

# Type I Well Approval Process

revised Dec-09

- |  | Date Completed       |
|--|----------------------|
| 1 <input type="checkbox"/> Preparation for well site inspection:   | <input type="text"/> |
| <input type="checkbox"/> Request a site plan detailing property lines, well isolation areas, etc.  |                      |
| <input type="checkbox"/> Query site on MapImage Viewer for major sources of contamination within 2000 feet   |                      |
| <input type="checkbox"/> Review site plan and system status/reason for additional well   |                      |
| 2 <input type="checkbox"/> Well Site Inspection  | <input type="text"/> |
| <input type="checkbox"/> Potential sources of contamination w/in 200 feet:<br><i>(sewers, manholes, septic tanks, etc.)</i>  |                      |
| <input type="checkbox"/> Verify that the well owner owns/controls the entire required isolation area   |                      |
| <input type="checkbox"/> Potential sources of major contamination w/in 2000 feet or delineated recharge area:<br><i>(landfills, leaking underground storage tanks, etc.)</i><br><i>(if yes, is the owner going to delineate the capture zone?)</i>   |                      |
| <input type="checkbox"/> Subject to flooding   |                      |
| <input type="checkbox"/> Reasonable access   |                      |
| 3 <input type="checkbox"/> Adverse Resource Impact (ARI) Assessment  | <input type="text"/> |
| <i>(required for wells rated <math>\geq 70</math> gpm cumulative over established baseline)</i>  |                      |
| <input type="checkbox"/> 0.1 MGD (70 gpm) or more and less than 2 MGD (1400 gpm)<br>Complete ARI Assessment request form and submit to WWCIU staff<br>WWCIU staff completes ARI assessment (7 to 10 days)<br>Obtain water withdrawal authorization from WWCIU staff<br>District notifies PWSS of possible restrictions on rate or period of pumping  |                      |
| <input type="checkbox"/> 2 MGD or more (>1400 gpm cumulative over established baseline)<br>Complete ARI request form and submit to WWCIU staff<br>WWCIU staff transmit Water Withdrawal information request form to PWSS<br>PWSS provides certification on water conservation measures<br>PWSS provides justification for withdrawal (Part 327 and Compact criteria)<br>WWCIU staff conducts public notice/public comment period (45 days)<br>WWCIU staff prepares response to public comment<br>Obtain water withdrawal authorization w/in 120 days of receipt of certification/justification<br>District notifies PWSS of possible restrictions on rate or period of pumping |                      |
| 4 <input type="checkbox"/> Capacity Assessment Needed for New Systems  | <input type="text"/> |
| Refer to Policy DWRP-03-013 and compilation of documents required by "New Systems Capacity Assessment Policy and Guidance:"  |                      |
| 5 <input type="checkbox"/> Approval Letter following site inspection & ARI Assessment  | <input type="text"/> |
| <input type="checkbox"/> Site approval or disapproval and any conditions   |                      |
| <input type="checkbox"/> Conclusion of ARI Assessment including any limitations on rate or period of pumping   |                      |
| <input type="checkbox"/> Detailed requirements for final approval  |                      |
| <input type="checkbox"/> If test well is proposed to be actual production well, then submit specs for review before drilling   |                      |
| <input type="checkbox"/> Refer to Policy 03-003 "Aquifer Test Requirements for Public Water Supply Wells"  |                      |
| <input type="checkbox"/> May need to refer to Policy 03-016 "Grouting of Community Water Supply Wells"   |                      |
| <input type="checkbox"/> If DWRP funding is possible, obtain clearance from the various state agencies   |                      |

Items to be completed or handled by WWCI Unit

OVER>>>>>

Date Completed

- 6  Aquifer Yield Test submitted based on test well & observation wells
- Initial review by district staff for content includes:
- At least 2 observation wells, properly spaced & constructed, used in test
  - Verify well is in Wellogic and location coordinates of well
  - Static water elevations recorded to  $\pm 0.01$  ft
  - Groundwater gradient & flow direction determined
  - Were background static water elevations collected prior to aquifer test
  - Was test well pumped at constant rate & appropriate duration of time
  - Drawdown/recovery measurements properly recorded w/respect to accuracy & frequency
  - Data collected during test presented in both paper and digital format in the report
  - Aquifer characteristics determined
  - 100-day drawdown projection for test well & aquifer
  - Maximum safe yield for test well
  - Unit 37 chemical analyses & radiological samples provided
  - Any water quality issues (arsenic, nitrate, etc?)
- Aquifer Yield Test copy sent to WWCI Unit staff for review
- 7  Aquifer Study Review Letter
- Aquifer Study reviewed by WWCI Unit and memo sent to district staff
- Based on memo, compose letter w/ following:
- Well rated capacity
  - Recommended or required pump setting
  - Aquifer protection determination (confined, unconfined, or leaky confined)
  - Isolation area required
  - Any required or recommended treatment
  - The new well should have a WHP delineation area determined
  - Potential drawdown impacts on other nearby CWS wells
  - Encourage well abandonment if applicable (i.e. failed type I or observation wells)
  - Reminder that an Act 399 construction permit needed
- 8  Final Plans and Specs for well, wellhouse, pump, chem feed, etc. rec'd
- 9  Assign WSSN number for permit to be filed under (For new Type I Systems)
- 10  Permit issued and construction initiated on well(s) and associated facilities
- 11  SDWIS: enter system info in SDWIS w/ EQA
- 12  Wellogic
- Verify coordinates for additional well(s) (test/production well should have already been entered)
  - Verify status of wells are "Type I" and correlate with WSSN
- 13  Inform water system of required updates:
- MOR - to include individual source (well) pumping
  - Monitoring Schedule
  - Contingency, Sampling Site, & General Plans
- For New Type I Systems:*
- 14  Final Inspection required prior to system start-up
- Verify that well appurtenances/system constructed as permitted
  - Verify that operator oversight is in place
  - Verify that all Capacity Development requirements are satisfied
  - Final Inspection Letter & approval for system start-up
- 15  Complete Source Water Assessment Worksheet