



BOARD OF DIRECTORS REGULAR MEETING

Tuesday, April 11th, 2023 – 9:00A.M.

AGENDA

1. Consent Agenda (approved with one motion).
 - a. Minutes of March 7, 2023, Regular Board meeting.
 - b. Status of Investments Report – March 31, 2023.
 - c. Treasurer’s Report– March 31, 2023.
 - d. Claims.
2. 2023 water supply forecast.
3. Winter work program update.
4. Tier II issues.
5. Update on GPS tracking for equipment.
6. 2023 vehicle and equipment bid acceptance.
7. Union Gap Irrigation District temporary intertie.
8. Watermaster’s report.
9. District Manager’s report.
10. Engineering Manager’s report.
11. Executive Session:
 - a. Executive session pursuant to RCW 42.30.110(1)(i). Potential and pending litigation- State v. Acquavella, Terrace Heights Sewer District.
 - b. Executive session pursuant to RCW 42.30.110(2)(a)(iii). To evaluate legal risk of a proposed action.

Item #1

REGULAR MEETING MINUTES

March 7, 2023

The Board of Directors for the Roza Irrigation District convened in regular session on Tuesday March 7, 2023. Present were President Ric Valicoff, Director Tanner Winckler, Director Jason Sheehan, Director Jason Don, and District Manager Scott Revell, Watermaster Dave Rollinger, Assistant Watermaster Aaron Wiederspohn and Assessment Clerk/Assistant Secretary Kristel Espinoza.

Via telephone conference: Vice-President Jim Willard, District Attorney Brian Iller and Will Jones.

The President called the meeting to order at 9:02 A.M. and requested the Board consider the consent agenda as presented:

- a. Minutes of February 7, 2023, Regular Board meeting.
- b. Status of Investments Report – March 31, 2023.
- c. Treasurer’s Report– March 31, 2023.
- d. Claims.

The following claims are approved for payment: Payroll numbers 29656 - 29659 in the amount of 2,164.20, Voucher numbers 68292 – 68297, 68370 – 68409, and 68414 – 68486 in the amount of \$944,577.19 and electronic payments 01-2023, 01-22, 4-23, 05-23, 23-04, and 23-05 in the amount of \$293,264.60 from the period of February 3, 2023, to March 7, 2023.

It was moved by Mr. Don, seconded by Mr. Winckler, and unanimously passed to approve the consent agenda.

District Manager Revell reported the snowpack is currently 96% on the Yakima River mainstream arm and 84% of average on the Naches River arm. USBR will issue the next water supply forecast on March 9th.

Engineering Manager Wayne Sonnichsen updated the Board on the Wasteway 5 Re-Regulation Reservoir embankment repair. Staff met with HDR Engineering and Shannon & Wilson to discuss multiple options for repairing the northeast corner of the reservoir invert which was damaged from excess seepage through the embankment. Mr. Sonnichsen noted Staff and Engineers from HDR and Shannon & Wilson are currently working on how best to accomplish the work and determining costs. Project details and costs will be presented at a future board meeting.

Engineering Manager Wayne Sonnichsen and Watermaster Dave Rollinger presented pictures and the Board reviewed the report on the Supervisors recent trip for the Northwest Irrigators and Operators tour held in the Sacramento area in February.

District Manager Revell presented an overview to the Board on the Drainage Improvement District #11 and the 1960 contract between Roza and Yakima County. Roza currently is responsible for 60% of the shared drain expenses. Staff will meet further with Board of Supervisors Tom Belaire and toured DID #11. No action was requested from the Board.

Watermaster Dave Rollinger presented, and the Board reviewed the Watermaster’s monthly report.

REGULAR MEETING MINUTES

March 7, 2023

District Manager Revell presented, and the Board reviewed the District Manager's monthly report.

The President declared the Board to be in executive session for an estimated thirty-minutes beginning at 11:21 A.M. pursuant to:

- a. Executive session pursuant to RCW 42.30.110(1)(i). Potential and pending litigation- State v. Acquavella, Terrace Heights Sewer District.
- b. Executive session pursuant to RCW 42.30.110(2)(a)(iii). To evaluate the legal risk of a proposed action.

District Manager Revell returned at 11:50 A.M. and noted the presiding officer had determined that the Board would be in executive session for an additional ten minutes.

District Manager Revell returned at 12:00 P.M. and noted the presiding officer had determined that the Board would be in executive session for an additional ten minutes.

The President returned the Board to regular session at 12:07 P.M.

No further business appearing and upon motion duly made, seconded, and unanimously passed, the Board did there upon adjourn at 12:07 P.M. on Tuesday March 7, 2023.

ATTEST:

PRESIDENT

SECRETARY

Item #2



To: Board of Directors
From: Scott Revell, District Manager
Date: April 11, 2023
Re: 2023 Water Supply Forecast

2023 Water Supply Update

- ✓ Water Supply is forecast at 82%, which is down from the 86% forecast in March
- ✓ Snowpack is currently 103% on the Yakima River mainstem arm and 94% of average on the Naches River arm, which is a slight improvement.
- ✓ The most recent long-range weather forecasts for the next three months remain mixed but favorable, which is common for this time of year.

<u>Reservoir storage status on April 6, 2023</u>		<u>Capacity (Ac. Ft)</u>
Keechelus	40%	157,800
Kachess	61%	239,000
Cle Elum	42%	436,900
Bumping	33%	33,960
Rimrock	65%	198,000
Total	50%	1,065,400

- ✓ Reservoir storage in the system is at 76% of average, which is a slight decrease.
- ✓ Precipitation for the five reservoir sites for water year, which began on October 1, 2023, remains at 73% of average.
- ✓ USBR will issue the next water supply forecast for the proratable irrigation districts on May 4th.

