

NFRWQPA 2011 WATER QUALITY PLAN UPDATE  
Minor Point Source Inventory Data

Operating Agency: *Shambhala Mountain Center* Utility Plan Approved: 4/2010

CDPS Permit #: COG-630000

Permit Expired: 10/31/2015

CDPS Facility #: COX-630037

Description of Treatment Facilities: 13 septic tanks, pre-sedimentation tanks, constructed wetlands, and polishing pond.

Treatment Facility Location: NE ¼, NE ¼, Section 23, T9N, R73W

Discharge Location: Groundwater (seepage) and evaporation pond located in the NE ¼, NE ¼, Section 23, T9N, R73W, in the Elkhorn Creek drainage of the Cache la Poudre River watershed.

Stream Segment Classification: NA – discharge to groundwater.

Service Area Population: Shambhala Mountain Center is limited to 450 visitors and staff on the main campus, plus an additional 80 people on the Red Feather Campus during peak months (June to September).

Capacities:

	Design Capacity	Existing Load
Flow (gpd)	7,785	Not available
Organic (lbs/day BOD <sub>5</sub> )	64	Not available

Treatment level: The degree of treatment required and effluent limitations are outlined in Permit #COG-630000 for facility #COX-630037.

Estimated 5-year construction needs: In 2011 the Center received Site Application approval for the expansion of the treatment facility to a design flow capacity of 0.033 mgd and 117 lbs. BOD<sub>5</sub>/day. The treatment process to be used for this expansion includes the replacement of grease interceptors, influent pump station, bar screen, influent flow measurement, influent conditioning/sludge storage change, anoxic chamber, sequencing batch reactors, chlorination, and discharge to groundwater. In addition the existing polishing pond/lagoon will be converted to an infiltration basin following biosolids removal after the new WWTF is constructed. The capacity of the new facility will also allow for the connection of additional existing building to the central treatment system.