

NFRWQPA 2011 WATER QUALITY PLAN UPDATE  
Major Point Source Inventory Data

Operating Agency: ***Resource Colorado Water and Sanitation Metropolitan District***

Utility Plan Amendment: 9/2008

CDPS Permit #: NA

Permit Expires: NA

Description of Treatment Facilities: The utility plan proposed the construction of a 0.30 mgd SBR facility.

Treatment Facility Location: The proposed facility will be located in the NW ¼, NW ¼, Section 32, T3N, R64W.

Discharge Location: COSPS05a, Box Elder Creek, Segment 5a of the Middle South Platte River Basin, in the NW ¼, NE ¼, Section 31, T3N, R64W.

Stream Segment Classification: Class 2 Warm Water Aquatic Life, Recreation Class N, and Agriculture.

Service Area Population:

Existing	2010	2015	2020	2025	2030
0	1,195	7,098	17,462	29,062	

Capacities:

	Design Capacity	Existing Load	2015	2020	2025	2030	Year at 80% Design	Year at 95% Design
Flow (mgd)	0.3	0	0.11	0.63	1.56	2.58	2016	2017
Organic (lbs./day BOD <sub>5</sub> )	976	0	275	1,576	3,903	6,435	2016	2017

Biosolids treatment and disposal: The first phase (0.30) facility will not dewater biosolids. Wet solids will be hauled off-site by a biosolids hauler/applicator for beneficial reuse at a permitted facility/site. As the treatment plant expands, the waste biosolids will be thickened and dewatered and then hauled off-site for beneficial reuse.

Treatment level: RCWSMD has only received Preliminary Effluent Limits (BOD, TSS, Fecal, E. coli, and Total Ammonia) from the CDPHE. Reuse will be used for irrigation of residential lawns and must meet Class 3 standards as listed in Regulation 84.

Estimated 5-year construction needs: Phase I-A construction will create a 0.30 mgd SBR facility. More specifically, plans include building a 0.60 mgd superstructure (concrete and piping) but only equipping the facility with 0.30 mgd of equipment. Phase I-B construction will double the capacity of the plant to 0.60 mgd.