



Monthly Progress Report –December 2020

City of New Meadows - Water System Improvement Projects

Project Name: *Water Improvement Projects*

Progress Date: *Through January 18, 2020*

Project No.: *197.0010*

Contract: *\$631,500*

Prepared By: *Tim Farrell, P.E., Ed Stowe, P.E.*

Purpose: *Discuss project progress and expenses to date*

This project report reviews the Water System Improvement Project monthly progress and outlines action items required to meet overall project objectives. Budgetary and financial analysis on financial project standing will be presented to City Council on a routine basis. The progress report will be sent to the City Clerk monthly and presented to City Council as requested by the City.

Project Phasing:

The water project construction will be completed in-line with the following phases, which were updated per the February 24th Council Meeting:

Phase 1: Well Site Land Acquisition and Water Rights (completed 2019): During this phase, the city acquired a parcel of land located at the eastern end of Katherine Street south of the intersection of US 95/SH 55 for construction of a new well and well house.

Phase 2: Distribution Priority Valves and Hydrants (completed 2019): During this phase, all water system isolation valves, most of which were buried, were located and equipped with new valve boxes near the road surface. Valves were exercised to ensure they operated properly, and new valves were added to provide greater control of the system. Sixteen aging fire hydrants were replaced with new fire hydrants, and a section of old, unused distribution main was disconnected from the system. A GIS map of the water and sewer system, including water valve, hydrant, service connection, and manhole locations was developed with the assistance of Idaho Rural Water.

Phase 3: Well No. 5 Drilling (anticipated completion January 2021): This portion of the project consists of drilling a new 600-foot deep well (Well No. 5) to serve as a new source of supply for the city. The project was bid out in July 2020. Two bids were received; the low bidder was Dig Well Idaho at \$219,198.44. The contract has been awarded to Dig Well, which is in the process of constructing the well.

Phase 4: Priority Water Main Replacements and Well No. 5 Well House and Facilities: This phase includes construction of a new well house and related piping and equipment for Well No. 5 and connection of the well to the distribution system. It also includes replacement of four

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sections of aging distribution piping and related work, including new isolation valves, one new fire hydrant, blowoff connections, and reconnection of customer services.

Phase 5: Booster Station and Water Storage Reservoir Replacement: This phase includes replacement and upsizing of the existing booster station and reservoir located in City Park with a new 1,500-gpm booster station and 350,000-gallon reservoir.

The following sections summarize work completed through the end of the previous month in each portion of the project.

Phase 3 – Well Construction and Water Right Transfers

1. Drilling the well was completed in December 2020. The casing, well screens, and gravel pack were placed, and the temporary 16-inch casing was removed in December 2020 – January 2021.
2. Geophysical logging was completed in December 2020, although it was not possible to drop the sensor into the lower portion of the bore due to sloughing of sedimentary material at one of the lower interbed zones.
3. Work on pouring the sanitary well seal and removing the upper 20-inch temporary casing will begin on January 18, 2021.
4. After the seal is poured, the temporary casing is removed, and the cement has been allowed to set up, the well will be test pumped and water quality samples will be collected and sent to Analytical Labs in Boise for analysis. This work is scheduled for the week of January 18th.
5. The next steps for the driller will be to cap the well and clean up and demobilize their equipment from the well site.
6. Upon completion of well testing, Mountain Waterworks will develop and submit a Well Completion Report to DEQ summarizing the construction of the well, test pumping results, and water quality testing. This document is a DEQ prerequisite to allow the well to be used as a public water system source of supply.

Phase 4 – Priority Water Main Replacements and Well No. 5 Well House and Facilities

1. Mountain Waterworks received review comments from DEQ regarding the plans and specifications on the well house. We have addressed these comments internally and anticipate resubmitting to DEQ by the end of January.

Phase 5 – Booster Station and Water Storage Reservoir Replacement

- Control Engineers is working on completing these plans and specifications incorporating review comments provided by Mountain Waterworks.

Proposed Work for next month (in order of priority):

- Complete Well 5 construction and conduct pump testing and water quality sampling.
- Submit Well Completion Report to DEQ.

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- Submit revised plans/specs to DEQ in response to DEQ review comments.
- Control Engineers to finalize booster station/reservoir drawings for construction and agency review. Drawings, specifications, and bidding documents for the booster station and reservoir can be submitted for agency review after the electrical and control drawings are finalized.

Action Items:

- None at this time.



Total Project Tracking

Owner	City of New Meadows	Through:	1/18/2021
Engineer	Mountain Waterworks	BY:	EJS
LOCATION:	New Meadows, Idaho		

Item No.	Project Description	Budget Total	Percent Total	Amount Allocated to Date	Amount Remaining	
Phase 1 - Distribution						
PHASE 1	1	US-95 Main Replacement Project	\$ 250,000	\$ 281,100	\$ 281,100	\$ -
	2	Valve and Hydrant Replacements	\$ 370,000	\$ 227,500	\$ 227,500	\$ -
	3	GIS Mapping (valves, hydrants, services)	\$ -	\$ 6,240	\$ -	\$ 6,240
	4	Short Distribution Main Replacement Sections	\$ -	\$ 125,000	\$ -	\$ 125,000
Phase 2 - Other						
PHASE 2	3	Land Acquisition	\$ 90,000	\$ 25,000	\$ 25,000	\$ -
	4	Drill and Construct New Well	\$ 225,000	\$ 260,000	\$ 92,689	\$ 167,311
Phase 3 - Reservoirs						
PHASE 3	5	Construct Well Production Facilities and Install Well Pump	\$ 175,000	\$ 365,000	\$ -	\$ 365,000
	6	Construct New Booster Station	\$ 500,000	\$ 670,000	\$ -	\$ 670,000
	7	Construct New Reservoir	\$ 750,000	\$ 430,000	\$ -	\$ 430,000
	8	SCADA System Upgrades	\$ 150,000	\$ 60,000	\$ -	\$ 60,000
SUMMARY	GENERAL CONSTRUCTION SUBTOTAL		\$ 2,510,000	\$ 2,460,000	\$ 626,289	\$ 1,823,711
	9	Administrative, Omissions and Contingency	\$ 251,000	\$ 307,000	\$ -	\$ 307,000
	GENERAL CONSTRUCTION TOTAL WITH CONTINGENCY		\$ 2,761,000	\$ 2,767,000	\$ 626,289	\$ 2,130,711
	10	Engineering Basic Services	\$ 376,500	\$ 376,500	\$ 309,718	\$ 66,782
	11	Engineering Additional Services	\$ 125,500	\$ 130,000	\$ 99,456	\$ 30,544
	12	Construction Inspection/Resident Project Representative	\$ 125,500	\$ 125,000	\$ 78,640	\$ 46,360
	ENGINEERING & INSPECTION SUBTOTAL		\$ 627,500	\$ 631,500	\$ 487,813	\$ 143,687
	TOTAL ESTIMATED PROJECT COST		\$ 3,388,500	\$ 3,388,500	\$ 1,114,102	\$ 2,274,398
	Percentage Complete, out of total funding package			32.9%		
	Construction Percent Contingency			12.2%		