

Garth and Debra Kuhagen
P.O. Box 775
Walnut Grove, CA 95690

March 17, 2015

Jacob McQuirk, Supervising Engineer
Bay-Delta Office
P.O. Box 942836
Sacramento, CA 94236

Emailed To: DWREDBComments@Water.CA.Gov
Emailed On: 03/17/2015/Return Receipt Requested

U.S. Mailed On: 03/17/2015/Confirmation Requested

RE: Proposed Barriers - Irrigation Pump Modifications

Dear Mr. McQuirk:

The purpose of this letter is to outline our concern regarding the proposed barrier being installed approximately one mile north of our vineyard on Sutter Slough. Below is the information regarding our residence and vineyard:

Parcel Name: Kuhagen Living Trust, Garth/Debra Kuhagen, Trustees
Parcel Nos.: 043-030-08 Water ID: S019483
043-030-017 (formerly 043-030-07) Water ID: S019596
Address: 42490 Waukena Road, Clarksburg, CA 95612
Contact Info.: 916-775-4664, kuhagen@thegrid.net

As experienced in 1976 with the rock barrier that was placed north of our ranch, the lowered tide levels greatly hampered water flow through the siphon pump. The water quality deteriorated to almost being stagnated and smelt like sewage!

With the current Sutter Slough water conditions, we are experiencing low tide levels to our pumps, high silt concentrations and vast quantities of underwater plant growth (like kelp). For the last two years, our siphon pump plugged up with kelp growing around the intake screen. The kelp was manually removed by diving underwater to clear an open space to the screen.

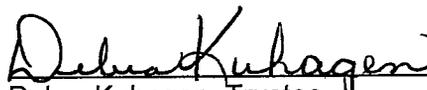
Per the M.B.K. modeling, it is presumed that the proposed barrier north of our vineyard will have a stage low tide of minus two feet from last summer's low tide. As a result, our irrigation pumps will either be impaired or even not be able to divert water at that low of a level. The pumps would have to be lowered closer to the water and pipes extended further into the center of Sutter Slough. Attached is an estimated quote from a local company to lower two pumps, extend the existing pipes, and reconfigure the electrical to the pumps. It should be noted that this estimate does not include the time involved or cost for permits to move the pumps. Nor does this quote include the cost to return the pumps and electrical back to their original position to eliminate flooding from either the removal of the barrier or winter runoff.

With temperatures already in the 80's for March 2015, we probably will start irrigating the vineyard in late May or early June. The above-referenced modifications to our irrigation pumps must be completed before the barrier is installed in Sutter Slough so that our pumps will be able to divert the same G.P.M. and maintain the same pressure as last year.

Sincerely,



Garth Kuhagen, Trustee
Kuhagen Revocable Living Trust



Debra Kuhagen, Trustee
Kuhagen Revocable Living Trust

Attachment

Letter to: Jacob McQuirk
DWR/Bay-Delta Office

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Gornito Ditching co.
P.O. box 1309
Walnut Grove Ca.
Lic. # 712312
Phone # (916) 997-1258

Estimate

Job: Pump Drop
Contact information: Garth Kuhagen (209) 993-2700
Clarksburg job.

Description	total
Lower pump intakes and include wiring extensions	
3" pipe @29.70 ft.	594.00
8" pipe 20 ft 3/8 wall @ 21.70 ft.	434.00
10" pipe 20 ft wall @ 60.51 ft.	1,210.20
2" pipe 80 ft. @ 4.75 ft.	380.00
Deck plate	200.00
4ea. 10" flanges and bolt packs	1,500.00
4 ea. 8" flanges and bolt packs	600.00
Welder 20 hrs @ 150.00	3,000.00
Labor 40 hrs @ 65.00	2,600.00
Backhoe 10 hrs @ 100.00	1,000.00
Electrical work	3,000.00
Move equipment in and out	600.00
Total	15,118.20