

Natural Gas Completions/Incident Response Analyte List

Analyte	Type	Units	Method
Ammonia	General Chemistry	mg/L	EPA 200.7 4.4
Bromide	General Chemistry	mg/L	ASTM D1246-05
Calcium	General Chemistry	mg/L	EPA 200.7 4.4
Chloride	General Chemistry	mg/L	SM 4500-CL D-11
Fluoride -Dissolved and total	General Chemistry	mg/L	EPA 300.0 2.1
Nitrate	General Chemistry	mg/L	EPA300.0 2.1
Nitrite	General Chemistry	mg/L	EPA300.0 2.1
pH	General Chemistry	SU	SM 4500-H+
Phosphorus-Reactive and Total	General Chemistry	mg/L	SM 4500 PE 11
Sulfate	General Chemistry	mg/L	ASTM D516-07
Total Dissolved Solids	General Chemistry	mg/L	SM2540 C-11
TOTAL General Chemistry Analytes		11	
Aluminum	Metals	mg/L	EPA 200.7 4.4
Arsenic	Metals	mg/L	EPA 200.7 4.4
Barium	Metals	mg/L	EPA 200.7 4.4
Boron	Metals	mg/L	EPA 200.7 4.4
Cadmium	Metals	mg/L	EPA 200.7 4.4
Calcium	Metals	mg/L	EPA 200.7 4.4
Chromium	Metals	mg/L	EPA 200.7 4.4
Cobalt	Metals	mg/L	EPA 200.7 4.4
Iron-Dissolved and Total	Metals	mg/L	EPA 200.7 4.4
Lead	Metals	mg/L	EPA 200.7 4.4
Lithium	Metals	mg/L	EPA 200.7 4.4
Magnesium	Metals	mg/L	EPA 200.7 4.4
Manganese-Dissolved and Total	Metals	mg/L	EPA 200.7 4.4
Mercury	Metals	mg/L	EPA 245.1 3.0
Molybdenum	Metals	mg/L	EPA 200.7 4.4
Potassium	Metals	mg/L	EPA 200.7 4.4
Silver	Metals	mg/L	EPA 200.7 4.4
Sodium	Metals	mg/L	EPA 200.7 4.4
Strontium	Metals	mg/L	EPA 200.7 4.4
Vanadium	Metals	mg/L	EPA 200.7 4.4
TOTAL Metals		20	
Conductivity	Process control	µS/cm	Hach 8160
Dissolved oxygen	Process control	mg/L	Sonde
Dicharge	Process control	MGD	Meter
Reservoir height	Process control	ft	Gauge
Temperature	Process control	C	Sonde
TOTAL Process Control		5	
Gross alpha	Radiological	pCi/L	EPA 900.0
Gross beta	Radiological	pCi/L	EPA 900.0
Radium 226	Radiological	pCi/L	EPA 903.1
Radium 228	Radiological	pCi/L	EPA 904.0
Uranium	Radiological	ug/L	ASTM D5174-97
TOTAL Radiological		5	

1,1,1 Trichloroethane	Volatile organics	ug/L	EPA 8260
1,1,1,2-Tetrachloroethane	Volatile organics	ug/L	EPA 8260
1,1,2 Trichloroethane	Volatile organics	ug/L	EPA 8260
1,1,2,2,-Tetrachloroethane	Volatile organics	ug/L	EPA 8260
1,1-Dichloroethane	Volatile organics	ug/L	EPA 8260
1,1-Dichloroethene (aka 1,1 Dichloroethylene)	Volatile organics	ug/L	EPA 8260
1,1-Dichloropropene	Volatile organics	ug/L	EPA 8260
1,2 Dichlorobenzene	Volatile organics	ug/L	EPA 8260
1,2 Dichloroethane	Volatile organics	ug/L	EPA 8260
1,2 Dichloropropane	Volatile organics	ug/L	EPA 8260
1,2,3-Trichlorobenzene	Volatile organics	ug/L	EPA 8260
1,2,3-Trichloropropane	Volatile organics	ug/L	EPA 8260
1,2,4-Trichlorobenzene	Semi volatiles	ug/L	EPA 8260, EPA 8270 C
1,2,4-Trimethylbenzene	Volatile organics	ug/L	EPA 8260
1,2-Dibromo-3-chloropropane	Volatile organics	ug/L	EPA 8260
1,2-Dibromoethane	Volatile organics	ug/L	EPA 8260
1,2-Dichlorobenzene	Volatile organics	ug/L	EPA 8260, EPA 8270 C
1,2-Dichloropropane	Volatile organics	ug/L	EPA 8260
1,3,5-Trimethylbenzene	Volatile organics	ug/L	EPA 8260
1,3-Dichlorobenzene	Volatile organics	ug/L	EPA 8260
1,3-Dichloropropane	Volatile organics	ug/L	EPA 8260
1,4-Dichlorobenzene	Volatile organics	ug/L	EPA 8260, EPA 8270 C
2,2-Dichloropropane	Volatile organics	ug/L	EPA 8260
2-Butanone	Volatile organics	ug/L	EPA 8260
2-Chlorotoluene	Volatile organics	ug/L	EPA 8260
2-Hexanone	Volatile organics	ug/L	EPA 8260
3,3'-Dichlorobenzidine	Semi volatiles	ug/L	EPA 8270 C
4-Chlorotoluene	Volatile organics	ug/L	EPA 8260
4-Isopropyltoluene	Volatile organics	ug/L	EPA 8260
4-Methyl-2-pentanone	Volatile organics	ug/L	EPA 8260
Acetone	Volatile organics	ug/L	EPA 8260
Anthracene	Semi volatiles	ug/L	EPA 8270 C
Benzene (B of BTEX)	Volatile organics	mg/L	EPA 8260
Benzidine	Semi volatiles	ug/L	EPA 8270 C
Benzo[a]anthracene	Semi volatiles	ug/L	EPA 8270 C
Benzo[b]fluoranthene	Semi volatiles	ug/L	EPA 8270 C
Benzo[g,h,i]perylene (PAH)	Semi volatiles	ug/L	EPA 8270 C
Benzo[k]fluoranthene (PAH)	Semi volatiles	ug/L	EPA 8270 C
bis(2-Ethylhexyl)phthalate	Semi volatiles	ug/L	EPA 8270 C
Bromobenzene	Volatile organics	ug/L	EPA 8260
Bromochloromethane	Volatile organics	ug/L	EPA 8260
Bromodichloromethane (THM)	Volatile organics	ug/L	EPA 8260
Bromoform (THM)	Volatile organics	ug/L	EPA 8260
Bromomethane	Volatile organics	ug/L	EPA 8260
Butylbenzene	Volatile organics	ug/L	EPA 8260
Butylbenzylphthalate	Semi volatiles	ug/L	EPA 8270 C
Cabron tetrachloride	Volatile organics	mg/L	EPA 8260

