

10/7/07

Willits PW.

WWTP-Stage 3 mtg

Variance Request

JC England

Tom H.

Diana S.

Ross

Jeff A.

TOM M.

Ross - JA sent memo.

Got feedback from RWQCB

TM - Where are we on hydrology.

Placing a "strip" along W side of plant

What exc is planned N of plant as mitigation

TM/Celtrans + JA - get them together

re: hydrology - what effect on

our FEMA applications

JC's questions

Issues raised yesterday @ the RWQCB

Ross - Lisa + John - encouragement to

apply now for changes. RWQCB says they will "back" them up (in wetlands)

TH - Orig the entire plant was to be abandoned. Now replacing entire mech plant + keep the (e) running

1. JA response - Q1

- 10-15 days of influent storage need 1.5 mo
- doubling the plant capacity some should be offset
- JA on board since 1997
- Encouraged to store additional effluent
- Need 10x amt of storage if going to try to manage eff than mechanical plant.

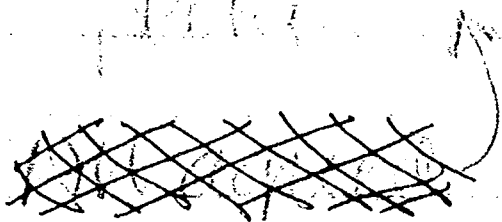
JC's complaint - doesn't want to lose front end (~~not necessarily~~ enlarge) and has not been able to use it as storage.

JA - Part of disconnect could be -

Delta ponds are a huge impact to flooding
TH's understanding - good quality

- TH - Very limited footprint. Now we need to handle sludge (didn't have to w/ wetlands)
- Storage is now providing some pretreatment
TH - we get a guarantee

It is not necessary to have
inherent storage. It can be over
have a large volume of
buffer on the west end of the
plant.



* What direction do we go?

Variance request only deals w/ discharge
rates. Not a management plan, not how
the plant operates.

* Upfront Storage Volume =

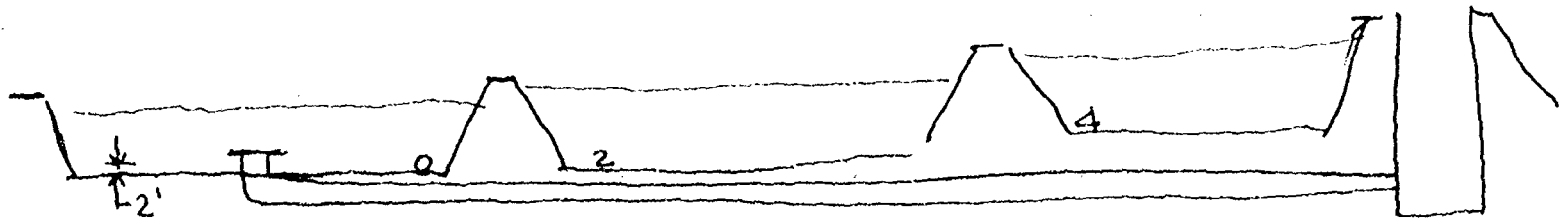
Hydr Cap + plus storage wetlands

If all upfront storage is protected, are
JC's concerns satisfied

(2) - What about after May 15th
Pond should ~~be~~

* Do we want to ask PG+E of cost to
extend power to N. end of the Storage
Lagoon

4/



JA - John Short is encouraging the Board to say spraying seasonal wetlands is okay.

Ability to spray at agronomic rates is going to get tighter

JS told City "at least you guys are trying."

Corp may not want them to irrigate the Δ and other part called "mitigation area."

Wetland will be ^{ditch} cooler or equal to the Meek Plant effl. will still have
100 acre
Long 20
Niesen - front field
Sludge fields (last)

* JC indicates he understands the need for the wetland and the associated mitigation area

4/ simple

TM - yesterday asked them to consider if do all of Stage 2 work, could they then monitor to prove that it ~~could be~~ can meet quality, to discharge @ a different rate - could they avoid stage 3?

Ross W. ^{He} heard them say "prove it." They felt they would be back at the beginning

Even if ^{plant can} meet quality, does not have adequate storage to discharge @ 1:10 reliably right at the plant (1:10 flows are infrequent)

Santa Rosa got in trouble because they opted for storage rather than storage wetland.

