FDOH HILLSBOROUGH COUNTY DRINKING WATER PERMITS
(WC) WTP Permit Application Checklist
Updated 8/30/2021)

I. Completed by Clerical

Application submittal date: _____ **PA File No:** _____
Processor: _____ **PWS ID:** _____
Project Name: _____ **County:** **Hillsborough**

II. Completed by Engineer

Application Type: ☐ **New WTP** ☐ **Modification of existing WTP** **Day 90:** _____
☐ **After the Fact Permit Documentation** ☐ **Enforcement Case No.** _____
Area Inspector _____
Application review date: _____

Definitions for Public Water Systems, per Rule 62-550.200, FAC:

Community water system: a public water system that serves at least 25 of the same people year round. (they live there year round)

Non-Transient Non-Community water system: a public water system that is not a community water system and that regularly serves at least 25 of the same people over 6 months per year. (i.e. schools, daycares, office buildings, etc)

Transient Non-Community: a public water system that serves at least 25 persons a day, 60 days per year, not the same people however. (i.e. gas stations, churches, restaurants)

Application Completeness Review

Application

- ☐ Original signature(s)
- ☐ Project Description
- ☐ Location description provided
- ☐ Signed and sealed by PE or _____ 62-555.520 (3)(a-b)
- ☐ Original signature(s)
- ☐ Form properly completed
- ☐ Total Permitted Max. Operating Capacity of Plant(s) _____ MGD
- ☐ Wastewater disposed on site? If yes, check for septic permit or wasterwater treatment plant permit.

Attachments

- ☐ Well Siting Package -located at front desk in file drawer
- ☐ Water Management District Construction Permit and Well Log 62-532.400(1), 555.350(9)
- ☐ Well Clearance (10 *Bacteriological well survey taken over 5 consecutive days or 10 working days)* *62-555.315(6)(b)(1),*
- ☐ Chemical Clearance *62-550.500(11)*

Check chemical results to ensure 'Analysis Results' is less than the Maximum Contaminate Level (MCL).

- ☐ Alkalinity, dissolve iron, dissolve oxygen, pH, total sulfide and turbidity from raw well (Community Only)

  62-555.315 (5)
- ☐ Operator Contract 62-699.310(2) (*Is required for all systems except for transient non-community systems that do not provide food service. The permittee should be notified about this requirement and the contract should be submitted with the clearance application.)*
- ☐ RPZ certification (*The permittee should be notified about this requirement and the contract should be submitted with the clearance application)*
- ☐ Capacity Development *(for new ntnc or community only) 62-555.525 & Form 62-555.900(20)*
- ☐ Flood Elevation of Wells *(1 ft above 100 year flood elevation) 62-532.500(4)(b)5*
- ☐ Preliminary Design Report 62-555.520(6)
  - ☐ Total average daily water demand: _____ gpd (RSWW 8.2.1)
  - ☐ Maximum water demand: _____ gpd (RSWW 8.2.1
  - ☐ Peaking factor: _____
  - ☐ Designed service pressure range: _____ (RSWW 8.2.1)
  - ☐ Number of connections _____
  - ☐ Population Service _____

Design *(See* **Recommended Standards for Water Works (RSWW) – 2012 edition** *for additional items if not listed below)*

