



October 25, 2017

via email

Craig Godbout
Colorado Water Conservation Board
Water Supply Planning Section
1313 Sherman Street, Suite 718
Denver, CO 80203

RE: Final Report – POGG1 2016-746 Mancos Raw Water System Improvements in the Southwest River Basin

Dear Mr. Godbout:

The Town of Mancos respectfully submits our final report on the above referenced project. We would like to take this opportunity to sincerely thank the Colorado Water Conservation Board for their financial assistance with this project. Without your help, we would have not been able to accomplish the improvements to the raw water system.

The Town has successfully accomplished the goals set out in this project, namely, allowing more settlement time at the raw water ponds, reducing leakage and more accurately controlling and measuring our water and providing an expedited route for overflow water to flow back to the Mancos River.

We've included photos from the work completed at the intake site. Also attached is an accounting from our engineers, SGM, detailing all expenditures for this project.

Please let me know if you require anything added to this report.

Sincerely,

A handwritten signature in black ink that reads "Heather Alvarez".

Heather Alvarez
Interim Town Administrator
Town Clerk/Treasurer
halvarez@mancoscolorado.com

117 North Main Street • P.O. Box 487 • Mancos, Colorado 81328

Phone (970) 533-7725 • Fax (970) 533-7727

www.mancoscolorado.com



117 North Main Street • P.O. Box 487 • Mancos, Colorado 81328

Phone (970) 533-7725 • Fax (970) 533-7727

www.mancoscolorado.com



117 North Main Street • P.O. Box 487 • Mancos, Colorado 81328

Phone (970) 533-7725 • Fax (970) 533-7727

www.mancoscolorado.com



117 North Main Street • P.O. Box 487 • Mancos, Colorado 81328

Phone (970) 533-7725 • Fax (970) 533-7727

www.mancoscolorado.com



117 North Main Street • P.O. Box 487 • Mancos, Colorado 81328

Phone (970) 533-7725 • Fax (970) 533-7727

www.mancoscolorado.com

Construction Progress Breakdown by Phase as of 9/28/2017

Owner: Town of Mancos
 Project: Water Systems Upgrade Project
 Location: Mancos, CO

