



A Middlesex Water Company Affiliate

Douglas E. Rambo, P.G.
Hydrogeologist
Water Supply Section
Source Water Protection Program
89 Kings Highway, Dover, DE. 19901
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Phone: (302) 739-9369

RE: Seawinds replacement well
(REF # 74545)

Dear Mr. Rambo,

Tidewater Utilities Inc. (TUI) has a Public Well Monitoring Plan and a Treatment Implementation Procedure which includes the Delaware Office of Drinking Water's (ODW) procedure for water treatment implementation.

Public well Monitoring Plan:

- All new wells are tested for anions.
- All existing wells are tested on a triennial basis in accordance with TUI Well Sampling Program.
- Nitrate levels of 5 mg/L; the well is monitored on a quarterly basis.
- Nitrate levels of 7 mg/L; the well is monitored monthly.
- If the nitrate level reaches 8 mg/L, TUI follows the Treatment Implementation Procedure.

***(Samples are collected by AST certified samplers and analyzed by the Delaware Public Health Laboratory.)**

Treatment Implementation Procedures:

- TUI uses ion exchange for nitrate removal if nitrate levels reach 8 mg/L.
- TUI submits a plan to ODW for an Approval to Construct Permit.
- Once the Approval to Construct permit is issued, the treatment equipment is installed at the facility.
- TUI conducts bacteriological sampling & testing on all wells, treatment equipment and piping.
- Bacteriological results are submitted to ODW with the request for an Approval to Operate Certificate.
- Ion exchange resin is loaded into the treatment units, and rinsed until the pH reaches the ODW permitted level.
- The treatment equipment is put online, and the treated water is sent to the distribution system.
- Monthly compliance monitoring for nitrates begins once the treatment is online.

TUI complies with bacteria testing as required by the Regulations Governing Public Drinking Water Systems for the State of Delaware.

- New wells are tested for bacteria, along with other water quality analytes, before placing them in service. Those results are submitted to the Office of Drinking Water (ODW) who approves the well for use.
- Tidewater samples monthly for bacteria within our 50 PWSID's as required by ODW regulations. If a sample is positive for bacteria, resamples are collected which includes a sample from each well source.
- As part of Tidewater's well program, wells are sampled every three years for water quality including bacteria testing.

If you have any questions, feel free to contact me at (302) 747-1337 or by email pperis@middlesexwater.com.

Sincerely,

Paul S. Peris

Paul S. Peris

Director of Production and Maintenance

TIDEWATER UTILITIES, INC.

"Southern Delaware's Premier Water Company Since 1964"

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