WELL profile(s)	☐ conc. pad (6'x6'x4") 62-532.500(4)(c) ☐ smooth-nose, down-turned raw tap 62-555.320(8)(b) ☐ check valve 62-555.320(8)(b), 3.2.7.3-RSWW ☐ 12" above pad 62-532.500(4)(b)4, 3.2.5.10-RSWW ☐ vent 62-555.320(8)(c) and 3.2.7.6-RSWW ☐ shut-off valve 6.6.1-RSWW ☐ flow meter 62.555.320(16) ☐ setbacks 62-555.312 ☐ Well pump housing 62-555.320(8)(a)
PUMPS	☐ Raw Surface Water Pumping Station – Standby pump provided – see Rule 62-555.320(7) ☐ pump curves ☐ high service pumps – see Rule 62-555.320(15)
AERATORS 4.5 RSWW	☐ Natural Draft Aeration ☐ Forced or Induced Draft Aeration ☐ Spray Aeration ☐ Pressure Aeration (*Refer to separate checklists* or rules *for detailed review)* ☐ Packed Tower Aeration
HYDRO. TANKS 7.2 RSWW, 62-555.320(19)	☐ cut sheets, spec sheets ☐ ASME (>120 gal) or https://www.watersystemscouncil.org/resources/well-standards/ansiwsc-pst-2000-2016/ ☐ volume ☐ sight glass ☐ bypass ☐ drain ☐ pressure gage ☐ manway ☐ auto P.R.V. ☐ valves ☐ means to add air Note: Verify hydro tanks are sized in accordance with 62-555.320(19) and 7.2.2 RSWW.
GROUND STORAGE RSWW 7.0, 62-555.320(19)	☐ cut sheets ☐ volume ☐ location/grading ☐ roofing ☐ drains ☐ overflow ☐ access ☐ safety ☐ vent ☐ bypass *(justify if not included)* ☐ stored water turnover RSWW 7.0.6
CHLORINATION	☐ Gas – see Rule 62-555.320(13)(a) for additional requirements ☐ Hypo – see Rule 62-555.320(13)(b) for additional requirements ☐ Eyewash Station
OTHER INFORMATION	☐ NSF certified: Components that come into contact with drinking water or drinking water treatment chemicals – see Rule 62-555.320(3)(b) ☐ Material Safety Data Sheets (MSDS) – chemical addition ☐ Approved color coding – see Rule 62-555.320(10) and (21)(b)(3) and 2.14-RSW ☐ Standby Power – see Rule 62-555.320(14) ☐ Additional cut sheets
SECURITY	☐ All treatment components access controlled with lockable fence, building or other enclosure - see Rule 62-555.320(5)
SAMPLING LOCATIONS	☐ Sampling tap required at the point of Entry - see Rule 62-555.320(17) ☐ ☐Proposed Locations: _____

☐ Enter chemical analyses Into Oracle-PWS

Parameter Initial Monitoring for Community	MCL	Result	PQL
ORGANIC CONTAMINANTS: (62-550 Table 4 & 5)			
VOC's	0.0005 ppm		
SOC's	Varies		
INORGANIC CONTAMINANTS: (62-550 Table 1)			
Antimony	0.006		
Arsenic	0.010 ppm		
~~Asbestos~~	~~7 million fibers/L~~		
Barium	2 ppm		
Beryllium	0.004 ppm		
Cadmium	0.005 ppm		
Chromium	0.1 ppm		
Cyanide	0.2 ppm		
Fluoride	4.0 ppm		
Lead	0.015 ppm		
Mercury	0.002 ppm		
Nickel	0.1 ppm		
Nitrate	10 ppm		
Nitrite	1 ppm		
Selenium	0.05 ppm		
Sodium	160 ppm		
Thallium	0.002 ppm		
RADIOLOGICAL CONTAMINANTS: (62-550.310 (6))			
Radium 226 and 228 Combined	5 pCi/L		
Gross Alpha	15 pCi/L		
Uranium	20 pCi/L		
SECONDARY CONTAMINANTS: (62-550 Table 6)			
Total Dissolved Solids (TDS)	500 ppm		
Chloride	250 ppm		
Sulfate	250 ppm		
Foaming Agents	0.5 ppm		
Aluminum	0.2 ppm		
Copper	1 ppm		
Fluoride	2.0 ppm		
Iron	0.3 ppm		
Manganese	0.05 ppm		
Silver	0.1 ppm		
Zinc	5 ppm		
Color	15 color units		
Odor	3 threshold odor #		
pH	8.5 (minimum 6.5)		
Black Water Parameter Rule 62-555.315(5)(a)			

Parameter Initial Monitoring for TNC	MCL	Result	PQL
Nitrate	10 ppm		
Nitrite	1 ppm		

Parameter Initial Monitoring for NTNC	MCL	Result	PQL
ORGANIC CONTAMINANTS:			
VOC's	0.0005 ppm		
SOC's	Varies		
LEAD & COPPER:			
Lead	0.015 ppm		
Copper	1.3 ppm		
RADIOLOGICAL CONTAMINANTS: (refer to Notes)			
Radium 226 and 228 Comb.	5pCi/L		
Gross Alpha	15 pCi/L		
Uranium	20 pCi/L		
INORGANIC CONTAMINANTS:			
Antimony	0.006		
Arsenic	0.010 ppm		
Asbestos	7 million fibers/L		
Barium	2 ppm		
Beryllium	0.004 ppm		
Cadmium	0.005 ppm		
Chromium	0.1 ppm		
Cyanide	0.2 ppm		
Fluoride	4.0 ppm		
Mercury	0.002 ppm		
Nickel	0.1 ppm		
Nitrate	10 ppm		
Nitrite	1 ppm		
Selenium	0.05 ppm		
Sodium	160 ppm		

