

Cost Estimate Summary for Grassy Island RI/FS Wayne County, Michigan

NUMBER	TASK TITLE	LABOR	ODCs*	TOTALS
100	Project Planning	\$86,000	\$1,927	\$87,927
200	Site Investigation - Assessment of Existing Data	\$39,600	\$3,963	\$43,563
300	Site Investigation - Field Sampling	\$208,800	\$264,874	\$473,674
400	Remedial Investigation (RI)	\$109,600	\$3,097	\$112,697
500	Feasibility Study (FS)	\$48,000	\$1,218	\$49,218
600	Project Management and Reporting	\$27,000	\$959	\$27,959
RI/FS SUBTOTAL COST		\$519,000	\$276,038	\$795,038
700	Proposed Plan Support	\$24,000	\$470	\$24,470
800	Record of Decision Support	\$12,000	\$470	\$12,470
TOTAL ESTIMATED COST		\$555,000	\$276,978	\$831,978
* ODCs (Other Direct Costs) are nonlabor expenses				

Labor Cost Estimate for Grassy Island RI/FS

Wayne County, Michigan

Number		Task	Totals
			Avg Rate = \$100.00
100		Project Planning	
	110	Work Plan	420.0
	120	Sampling and Analysis Plan (SAP)	240.0
	130	Health and Safety Plan	120.0
	140	Finalization and Approval	40.0
	150	Community Relations Plan (Agency Support)	40.0
100		SUBTOTAL HOURS	860.0
100		SUBTOTAL COST	\$86,000.00
200		Site Investigation - Assessment of Existing Data	
	210	Gather, Review & Evaluate Existing Data	80.0
	220	Conduct Site Visit	36.0
	230	Establish Baseline Conditions	40.0
	240	Recommended Methodologies for Establishing Cleanup Values	80.0
	250	Develop Grassy Island Database	80.0
	260	Evaluate Current and Planned Site Uses	40.0
	270	Summarize Existing Data and Identify Data Gaps	40.0
200		SUBTOTAL HOURS	396.0
200		SUBTOTAL COST	\$39,600.00
300		Site Investigation - Field Sampling	
	310	Surveying and Mapping of the Site	
	311	Topographic Survey	40.0
	312	Hydrographic Survey	40.0
	320	Field Sampling	
	321	Groundwater Sampling	160.0
	322	Groundwater Tracer Study (Dike wall integrity)	240.0
	323	Surface Water Sampling/Modeling	240.0
	324	Soil Sampling	160.0
	325	Sediment Sampling	160.0
	326	Soil Gas Sampling	160.0
	327	Air Sampling	240.0
	328	Ecological Sampling	240.0
	329	Field Screening and Processing	80.0
	330	Data Analysis	
	331	Chemical Analyses	40.0
	332	Geotechnical Analyses	24.0
	333	Toxicity Analyses	24.0
	340	Data Review and Analysis	80.0
	350	Field Sampling Report	
	351	Prepare Report	120.0
	352	FWS Review & Comment	40.0
300		SUBTOTAL HOURS	2,088.0
300		SUBTOTAL COST	\$208,800.00

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Number		Task	Totals
			Avg Rate = \$100.00
400		Remedial Investigation (RI)	
	410	Summary of Study Area Investigations	40.0
	420	Physical Characteristics of Site	40.0
	430	Nature and Extent of Contamination	120.0
	440	Contaminant Fate and Transport	120.0
	450	Baseline Risk Assessment	500.0
	460	Ecological Risk Assessment	100.0
	470	Prepare RI Report	
	471	Prepare Draft Report	120.0
	472	Address Comments	32.0
	473	Prepare Final RI Report	24.0
400		SUBTOTAL HOURS	1,096.0
400		SUBTOTAL COST	\$109,600.00
500		Feasibility Study (FS)	
	510	Identify, Review and Evaluate Remedial Alternatives	240.0
	520	Prepare FS Report	
	521	Prepare Draft Report	160.0
	522	Address Comments	40.0
	523	Prepare Final FS Report	40.0
500		SUBTOTAL HOURS	480.0
500		SUBTOTAL COST	\$48,000.00
600		Project Management and Reporting	
	610	Project Kick-off Meeting	48.0
	620	Progress Reporting	48.0
	630	Meetings	120.0
	640	Invoicing	54.0
600		SUBTOTAL HOURS	270.0
600		SUBTOTAL COST	\$27,000.0
700		Proposed Plan Support	
	710	Technical Support of Proposed Plan	240.0
700		SUBTOTAL HOURS	240.0
700		SUBTOTAL COST	\$24,000.0
800		Record of Decision Support	
	810	Technical Support of ROD	120.0
800		SUBTOTAL HOURS	120.0
800		SUBTOTAL COST	\$12,000.0
TOTAL HOURS			5,550.0
TOTAL LABOR COST			555,000.00