Item #3



To: Board of Directors
From: Dave Rollinger, Watermaster DR.
Date: April 11, 2023
Re: 2022-2023 Winter Work Plan Progress Report

Attachment: 2022-2023 Winter Work Plan.

Summary

Roza crews have made good progress on the scheduled winter work plan, finishing approximately 70% +/- of the jobs that were scheduled. Some jobs were not completed or partly completed due to the unavailability of parts, weather, or manpower. Crews will continue working on unfinished jobs through the summer of 2023.

2022-2023 Winter Work Plan

Number	Maintenance Item	Cost Estimate (Less Prior Appropriation)	2022 Dollars In Capital Plan	2023 Dollars In Capital Plan (being used this winter)	2022 O&M Budget	2023 O&M Budget	Previously Appropriated
Laterals							
1	ECS --> 15.0, 17.1, 35.2A, P14, 38.5	2,400,000			2,400,000		
2	Pipe P1L-1 8" PVC pipe 1060'	13,000					
3	Pipe P1L Firing Center Exit (36" - 160') (\$101/ft) Double wall HDPE Drain Pipe + ends	22,000					
4	Gravel Packs - 38.5, 35.2A, (54.1 --6005 job \$7,500) (the \$7.5K not included in estimate)	8,200					
5	Courtesy valves (30) (\$1,900 each) (??? Remaining)	57,000		10,000			
6	Main Canal turnout screens (19.5, 32.8) (54.1 -- 6005 job) (\$2,500 each)	5,000					
Main Canal							
1	85.6 Embankment rebuild (wrap undershots w/in stock Huesker Liner) (All Huesker Liner purchased in 2021 allocated to the cost of the MC one-sided liner project)	0			7,500	7,500	7,500
	87.4, 72.9						
2	M.C. Cleanout 59.0 to 84.6 (\$7K fuel)	7,000					
3	Siphon Valves - Pipe d/s of siphons, hot tap 7, 8, 10 (\$4,000 each hottap plus piping)	12,000	8,000	4,000			
4	Aqualastic Prep, inspect (64.0, 68.6)						
5	Siphon cables / posts (7 to 12)	1,200					
6	Lining drain exit (MP 21.3 & MP 22.5)	1,000					
7	Clean sage brush off Main Canal Lining						
Check Structures							
1	Paint Main Canal 29.2 (WW3) Radial Gates	150					
2	32.8 check -- new gearbox - \$6,400, crane - \$4,400, retaining wall - \$18,000	28,800					
3	19.5 Check Repair (Drought Fund)	1,000					

Number	Maintenance Item	Cost Estimate (Less Prior Appropriation)	2022 Dollars In Capital Plan	2023 Dollars In Capital Plan (being used in this winter)	2022 O&M Budget	2023 O&M Budget	Previously Appropriated
	Reservoirs						
	WW5 Reservoir - Gravel road next to spillway	2,000					
	Roads/Gravel						
1	Grade & Gravel Main Canal roads	84,000					
2	Reclaim / Rebuild high side road (33.2 to 33.8) (3,300 ft)	10,000			75,000	75,000	
3	Pump plant maintenance/repair (build up and gravel yards) (P8, P9, P5)	5,000					
4	Pump 5 maintenance road	1,000					
5	Remove Main Canal road berm (28.2 downstream) (3 weeks) (\$6,700/week)	20,100					
6	Main Canal road gates (4) (\$3,000 each) Faucher & Merias Rd, Factory & C.L.	1,000					11,000
7	Grizzley Rock Houghton Pit						
	Concrete Work						
1	Extend undershot walls --- (63.8 and 65.1 --> \$30,000 each, 90.4 --> \$20,000)	20,000					60,000
2	Extend turnout headwalls (57.0 downstream) (3 or 4) (Need to do about 10) \$500 each	2,500					2,000
3	Repair undershot walls (90.4, 65.1 entrance and exit)	9,000					
4	Monument signs (30 to do) (\$130 each)	1,000					
5	Panel replacement (15) \$3,130/panel (\$960 concrete cutting, \$1,320 concrete/steel, \$800/pumper truck mob, \$50 pumper truck/panel) (5 pumper truck mobs)	38,950			15,000	15,000	
6	Pump 4 forebay repair (panel replacement on each side)	6,300					
7	Remove 5 old turnout structures (28 structures to do) (\$15/yard disposal)	1,000					
	Electrical/Electronic/Measurement/Pump Plant						
1	MP 14.0 (Golf course cut) pumphack (add VFD)	10,000					
2	94.8 Install modem and MMI (need to purchase modem)	2,000					7,000
3	WW7 Re-reg - new clamp-on meter (remove McCrometer insertion meter)	10,000					15,000
4	P8 Clamp-on flowmeter	10,000					


