqueous & solid)		
Ammonia-N	0.10	mg/l
Biological Oxygen Demand (BOD)	2.0	mg/l
Chemical Oxygen Demand (COD)	10.0	mg/l
Cyanide (Cn)	0.010	mg/l
Cyanide (Cn)	0.5	mg/kg (solid)
Fecal Coliform		
Hardness	10.0	mg/l
Nitrate (NO ₃)	0.020	mg/l
Nitrite (NO ₂)	0.020	mg/l
Nitrate-Nitrite-N	0.020	mg/l
Phenol	0.0050	mg/l
Sulfate	1.0	mg/l
Total Dissolved Solids (TDS)	10.0	mg/l
Total Suspended Solids (TSS)	1.0	mg/l
Total Kjeldahl Nitrogen (TKN)	0.10	mg/l
Phosphorus	0.010	mg/l

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Total Organic Carbon (TOC)	1.0	mg/l
Oil & Grease	4.00 ^a	mg/l
% Solids	N/A	%
Metals (aqueous & solid)		
Aluminum (Al)	40.0	µg/l
Aluminum (Al)	20.0	mg/kg (solid)
Arsenic (As)	1.000	µg/l
Arsenic (As)	0.75	mg/kg (solid)
Barium (Ba)	5.0	µg/l
Barium (Ba)	1.3	mg/kg (solid)
Boron (B)	25.0	µg/l
Cadmium (Cd)	0.10	µg/l
Cadmium (Cd)	0.25	mg/kg (solid)
Chromium (Cr)	5.0	µg/l
Chromium (Cr)	0.5	mg/kg (solid)
Copper (Cu)	1.0	µg/l
Copper (Cu)	0.5	mg/kg (solid)
Iron (Fe)	20.0	µg/l
Iron (Fe)	5.0	mg/kg (solid)
Lead (Pb)	1.0	µg/l
Lead (Pb)	0.5	mg/kg (solid)
Magnesium	250	mg/kg (solid)
Manganese (Mn)	5.00	µg/l
Manganese (Mn)	0.75	mg/kg (solid)
Mercury (Hg), Total	0.00010	mg/l
Mercury (Hg), Low Level	0.5	ng/l
Mercury (Hg)	0.083	mg/kg (solid)
Molybdenum (Mo)	2.00	mg/kg (solid)
Nickel (Ni)	5.0	µg/l
Nickel (Ni)	2.0	mg/kg (solid)
Nickel (Ni)	2.00	mg/kg (solid)
Potassium (K)	250.00	mg/kg (solid)
Selenium (Se)	1.000	µg/l
Selenium (Se)	1.0	mg/kg (solid)
Silver (Ag)	1.0	µg/l
Silver (Ag)	0.5	mg/kg (solid)
Sodium (Na)	200.00	µg/l
Uranium (U)	0.50	mg/l
Uranium (U)	25.00	mg/kg (solid)
Zinc (Zn)	10.0	µg/l
Zinc (Zn)	2.5	mg/kg (solid)
Pesticides & PCBs (aqueous)		
Aldrin	0.04	µg/l
Alpha-BHC	0.04	µg/l
Aroclor 1016	0.4	µg/l
Aroclor 1221	0.4	µg/l

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Aroclor 1232	0.4	µg/l
Aroclor 1242	0.4	µg/l
Aroclor 1248	0.4	µg/l
Aroclor 1254	0.4	µg/l
Aroclor 1260	0.4	µg/l
Beta-BHC	0.04	µg/l
Delta-BHC	0.04	µg/l
Gamma-BHC	0.04	µg/l
Chlordane	0.4	µg/l
4,4'-DDD	0.04	µg/l
4,4'-DDE	0.04	µg/l
4,4'-DDT	0.04	µg/l
Dieldrin	0.04	µg/l
Endosulfan I	0.04	µg/l
Endosulfan II	0.04	µg/l
Endosulfan sulfate	0.04	µg/l
Endrin	0.04	µg/l
Endrin aldehyde	0.04	µg/l
Heptachlor	0.04	µg/l
Lindane	0.025	µg/l
Heptachlor epoxide	0.04	µg/l
Toxaphene	0.4	µg/l
Volatile Organic Compounds (aqueous)		
Benzene	1.0	µg/l
Tetrachloroethylene/Tetrachloroethene	1.0	µg/l
Trichloroethylene/Trichloroethene	1.0	µg/l
Ethylene Glycol	50.0	mg/l
Herbicides (aqueous)		
2,4-D	2.0 ^a	µg/l
2,4,5-TP (Silvex)	0.5 ^a	µg/l
^a The PQL will vary slightly depending on the dilution factor.		