INCH

Tom McKinsey 360-716-5058
main line 360-716-5000
Fred McDonald 360-716-5057
(scheduled 6/20/08)
6/26 (Thurs), 1:30pm

Office location: 8802 27th Ave NE
Marysville

Take 88th Ave exit
turn L toward Walmart
Stay in L lane, go thru intersection
See flashing red light, go
forward, admin bldg on R

Clear Vinyl Protective Slipcovers (Item No. 30) are available for this style of notebook.
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6/26/08, 1:30 pm
Consolidated Borough of Quil Ceda Village
Class V wastewater system
8802 27th Ave NE
Tulalip, WA 98271-7433

overcast, 60° - some sun
Jennifer Parker, Calvin Terada
Tom McKinsey, Thomas Gobin, Lukas Reyes,
Fred McDonald
John McCoy, General Manager

3-5 wells used at a time, vary every
3 months or so
ave depth to gw 3-7' closer to I-5 deeper, to 15'

no chemicals stored on site
generate chlorine through electrolysis

wastewater plant is under some refurbishing
construction

WWTP operational ~ 5 yrs
This is oversized to accomodate up to
4 mill. gal/day
use flat plate treatment + filtration membrane (Kubota)
Tom Gobin has been operating plants since 1978

certified WWTP operators - 3 total operators
NO_3 in effluent 4 or less
3200 filters in use in each tank - take out fecal @ 4 u
flows ave 150K/day w/peaks @ 200k
w/ new hotel are monitoring to see
how much
for wetlands project, are looking @ endocrine
disruptors in effluent. Showing breaking
down estrogen. How will effluent be
used to recharge streams for salmon
rearing? WWU will help w/ study soon
Use effluent for landscaping now? Right at WWTP,
yes, not elsewhere in village yet. Irrigation
lines don't extend out yet.
floor drains @ WWTP lead straight back to
headworks of WWTP - will run thru system
monitoring daily, weekly, monthly

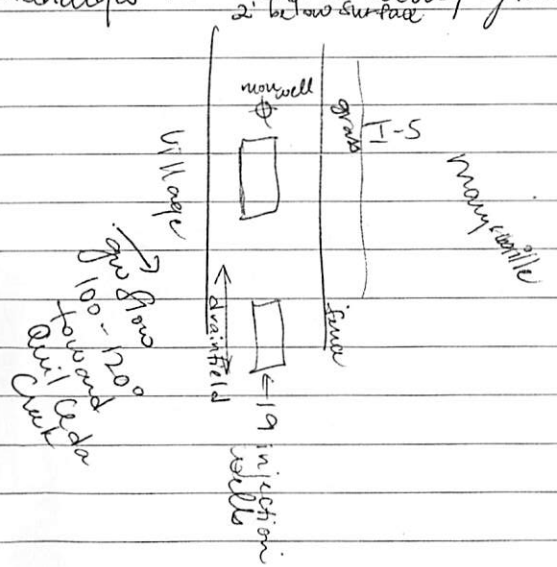
Looked @ wetland study area = 50K gallon portion of UIC ABR
purpose - will bacteria @ root level of
plants degrade endocrine
disruptors or any NO_3 residuals
in effluent?
UW working on project.

testing whether wastewater can be used to recharge salmon spawning streams (Coho Stream)

UIC channel along Quil Ceda Blvd ends at Chelsea Mall

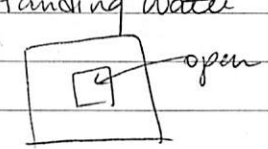
19 wells
monitor for mounding
switch wells every 6 months
running 5 wells now
purple pipe for reuse

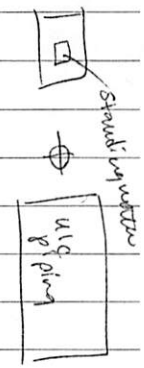
in 3" line, P valve to adjust discharges to drainfield along gravel



can you tell if drainfield is cracked?
look @ P flow, otherwise it's buried & can't see it
- issue - cars driving on top of gravel & drainfield area

opened one of the plastic caps -
standing water





after pumping, they fill up & takes time to infiltrate

Discussion at site:
if ↑ flow rate, will standing water be an issue? Running 5 UICs now, may open more to handle flow from hotel. Standing water is their trigger to open monitoring wells.
Water not running out of boxes or down road.

Exit discussion, 3pm
no concerns noted
is there a report submittal requirement? They keep on site monthly reports + weekly testing

results from the analyses they do.

Tom Gobin reports CCI lab sends out samples for fecal to an accredited dw lab.

Their ultimate goal is to ~~fin~~ have a variety of places to discharge the effluent - WC, wetland, ...

They provided examples of Nov 2007 & Jan 2008 monthly reports they keep on file. They offered others also.
Have added stream as another sampling point.

end time = 3:30 pm