

**RECLAMATION DISTRICT NO. 1601
TWITCHELL ISLAND
BOARD OF TRUSTEES MEETING
TUESDAY, DECEMBER 21, 2021
9:00 AM
ENGINEER'S REPORT**

**I. PLAN REVIEW – UNITED STATES GEOLOGICAL SURVEY (USGS)
DRAINAGE MONITORING**

- A. Review status USGS's proposal to install monitoring equipment on the District's terminal drainage Pump Station. Seek the Board of Trustee's approval of the Encroachment Permit Agreement drafted "Under Separate Cover" by Jesse Barton

EXHIBIT A: USGS's Application for Encroachment Permit

II. DISTRICTS DRAINAGE PUMP STATIONS

- A. Review status to replace motor on Pump No 2.

Exhibit A

RECLAMATION DISTRICT NO. 1601
TWITCHELL ISLAND
2360 West Twitchell Island Road
Rio Vista, CA 94571
(916) 777-6992

APPLICATION FOR ENCROACHMENT PERMIT

Application No.

1.

Name of Applicant	Address - Zip Code	Telephone No.
<u>Adina Paytan, UCSC</u>	<u>1156 High St. Santa Cruz, CA 95064</u>	<u>(831) 459-1437</u>
<u>Joseph Fackrell, USGS</u>	<u>6000 J Street. Sacramento, CA 95819</u>	<u>(808) 271-1228</u>

2.

Description of encroachment

We request permission to install a continuous water quality monitoring station at the Twitchell Island pump station. The continuous water quality monitoring station consists of two water quality sondes, which will be submersed near the pump intakes in 4" and 5" PVC pipes secured to the pump station scaffolding, and associated power supply (solar panel with battery pack), and telemetry equipment, which will be sited on the upper portion of the pump station platform and connected to the sondes via cable. Once installed, the water quality station will require approximately monthly visits by USGS personnel for calibration, cleaning, and the collection of discrete water quality samples. The installation will require minimal alteration or obstruction of existing infrastructure and is temporary, with all equipment to be removed at the end of the two-year monitoring period.

3.

Location - Assessor's Parcel No.

Twitchell Island Pump Station - APN 15701400110000

4.

Required Exhibits - Please check items submitted.

 - (x)a. Location or vicinity map, to scale, showing location of proposed work in relation to known topographic features, to allow visitation to site and inspection of work.
 - (x)b. A complete plan of the proposed work to scale, showing dimensions, and relationship of the proposed work to adjacent levee or waterway.
 - c. One or more cross sections of the levee, berm and waterway area with dimensions and elevations of the levee crown, levee toes, flood plane, low water, etc., reference to a District identified bench mark should be indicated. Reference may be made to the District levee survey, where applicable.
 - d. Profile of existing or proposed levees, fills, or other obstructions on the levee or in the waterway or overflow area with reference to a known datum.
 - e. Additional plans, sections, details which might be pertinent or useful in regard to the review of this application.
 - (x)f. Proposed construction schedule.

Applicant is advised to contact the District Engineer regarding encroachment limitations prior to preparation of this application.

Applicant Signature

Date: _____

RECLAMATION DISTRICT NO. 1601 - TWITCHELL ISLAND

APPLICATION FEE SCHEDULE

1. A fee of \$500 is required at the time of filing the application for administrative and engineering review expenses. This fee is limited to applications for single dock facilities, single trench utility crossings, single pump installations and other small uncomplicated facilities.
2. Utility applications will require an additional fee of \$100 for each additional trench crossing.
3. Applications for marinas and docks with more than one boat slip will require an additional filing fee as follows:

<u>Number of Boat Slips</u>	<u>Fee</u>
2 - 25	\$200
26 - 50	400
51 - 100	600
100 or more	1,000

Or 1% of estimated construction cost, \$250 minimum.

4. Recreation or other facilities on the landside of the levee will require an additional filing fee of \$2 per lineal foot of development (measured along the centerline of the levee and perpendicular thereto), or 1% of estimated construction costs, \$250 minimum.
5. Special Meeting Request, an additional \$500.
6. The Board of Trustees reserves the right to waive or reduce any or all application fees according to the specific circumstances of the application and the facilities being constructed.
7. Disapproval of an application or failure of an applicant to complete a project for which the District issues a permit shall not result in any refund of all or part of any fees paid.

