

Definitions

- R..... Received out of recommended hold time
- D..... The reported value is from a dilution
- ND..... Less than reporting limit
- RL..... Reporting limit
- CFU..... Colony forming Units

Testing has been done to record a baseline prior to construction, drilling or related drilling support operations proposed in this designated area.

For further information as to water quality standards in Pennsylvania, please refer to Chapter 93 of the PA Code <http://www.pacode.com/secure/data/025/chapter93/chap93toc.html>, Chapter 95 of the PA Code for information on waste water treatment standards: <http://www.pacode.com/secure/data/025/chapter95/chap95toc.html>, or Chapter 96 of the PA Code for Water Quality Standards Implementation: <http://www.pacode.com/secure/data/025/chapter96/chap96toc.html>

| Sample Location | | | | | | | | | | | | |
|----------------------------------|----------------|-------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Analyte | Testing Method | RL | units * | Creek A | Creek B | Creek C | Creek D | Creek E | Creek F | Creek G | Creek H | Creek I |
| Sodium | EPA 200.7 4.4 | 0.500 | mg/L | 7.51 | 31.8 | 23.6 | 27.5 | 14.0 | 44.7 | 60.9 | 8.10 | 47.8 |
| Stronium | EPA 200.7 4.4 | 0.010 | mg/L | 0.339 | 0.472 | 0.271 | 0.284 | 0.247 | 0.629 | 0.575 | 0.232 | 0.349 |
| Dissolved Gases | | | | | | | | | | | | |
| Ethane | PADEP3686 | 1.24 | mg/L | ND |
| Methane | PADEP3686 | 0.23 | mg/L | ND |
| Propane | PADEP3686 | 1.42 | mg/L | ND |
| Volatile Organics | | | | | | | | | | | | |
| Benzene | EPA624/8260 | 1.00 | ug/L | ND |
| m,p-Xylenes | EPA624/8260 | 2.00 | ug/L | ND |
| o-Xylene | EPA624/8260 | 1.00 | ug/L | ND |
| Toluene | EPA624/8260 | 1.00 | ug/L | ND |
| Ethyl Benzene | EPA624/8260 | 1.00 | ug/L | ND |
| Total Xylenes | EPA624/8260 | 1.00 | ug/L | ND |
| Surrogate: 1,2 Dichloroethane-d4 | EPA624/8260 | | | 103% | 1.06% | 104% | 105% | 104% | 116% | 100% | 123% | 115% |
| Surrogate: Toluene-d8 | EPA624/8260 | | | 99% | 98% | 98% | 98% | 100% | 102% | 99% | 103% | 100% |
| Surrogate: 4-Bromofluorobenzene | EPA624/8260 | | | 99% | 100% | 100% | 102% | 102% | 95% | 100% | 102% | 96% |
| Organics | | | | | | | | | | | | |
| Ethylene glycol | EPA8015B | 5.00 | mg/L | ND |
| Microbiology | | | | | | | | | | | | |
| Fecal Coliforms | Colilert-18 | 1 | MPN/100 ml | 41 | 3 | 3 | 24 | 3 | 118 | 95 | 201 | >200.5 |
| Total Coliform | SM9223 B-04 | 1 | per 100 ml | Present |
| E. Coli | SM9223 B-04 | 1 | per 100 ml | Present | Present | Present | Present | Absent | Present | Present | Present | Present |

*** explanation of units**
 S.U. - Standard Unit
 mg/L - milligrams per liter
 umhos/cm - u meaning micro, mhos - is a unit of conductivity which equals 1/resistance in ohms
 ug/L - micrograms per liter
 MPN/100 ml - most probable number per 100 mililiters