

**SUMMARY OF MEETING BETWEEN INSCRIPTION
CANYON SANITARY DISTRICT (ICRSD) AND
ARIZONA DEPARTMENT OF ENVIRONMENTAL
QUALITY (ADEQ) AND ITS IMPLICATIONS**

FEBRUARY 28, 2013

ICRSD/ADEQ Meeting

Meeting held at ADEQ Offices 10:00 am., January 14, 2013

ICRSD attendees:

- Bob Hilb -ICRSD Board Chairman
- Bob Busch ICRSD District Manager
- Davin Benner, Granite Basin Engineering, ICRSD district Engineer

ADEQ attendees:

- Shivani Shah, Environ. Eng. Spec
- Bob Manley, Project Mgr.
- Asif Majeed, Manager, APP & Reuse Unit
- Wael Hassinanr, Hydrologist

ICRSD Plant Status

- ICRSD stated that actual influent flow-rate is approximately 38,000 GPD to the Santec plant with capacity of 62,500 GPD.
 - ADEQ didn't understand why they had approved a plant (MBR) for up to 455,000 GPD when the existing plant was only slightly over 50 percent of capacity.
 - ADEQ didn't understand why 200 GPD was used in the analysis when in fact it was less than 100 GPD.
 - Conservatively assuming 100 GPD per home and 2500 homes at build out, maximum capacity would need to be ~250,000 GPD, about half of what was proposed.

ICRSD Effluent Quality Requirements

- ICRSD stated that the B+ effluent from the plant was being used exclusively for irrigation the Talking Rock golf course. The golf course would be able to take all of the effluent generated by the ICRSD plant at full build-out.
- ADEQ stated that it would not be necessary to produce any more than B+ effluent as long as the golf course was the only consumer.
- ADEQ recommended that the plant not be modified to improve water quality to A+ given it's use.

ICRSD Follow-up Tasks

- Resubmit original Santec Plant permit application
 - Meets B+ effluent requirements for golf course use
 - Include decommissioning of old SBR plant
 - Solves problem of over-sized MBR plant permit and location issue
- ICRSD to establish plant expansion plans based on new and corrected information from ADEQ regarding flow-rates and expansion thresholds
- ICRSD to properly decommission original SBR plant
 - Take soil samples and submit to ADEQ
 - Repurposing of remaining SBR plant infrastructure based on sample results

Potential Next Steps

- Resubmit original Santec application with SBR closure
- Do analysis of actual plant capacity for possible rerating
- Proceed with RFQ for efficiency and capacity improvements
 - Consider implementing efficiency, odor control, and landscaping immediately
 - Produce a plan for capacity improvements
 - Determine which of the above require no APP, a minor APP, or a significant APP
- Bottom line results of the meeting indicate significant savings to the District as well as home and lot owners

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----- Original Message -----

Sent: Wednesday, May 10, 2006 1:02 PM

Subject: Re: ICRSD - ERUs

Doug,

Thanks for the information. Is it safe to assume you will convey this information back to Harvard with the other findings that have been pulled together. The Boards will be waiting for wording from you regarding how the District should set capacity and include that information in the Ordinance. With what I have just read it appears we need to eliminate any the wording regarding ERU in the Ordinance as well.

We are also looking forward to your assistance in the words for a motion that relate to any additional new phase construction. i.e. the moratorium issue.

As of our April billing we have 245 customers on line. Using the 187.2 gpd we are at 45.864 gpd. The county records show a growth of about 12 houses per month.

Again if the schedule for the Ranch Compound completion schedule is reasonable the 62,500 gpd max capacity plant is unable to meet the needs by early 2007.

Thanks

Dayne

On Wednesday, May 10, 2006, at 11:23 AM, Doug C. Nelson wrote:

Gentlemen:

Today I received the following response to my inquiry of ERUs from ADEQ.

<image.tiff>

Doug,

Your inquiry was forwarded to me for response. ADEQ does not use the term "Equivalent Residential Units" (ERUs) so I think there was some initial confusion about how to respond to your inquiry.

The capacity of a sewage treatment facility is necessary to satisfy the requirement of AAC R18-9-E301.C.1. The daily Design Flow figure in Table 1 of the APP rule was revised when the rule revisions took effect on November 12, 2005. As a result, the design flow per dwelling is now 80 gpd/person. To determine the flow per dwelling requires multiplying this figure by the number of persons/dwelling. ADEQ will accept an estimate of 2.34 persons per dwelling. This figure is derived from the year 2000 census by dividing the Total Population of AZ (5,130,632) by the Number of Households (2,189,189). If an application submitted to ADEQ uses a lower number of persons/dwelling, additional supporting documentation will be required.

I hope this helps to answer your question,