Number	Maintenance Item	Cost Estimate (Less Prior Appropriation)	2022 Dollars In Capital Plan	2023 Dollars In Capital Plan (being used in this winter)	2022 O&M Budget	2023 O&M Budget	Previously Appropriated
Pump Station and Canal Automation Upgrades							
Cabinets & Components							
5	WW5 Reservoir 250 hp pump motor repair (cost unknown, current cost is placeholder) (Spent \$5,031 for initial troubleshooting)	20,000					
6	Sunnyside Yard lighting	4,000					
7	Interior Shop Lighting Fixtures Replacement	6,000					
8	P10 Control cabinet / Add SCADA (reconfigure lateral headworks) (\$100K for pumpstation upgrades, \$50K to reconfigure piping)	150,000	84,000				
Emergency Floats							
Station Service Fuses							
9	Station service fusing (fuses purchased 2021, just need to install) (\$7,000/fuse) (These will be installed and critiqued before purchasing more)						22,500
Motor Protection Relays (trying to find a suitable replacement)							
Main Canal PLC & Motor Controllers (potential supply issues)							
Stilling Wells							
8	Main Canal stilling wells -- 5 (\$3,700 each) (86.0, 87.4, 88.5, 89.2, 94.8) (84.7 (WW6) New sensors and gauge (need more accurate level measurement)- \$2,000)	20,000	20,000	20,000			2,000
Misc.							
1	Install water fill-up stations at pump plants	21,000					21,000
2	Pump Plant vacuum pump upgrades -- 2 plants	13,000					

Number	Maintenance Item	Cost Estimate (Less Prior Appropriation)	2022 Dollars in Capital Plan	2023 Dollars in Capital Plan (being used in this winter)	2022 O&M Budget	2023 O&M Budget	Previously Appropriated
O&M Projects							
1	Spray Main Canal roads						
2	Clean rocks off Main Canal						
3	Clean gravel packs (let out during off-season)						
4	Drain pipe repair (13.4)(cost uncertain prior to excavation)	1,000					
5	Pump plant forebay cleaning (all plants as needed) (about 7/year)						
6	Main Canal Embankment Repair (87.4, 72.9)						
7	Lateral cleanout/Drains						
8	Tree cutting	30,000			10,000		
9	Main Canal Right-of-way encroachments (Make a list of areas)						
10	Remove brush on lined canal and WW's						
11	Clean pickup drains						
12	Dirt, regravell and install posts around FM pads as needed on ECS laterals	2,000					
13	Main Canal turnout handrails (25 to do) (\$400 each)	10,000					
Terrace Heights ID (THID Funded)							
1	T.H.P. 8" pipe by WW	200					
2	THP Gravities						
3	THP Lateral -- Huesker Liner (did not charge them for previous liner install -\$11,557)	12,000					
Inspections							
1	19.5 Check repair (wood check inspection)						
2	Inspect all Main Canal gates						
3	Inspect WW3 Sluice Gate (unknown cause of gate sticking)						
4	Inspect Main Canal Radial Gate hinges at 29.2 (WW3)						
5	Inspect gates and motor at WW5						
District Properties							

Item #4



To: Board of Directors

From: Wayne Sonnichsen, Engineering Manager 

Date: March 7, 2023

Re: Additional groundwater monitoring in Roza yard.

Attachments:

1. Scope and cost estimate for additional Environmental Services.

Background:

As noted in the March Board meeting, staff has concluded that the most cost-effective course of action to get to a No Further Action status with Ecology with the ground water contamination within the Roza ID yard is to install two more monitoring wells near the southwest property boundary and conduct four more quarters of groundwater monitoring.

Shannon & Wilson has developed a scope of services and cost estimate for this work (See attached).

The cost of the proposal to add two additional monitoring wells and conduct 4 quarters of groundwater monitoring is \$72,371.28. The original approved budget for the previous monitoring well installations and groundwater monitoring was \$79,996.65, of which \$6,292.73 remains. The proposed additional work will bring the total budget for monitoring well installation and groundwater monitoring to \$146,075.20.

Staff recommends approval of the scope of services for adding two additional monitoring wells and 4 quarters of groundwater monitoring.

Recommended Motion:

I move to approve the scope and \$72,371.28 cost proposed by Shannon & Wilson for additional environmental services.



March 23, 2023

Mr. Wayne Sonnichsen
Roza Irrigation District
125 S 13th Street
Sunnyside, WA 98103

RE: SCOPE AND COST ESTIMATE FOR ADDITIONAL ENVIRONMENTAL SERVICES AT
125 S 13TH STREET, SUNNYSIDE, WASHINGTON

Dear Mr. Sonnichsen:

We appreciate the opportunity to submit this scope of services and cost estimate for additional environmental services at the Roza Irrigation District (RID) property located at 125 S 13th Street in Sunnyside, Washington (the Site) (Figure 1). The Site is listed with the Washington State Department of Ecology (Ecology) as Facility Site ID 534 and Cleanup Site ID 4938.

Based on findings from the November 2022 groundwater monitoring event, our current approved scope of work may not achieve the project objectives, as described in *Task Order #001 Amendment* dated March 11, 2022. We propose to amend Task Order #001 to install two new groundwater monitoring wells and collect groundwater samples for four quarters (one year). A summary of relevant background information and the proposed services are provided below.

BACKGROUND

RID operates a vehicle maintenance and administrative facility at the Site. A portion of the property is leased from the U.S. Bureau of Reclamation (BOR) and the remaining portion is owned by RID. A vicinity map is provided as Figure 1.

In 1990, three underground storage tanks (USTs) storing diesel and gasoline, a pump island, and associated piping were removed from the Site. Petroleum-contaminated soil (PCS) was excavated from the tank basin located north of the shop building to the extent practicable. Leaks from fuel piping contaminated the adjacent soil and groundwater with diesel. PCS was not excavated from beneath the shop building to prevent impacting the structural integrity of the building.

In November 2014, RID identified a hydraulic oil leak from an underground automotive hoist located in the building's northeast corner. The release was estimated to be 39 gallons.

RID notified Ecology of the release, and Ecology sent a letter dated December 5, 2014, indicating that a new cleanup unit would be added to the Site's existing database listing.

