

OKEECHOBEE UTILITY AUTHORITY

PROPOSED 2017 CAPITAL IMPROVEMENT PROJECTS

NUTRIENT REMOVAL ANALYSIS

Project:

TREASURE ISLAND (All)

Project Specifics

2,430 Number of new Connections

2 Per capita per Connection

\$23,860,200 Estimated Project Cost

Conversions Utilized

0.001 (multiply grams to get Kg)

0.0011 (multiply Kg to get US Tons)

TN Calculation

(based upon: 11.2 grams/day per person per day, IFAS Onsite
Sewage Treatment and Disposal Systems: Nitrogen)

11.2 (grams per capita per day) as TN

21.90 (tons/year) as TN

\$545 Cost per lb of TN to be removed by this project

TP Calculation

(based upon: 2.7 grams/day per person per day, IFAS Onsite
Sewage Treatment and Disposal Systems: Phosphorus)

2.7 (grams per capita per day) as TP

5.28 (tons/year) as TP

\$2,260 Cost per lb of TP to be removed by this project

TN & TP Calculation

(based upon: 11.2 and 2.7 grams/day per person per day removal
of TN & TP, respectively)

13.9 (grams per capita per day) as TN & TP

27.18 (tons/year) of TN & TP removal

\$439 Cost per lb of TN & TP to be removed by this project