



# Tulare Irrigation District Operation & Maintenance Report



2012 Quarter 1

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## **District Safety Program**

The District Superintendent continues to conduct a series of Tail-Gate safety meetings during the week to keep employees mindful of safety precautions and the proper operation of equipment. The following safety meetings were conducted by the District Superintendent:

- Tiger mower safety training.
- Review of the Illness and Injury Prevention Program.
- Heat Stress training.
- Lockout and Tag-Out Safety Procedures.

## **Maintenance Operations**

Under the direction of Wayne Fox, District Superintendent, staff addressed maintenance concerns throughout the District.

The major maintenance projects include:

- Canal bottom maintenance with dozer and excavator.
- Reshaping of canals around structures and turnouts to ensure slope stability and earthwork stability.
- Earthwork and hauling of dirt and rock to various District facilities.
- Various District turnout repairs.
- Earthwork to reconstruct the embankments on Packwood Creek at the inlet to 8 Basin.
- Dredging of silt material from Main Canal.
- Collection and disposal of tires throughout District facilities.
- Grading operations on District canals and facilities.
- Discing of District groundwater recharge basins.
- Yard maintenance including weed removal and shop cleaning.

## **Vehicle Maintenance Program**

The Vehicle Maintenance staff (VM Staff) has been busy maintaining and repairing construction and maintenance equipment. The maintenance issues that have been addressed include:

- Service and repairs of field construction equipment.
- Repairs for Tiger Mower.
- Identification and repair of motor damage to Dump Truck.
- Fabrication of tool truck bed.
- Fabrication of a new bed for the converted cement truck.

## **Herbicide Application Program**

The Herbicide Application Staff (Herbicide Staff) has been working on applying herbicide chemicals to District canal embankments. District staff have also begun to implement the Tiger Mower within the District and Grader/Sloping operations. The Tiger Mower has been heavily used over the last two years and also required a great deal of maintenance and repair before and during operations.

The following chemicals were used at the specified rates:

Chemical	Rate	Units
Milestone	21	Ounces
Reward	642	Quart
Roundup	974	Gallons

### **Construction Projects**

The District construction staff under the direction of Mr. Fox has been working on the following projects:

#### **Swall Basin**

- District staff assisted the District Engineering Tech in installing the required SCADA equipment. SCADA enclosures and antennas were installed along with conduit and electrical connections.

#### **Mooney Grove Basin Turnout**

- District staff constructed an 18" turnout from Northbranch Canal to the newly constructed Mooney Grove Basin. This permanent turnout replaced the temporary siphon installation that was delivering water to the basin.
- Construction included a field constructed reinforced concrete turnout structure, 18" PVC pipe, a meter standpipe and an outlet pad to the basin.

#### **Tristao Pipeline**

- George Tristao approached the District to pipe a section of the S-4 Ditch in front of his home and future shop facility. The District provided Mr. Tristao with a cost estimate and design.
- Mr. Tristao secured the pipe and the District installed the pipeline including an inlet connection and an outlet structure.

#### **Moody/Morris Turnout**

- The District was requested by Evans Ditch Co. to install a new turnout from Evans Ditch approximately ¼ mile west of Road 68 on Avenue 272. This new turnout was to accommodate a recent property split and sale that would leave one landowner without surface water.
- The District provided the landowners with a design and cost estimate.
- District staff installed a pre-fabricated turnout, a turnout gate, PVC pipe across Avenue 272 and an outlet riser in the landowner's field.

## Pictures



Mooney Grove Basin Turnout installation - backfill and compacting operation.



Basin Maintenance – Discing of Swall Basin.



Tristao Pipeline Installation – installation of 42” reinforced concrete pipeline.



District Mowing Maintenance.



Shop fabrication of trash screen.



Moody Morris Turnout – Installation of turnout and road crossing.



Tristao Pipeline Installation – Completed pipeline and inlet installation.



Dozing of canal bottoms.



Canal embankment reconstruction on Packwood Creek at the Inlet to 8 Basin.



District facility repair and maintenance operations.



District canal dredging operations.