APPENDIX E

CHEMICAL AND PHYSICAL ANALYSIS PLAN FOR INJECTATE TESTING

TABLE NO. 2

TEST PARAMETERS FOR TYPE I SAMPLE

Parameter	Method	Gas Parameter
Arsenic (As)	6010/206	Ammonia (NH_3)
Barium (Ba)	6010/208	Argon (Ar)
Boron (B)	200	Carbon Dioxide (CO_2)
Cadmium (Cd)	6010/213	Hydrogen (H_2)
Calcium (Ca)	6010/215	Hydrogen Sulfide (H_2S)
Copper (Cu)	6010/220	Methane (CH_4)
Chromium (Cr)	6010/218	Nitrogen (N_2)
Iron (Fe)	6010/236	Oxygen (O_2)
Lead (Pb)	6010/239	Radon
Lithium (Li)	6010/7430	N-Pentane
Magnesium (Mg)	6010/242	
Manganese (Mn)	6010/243	
Mercury (Hg)	7470/245	
Nickel (Ni)	6010/200	
Potassium (K)	6010/258	
Silver (Ag)	6010/272	
Sodium (Na)	6010/273	
Vanadium (V)	6010/286	
Zinc (Zn)	6010/289	
Bromide	320	
Bicarbonate (HCO_3)	310	
Carbonate (CO_3)	310	
Chloride	325	
Fluoride	340	
Nitrate (NO_3)	352	
Silica (SiO_2)	370	
Sulfate (SO_4)	375	
Total Sulfur (S)	Various	
Total Alkalinity	310	
Total Dissolved Solids (TDS)	160.1	
Total Suspended Solids (TSS)	160.2	
Oil and Grease	413 or 1664	
Conductivity	120	

All methods listed are EPA or EPA equivalent, unless otherwise noted.

TABLE NO. 3

TEST PARAMETERS FOR TYPE III SAMPLE

Parameter	Regulatory Level (mg/l)	Method As described in 40 CFR (1998):
Ignitability		Part 261.21
Corrosivity		Part 261.22
Reactivity		Part 261.23
Inorganics:		Method 1311 (TCLP), with appropriate methods of analyses contained in SW-846
arsenic	5.0	
barium	100.0	
cadmium	1.0	
chromium	5.0	
lead	5.0	
mercury	0.2	
selenium	1.0	
silver	5.0	
Organics:		1311
benzene	0.5	
carbon tetrachloride	0.5	
chlorobenzene	100.0	
chloroform	6.0	
o-cresol	200.0	
m-cresol	200.0	
p-cresol	200.0	
1,4-dichlorobenzene	7.5	
1,2-dichloroethane	0.5	
1,1-dichloroethylene	0.7	
2,4-dinitrotoluene	0.13	
hexachlorobenzene	0.13	
hexachloro-1,3-butadiene	0.5	
hexachloroethane	3.0	
methyl ethyl ketone	200.0	
nitrobenzene	2.0	
pyridine	5.0	
tetrachloroethylene	0.7	
trichloroethylene	0.5	
2,4,5-trichlorophenol	400.0	
2,4,6-trichlorophenol	2.0	
vinyl chloride	0.2	

TABLE NO. 4

TEST PARAMETERS FOR TYPE IV SAMPLE

Parameter	Method
Volatile Organics	524/624/8240/8260
Benzene	
Bromodichloromethane	
Bromoform	
Bromomethane	
Carbon Tetrachloride	
Chlorobenzene	
Chloroethane	
2-Chloroethylvinyl ether	
Chloroform	
Chloromethane	
Dibromochloromethane	
1,2-Dichlorobenzene	
1,3-Dichlorobenzene	
1,4-Dichlorobenzene	
1,1-Dichloroethane	
1,2-Dichloroethane	
1,1 Dichloroethylene	
trans-1,2-Dichloroethene	
1,2-Dichloropropane	
cis-1,3-Dichloropropene	
trans-1,3-Dichloropropene	
Ethyl benzene	
Methylene chloride	
1,1,2,2-Tetrachloroethane	
Tetrachloroethene	
Toluene	
1,1,1-Trichloroethane	
1,1,2-Trichloroethane	
Trichloroethene	
Trichlorofluoromethane	
Vinyl Chloride	