



Johnstown WTP Expansion from 5 to 10 MGD

2/5/2021

DESCRIPTION OF SERVICES	Principal John P. McGee		Quality Assurance / Quality Control Lead Josh J. McGibbon		Project Manager Andrew C. Sparr		Lead Process Engineer Melissa L. Rhodes		Project Engineer Leah C. Opitz		Design Engineer Ryan Wienpahl		Structural Engineer Adam J. Teunissen		Senior Designer Jon C. Driggers		Administrative Victoria C. Austin		SUBTOTAL LABOR COSTS		EXPENSES				TOTAL COSTS (Rounded to Nearest 100)		
	\$184/hour		\$200/hour		\$152/hour		\$140/hour		\$124/hour		\$116/hour		\$156/hour		\$136/hour		\$104/hour		HRS	\$	PRINT	TRAVEL	SUB-CONSULTANTS	EXPENSE SUBTOTAL	LINE ITEM		
	HRS	SUBTOTAL	HRS	SUBTOTAL	HRS	SUBTOTAL	HRS	SUBTOTAL	HRS	SUBTOTAL	HRS	SUBTOTAL	HRS	SUBTOTAL	HRS	SUBTOTAL	HRS	SUBTOTAL									
Project Initiation and Site Investigations																											
■ Kickoff Meeting and Facility Insepction	6	\$1,104	8	\$1,600	8	\$1,216	8	\$1,120	4	\$496	10	\$1,160	6	\$936	4	\$544	2	\$208	56	\$8,384		\$250		\$250	\$8,634		
■ Geotechnical Site Investigation and Report	2	\$368	1	\$200	1	\$152	2	\$280	1	\$124			6	\$936					13	\$2,060			\$13,070	\$14,377	\$16,437		
■ WTP Site Survey	1	\$184																	1	\$184			\$6,300	\$6,930	\$7,114		
SUBTOTAL	9	\$1,656	9	\$1,800	9	\$1,368	10	\$1,400	5	\$620	10	\$1,160	12	\$1,872	4	\$544	2	\$208	70	\$10,628		\$250		\$19,370	\$21,557	\$32,200	
Concept Design Phase																											
■ Task 1 - Filtration Evaluation and Selection for Expansion	6	\$1,104	6	\$1,200	16	\$2,432	24	\$3,360	32	\$3,968	60	\$6,960	16	\$2,496	40	\$5,440	4	\$416	204	\$27,376		\$400		\$400	\$27,776		
■ Tasks 2 & 3 - CT and Finished Water Pumping	2	\$368	2	\$400	16	\$2,432	18	\$2,520	24	\$2,976	36	\$4,176	4	\$624	6	\$816	2	\$208	110	\$14,520					\$14,520		
■ Tasks 4, 5 & 6 - Building Add, HVAC, and Electrical / Controls	2	\$368	2	\$400	12	\$1,824	6	\$840	8	\$992	8	\$928	20	\$3,120	12	\$1,632	2	\$208	72	\$10,312			\$5,500	\$6,050	\$16,362		
■ Task 8 - Code Compliance and Safety	1	\$184	1	\$200	4	\$608	4	\$560	4	\$496	6	\$696	4	\$624	2	\$272	2	\$208	28	\$3,848			\$2,100	\$2,310	\$6,158		
■ Task 9 - Value Added Ideas	4	\$736	2	\$400	8	\$1,216	12	\$1,680	14	\$1,736	18	\$2,088	4	\$624	4	\$544			66	\$9,024					\$9,024		
■ Weekly Conference Calls and Workshops	6	\$1,104	4	\$800	16	\$2,432	12	\$1,680	12	\$1,488	12	\$1,392	6	\$936	2	\$272	4	\$416	74	\$10,520			\$1,100	\$1,210	\$11,730		
SUBTOTAL	21	\$3,864	17	\$3,400	72	\$10,944	76	\$10,640	94	\$11,656	140	\$16,240	54	\$8,424	66	\$8,976	14	\$1,456	554	\$75,600		\$400		\$8,700	\$9,970	\$85,600	
30 Percent Preliminary Design Phase / CMAR Selection																											
■ 30% Percent Design Documents	4	\$736	4	\$800	40	\$6,080	60	\$8,400	70	\$8,680	80	\$9,280	50	\$7,800	120	\$16,320	4	\$416	432	\$58,512				\$12,900	\$14,190	\$72,702	
■ Weekly Conference Calls and Workshops	2	\$368	2	\$400	8	\$1,216	12	\$1,680	8	\$992	8	\$928	4	\$624					44	\$6,208			\$2,200	\$2,420	\$8,628		
SUBTOTAL	6	\$1,104	6	\$1,200	48	\$7,296	72	\$10,080	78	\$9,672	88	\$10,208	54	\$8,424	120	\$16,320	4	\$416	476	\$64,720				\$15,100	\$16,610	\$81,300	
60 Percent Design Phase and BDR																											
■ 60 Percent Design Documents	8	\$1,472	8	\$1,600	40	\$6,080	90	\$12,600	110	\$13,640	140	\$16,240	90	\$14,040	140	\$19,040	2	\$208	628	\$84,920		\$120		\$14,400	\$15,960	\$100,880	
