

HMGP - McKay Creek Operable Lake Controls & SCADA (Project Costs Breakdown & Schedules)

Cost data from McKay Creek Watershed Lake Levels Operation Study (2020)

Budget Breakdown	Taylor Lake	Walsingham Res.	Subtotal	
Construction (2 yr)	\$1,091,920	\$974,477	\$2,066,397	Construction
Additional Owner's Cost (40%)*	\$436,768	\$389,197	\$825,965	Design (Post-Award)
Engineering design / survey (20%) FY24	\$218,384	\$194,895	\$413,279	Design (Pre-Award & Post-Award)
Bond (5%)	\$54,596	\$48,724	\$103,320	Construction
			\$3,408,961	
Pre-Award PER 1/2 of \$200K Cost (FY23)**			\$100,000	Design (Pre-Award)
Proposed Project Budget in 2020-Mar Memo	\$1,801,668	\$1,607,293	\$3,508,961	HMGP Project Cost
		5%	\$175,448	5% Contingency Request
			\$3,684,409	Final Project Cost
	75%	\$2,763,307	Federal share	
	25%	\$921,102	Local Share	
	100%	\$3,684,409		
	5%	\$184,220	Management Cost Allowed	
		\$184,000	Management Costs Requested	Total Project Cost
		\$2,947,307	HMGP Funding Request Total	\$3,868,409

2021-12-17 update

		Pre-Award	Performance (Year 2 to Year 4)			
		Year 1	Year 2	Year 3	Year 4	HMGP Subtotal
Total Design	HMGP-Design					
\$1,339,244	\$1,004,433	502,217	502,217			1,004,433
Total Const.	HMGP-Const					
\$2,169,717	\$1,627,288			813,644	813,644	1,627,288
Total Contingency	HMGP Contingency					
\$175,448	\$131,586.04			65,793	65,793	131,586
Total Management	HMGP-Mgmt					
\$184,000	\$184,000		61,327	61,327	61,327	183,982
Project Sum	HMGP Subtotal					
\$3,868,409	\$2,947,307	502,217	563,544	940,764	940,764	2,947,288

Project Schedules	days	Complete	FY	HMGP Milestone
HMGP Application Submittal		2021-12-21	FY22	early FY22 : HMGP Application
NEPA Analysis (by FDEM Env.)				
NTP PER Phase Start (12 mo)		2022-10-01	FY23	early-FY23 : PER starts
Survey	1	2022-10-02		
Geotech	1	2022-10-03		
Environmental Assessment	1	2022-10-04		
Easement Coordination	1	2022-10-05		
Public Outreach	1	2022-10-06		
PER Complete	360	2023-10-01		
HMGP Grant Start / BCC Execution of HMGP Agreement	0	2023-10-01		early FY24 : HMGP 3Y Performance Period starts
NTP Final Design Phase Start (6 mo)	1	2023-10-02	FY24	
Final Design /Permitting Complete	180	2024-03-30		
Bidding Phase Start (allow 6 mo)	20	2024-04-19		
Bid Advertisement	30	2024-05-19		
Contractor Selection	60	2024-07-18		
BCC Execution of Contractor Award	45	2024-09-01		
NTP Construction Phase Start (24 mo)	30	2024-10-01	FY25	early-FY25 Construction starts
Construction	180	2025-03-30		
Construction	180	2025-09-26	FY26	early-FY26
Construction	180	2026-03-25		
Construction Complete	180	2026-09-21		
HMGP Grant Close Out	15	2026-10-06	FY27	early-FY27 : HMGP 3Y ends

* Additional Owner's Costs may include real estate/easements (minor), public relations, permitting fees, bidding, geotech / env. testing, and minor cost-escalation)
**A \$200K PER phase is planned for FY23, and County recently applied for 100k funding from SWFWMD (still in review). Project cost breakdown is requesting 100k from HMGP as Pre-Award funding assistance.
** 2020Construction cost estimates as shown have not been escalated to mid-year construction cost.

Mgmt Cost Estimates	Hr/day	Days	Weeks	Hours	Hour Rate	
CEI (24mo)	8	5	96	3840	\$75	\$288,000
Project Engineer (36mo)	2	5	144	1440	\$95	\$136,800
				5280		\$424,800

Table 6. Taylor Lake Flood Control Structure Planning-level Cost Opinion

Bid Items	Unit	Quantity	Unit Price	Amount
Mobilization (max of 5% construction cost)	LS	1	\$51,520.00	\$51,520
Temporary Erosion Control Measures (temporary cofferdam)	LS	1	\$70,000.00	\$70,000
Dewatering and Bypass Pumping	LS	1	\$150,000.00	\$150,000
Existing Spillway Demolition	LS	1	\$80,000.00	\$80,000
Steel Sheet Pile Wall with Concrete Cap	LS	1	\$120,000.00	\$120,000
Dredge and Disposal	CY	3,800	\$38.00	\$144,400
Gate Structures (Aluminum)	EA	2	\$30,000.00	\$60,000
Operating Platform	EA	1	\$50,000.00	\$50,000
Riprap, Rubble, (Ditch Lining) with Filter Fabric	TN	600	\$110.00	\$66,000
SCADA Hardware / Instrumentation	LS	1	\$110,000.00	\$110,000
SCADA Control Structure	LS	1	\$150,000.00	\$150,000
Power / Electrical / Gate Actuators	LS	1	\$40,000.00	\$40,000
Construction Costs				\$1,091,920.00
Additional Owner Costs (40%)	LS	1	\$436,768.00	\$436,768.00
Engineering / Design / Survey (20%)	LS		\$218,384.00	
Performance and Payment Bond Premiums and Insurance (5% max)	LS	1	\$54,596.00	\$54,596.00
Taylor Lake Total Cost (not including engineering / design / survey)				\$1,583,284.00

Table 5. Walsingham Reservoir Flood Control Structure Planning-level Cost Opinion

Bid Items	Unit	Quantity	Unit Price	Amount
Mobilization (max of 5% construction cost)	LS	1	\$45,927.50	\$45,928
Temporary Erosion Control Measures (temporary cofferdam)	LS	1	\$70,000.00	\$70,000
Dewatering & Bypass Pumping	LS	1	\$150,000.00	\$150,000
Existing Spillway Demolition	LS	1	\$60,000.00	\$60,000
Steel Sheet Pile Wall with Concrete Cap	LS	1	\$80,000.00	\$80,000
Dredge and Disposal	CY	2,225	\$38.00	\$84,550
Gate Structures (Aluminum)	EA	3	\$30,000.00	\$90,000
Operating Platform	EA	1	\$40,000.00	\$40,000
Riprap, Rubble, (Ditch Lining) with Filter Fabric	TN	400	\$110.00	\$44,000
SCADA Hardware / Instrumentation	LS	1	\$110,000.00	\$110,000
SCADA Control Structure	LS	1	\$150,000.00	\$150,000
Power / Electrical / Gate Actuators	LS	1	\$50,000.00	\$50,000
Construction Costs				\$974,477.50
Additional Owner Costs (40%)	LS	1	\$389,791.00	\$389,791.00
Engineering / Design / Survey (20%)	LS		\$194,895.50	
Performance and Payment Bond Premiums and Insurance (5% max)	LS	1	\$48,723.88	\$48,723.88
Walsingham Reservoir Total Cost (not including engineering / design / survey)				\$1,412,992.38