

**PART I**  
**DISCHARGE PERMIT NO. UT0020427**  
**WASTEWATER**

Parameter	Outfall 001R Effluent Limitations <sup>14</sup>				
	Max Monthly Average	Max Weekly Median	Max Daily Average	Minimum	Maximum
Turbidity <sup>15</sup> , NTU	-	-	2.0	-	5.0
TRC <sup>10, 16</sup> , mg/L	-	-	-	1.0	-
BOD <sub>5</sub> , mg/L	10	-	-	-	-
<i>E. coli</i> <sup>17</sup> , No/100mL	-	0	-	-	9
pH, Standard Units	-	-	-	6.0	9.0

Reuse Outfall 001R Self-Monitoring and Reporting Requirements <sup>18, 19</sup>			
Parameter	Frequency	Sample Type	Units
Total Flow	Continuous	Recorder	MGD
Turbidity	Continuous	Recorder	mg/L
TRC <sup>20, 21</sup>	Daily	Recorder	mg/L
BOD <sub>5</sub>	Weekly	Composite	mg/L
<i>E. coli</i> <sup>22</sup>	Daily	Grab	No./100mL
pH	Daily	Grab	SU

3. Compliance Schedule for TBPEL Variance, ammonia TRC effluent limits.

- a. May 1, 2019 – Submit to DWQ a City Council resolution supporting the pursuit of the facility upgrade for the selected biological phosphorus and ammonia removal technology. The resolution shall include the approximate budget for the facility upgrade. If Payson is not pursuing a biological phosphorus removal technology the TBPEL variance will terminate, final limits for ammonia and TRC will continue as per the effluent limits table below.
- b. July 1, 2019 – Submit to DWQ an annual report relating to its phosphorus discharges as detailed in the TBPEL Variance.

15 An alternative disposal option or diversion to storage must be automatically activated if turbidity exceeds the maximum instantaneous limit for more than 5 minutes, or chlorine residual drops below the instantaneous required value for more than 5 minutes, where chlorine disinfection is used.

16 The facility is required to disinfect to destroy, inactivate or remove pathogenic microorganisms by chemical, physical or biological means. Disinfection may be accomplished by chlorination, ozonation, or other chemical disinfectants, UV radiation or other approved processes.

17 The weekly median *E. coli* concentration shall be non-detect,

18 See Definitions, Part VIII, for definition of terms.

19 Reuse monitoring results obtained during the previous month for reuse discharges shall be summarized for each month and reported on a Monthly Operational Report, post-marked no later than the 28th day of the month following the completed reporting period.

20 Residual is recommended but no longer required. Sampling not required if chlorination is not being used. The total residual chlorine shall be measured continuously and shall at no time be less than 1.0 mg/l after 30 minutes contact time at peak flow. A 1 mg/l total chlorine residual is recommended after disinfection and before the treated effluent goes into the distribution system.

21 The facility is required to disinfect to destroy, inactivate or remove pathogenic microorganisms by chemical, physical or biological means. Disinfection may be accomplished by chlorination, ozonation, or other chemical disinfectants, UV radiation or other approved processes.

22 The weekly median *E. coli* concentration shall be non-detect.

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- c. December 1, 2019 – Submit to DWQ a complete Capital Facilities Plan with the recommended biological phosphorus, ammonia removal technology and disinfection system.
  - d. July 1, 2020 – Submit to DWQ an annual report relating to its phosphorus discharges as detailed in the TBPEL Variance.
  - e. January 1, 2021 – Submit to DWQ documentation of financial planning for the required facility upgrades. In addition, if rate increases are necessary Payson shall have passed the required rate increase resolution by no later than January 1, 2021.
  - f. July 1, 2021 – Submit to DWQ an annual report relating to its phosphorus discharges as detailed in the TBPEL Variance.
  - g. January 1, 2022 – Submit to DWQ an approvable complete construction permit application for new facilities to meet permit effluent limit requirements.
  - h. July 1, 2022 – Submit to DWQ an annual report relating to its phosphorus discharges as detailed in the TBPEL Variance.
  - i. July 1, 2023 – Complete facility construction commissioning and start-up.
  - j. July 1, 2023 – Submit to DWQ an annual report relating to its phosphorus discharges as detailed in the TBPEL Variance.
  - k. January 1, 2024 – Comply with all permit effluent limits and conditions.
4. Acute/Chronic Whole Effluent Toxicity (WET) Testing.
- a. *Whole Effluent Testing – Acute Toxicity.* The requirement to monitor for whole effluent toxicity (WET) Acute Toxicity has been eliminated in this permit. This permit may be reopened and modified (following proper administrative procedures) to include, WET limitations, a compliance date, a compliance schedule, a change in the WET protocol, additional or modified numerical limitations, or any other conditions related to the control of toxicants in accordance with *Part VII, Q* of this permit.
  - b. *Whole Effluent Testing – Chronic Toxicity.* Starting on immediately, the permittee shall quarterly, conduct chronic static renewal toxicity tests on a grab or composite sample of the final effluent at Outfall 001. The sample shall be collected at the point of compliance before mixing with the receiving water.

Three samples are required and samples shall be collected on Monday, Wednesday and Friday of each sampling period or collected on a two day progression for each sampling period. This may be changed with Director approval.

The chronic toxicity tests shall be conducted in general accordance with the procedures set out in the latest revision of Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms, Fourth Edition, October 2002, EPA—821-R-02-013 as per 40 CFR 136.3(a) TABLE IA-