The hoist was taken out of service as soon as the leak was detected. RID removed the hoist approximately one month after the leak was detected and a new aboveground hoist was installed one month after that. The release was in the same general area as the assumed location of PCS beneath the shop building from the leaking UST system.

RID entered Ecology's Voluntary Cleanup Program (VCP) to address the 2014 hydraulic fluid release, as well as to address the previous leaking UST system. Shannon & Wilson has been retained by RID to complete groundwater monitoring to evaluate for the status of the groundwater diesel plume (i.e., shrinking, growing, or static) (Figure 2).

SHANNON & WILSON SERVICES TO DATE

Our efforts to date include installation monitoring wells and sampling of groundwater at monitoring wells. Prior to November 2022, concentrations of total petroleum hydrocarbons (TPH) at well MW-24 were less than the regulatory criteria. Since MW-24 was located hydraulically downgradient from the source area, the extent of the groundwater diesel plume was believed to terminate prior to MW-24.

During the November 2022 groundwater monitoring event, the sample collected from well MW-24 had concentrations of heavy oil range hydrocarbons at 555 micrograms per liter ($\mu\text{g/L}$) exceeding the regulatory criteria of 500 $\mu\text{g/L}$. The November 2022 exceedance at MW-24 suggests that the boundary of the groundwater plume is downgradient from MW-24. There are currently no monitoring wells on the RID property that are downgradient from MW-24 to evaluate the downgradient extent of the plume.

PROPOSED SCOPE OF SERVICES

The objective of the scope of services is to evaluate for the limits of the groundwater diesel plume and its status (i.e., shrinking, growing, or static plume). To support this objective, we will install up to two groundwater monitoring wells and conduct four quarters of groundwater monitoring.

Installation of Two Groundwater Monitoring Wells

Up to two monitoring wells (MW-27 and MW-28) will be installed at the western boundary of the RID property (Figure 2). The monitoring wells will be located downgradient and/or crossgradient of MW-24 to evaluate the extent of the groundwater diesel plume.

We will mark the proposed well locations using a stake and/or marking paint. We will submit a public utility locate request to allow utility locators to mark nearby utilities. We will also subcontract a private utility locator to survey for utilities near the boring locations.

The monitoring wells will be installed by a Washington State licensed driller subcontracted to Shannon & Wilson. A Shannon & Wilson environmental professional will observe and document the well installation. The wells will be approximately 15 feet deep to encounter groundwater will be cased with 2-inch polyvinyl chloride pipe and finished with flush-mounted traffic-rated metal covers. The wells will be developed by the driller. The wells will be surveyed by a certified land surveyor under subcontract to Shannon & Wilson.

During well installation, one soil sample will be collected from each boring and tested for diesel and heavy oil range TPH by method Northwest TPH-Diesel Extended (NWTPH-Dx). The soil samples will be collected at the depth where field indications of contamination are observed (e.g., soil staining, sheen, or unusual odor). If no indications of contamination are observed, then one soil sample from each boring will be collected from the depth of the water table.

Soil cuttings from drilling will be placed into a Washington State Department of Transportation-rate metal drum, labeled, and stored on-site pending pickup. For waste characterization purposes, one composite soil sample will be collected from the drum and analyzed for Resource Conservation and Recovery Act metals; gasoline-range hydrocarbons; and benzene, toluene, ethylbenzene, and xylenes. Shannon & Wilson will subcontract a waste disposal company to remove and dispose of the soil drum.

Following installation and development of the new wells, we will return to the Site at least 48 hours later to collect groundwater samples from the new wells and other wells on the property. This groundwater sampling event will comprise the first of four consecutive quarters of sampling and is discussed in the next section.

Quarterly Groundwater Monitoring and Reporting

The objective of the quarterly groundwater monitoring is to evaluate the extent of the groundwater diesel plume and evaluate if it is shrinking, growing, or stable. The results

will be used to evaluate whether the site meets eligibility criteria for Ecology Groundwater Model Remedy 4.¹

During each quarterly groundwater monitoring event, we will measure groundwater levels at the Site to determine the local groundwater gradient and confirm that the monitoring wells are properly located to evaluate the extent of the groundwater diesel plume. During the groundwater level measurements, we will also look for indications of light nonaqueous phase liquid (LNAPL) at MW-15, MW-16, MW-17, and EW-18 using a disposable bailer.

After measuring groundwater levels, we will collect groundwater samples from the monitoring wells listed in Exhibit 1.

Exhibit 1: Selected Wells for Groundwater Sampling

Well Name	Description
MW-11	
MW-23	
MW-25	These wells are likely outside of plume area where concentrations of TPH exceed regulatory levels. Analytical results will confirm the extent of the groundwater plume.
MW-26	
MW-27	MW-27 and MW-28 will be installed at the west boundary of the RID property.
MW-28	
MW-15	MW-15 and MW-24 are likely in the plume area where concentrations of TPH exceed regulatory levels. The results will be used to evaluate for trend in chemical concentrations in the plume (i.e., shrinking, growing, stable) using a Mann-Kendall analysis.
MW-24	
Duplicate	For quality assurance purposes, one duplicate sample will be collected from one monitoring well listed above.

Groundwater samples will be submitted to an analytical laboratory for analysis of diesel and heavy oil range TPH by method NWTPH-Dx.