Exhibit A: Location Map



Exhibit B: Construction Diagram

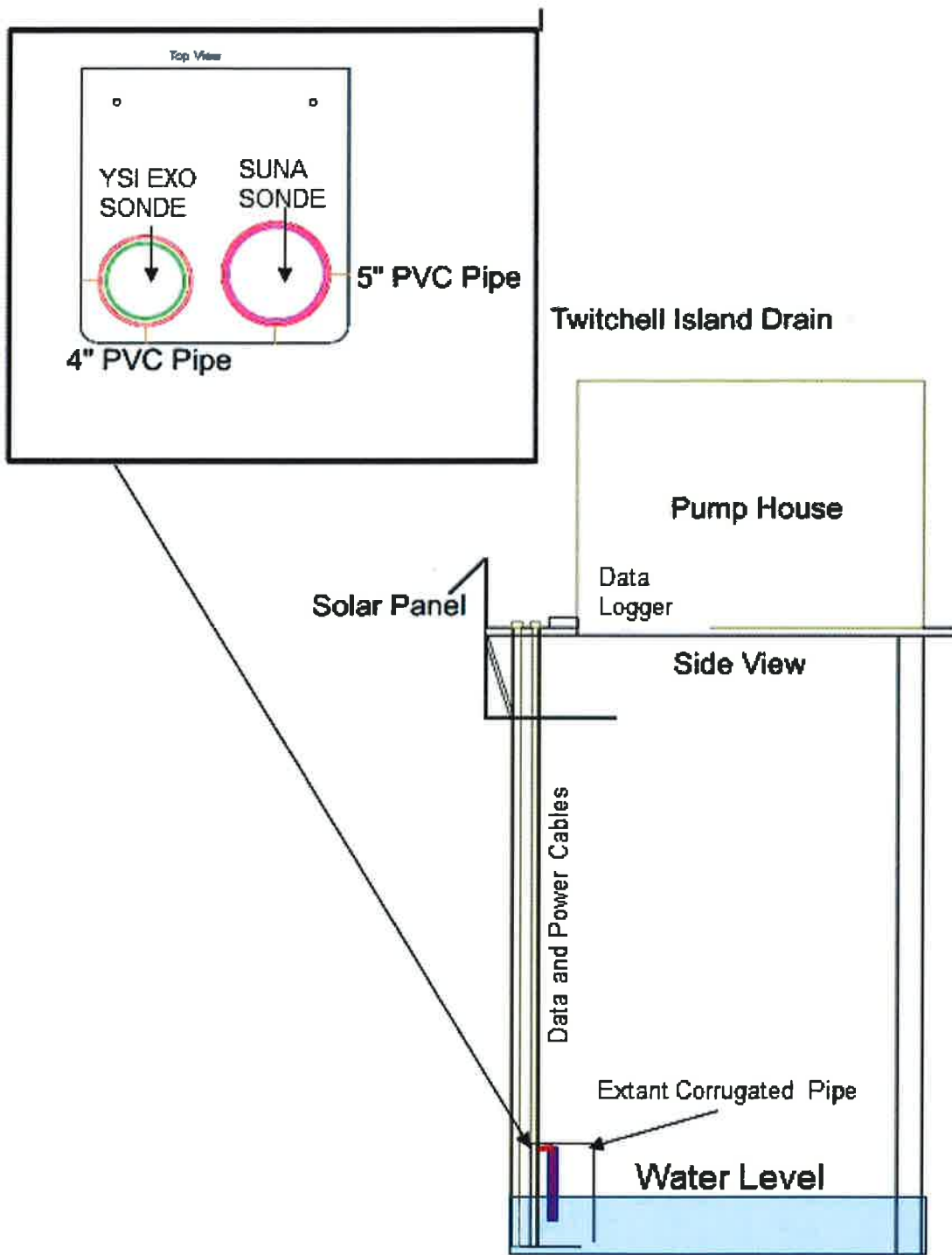


Exhibit F: Construction Schedule

We will begin installation of the water quality monitoring station as soon as possible after a permit is issued. Equipment installation requires no specialized equipment or machinery and should be completed within one working day.

ENCROACH APP