



## Monthly Progress Report –October 2021

### Terrace Lakes Water Company

**Project Name:** *Terrace Lakes ECWAG Project*

**Progress Date:** *Through October 22, 2021*

**Project No.:** *245.0040*

**Contract:** *\$219,900*

**Prepared By:** *Tim Farrell, P.E., Sam Nieslanik, E.I.T.*

**Purpose:** *Discuss project progress and expenses to date*

### **General Project Status**

This project report reviews the Terrace Lakes ECWAG Project monthly progress and outlines action items required to meet overall project objectives. Budgetary and financial analysis on the project will be presented to Terrace Lakes Water Company (TLWC) Board on a routine basis. The progress report will be sent to Dennis Largent monthly and presented to TLWC Board as requested.

Project Objectives: Drill and equip a new groundwater source of supply to replace declining capacity in Well No. 5 associated with March 2020 earthquake.

### **Project Phasing:**

The project will be completed in-line with the following phases:

#### **Phase 1: Obtain Regulatory Approvals**

- Complete IDWR Transfer Application to add new POD to existing water rights.
- Obtain Easement/Lease Agreement with Terrace Lakes Recreation Ranch LLC
- Idaho Power Company Agreement for Service Upgrades
- Execution of Easement/Lease Agreement (legal counsel approval)

#### **Phase 2: Well and Facility Design**

- Complete IDEQ Well Site Evaluation and Well Preliminary Engineering Report
- Complete IDEQ Facilities, Transmission, and Controls Preliminary Engineering Report
- Obtain IDEQ Construction Approval for Well No. 7 and associated Facilities

#### **Phase 3: Facility Construction**

- Phase 3a: Well Drilling, Production Testing, Water Quality Sampling
- Phase 3b: Facility Construction - Commissioning, Startup and Testing

#### **Phase 4: Project Closeout**

- Well Completion Report
- Operation and Maintenance Manual
- As-built Drawings
- Engineer of Record Certification
- IDEQ Request to Serve Public

**Work Completed To Date (Since Last Progress Report)**

A summary of work completed by Mountain Waterworks through the month of October 2021 is provided below.

- Idaho Department of Water Resources has reviewed the water right transfer application. It should be put out for public notice the week of November 8<sup>th</sup>.
  - o 2 weeks of public notice in Idaho World Newspaper followed by 10 days for public comment.
- The Well No. 7 WSE, PER, Plans and Specifications (Submittal No. 1) was submitted to IDEQ and USDA on October 13<sup>th</sup>.
- USDA approved the Well No. 7 Plans and Specifications on October 22<sup>nd</sup>.
- IDEQ has started reviewing Submittal No. 1.
- A draft version of the Well No. 7 Facilities, Transmission, and Controls PER (Submittal No. 2) is finished for Mountain Waterworks internal review.
- 80% plans of the Well No. 7 Facilities, Transmission, and Controls are complete for Mountain Waterworks internal review.
- Terrace Lakes Water Company executed proposals from Sawtooth Land Surveying and Keltic Engineering.
- Terrace Lakes Water Company signed the Idaho Power consent form.

**Work In Progress:**

- IDEQ review of Submittal No. 1.
- Submit Submittal No. 2 to IDEQ.
- Finalize civil and mechanical layout for Well No. 7 Wellhouse, Transmission, and Controls.
- Survey scheduled for November 16<sup>th</sup> – 17<sup>th</sup>
- Finalize Well No. 7 Bid Package.
- Execute subcontractor proposals
  - o Electrical – Century West Engineering

**Engineering Budget**

Description	Budget	To Date Budget Spent	Remaining Budget	Percent Completed
Basic Engineering Services	\$152,400	\$39,426	\$75,808	26%
Inspection Services (RPR):	\$50,000	\$0	\$50,000	0%
Additional Services:	\$17,500	\$12,181	\$4,769	70%
<b>Engineering Services Total</b>	<b>\$219,900</b>	<b>\$51,608</b>	<b>\$168,293</b>	<b>23%</b>