When 1:50 is possible, ^(when cold) little benefit pushing through the wetland.

John Short

TM - flow, quality @ point of discharge.
Per Jeff A should be same @ either location.
↑ arguable that

Ross - How critical is pursuing 1:50 now, if it will affect a 2 mos delay in the construction

How reliable would discharge % be monitored and reacted to

reliable? real time?

These are ~~the same~~ same size as areatas and their flows are 2x or 3x the flow of willits

~~Want #~~

Value to keeping it simple in this startup time?

Only advantage is that you save storage capacity for the shoulder period

WQ requirements

Cyanide = 0

Dichlorobromethane

} have shown
up historically

* Do they want to pursue ~~1:50~~ 1:50? As designed 97% reliable. If 98% gain is not so much. If the plant were 80% and could get 95%, gain would be much ~~be~~ more benefit.

Use indicated ponds will be lined 10^{-6} permeability. Can use clay soils (not mfrd mat) but must be 2' thick.

7/
* \$1 million per acre for clay lined ponds (Tom heard)

Very heavy clays 3'-4' down that can be mined.

Tom's concern - what if pond is too expensive to build

* JA - use monitoring requirements
- Is there any volume savings ~~on the~~ by outputting @ 1:25 or 1:50?

FLOODWAY - 800# gorilla

TM. Request to the ^{expansion to} west was not for "now"

If wetland ~~becomes~~ becomes irrigation that volume could

Tertiary to future area or to the park -

a full new block ^{to} the north of the
(e) aer. basins then cut over.

Map maximum

150 x 215

141' + 12' + 8' fill

No wetlands to the North

Optimum Footprint

Septage + Solids in same area

JC would like to talk w/ Steve D. re
clarifier. Is the (e) clarifier
still needed

404/401 reports

mitigation monitoring - JC would
like to understand them

7/2/07 W1000

st 2 mlg

TOM

Diana S

JC

Jeff A.

TOMH

Where would the be the best place for the mitigations. Δ field, hardest for City to use.

Worth a shot to negotiate easement w/ Ford

May still do berm @ end of plant field

Lower Δ field and lower end ^(north) of plant field

Likes the "flipped" version w/ nose toward plant. ~~With~~ With some type of twist, pulling N end closer to creek. Will essentially create a classic inset flood plain

Confluence - Where fencing is stacked, little road, would be a big benefit to reduce flooding

TOM asks if can go on the "right" side, City doesn't own property

There is an existing easement for construction equipment from 101 $\rightarrow$ RR then on own property

* Caltrans dwg.

Not allowed to use easement for day to day ops.

Consider upgrading existing ford north of plant

Extend (e) bridge pile in middle - rail car sections at either side.

(Diff)
June - October - pretty much only time you can
** use Constr. easement - Need a copy of the easement. (Niesen deed)

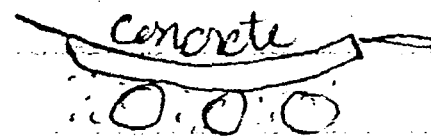
Brought Ross up to speed

Described 12" inverted siphon

Construction Access - 2nd bridge was not in the budget

highwater overflow

Best access w/b to come in over Benbow



Since it is summer construction, stick to plan of using (e) crossing

Berm around the Benbow 40 can be removed and used as project fill

If pond twists toward the creek,
will the City be able to irrigate island
remainder of Benton 40

Delineation map expires next year - this time

Use as much land as possible in the Δ field for
the pond

There is power ~~at the~~ North of the
plant. Can it be used to put pumps @
N end of Storage Lagoon.

Stage 2 is affected - pump station, power

Cost of mitigation

* Put pros/cons/ price in a matrix

Alt 4 needs extn to bridge (added cost)

Alt 4 needs add'l fill material (added cost)

Alt 2 does not incl area for solids handling
area

Jeff
Morris (RW) / Skip Gibbs

11th Lisa Bernard - meet re: "lining" of the ponds
concerned over lateral $\rightarrow$ movement thru the

* What is current plan for (e) clarifier
JC interested in septage -

[\$50 gate fee
10¢ gal

Co Block Grant
?

~~26,000,000~~

extra
disc.

{ 1/2 hr discussion of grading the compost
field (west of plant), related to plant
expansion, moving Mill Creek

* Memo - Creating + maintaining
wetlands