



State of Utah

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DIVISION OF WATER QUALITY
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June 23, 2020

DIVISION OF WATER QUALITY
UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY
PUBLIC NOTICE OF RENEWAL OF A UPDES PERMIT

PURPOSE OF PUBLIC NOTICE

The purpose of this public notice is to declare the State of Utah's intention to reissue a Utah Pollutant Discharge Elimination System (UPDES) permit under authority of the Utah Water Quality Act, Section 19-5-104 and 107, Utah Code Annotated 1953, as amended. Said "permit" refers to UPDES permit and statement of basis (including the Total Maximum Daily Loads (TMDL's)) if applicable, as per Section 303 (d) of the Federal Clean Water Act (CWA).

PERMIT INFORMATION

PERMITTEE NAME: St. George Regional Water Reclamation Facility
MAILING ADDRESS: 175 East 200 North, St. George, UT 84770
TELEPHONE NUMBER: 801-489-2745
FACILITY LOCATION: 3780 South 1550 West, St. George, UT 84770
UPDES PERMIT NO.: UT0024686
PERMITTED OUTFALLS 001
RECEIVING WATER: Virgin River

BACKGROUND

St. George Regional Water Reclamation Facility (SGWRF) is located at 2176 West 3780 South, St. George, Utah and serves St. George and the surrounding areas of Ivins, Santa Clara and Washington City. The facility began discharging in 1990 with a 5 MGD design capacity, was upgraded in 1994 to an 8.5 MGD capacity, and the latest upgrade was completed in 1999 bringing the plant design capacity to an average daily flow of 17 MGD. The plant is currently under Phase 2 of an upgrade to increase the capacity to 25 MGD.

The facility abandoned the original Outfall 001 and 002 during a plant Phase 1 in 2019. The current Outfall 001 discharge point is located directly south of the old outfalls at the southeast side of the treatment plant, the north bank of the Virgin River, approximately three miles (3 miles) southwest of where the Virgin River crosses under the I-15 Interstate Highway, in Washington County, Utah. Outfall 001 has a 66 inch discharge pipe at latitude 37°02'20" and longitude 113°37'50", with STORET Number 495006. Outfall 001R is Type I Reuse for irrigation of local parks and golf courses at latitude 37°02'19" and longitude 113°37'53".

The treatment facilities consist of four 88 inch influent screw pumps, three mechanical bar screens, two Vortex/stacked tray grit chambers, one bio selector, four oxidation ditches, six clarifiers, three low pressure ultraviolet disinfection systems, and one cascade aeration systems. Sludge is currently wasted from the clarifiers into two gravity thickeners. The sludge is then transferred to the post auto-thermal thermophilic aerobic digestion (ATAD) holding tank and then pumped into the solids building feeding three centrifuges for de-watering purposes. The sludge is transported to the County Landfill for burial.

Phase 1 and Phase 2 of the plant upgrades the Headworks to a design of a maximum daily average of 50 MGD, 4 screw pumps each rated at 16.7 MGD, 3 bar screens each rated at 25 MGD and a grit washer rated at 50 MGD. The UV disinfection will go from divided trains to a combined process with three UV channels each rated at 25 MGD and with one discharge point to the Virgin River with a maximum daily average of 50 MGD.

Phase 2 is an upgrade of the biological process with the addition of nutrient removal systems beginning fall 2020. The upgrade will have improvements to the Bio-Selector, train 1 and 2 RAS/WAS pump station, solids holding basin and electrical. The odor control biofilter will be replaced, all four oxidation ditches will be converted and there will be a new blower building and two new secondary clarifiers.

PUBLIC COMMENTS

Public comments are invited any time prior to the deadline of the close of business on **July 23, 2020**. Written public comments can be submitted to: Sarah Leavitt Ward, UPDES Surface Water Section, Utah Division of Water Quality, PO Box 144870, Salt Lake City, Utah 84114-4870 or by email at: sarahward@utah.gov. After considering public comment, the Division of Water Quality may reissue, revise, or abandon it. The permit is available for public review under “Public Participation” at <https://deq.utah.gov/public-notices-archive/water-quality-public-notices>. If internet access is not available, a copy may be obtained by calling Sarah Leavitt Ward at 385.332.9574.