# Mountain WATERWORKS

## Project Budget:

Item No.	Description	Budget	Forecast	Billed To Date	Remaining
<b>CONSTRUCTION ESTIMATE</b>					
1	Land Acquisition, Legal, Easements	\$ 25,000	\$ 25,000	\$ -	\$ 25,000
2	Test Well (300 ft 6-inch)	\$ 50,000	\$ -	\$ -	\$ -
3	Idaho Power Electrical Service	\$ 25,000	\$ 25,000	\$ -	\$ 25,000
4	Production Well Drilling	\$ 200,000	\$ 250,000	\$ -	\$ 250,000
5	Well Pump, Motor, and Pitless Unit	\$ 50,000	\$ 50,000	\$ -	\$ 50,000
6	Mechanical Piping (4-inch DI)	\$ 35,000	\$ 35,000	\$ -	\$ 35,000
7	Transmission Piping (4-inch C900 PVC)	\$ 75,000	\$ 75,000	\$ -	\$ 75,000
8	Well House and Site Work	\$ 125,000	\$ 125,000	\$ -	\$ 125,000
9	Communication and Controls System	\$ 50,000	\$ 50,000	\$ -	\$ 50,000
10	Electrical Programming & Integration (Owner Provided Service)	\$ 25,000	\$ 25,000	\$ -	\$ 25,000
11	Survey (Owner Provided Service)	\$ 15,000	\$ 15,000	\$ -	\$ 15,000
12	Well Production & Water Quality Testing (Owner Provided Service)	\$ 20,000	\$ 20,000	\$ -	\$ 20,000
<b>Construction Subtotal</b>		<b>\$ 695,000</b>	<b>\$ 695,000</b>	<b>\$ -</b>	<b>\$ 695,000</b>
13	Construction Contingency	\$ 112,000	\$ 112,000	\$ -	\$ 112,000
<b>Construction Total</b>		<b>\$ 807,000</b>	<b>\$ 807,000</b>	<b>\$ -</b>	<b>\$ 807,000</b>
<b>ENGINEERING</b>					
14	Basic Engineering Services	\$ 152,400	\$ 152,400	\$ 39,426	\$ 112,974
15	Inspection Services (RPR)	\$ 50,000	\$ 50,000	\$ -	\$ 50,000
16	Additional Services	\$ 17,500	\$ 17,500	\$ 12,181	\$ 5,319
<b>Engineering Subtotal</b>		<b>\$ 219,900</b>	<b>\$ 219,900</b>	<b>\$ 51,608</b>	<b>\$ 168,293</b>
<b>PROJECT ESTIMATE</b>					
<b>PROJECT TOTAL</b>		<b>\$1,026,900</b>	<b>\$1,026,900</b>	<b>\$ 51,608</b>	<b>\$ 975,293</b>

## **Engineering and Construction Schedule**

### **Engineering Schedule**

Engineering Deliverables	Completion Date
Well No. 7 PER, WSE, Plans and Specs	Dec 2021
Additional Point of Diversion	Jan 2022
Well No. 7 Facilities, Transmission, and Controls PER	Jan 2022
Well No. 7 Facilities, Transmission, and Controls Plans and Specs	Apr 2022
Well Completion Report	Aug 2022
As-built Drawings	Aug 2023
Operation and Maintenance Manual	Aug 2023
Engineering Certification	Aug 2023

### **Construction Schedule**

Construction Activity	Start Date	End Date
Idaho Power Service	Aug 2021	Jun 2022
Well Drilling	Jun 2022	Aug 2022
Well No. 7 Facilities, Transmission, and Controls	Jun 2022	Jun 2023
Startup & Testing	Jun 2023	Jun 2023
Programming and Integration	Jun 2023	Jul 2023
Funding Closeout	Jun 2023	Sep 2023

### **Action Item Log:**

ACTION ITEMS	RESPONSIBLE PARTY	DATE RESOLVED
Review and Sign Survey and Structural Engineering Proposal	Terrace Lakes Water Company	10/29/2021
Review and Sign Idaho Power Consent Form	Terrace Lakes Water Company	10/27/2021
Review Well No. 7 Well Site Evaluation, Preliminary Engineering Report, Plans and Specifications	Terrace Lakes Water Company	10/27/2021
Hire third party attorney to approve Easement/Lease language.	Terrace Lakes Water Company	
Submit Well No. 7 Facilities, Transmission, and Controls PER to IDEQ.	Mountain Waterworks	
Execute Electrical Engineering Contract	Mountain Waterworks	
Finalize Well No. 7 Bid Package	Mountain Waterworks	
Finalize Well No. 7 Facilities, Transmission, and Controls Plans and Specifications	Mountain Waterworks	
Tim Farrell and Rolly Woolsey to meet with Terrace Lakes Recreation Ranch to discuss well site easement	Mountain Waterworks.	