Concentrations of diesel-range and/or heavy oil-range TPH at MW-15 and MW-24 will be evaluated using a Mann-Kendall (MK) analysis to determine if the groundwater diesel plume is shrinking, growing, or stable. The MK analysis is a non-parametric test used to

¹ Washington State Department of Ecology (Ecology), 2016, Model remedies for sites with petroleum impacts to groundwater. Report prepared by Ecology Toxics Cleanup Program, Olympia, WA; publication no. 16-09-057, revised December 2017.

determine trends in time series data. Non-parametric tests are statistical tests, which do not rely on assumptions that data are drawn from a certain probability distribution (e.g., normal, exponential, etc.). Results of the MK analysis are used to conclude whether collected data is trending or not trending over time based on the idea that a lack of trend should correspond to time series data which fluctuates randomly about a constant mean (null hypothesis). The MK analysis is one of the tests recommended by U.S. Environmental Protection Agency and U.S. Army Corps of Engineers guidance for the analysis of concentration distributions over time and has become a popular tool for hydrogeologic assessment regarding the “stability” of groundwater chemical concentrations over time.

A groundwater monitoring report will be prepared for each monitoring event and will be provided electronically in final version to RID. Upon approval from RID, one hard copy and a PDF of the each report will be submitted to the Ecology VCP program manager, as required by the VCP. The first quarterly groundwater monitoring report will include details about installation of new monitoring wells, development, and surveying of MW-27 and MW-28. The fourth quarterly monitoring report will include the MK analysis.

Analytical data will be submitted to Ecology’s Environmental Information Management System, as required by the VCP.

Investigation-Derived Waste

Investigation-derived waste will include soil, groundwater, decontamination water, and consumables (single-use personal protective equipment, tubing, etc.). As recommended and allowed by RID during the previous sampling events, groundwater and decontamination water will be disposed of in the on-site oil-water separator. Single-use materials will be disposed of in the on-site solid waste dumpster. Soil cuttings from well installation will be placed into a Department of Transportation-rated metal drum, labeled, and stored on-site pending pickup. Shannon & Wilson will subcontract a waste disposal company to remove and dispose of the soil drum.

SCHEDULE AND FEE

We estimate that the two new monitoring wells could be installed within three weeks of receiving Notice to Proceed, depending upon availability of the drilling subcontractor. The groundwater monitoring reports will be submitted to RID within three weeks of receipt of lab results.

We are prepared to undertake the services described above on a time-and-expense basis using the rates shown in the enclosed fee estimate (Table 1). Based on our understanding of

the proposed activities, we estimate that the total fee for the additional environmental services described in this proposal is \$72,371.28. Our approved budget is \$79,996.65, of which \$6,292.73 remains. Therefore, we are proposing to increase the approved budget to \$146,075.20.

This scope of services is for the exclusive use of RID and its representatives. Shannon & Wilson has prepared the enclosed, "Important Information About Your Environmental Site Assessment/Evaluation Proposal," to assist you and others in understanding the use and limitations of our proposals.

Please let us know if you have any questions and thank you again for the opportunity to be of service.

Sincerely,

SHANNON & WILSON

Ryan Peterson
Digitally signed by Ryan Peterson
Date: 2023.03.23 12:23:56 -07'00'

Ryan Peterson, PE
Environmental Engineer

Digitally Signed Date: 2023.03.23 12:32:13 -07'00'

Scott W. Gaulke, PE, LHG
Vice President

RBP:SWG:MED/rbp

Enc. Table 1 – Fee Estimate (2 pages)
Figure 1 – Vicinity Map
Figure 2 – Site Map
Important Information About Your Environmental Site Assessment/Evaluation Proposal

Table 1 - Fee Estimate

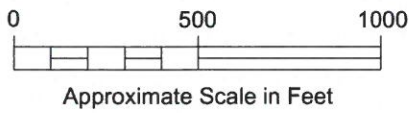
Description	Unit Cost	Units	Quantity	Extended Cost	Subtotals
Task 1 - Well Installation and Development					
Labor					
Vice President	\$ 285.00	hr	2	570.00	
Senior Professional II	\$ 185.00	hr	4	740.00	
Senior Professional I	\$ 165.00	hr	27	4,455.00	
Professional III	\$ 130.00	hr	0	0.00	
Word Processing / Senior Office Services	\$ 145.00	hr	0	0.00	
Drafting / Technical Services IV	\$ 150.00	hr	0	0.00	
					\$5,765.00
Subcontractor Costs					
Utility Locating	\$ 100.00	hr	4	400.00	
Drilling	\$ 7,206.12	ea	1	7,206.12	
Surveying	\$ 2,000.00	ea	1	2,000.00	
Disposal of 1 Soil Drum	\$ 800.00	ea	1	800.00	
					\$10,406.12
Laboratory Costs					
Analysis of Soil by Method NWTPH-Dx	\$ 65.00	ea	3	195.00	
Analysis of Soil by Method NWTPH-G/BTEX	\$ 75.00	ea	1	75.00	
Analysis of Soil by Method 6020	\$ 135.00	ea	1	135.00	
Expedited Shipping of Samples	\$ 115.00	ea	1	115.00	
					\$520.00
Other Direct Costs (ODCs)					
Mileage	\$ 0.66	mile	480	314.40	
Sampling supplies and Equipment	\$ 100.00	day	1	100.00	
15% Markup on Subcontractors and ODCs	\$ 1,701.08	ea	1	1,701.08	
					\$2,115.48
Task 2 - Four Quarters of Monitoring and Reporting					
Labor					
Vice President	\$ 285.00	hr	12	3,420.00	
Senior Professional II	\$ 185.00	hr	96	17,760.00	
Senior Professional I	\$ 165.00	hr	144	23,760.00	
Professional III	\$ 130.00	hr	0	0.00	
Word Processing / Senior Office Services	\$ 145.00	hr	12	1,740.00	
Drafting / Technical Services IV	\$ 150.00	hr	8	1,200.00	
					\$47,880.00
Laboratory Costs					
Analysis of Water by Method NWTPH-Dx	\$ 65.00	ea	36	2,340.00	
Expedited Shipping of Samples	\$ 115.00	ea	4	460.00	
					\$2,800.00


