

**From:** osciorelli@ctaes.net  
**Sent:** Friday, June 10, 2016 9:09 AM  
**To:** Jose Henriquez  
**Cc:** craig@sandberglaw.net  
**Subject:** Diamante Annexation

**Attachments:** DOC001.pdf; DOC000.pdf

Jose,

Per your request below is an information you have requested.

Attached is Diamante FILs that you are probably already have on file. They are for 59 and 57 EDU. For annexation we have submitted the 59 EDU one. The 57 is most recent one.

This was requested for agricultural pursuits on 5+ ac parcels.

A 42 unit project would require 42 EDUs for the residential portion of the project. If it is desired to irrigate vineyard with public water rather than a well it will add some EDUs to that number.

A 25 ac vineyard will have the following irrigation needs in equivalent dwelling units (EDU):

Base demand: 4 gal per vine, 1000 vines per acre, June-August (12 weeks per year):

48000 g/ac on 25 ac will equate to 1,200,000 gallons. 1gal=1/325851 ac-ft, so it takes 3.68 ac-ft per year to water a 25 ac vineyard with public water.

According to EID standards 1 EDU = 0.58 ac-ft/du so 3.68 ac-ft will equate to 6.35 EDUs.

Maximum demand for a project with 42 units and 25 ac vineyards would be 42 EDUs+6.35 EDUs=48.63 EDUs < 59 EDUs that the annexation was based on.

Please let me know if you have any questions.

**Olga V. Sciorelli, P.E.**

