

PETERS TOWNSHIP SANITARY AUTHORITY
BRUSH RUN WPCP LABORATORY
DMRQA STUDIES
PERFORMANCE REPORT

Study Year	Analyte	PTSA Results	True Value	Acceptable Range	Evaluation
2003	CBOD ₅	42.3 mg/L	57.6 mg/L	25.8 - 89.4 mg/L	Acceptable
2004	CBOD ₅	90 mg/L	78 mg/L	35 - 121 mg/L	Acceptable
2005	CBOD ₅	55.1 mg/L	107 mg/L	54.1 - 160 mg/L	Acceptable
2006	CBOD ₅	12.7 mg/L	13.5 mg/L	6.02 - 21 mg/L	Acceptable
2007	CBOD ₅	27.5 mg/L	28.4 mg/L	12.7 - 44.1 mg/L	Acceptable
2008	CBOD ₅	93.2 mg/L	117 mg/L	52.5 - 182 mg/L	Acceptable
2009	CBOD ₅	32.4 mg/L	41.1 mg/L	18.4 - 63.8 mg/L	Acceptable
2010	CBOD ₅	49.8 mg/L	54.5 mg/L	24.4 - 84.6 mg/L	Acceptable
2003	Ammonia Nitrogen	7.68 mg/L	7.56 mg/L	5.83 - 9.22 mg/L	Acceptable
2004	Ammonia Nitrogen	11.5 mg/L	11.4 mg/L	8.84 - 13.8 mg/L	Acceptable
2005	Ammonia Nitrogen	6.5 mg/L	7.07 mg/L	5.19 - 8.92 mg/L	Acceptable
2006	Ammonia Nitrogen	12.3 mg/L	12.3 mg/L	9.13 - 15.3 mg/L	Acceptable
2007	Ammonia Nitrogen	1.65 mg/L	1.83 mg/L	1.24 - 2.53 mg/L	Acceptable
2008	Ammonia Nitrogen	7.19 mg/L	7.55 mg/L	5.55 - 9.51 mg/L	Acceptable
2009	Ammonia Nitrogen	7.84 mg/L	8.52 mg/L	6.28 - 10.7 mg/L	Acceptable
2010	Ammonia Nitrogen	15.7 mg/L	16.6 mg/L	12.4 - 20.5 mg/L	Acceptable
2003	pH	9.0 s.u.	9.16 s.u.	8.88 - 9.43 s.u.	Acceptable
2004	pH	7.8 s.u.	7.99 s.u.	7.76 - 8.21 s.u.	Acceptable
2005	pH	5.7 s.u.	5.76 s.u.	5.56 - 5.96 s.u.	Acceptable
2006	pH	5.6 s.u.	5.59 s.u.	5.39 - 5.79 s.u.	Acceptable
2007	pH	6.2 s.u.	6.18 s.u.	5.98 - 6.38 s.u.	Acceptable
2008	pH	6.39 s.u.	6.46 s.u.	6.26 - 6.66 s.u.	Acceptable
2009	pH	9.34 s.u.	9.30 s.u.	9.10 - 9.50 s.u.	Acceptable
2010	pH	7.54 s.u.	7.53 s.u.	7.33 - 7.73 s.u.	Acceptable
2003	Total Suspended Solids	63 mg/L	70.9 mg/L	54.6 - 76.4 mg/L	Acceptable
2004	Total Suspended Solids	74 mg/L	74.9 mg/L	57.4 - 80.4 mg/L	Acceptable
2005	Total Suspended Solids	56.2 mg/L	60.9 mg/l	48.4 - 68.8 mg/L	Acceptable
2006	Total Suspended Solids	57.5 mg/L	70.2 mg/l	56.6 - 78.7 mg/L	Acceptable
2007	Total Suspended Solids	34.6 mg/L	39.6 mg/l	29.6 - 46.2 mg/L	Acceptable
2008	Total Suspended Solids	54 mg/L	51.6 mg/l	40.2 - 58.9 mg/L	Acceptable
2009	Total Suspended Solids	88 mg/L	93.3 mg/l	77 - 103 mg/l	Acceptable
2010	Total Suspended Solids	92 mg/L	93.8 mg/l	77.4 - 104 mg/L	Acceptable
2003	Total Residual Chlorine	2.05 mg/L	2.09 mg/L	1.6 - 2.36 mg/L	Acceptable
2004	Total Residual Chlorine	0.52 mg/L	0.518 mg/L	0.347 - 0.645 mg/L	Acceptable
2005	Total Residual Chlorine	0.73 mg/L	0.93 mg/L	0.67 - 1.16 mg/L	Acceptable
2006	Total Residual Chlorine	0.55 mg/L	0.64 mg/L	0.465 - 0.807 mg/L	Acceptable
2007	Total Residual Chlorine	1.31 mg/L	1.43 mg/L	1.03 - 1.77 mg/L	Acceptable
2008	Total Residual Chlorine	0.89 mg/l	0.93 mg./L	0.671 - 1.16 mg/L	Acceptable
2009	Total Residual Chlorine	0.65 mg/L	0.70 mg/L	0.507 - 0.88 mg/L	Acceptable
2010	Total Residual Chlorine	1.97 mg/L	2.09 mg/L	1.49 - 2.57 mg/L	Acceptable
2006	Fecal Coliform	133 #/100 ml	190 #/100 ml	13 - 2800 #/100 ml	Acceptable
2007	Fecal Coliform	260 #/100 ml	440 #/100 ml	12 - 2200 #/100 ml	Acceptable
2008	Fecal Coliform	138 #/100 ml	1230 #/100 ml	114 - 2470 #/100 ml	Acceptable
2009	Fecal Coliform	143 #/100 ml	203 #/100 ml	40 - 1040 #/100 ml	Acceptable
2010	Fecal Coliform	93 #/100 ml	73 #/100 ml	12 - 443 #/100 ml	Acceptable

1 mg/L is the equivalent of 1 minute in 2 years or 1 inch in 16 miles