NFRWQPA 2011 WATER QUALITY PLAN UPDATE
Major Point Source Inventory Data

Operating Agency: ***City of Erie*** Utility Plan Approved: 7/2001, Update 6/2008

SWRF: CDPS Permit #: CO-0045926 Permit Expires: 1/31/2008, Administrative Extension

NWRF: CDPS Permit #: CO-0048445 Permit Expires: 1/21/2016

Description of Treatment Facilities: South Water Reclamation Facility (SWRF): Activated sludge with secondary clarification and ultraviolet disinfection. North Water Reclamation Facility (NWRF): Integrated fixed-film activated sludge (IFAS), filtering (with the construction of reuse reservoir), and UV disinfection.

Treatment Facility Location: SWRF: NE ¼, NW ¼, Section 18, T1N, R68W. NWRF: N ½, Section 31, T2N, R68W.

Discharge Location: SWRF: Segment COSPBO7b, Coal Creek, approximately 21 miles upstream of the confluence with Coal and Boulder Creeks. NWRF: Segment COSPBO10, Boulder Creek.

Stream Segment Classification: SWRF: Class 2 Warm Water Aquatic Life, Recreation Class E, and Agriculture. NWRF: Class 1 Warm Water Aquatic Life, Recreation Class E, Water Supply, and Agriculture

Service Area Population:

Existing	2015	2020	2025	2030
19,821	26,525	33,525	40,680	49,625

Capacities:

	Design Capacity SWRF (1)	Design Capacity NWRF	Existing Load(2) Combined	2015	2020	2025	2030	Year at 80% Design	Year at 95% Design
Flow (mgd)	1.6	1.50	1.1	3.13	3.96	4.8	5.86	<2015	<2015
Organic (lbs./day BOD_5)	2,642	3223	3,000	5,517	6,973	8,462	14,314	2016	2020

(1) Pending permit renewal.
(2) Diversion structures allow staff to control flows received by each WRF.

Biosolids treatment and disposal: The NWRF will stabilize solids with lime prior to dewatering with a screw press and will produce a Class A biosolids. The SWRF will stabilize and thicken solids with aerobic digestion prior to land application. The SWRF produces Class B biosolids.

Treatment level: The degree of treatment required and effluent limitations are outlined in Permit #CO-0045926 for the SWRF and Permit #CO-0048445 for the NWRF.

Estimated 5-year construction needs: Needs include upgrades to the SWRF and collection system improvements (mostly related to development). There is also the potential for infiltration and inflow improvements.