VOC for Community	MCL (mg/L)	Result	PQL
ORGANIC CONTAMINANTS: (62-550 Table 4)			
1,1-Dichloroethylene	0.007		
1,1,1-Trichloroethane	0.2		
1,1,2-Trichloroethane	0.005		
1,2-Dichloroethane	0.003		
1,2-Dichloropropane	0.005		
1,2,4-Trichlorobenzene	0.07		
Benzene	0.001		
Carbon Tetrachloride	0.003		
cis-1,2-Dichloroethylene	0.07		
Dichloromethane	0.005		
Ethylbenzene	0.7		
Monochlorobenzene	0.1		
o-Dichlorobenzene	0.6		
para-Dichlorobenzene	0.075		
Styrene	0.1		
Tetrachloroethylene	0.003		
Toluene	1		
trans-1,2-Dichloroethylene	0.1		
Trichloroethylene	0.003		
Vinyl chloride	0.001		
Xylenes (total)	10		

SOC for Community	MCL (mg/L)	Result	PQL
ORGANIC CONTAMINANTS: (62-550 Table 5)			
2,3,7,8-TCDD (Dioxin)	$3x10^{-8}$		
2,4-D	0.07		
2,4,5-TP (Silvex)	0.05		
Alachlor	0.002		
Atrazine	0.003		
Benzo(a)pyrene	0.0002		
Carbofuran	0.04		
Chlordane	0.002		
Dalapon	0.2		
Di(2-ethylhexyl)adipate	0.4		
Di(2-ethylhexyl)phthalate	0.006		
Dibromochloropropane	0.0002		
Dinoseb	0.007		
Diquat	0.02		
Endothall	0.1		
Endrin	0.002		
Ethylene dibromide	0.00002		
Glyphosate	0.7		
Heptachlor	0.0004		
Heptachlor epoxide	0.0002		
Hexachlorobenzene	0.001		
Hexachlorocyclopentadiene	0.05		
Lindane	0.0002		
Methoxychlor	0.04		
Oxamyl (vydate)	0.2		
Pentachlorophenol	0.001		
Picloram	0.5		
Polychlorinated biphenyls	0.0005		
Simazine	0.004		
Toxaphene	0.003		

NOTES:

- MCL = Maximum Contaminant Level
- PQL = Practical Quantitation Limit
- ppm = parts per million (or milligrams per liter)
- ppb = parts per billion (or micrograms per liter)
- VOC = Volatile Organic Contaminant
- SOC = Synthetic Organic Contaminant
- pCi/L = picocuries per liter
- Radiological Conversion Factor: 1.50 pCi = 1.00 µg
- Nitrate/Nitrite level for increased monitoring is 1/2 MCL
- 0.0005 ppm is the VOC detect level, not MCL
- Bacteriological monitoring is not included in the above lists
- Radium 226 and 228 combined should yield a result less than 5 pCi/L
- *PSC:* Typically for the following Counties: Pasco, and Pinellas
- *MSDS:* Material Safety Data Sheets
- Radiological Contaminants for community and NTNC Water systems *(refer Rad DOH Surg Ltr Dr Ros Letter and Reply.pdf, emailed 5/17/2010)*

Review Comments:

Permit Preparation and Processing

- ☐ RAI (approved by reviewer) – Date Sent: _____ Date Received:_____
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- ☐ PA Events entry

  Incomplete Date: _____ Complete Date: _____
- ☐ PA Comments entry
- ☐PA- Permit Issued -Print sheet and attach to permit documentation

Permit Approval

- ☐ Engineer updates Oracle PA events (Stop Clock). Issue permit date
- ☐PA- Permit Issued -Print sheet and attach to permit documentation
- ☐ Generate Permit, Clerk Certification and Notice of Permit Issuance
- ☐ Engineer submits entire packet to Environmental Supervisor Date_____

  ☐ Approver completes review, and gives to Support staff who emails permit documents and files permit in file room

  Approver Initials_____ Date of Approval:_____ Date to Clerical_____

Notes: _____