				Ramco Bid		Construction Progress Estimate			
Item #	Unit	Quantity	Item Description	Unit Cost	Total Item Cost	Quantity Installed	Unit Cost	Total Completed to Date	Balance to Finish
Bid Item #1 - General Conditions									
1.1	LS	1	Mobilization, Demobilization, Field Offices	\$ 14,500.00	\$ 14,500.00	1	\$ 14,500.00	\$ 14,500.00	\$ -
1.2	LS	1	Permitting	\$ 1,000.00	\$ 1,000.00	1	\$ 1,000.00	\$ 1,000.00	\$ -
1.3	LS	1	Construction Surveying	\$ 3,450.00	\$ 3,450.00	1	\$ 3,450.00	\$ 3,450.00	\$ -
1.4	LS	1	Erosion Control/Re-vegetation	\$ 9,500.00	\$ 9,500.00	1	\$ 9,500.00	\$ 9,500.00	\$ -
1.5	LS	1	Traffic Control	\$ 3,450.00	\$ 3,450.00	1	\$ 3,450.00	\$ 3,450.00	\$ -
			Bid Item #1 Subtotal		\$ 31,900.00			\$ 31,900.00	\$ -
Bid Item #2 - Montezuma St. Water Main Improvements									
2.1	EA	4	Connect to Existing Main	\$ 862.50	\$ 3,450.00	4	\$ 862.50	\$ 3,450.00	\$ -
2.2	LS	1	Abandon Existing Main	\$ 700.00	\$ 700.00	1	\$ 700.00	\$ 700.00	\$ -
2.3	LF	18	6" D.I.P.	\$ 61.50	\$ 1,107.00	18	\$ 61.50	\$ 1,107.00	\$ -
2.4	LF	935	8" Dia. C-900 PVC	\$ 24.00	\$ 22,440.00	935	\$ 24.00	\$ 22,440.00	\$ -
2.5	EA	8	8" Dia. Fittings	\$ 634.00	\$ 5,072.00	11	\$ 634.00	\$ 6,974.00	\$ (1,902.00)
2.6	EA	3	8" Dia. Valves	\$ 1,524.00	\$ 4,572.00	3	\$ 1,524.00	\$ 4,572.00	\$ -
2.7	EA	1	Fire Hydrant Assembly	\$ 5,010.00	\$ 5,010.00	1	\$ 5,010.00	\$ 5,010.00	\$ -
2.8	EA	8	Reconnect Domestic Service Line	\$ 1,185.00	\$ 9,480.00	8	\$ 1,185.00	\$ 9,480.00	\$ -
2.9	LF	960	4" Utility Conduit (SCH 40 PVC)	\$ 5.00	\$ 4,800.00	964	\$ 5.00	\$ 4,820.00	\$ (20.00)
2.10	SY	22	Sawcut and Replace Asphalt	\$ 106.00	\$ 2,332.00		\$ 106.00	\$ -	\$ 2,332.00
2.11	SY	180	Gravel Street Repair	\$ 26.50	\$ 4,770.00	303	\$ 26.50	\$ 8,029.50	\$ (3,259.50)
			Contingency Item 2.8 See Field Change Worksheet #1					\$ 5,080.00	\$ (5,080.00)
			Bid Item #2 Subtotal		\$ 63,733.00			\$ 71,662.50	\$ (7,929.50)
Bid Item #3 - Pressure Reducing Valve Improvements									
3.1	EA	3	Connect to Existing Main	\$ 920.00	\$ 2,760.00	3	\$ 920.00	\$ 2,760.00	\$ -
3.2	LS	1	Abandon Existing Main and Structures	\$ 3,450.00	\$ 3,450.00	1	\$ 3,450.00	\$ 3,450.00	\$ -
3.3	LF	39	10" Dia. C-900 PVC	\$ 55.00	\$ 2,145.00	39	\$ 55.00	\$ 2,145.00	\$ -
3.4	EA	5	10" Dia. Fittings	\$ 855.00	\$ 4,275.00	8	\$ 855.00	\$ 6,840.00	\$ (2,565.00)
3.5	EA	5	10" Dia.Valves	\$ 2,415.00	\$ 12,075.00	5	\$ 2,415.00	\$ 12,075.00	\$ -
3.6	EA	1	ARV/Vac Vault	\$ 5,750.00	\$ 5,750.00	1	\$ 5,750.00	\$ 5,750.00	\$ -
3.7	EA	1	Install PRV Vault (Owner Furnished)	\$ 8,050.00	\$ 8,050.00	1	\$ 8,050.00	\$ 8,050.00	\$ -
3.8	LF	5	2" Dia. Sump Drain Line	\$ 690.00	\$ 3,450.00	5	\$ 690.00	\$ 3,450.00	\$ -
3.9	LF	100	2" Utility Conduit (SCH 40 PVC)	\$ 17.50	\$ 1,750.00	130	\$ 17.50	\$ 2,275.00	\$ (525.00)
3.10	SY	170	Gravel Street Repair	\$ 9.50	\$ 1,615.00	70	\$ 9.50	\$ 665.00	\$ 950.00
3.11	CY	80	Grading/Swale Improvements Cut/Fill	\$ 20.00	\$ 1,600.00	80	\$ 20.00	\$ 1,600.00	\$ -
3.12	SY	171	Landscape Repair	\$ 6.00	\$ 1,026.00	171	\$ 6.00	\$ 1,026.00	\$ -
			Contingency Item 3.5 See Field Change Worksheet #3					\$ (600.00)	\$ 600.00
			Bid Item #3 Subtotal		\$ 47,946.00			\$ 49,486.00	\$ (1,540.00)