Carbazole	Semi volatiles	ug/L	EPA 8270 C
Carbon Disulfide	Volatile organics	ug/L	EPA 8260
Chlorobenzene	Volatile organics	ug/L	EPA 8260
Chloroethane	Volatile organics	ug/L	EPA 8260
Chloroform (THM)	Volatile organics	ug/L	EPA 8260
Chloromethane	Volatile organics	ug/L	EPA 8260
Chrysene (PAH)	Semi volatiles	ug/L	EPA 8270 C
cis-1,2-Dichloroethene (aka cis-1,2-Dichloroethylene)	Volatile organics	ug/L	EPA 8260
cis-1,3-Dichloropropene	Volatile organics	ug/L	EPA 8260
Cyclohexane	Volatile organics	mg/L	EPA 8260
Dibenz[a,h]anthracene	Semi volatiles	ug/L	EPA 8270 C
Dibromochloromethane (THM)	Volatile organics	ug/L	EPA 8260
Dibromomethane	Volatile organics	ug/L	EPA 8260
Dichlorodifluoromethane	Volatile organics	ug/L	EPA 8260
Di-n-butyl phthalate	Semi volatiles	ug/L	EPA 8270 C
Di-n-octyl phthalate	Semi volatiles	ug/L	EPA 8270 C
Ethylbenzene (E of BTEX)	Volatile organics	mg/L	EPA 8260
Ethylcyclohexane	Volatile organics	ug/L	EPA 8260
Ethylene Chloride	Volatile organics	ug/L	EPA 8260
Ethyl-tert-butyl ether	Volatile organics	ug/L	EPA 8260
Fluoranthene	Semi volatiles	ug/L	EPA 8270 C
Hexachlorobutadiene	Semi volatiles	ug/L	EPA 8270 C
Indeno[1,2,3-cd]pyrene (PAH)	Semi volatiles	ug/L	EPA 8270 C
Isopropylbenzene (aka Cumene)	Volatile organics	mg/L	EPA 8260
m,p-Xylenes	Volatile organics	ug/L	EPA 8260
Methyl Cyclohexane	Volatile organics	ug/L	EPA 8260
Methyl tert butyl ether	Volatile organics	ug/L	EPA 8260
Methylene Chloride	Volatile organics	ug/L	EPA 8260
Naphthalene	Volatile organics	ug/L	EPA 8260
n-propylbenzene	Volatile organics	ug/L	EPA 8260
o-xylene	Volatile organics	ug/L	EPA 8260
Pyrene (PAH)	Semi volatiles	ug/L	EPA 8270 C
sec-butylbenzene	Volatile organics	ug/L	EPA 8260
Styrene	Volatile organics	mg/L	EPA 8260
Tert-butylbenzene	Volatile organics	ug/L	EPA 8260
Tetrachloroethene (aka Tetrachloroethylene)	Volatile organics	ug/L	EPA 8260
Toluene (T of BTEX)	Volatile organics	ug/L	EPA 8260
trans-1,2-dichloroethene (aka trans-1,2-dichloroethylene)	Volatile organics	ug/L	EPA 8260
trans-1,3-Dichloropropene	Volatile organics	ug/L	EPA 8260
Trichloroethene (aka Trichloroethylene)	Volatile organics	ug/L	EPA 8260
Trichlorofluoromethane	Volatile organics	ug/L	EPA 8260
Vinyl chloride	Volatile organics	ug/L	EPA 8260
Xylenes (total) (X of BTEX)(addition of o and mp)	Volatile organics	ug/L	EPA 8260

TOTAL Volatiles 90

GRAND TOTAL 111