■ Basis of Design Report	2	\$368	2	\$400	12	\$1,824	8	\$1,120	40	\$4,960	40	\$4,640					2	\$208	106	\$13,520					\$13,520		
■ Responses to CDPHE RFIs	1	\$184	2	\$400	3	\$456	12	\$1,680	52	\$6,448	60	\$6,960					2	\$208	132	\$16,336					\$16,336		
■ Technical Specifications	2	\$368	4	\$800	16	\$2,432	32	\$4,480	40	\$4,960	48	\$5,568	16	\$2,496			2	\$208	160	\$21,312			\$2,200	\$2,420	\$23,732		
■ Design Workshops	8	\$1,472	4	\$800	10	\$1,520	8	\$1,120	8	\$992	6	\$696					3	\$312	47	\$6,912		\$220		\$220	\$7,132		
■ OPC	2	\$368	2	\$400	6	\$912	6	\$840	4	\$496	2	\$232	8	\$1,248			2	\$208	32	\$4,704					\$4,704		
SUBTOTAL	23	\$4,232	22	\$4,400	87	\$13,224	156	\$21,840	254	\$31,496	296	\$34,336	114	\$17,784	140	\$19,040	13	\$1,352	1105	\$147,704		\$340		\$16,600	\$18,600	\$166,300	
CMAR Selection, VE/GMP, and Construction Documents																											
■ CMAR RFO ad Contractor Selection	8	\$1,472	8	\$1,600	24	\$3,648	16	\$2,240	16	\$1,984	20	\$2,320	12	\$1,872			4	\$416	108	\$15,552				\$3,500	\$3,850	\$19,402	
■ 100% Construction Drawings	7	\$1,288	6	\$1,200	40	\$6,080	70	\$9,800	96	\$11,904	132	\$15,312	94	\$14,664	180	\$24,480	2	\$208	627	\$84,936		\$120		\$3,500	\$3,970	\$88,906	
■ 100% Construction Specifications	4	\$736	2	\$400	10	\$1,520	24	\$3,360	32	\$3,968	48	\$5,568	36	\$5,616			2	\$208	158	\$21,376			\$1,500	\$1,650	\$23,026		
■ Finalize GMP and Design Workshops	4	\$736	2	\$400	4	\$608	4	\$560	6	\$744	4	\$464	4	\$624	2	\$272	2	\$208	32	\$4,616			\$16,500	\$18,150	\$22,766		
SUBTOTAL	23	\$4,232	18	\$3,600	78	\$11,856	114	\$15,960	150	\$18,600	204	\$23,664	146	\$22,776	182	\$24,752	10	\$1,040	925	\$126,480		\$120		\$25,000	\$27,620	\$154,100	
Construction Administration - Office																											
■ Submittals, Pay Apps, RFIs, WCDs,	8	\$1,472	2	\$400	40	\$6,080	64	\$8,960	100	\$12,400	150	\$17,400	80	\$12,480	44	\$5,984	6	\$624	494	\$65,800		\$4,400		\$3,500	\$8,250	\$74,050	
■ Record Drawings	3	\$552	4	\$800	10	\$1,520	40	\$5,600	16	\$1,984	40	\$4,640	16	\$2,496	78	\$10,608			207	\$28,200			\$1,500	\$1,650	\$29,850		
SUBTOTAL	11	\$2,024	6	\$1,200	50	\$7,600	104	\$14,560	116	\$14,384	190	\$22,040	96	\$14,976	122	\$16,592	6	\$624	701	\$94,000		\$4,400		\$5,000	\$9,900	\$103,900	
Construction Administration - Field																											
■ Site Observations	12	\$2,208	12	\$2,400	80	\$12,160	100	\$14,000	100	\$12,400	240	\$27,840	80	\$12,480	24	\$3,264			648	\$86,752				\$16,000	\$17,600	\$104,352	
■ Progress Meetings	4	\$736	4	\$800	60	\$9,120	60	\$8,400	48	\$5,952	64	\$7,424	40	\$6,240					280	\$38,672					\$38,672		
■ Start-up, Training and Warranty	2	\$368	2	\$400	40	\$6,080	34	\$4,760	24	\$2,976	44	\$5,104							146	\$19,688		\$3,400		\$8,000	\$12,200	\$31,888	
SUBTOTAL	18	\$3,312	18	\$3,600	180	\$27,360	194	\$27,160	172	\$21,328	348	\$40,368	120	\$18,720	24	\$3,264			1074	\$145,112				\$24,000	\$29,800	\$174,900	
TOTAL																										\$798,300	

Notes:

- 1 Fee is based on a construction budget of \$8.0M and CMAR Delivery
- 2 Scope and fee based on Selection of either Alt #1 - GFM or Alt #2 Mixed Meida Filter Expansion
- 3 Construction Administration Fees based on 14 month construction schedule and once per week site visits and periodic rebar inspections
- 4 Exclusions: LTR Raw Water Pipeline Design and Construction, geotechnical and material testing during construction