

## Appendix E

### Yucca Valley Septic Nitrogen Loading Calculations

$$\text{Formula} = (\text{MG/year}) * (\text{mg/L}) * 8.345 = \text{lbs/year}$$

Year	<sup>1</sup> Volume/year (acre feet)	Volume/year (Million Gallons)	<sup>2</sup> % water delivered discharged as wastewater	<sup>3</sup> TN concentration in wastewater (mg/L)	<sup>4</sup> % of N removed in leach fields	Lbs/year TN	Tons of N/year
2009	3,000	977.6	0.83	40	20%	216,668	<b>108.3</b>

<sup>1</sup> HDWD 2009 WQ Report

<sup>2</sup> MWH Preliminary Design Report Part 1, pg 2-3

<sup>3</sup> Metcalf & Eddy, Wastewater Engineering Treatment Disposal and Reuse, 3rd edition

<sup>4</sup> Onsite Wastewater Treatment Systems by Burkes & Minnis, pg 203