



NJDWQI Testing Subcommittee

1,2,3 – Trichloropropane (1,2,3-TCP)

New Jersey Drinking Water Quality Institute
September 30, 2015

1,2,3-Trichloropropane

Background on PQL Recommendation

- Early detections in 1999 in private wells in Atlantic County
- NJ Department of Health Laboratory provided laboratory performance data
- USEPA Method 504.1
- 0.005 ug/L method detection limit (MDL)
- To derive the PQL:
 - Peer reviewed publications
 - DWQI methodology (1996)
 - GWQS methodology
- $0.005 \text{ ug/L} \times 5 = 0.025 \text{ ug/L}$, rounded to 0.03 ug/L
- In 1999, NJDEP “Guidance Level” for Drinking Water was 0.03 ug/L



1,2,3-Trichloropropane

Overview of 2009 PQL Recommendation

- Additional detections 1999 through 2009 - Cumberland, Salem, Gloucester, Union and Camden Counties
- DWQI reviewed USEPA Method 504.1 performance from NJDOH Laboratory
- In 2009, the Testing Subcommittee recommended a PQL of 0.03 ug/L to the NJDEP

1,2,3-Trichloropropane PQL Update

- Since 2009, 1,2,3-TCP also found in Burlington County water systems
- 1,2,3-TCP included in USEPA Unregulated Contaminant Monitoring Rule 3
 - January 1, 2013- December 31, 2015
 - USEPA method 524.3
 - USEPA approved laboratories are required to achieve minimum reporting level (MRL) of 0.03 ug/L
- Testing Subcommittee requested NJ Certified Labs submit USEPA Method 504.1 MDL and RL data
- In addition to the above information, to finalize the PQL recommendation, the Testing Subcommittee will perform a bootstrap estimate of the mean analysis for 1,2,3-TCP