



GOBIERNO DE PUERTO RICO

Autoridad de Acueductos y Alcantarillados

Adopted Local Limits for Jayuya WWTP

The Jayuya WWTP is located at Road 144 Km 1.0 in Jayuya Abajo Ward in the Municipality of Jayuya. The plant operates under National Pollutant Discharge Elimination System (NPDES) permit number PR0026531. The treatment process consists of mechanical bar screens, grit removal, and screw-type lift pumps. The flow is then split between two oxidation ditches, which are arranged with anoxic zones for nitrogen and phosphorus removal. The flow then passes through sand filters and is chlorinated before discharge. The sludge handling facilities consist of a sludge tank and sludge drying beds.

PRASA has completed a Technically Based Local Limits (TBLL) evaluation to meet NPDES requirements for the Jayuya WWTP. The limits that will be adopted by PRASA have been developed in accordance with EPA's Technical Support Document *Local Limits Development Guidance*¹ and in accordance with NPDES Permit No. PR0026531 Part 1, A. Special Conditions, No. 21 c. Table 1 lists the local limits to be adopted by PRASA.

Table 1. Adopted Local Limits

Parameter	Previous Limit	Adopted Local Limit
Arsenic	Monitor Only	0.022 mg/L
Cadmium	0.1 mg/L	0.002 mg/L
Copper	0.50 mg/L	0.040 mg/L
Cyanide (Free)	0.10 mg/L	0.013 mg/L
Lead	0.2 mg/L	0.134 mg/L
Mercury	0.05 mg/L	0.003 mg/L
Molybdenum	No Limit	0.100 mg/L
Nickel	0.5 mg/L	0.132 mg/L
Selenium	0.2 mg/L	0.050 mg/L
Silver	0.05 mg/L	0.043 mg/L
Zinc	0.50 mg/L	0.400 mg/L
Flow	No Limit	No Limit
BOD ₅	250 mg/L surcharge level	250 mg/L surcharge level
TSS	250 mg/L surcharge level	250 mg/L surcharge level
Color	No Limit	250 Pt/Co Units
Ammonia	No Limit	Monitor only
Total Nitrogen (TKN+NO ₃ +NO ₂)	No Limit	Monitor only
Phenols ^a	Monitor Only	1.0 mg/L

¹U.S. Environmental Protection Agency Office of Wastewater Management. 2004. *Local Limits Development Guidance*. EPA Publication EPA 833-R-04-002A. July.



Table 1. Adopted Local Limits

Parameter	Previous Limit	Adopted Local Limit
pH	6.5–9.0 SU	6.5–9.0 SU
Total Phosphorus	4 mg/L	4.0 mg/L
Oil and Grease	50 mg/L Total O&G	50 mg/L Total O&G
Temperature	40°C	40°C (104°F) at POTW 60°C (140°F) from SIU
Flammability	Specified as flashpoint <140 (°F)	No two consecutive readings at ≥5% LEL, and no reading of ≥10% LEL allowed
Total Toxic Organic	No Limit	No Limit

^a Total phenols minus unsubstituted phenol

Notes:

BOD₅ = 5-day biochemical oxygen demand

LEL = lower explosive limit

mg/L = milligram(s) per liter

POTW = publicly owned treatment works

Pt/Co = platinum cobalt

SIU = significant industrial user

SU = standard units

TSS = total suspended solids

TTO = total toxic organics

For parameters where no limit has been adopted, PRASA reserves the right to establish limits on a case-by-case basis when an industry discharges in amounts that could cause interference or pass-through.