Other Direct Costs (ODCs)

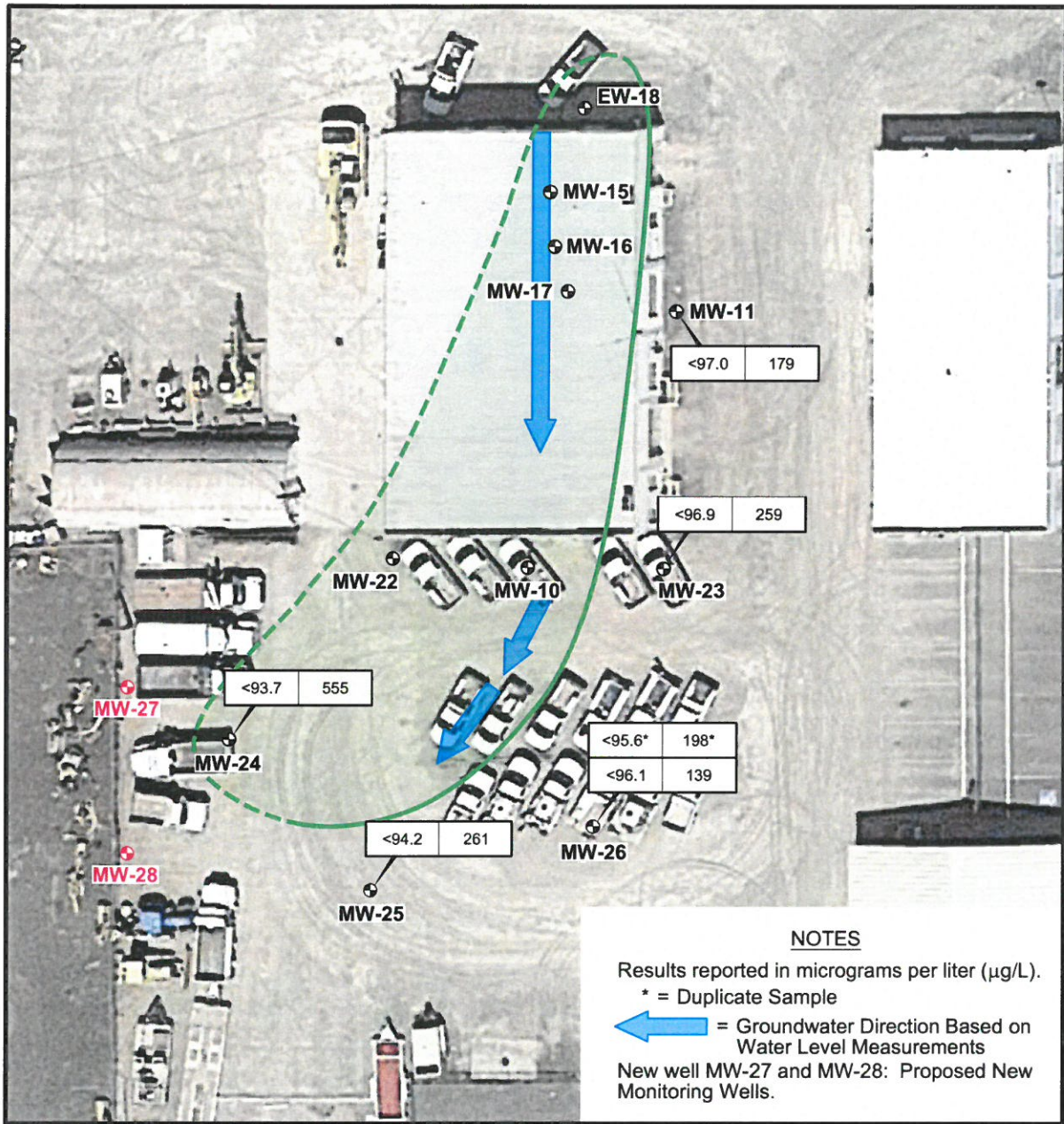
Mileage	\$	0.66	mile	1440	943.20
Sampling supplies and Equipment	\$	100.00	day	12	1,200.00
15% Markup on Lab Costs and ODCs	\$	741.48	ea	1	741.48
					\$2,884.68

Total Fee Estimate **\$72,371.28**

APH = air phase hydrocarbons; ea = each; hr = hour; IDW = investigation-derived waste; NWTPH-Dx =



Roza Irrigation District 125 S 13th Street Sunnyside, Washington	
VICINITY MAP	
March 2023	100500-P
 SHANNON & WILSON, INC. GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS	FIG. 1



NOTES
 Results reported in micrograms per liter (µg/L).
 * = Duplicate Sample
 = Groundwater Direction Based on Water Level Measurements
 New well MW-27 and MW-28: Proposed New Monitoring Wells.