				Ramco Bid		Construction Progress Estimate			
Item #	Unit	Quantity	Item Description	Unit Cost	Total Item Cost	Quantity Installed	Unit Cost	Total Completed to Date	Balance to Finish
Bid Item #4 - Water Treatment Plant Meter Improvements									
4.1	EA	4	Connect to Existing Main	\$ 425.50	\$ 1,702.00	5	\$ 425.50	\$ 2,127.50	\$ (425.50)
4.2	EA	1	Raw Water Meter and Pit	\$ 12,650.00	\$ 12,650.00	1	\$ 12,650.00	\$ 12,650.00	\$ -
4.3	EA	1	Treated Water Meter and Pit	\$ 12,650.00	\$ 12,650.00	1	\$ 12,650.00	\$ 12,650.00	\$ -
4.4	EA	60	2" Utility Conduit (SCH 40 PVC)	\$ 38.50	\$ 2,310.00	60	\$ 38.50	\$ 2,310.00	\$ -
4.5	EA	32	10" Dia. C-900 PVC	\$ 75.00	\$ 2,400.00	32	\$ 75.00	\$ 2,400.00	\$ -
			Contingency Item 4.2 See Field Change Worksheet #2					\$ 18,958.00	\$ (18,958.00)
			Contingency Item 4.3 See Field Change Worksheet #2					\$ 2,450.00	\$ (2,450.00)
			Bid Item #4 Subtotal		\$ 31,712.00			\$ 53,545.50	\$ (21,833.50)
Bid Item #5 - West Mancos River Raw Water Intake Improvements									
5.1	EA	1	Connect to Existing Main	\$ 985.00	\$ 985.00	1	\$ 985.00	\$ 985.00	\$ -
5.2	LS	1	Abandon Existing Main and Structures	\$ 1,725.00	\$ 1,725.00	1	\$ 1,725.00	\$ 1,725.00	\$ -
5.3	LF	665	10" Dia. C-900 PVC	\$ 24.00	\$ 15,960.00	673	\$ 24.00	\$ 16,152.00	\$ (192.00)
5.4	EA	4	10" Dia. Fittings	\$ 468.75	\$ 1,875.00	4	\$ 468.75	\$ 1,875.00	\$ -
5.5	EA	1	10" Dia. Valves	\$ 2,475.00	\$ 2,475.00	1	\$ 2,475.00	\$ 2,475.00	\$ -
5.6	EA	1	Intake Structure and Screens	\$ 20,516.00	\$ 20,516.00	1	\$ 20,516.00	\$ 20,516.00	\$ -
5.7	EA	1	Parshall Flume Facility	\$ 2,595.00	\$ 2,595.00	1	\$ 2,595.00	\$ 2,595.00	\$ -
5.8	CY	50	Settling Pond Grading cut/fill	\$ 28.00	\$ 1,400.00	50	\$ 28.00	\$ 1,400.00	\$ -
5.9	EA	1	Headwall	\$ 2,300.00	\$ 2,300.00	1	\$ 2,300.00	\$ 2,300.00	\$ -
5.10	EA	1	Pond 1 Overflow Structure	\$ 10,900.00	\$ 10,900.00	1	\$ 10,900.00	\$ 10,900.00	\$ -
5.11	LF	119	18" CMP	\$ 49.50	\$ 5,890.50	119	\$ 49.50	\$ 5,890.50	\$ -
5.12	EA	2	4' Dia. MH	\$ 3,150.00	\$ 6,300.00	2	\$ 3,150.00	\$ 6,300.00	\$ -
5.13	EA	2	FES w/ RipRap	\$ 690.00	\$ 1,380.00	2	\$ 690.00	\$ 1,380.00	\$ -
5.14	SF	18000	Drain, clean, and regrade existing ponds	\$ 0.45	\$ 8,100.00	18000	\$ 0.45	\$ 8,100.00	\$ -
5.15	CY	10	Rip Rap	\$ 287.50	\$ 2,875.00	10	\$ 287.50	\$ 2,875.00	\$ -
5.16	SY	50	Gravel Parking Improvements	\$ 30.00	\$ 1,500.00	50	\$ 30.00	\$ 1,500.00	\$ -
5.17	SY	75	Gravel/Two Track Road Restoration	\$ 26.00	\$ 1,950.00	75	\$ 26.00	\$ 1,950.00	\$ -
5.18	LS	1	Landscape Repair	\$ 1,725.00	\$ 1,725.00	1	\$ 1,725.00	\$ 1,725.00	\$ -
			Contingency Item 5.6 See Field Change Worksheet #4					\$ 3,437.50	\$ (3,437.50)
			Contingency Item 5.10 See Field Change Worksheet #4					\$ 2,625.00	\$ (2,625.00)
			Contingency Item Dewatering See Field Change Worksheet #4					\$ 1,600.00	\$ (1,600.00)
			Contingency Item 5.3 See Field Change Worksheet #5					\$ 3,003.00	\$ (3,003.00)
			Bid Item #5 Subtotal		\$ 90,451.50			\$ 101,309.00	\$ (10,857.50)
Bid Item #6 - Contingency/Minor Contract Revisions									
6.1	%	10	Contingency/Minor Contract Revisions		\$ 26,574.25	\$36,553.50 See Contingency Items in Bid Items #2-#5			\$ (9,979.25)
			Total Project Construction Cost		\$ 292,316.75			\$ 307,903.00	\$ (15,586.25)