LEGEND

- MW-10** Monitoring Well Designation and Approximate Location
- 555 Exceeds the MTCA-A Cleanup Level
- Estimated Extent of the Groundwater Diesel Plume

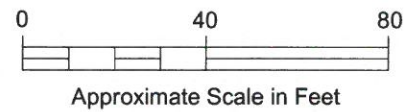


TABLE EXPLANATION

	Diesel (Fuel Oil)	Heavy Oil
MTCA-A Cleanup Level	500 ug/L	500 ug/L

NOTES

Results reported in micrograms per liter (µg/L).
 * = Duplicate Sample

Roza Irrigation District
 125 S 13th Street
 Sunnyside, Washington

SITE MAP

March 2023

100500-P

Item #8



To: Board of Directors
From: Dave Rollinger, Watermaster DR.
Date: April 11, 2023
Re: Recent Past and Future Maintenance Work

Summary for March

Most of March consisted of preparing the Main Canal and distribution system for water.

Water Delivery

- Long time Roza employee Bob Schwisow has retired after 28 years of service, 26 years as a ditchrider on beat 12.
- Roza staff held the annual pre-season Ditchrider meeting on March 13, 2023. Staff went over the ditchriders job description, expectations and policy and procedures.
- Water diversions started Sunday March 19, 2023 with 350 CFS. All piped gravity laterals were primed by 3/24/2023 and pump laterals were primed when enough water was ordered to safely start and operate the pumps.

Distribution System Maintenance

- Crews picked up 5 truckloads of garbage from the Main Canal before priming, 84 tires and 10 appliances were 2 of the loads.
- Trouble shooters are busy fixing manifold drains and leaky flowmeter valves that didn't make it through the winter.
- Trouble shooters have also repaired 4 air vents and 8 pipe leaks, 2 of the pipe leaks were caused by farmers, farmers are responsible for the cost of the whole repair including employees time, vehicle and equipment costs.
- The valves on siphon 7 and 10 have been replaced and the siphons were inspected, siphon sevens valve box was also raised 6' so that it would be above ground level. Time restraints prohibited crews from installing the valve on siphon 8 and it will be scheduled for next year.
- Crews continue building and graveling the roads over the P14 ECS pipeline and installing and pouring the bollards around the flowmeters and air vents.
- Roza operators were able to clean all laterals with our Cat 314 excavators in preparation for water deliveries on April 1st.

- Pump mechanics are working hard re-installing pumps and motors, priming and starting pumps in preparation for water deliveries on April 1st.

Weed Control

- Sprayers have calibrated both F350 spray trucks and started spraying pump plants, storage yards and Re-regulation reservoirs on March 27, 2023 and will continue on the Main Canal and laterals.
- Lone Oak Air Drone Services applied Cascade Aquatic Herbicide to WW-6 Re-Regulation reservoir on April 3rd.

Equipment

- The new cross gate belly dump trailer arrived on March 21,2023 and is hauling gravel on the P14 ECS project. The trailer hauls 2.5 times more gravel than our freightliners dump trucks. The final cost for the trailer was \$79,913.56.
- The hydraulic pump on #63, our 1997 Freightliner dump truck went out and had to be replaced. Roza mechanics purchased and installed a new pump for \$1051.90.

Projected for April

- Continue spraying Main Canal roads and laterals.
- Start jetting and grouting behind concrete lined sections of the Main Canal.
- Continue grading and graveling P14 ECS roads until finished.
- Start mowing the Main Canal.
- Sift grout dirt for the grouting season.
- Start cleaning under shots as manpower allows.
- Start planting Crested Wheat grass next to the newly graveled Main Canal rd. from MP 11.7 to MP 26.7.

Item #9



To: Board of Directors
From: Scott Revell, District Manager 
Date: April 11, 2023
Re: District Manager's Monthly Update

Miscellaneous Items

1. USBR YFO Manager Chad Stuart will be at the May 9th Board meeting to discuss the Bumping Dam outlet works repairs and the Roza dam switchgear repairs.
2. New Columbia Cascades Area Manager at USBR started in late March and will be tour through the Roza project as soon as it can be scheduled.
3. Roza, RSBOJC, YBJB & WSWRA each submitted detailed comments on the NPDES permit renewal to the Department of Ecology in March and had an initial review of those comments in early April.
4. USBR has notified Roza that 2022 power expenses and O&M expenses were \$156,000 less than the estimates and Roza will receive commensurate credits in 2023.
5. The Integrated Plan briefings in Washington D.C. were productive. USBR Commissioner Touton reiterated that the Integrated Plan is her favorite project and that it is a model for the nation. Assistant Interior Secretary for Water and Science Tanya Trujillo had similar comments.

March Meetings Report

- ✓ D.C. Leadership group prep (March 8th)
- ✓ River Operations (March 9th)
- ✓ Yakima Basin Integrated Plan U.S. NRCS Regional Administrator briefing (March 9th)
- ✓ Yakima Basin Integrated Plan National Marine Fisheries Service Regional Director briefing (March 10th)

- ✓ Yakima Basin Integrated Plan U.S. Army Corps of Engineers Regional Director briefing (March 13th)
- ✓ Yakima Basin Integrated Plan U.S. Forest Service Regional Director briefing (March 14th)
- ✓ WSWRA (March 15th)
- ✓ Lower Yakima Valley Storage site Value Planning (March 17th)
- ✓ Roza tour with Ecology Water Resources Program Manager (March 23)
- ✓ Yakima Basin Joint Board (March 24th)
- ✓ Yakima Basin Integrated Plan Policy Team (March 24th)
- ✓ System Operations Advisory Committee (SOAC) (March 31st)

TO: Scott Revell
Manager
Roza Irrigation District
P. O. Box 810
Sunnyside, WA 98944

RECEIVED

APR 03 2023

DATE: March 29, 2023

ROZA IRRIGATION DISTRICT

Re: Retirement of *Attorney Thomas A. Cowan.*

Dear Scott:

This letter is to formally notify you and the District that I have retired from active practice and from Gravis Law PLLC effective *December 31, 2022.*

At this time, we have transitioned the active matters to Brian J. Iller of Rettig Forgette Iller & Bowers as the District's new counsel. I do have a number of files related to inactive and historical matters which I will re-organize and deliver to Mr. Iller.

I am available to consult with the District or with Mr. Iller on matters affecting the District, but will do so only on an in-house counsel basis due to the fact that I am no longer licensed to practice law.

I am enclosing an invoice for services provided to you during 2022 which have not been previously billed. These services related to the completion of the Acquavella adjudication and attending meeting of the District Board, the YBJB, the Defense Coalition and other conferences.

I thoroughly enjoyed the time I spent with the District. The Directors who have served during the years I worked with the District have been some of the finest people I encountered in my practice. They have and do represent the District's interests well and are informed and knowledgeable about the issues coming before them. I have worked by many boards as a legal representative and as a board member and I believe the Roza Board does an excellent job of providing leadership and guidance while allowing management to implement the Board's policies.

I was fortunate to work with Ron Van Gundy. His ability to work with so many different people was certainly unique as was his unwillingness to abide people who he did not feel were being open and honest. Without downplaying the efforts of anyone involved, I do not think the Integrated Plan or the current cooperative efforts in the Basin would

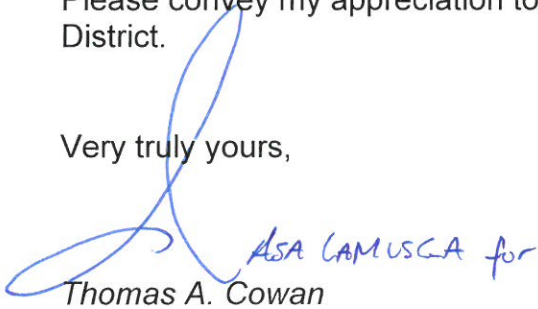
have happened without Ron's unique approach and abilities. I have to admit that I learned a great deal about water and water law from Ron.

In addition to Mr. Van Gundy, in the time I have worked with the District, the employees of the District have been remarkable for their abilities and their efforts to improve the District operations and to provide a benefit for the District's water users.

Finally, you are the right person to carry Ron Van Gundy's legacy forward. You understand the importance of the Integrated Plan and the need for parties to continue to act together so that the IP is fully implemented. You share Ron's ability to work across a broad range of interests in order to reach and maintain a consensus. In addition to the IP, the future success and prosperity of the water users within the District's is dependent upon many unique factors and you are able to understand and manage those factors.

Please convey my appreciation to everyone for the time I was allowed to represent the District.

Very truly yours,

ASA CAMUSGA for
Thomas A. Cowan

RECEIVED


APR 03 2023

ROZA IRRIGATION DISTRICT

Item #10



To: Board of Directors

From: Wayne Sonnichsen, Engineering Manager 

Date: April 11, 2023

Re: Engineering Manager's Report

Miscellaneous items of note:

- I have spent several days driving potential pipe routes for the P3 Low ECS project so I have good sense of the project area before I turn the project over to Lazaro Lopez to take the lead. This will be Lazaro's first ECS project starting from scratch and will be his main focus for the next few months.
- At the 75.1 and 90.4 check structure sites the MMI and Scadapack controller were upgraded to the latest version. The new controllers use a different programming language than the older version, requiring new software and a more capable laptop computer to run the software. Steve has had to focus a lot of time learning to run the new program and enough of the new programming language to get the controllers set up properly.

Steve has also spent quite a bit of time setting up the new controller at P14. Because of supply chain issues, the older version of the Scadapack controller was used at this site because it was more likely to be delivered soon enough to be set up before the start of the irrigation season.

The District also had a control panel built for the P10 plant, but we were unable to get it installed before the start of the irrigation season. It will be installed after this irrigation season.

- With all of the new fiber optic lines being installed near Sunnyside. Engineering tech Lopez has been busy issuing crossing licenses. As these new lines become more prevalent across the District, they will likely hinder the District's preferred pipe routes for future ECS projects.
- The Bureau of Reclamation recently conducted a power system analysis to consider the affects of the District's proposed upgrades at the P16 and P14 pump plants. The analysis considered the electrical system from the Grandview substation and plants supplied

power from there (WW5 Reservoir to P17). Much of the analysis considered the additional load to be placed on the electrical system with the addition of a pump plant at the P14 site without a comparable reduction in load at the P13 site. Because of this, much of the report is irrelevant.

The report notes that the existing electrical system is “already limited in its ability to provide power and adequate voltage to all of the pumping plants fed by the southeast section of the Grandview line during normal operations”. The results summary of the report concludes by stating that, “it is recommended to study and include plans for additional means of voltage support and power delivery for the 34.5 kV system go forward with the next design stage”.

The analysis did not consider the physical condition of the existing electrical system.

In discussions with RH2 Engineering, Paul Cross noted that it may be more cost effective to commit to upgrading portions of the system rather than conducting further studies of the existing system. They are involved with a project for East Columbia Irrigation District in which new power distribution lines are being constructed at a cost of \$87,000 per mile. Considering the age of Roza’s power distribution system, this may be a viable option. Although, as noted above, the physical condition of the existing system is not well understood; other than it’s old.

The next step is to contact the power group in the local field office and get their take on the report and what it would take to set up a contract to upgrade the system. Contact Benton REA and see about getting a cost estimate for materials and work.