ODC Estimate for Grassy Island RI/FS Wayne County, Michigan

Number	Task	Computer	Travel	Misc	Shipping	Subcontractor	Laboratory	Totals
100	Project Planning							
110	Work Plan	\$320.00		\$100.00	\$200.00			\$620.00
120	Sampling and Analysis Plan (SAP)	\$320.00		\$100.00	\$50.00			\$470.00
130	Health and Safety Plan	\$320.00		\$100.00	\$50.00			\$470.00
140	Finalization and Approval	\$128.00		\$100.00	\$50.00			\$278.00
150	Community Relations Plan (Agency Support)	\$64.00			\$25.00			\$89.00
100	SUBTOTAL COST	\$1,152.00	\$0.00	\$400.00	\$375.00	\$0.00	\$0.00	\$1,927.00
200	Site Investigation - Assessment of Existing Data							
210	Gather, Review & Evaluate Existing Data	\$64.00		\$100.00	\$25.00			\$189.00
220	Conduct Site Visit		\$3,011.00	\$100.00				\$3,111.00
230	Establish Baseline Conditions			\$50.00	\$25.00			\$75.00
240	Recommended Methodologies for Establishing Cleanup Values	\$64.00		\$50.00	\$25.00			\$139.00
250	Develop Grassy Island Database	\$64.00		\$50.00	\$25.00			\$139.00
260	Evaluate Current and Planned Site Uses			\$50.00	\$25.00			\$75.00
270	Summarize Existing Data and Identify Data Gaps	\$160.00		\$50.00	\$25.00			\$235.00
200	SUBTOTAL COST	\$352.00	\$3,011.00	\$450.00	\$150.00	\$0.00	\$0.00	\$3,963.00
300	Site Investigation - Field Sampling							
310	Surveying and Mapping of the Site							
311	Topographic Survey		\$50.00	\$250.00		\$5,000.00		\$5,300.00
312	Hydrographic Survey		\$50.00	\$250.00	\$100.00	\$24,000.00		\$24,400.00
320	Field Sampling							
321	Groundwater Sampling		\$410.00	\$250.00		\$70,500.00	\$18,540.00	\$89,700.00
322	Groundwater Tracer Study (Dike wall integrity)		\$410.00	\$250.00		\$500.00	\$2,500.00	\$3,660.00
323	Surface Water Sampling/Modeling	\$320.00	\$410.00	\$250.00		\$500.00	\$18,540.00	\$20,020.00
324	Soil Sampling		\$410.00	\$250.00		\$500.00	\$9,260.00	\$10,420.00
325	Sediment Sampling		\$410.00	\$250.00		\$500.00	\$9,270.00	\$10,430.00
326	Soil Gas Sampling		\$410.00	\$250.00		\$500.00	\$6,500.00	\$7,660.00
327	Air Sampling		\$410.00	\$250.00	\$100.00	\$65,000.00	\$20,000.00	\$85,760.00
328	Ecological Sampling						see task 460 - ERA	\$0.00
329	Field Screening and Processing							\$0.00
330	Data Analysis							
331	Chemical Analyses	\$192.00						\$192.00
332	Geotechnical Analyses	\$192.00					\$6,500.00	\$6,692.00
333	Toxicity Analyses	\$192.00					see task 460 - ERA	\$192.00
340	Data Review and Analysis							\$0.00
350	Field Sampling Report							
351	Prepare Report	\$320.00						\$320.00
352	FWS Review & Comment	\$128.00						\$128.00
300	SUBTOTAL COST	\$1,344.00	\$2,970.00	\$2,250.00	\$200.00	\$167,000.00	\$91,110.00	\$264,874.00

ODC Estimate for Grassy Island RI/FS Wayne County, Michigan

Number	Task	Computer	Travel	Misc	Shipping	Subcontractor	Laboratory	Totals
400	Remedial Investigation (RI)							
410	Summary of Study Area Investigations	\$192.00						\$192.00
420	Physical Characteristics of Site	\$192.00						\$192.00
430	Nature and Extent of Contamination	\$192.00						\$192.00
440	Contaminant Fate and Transport	\$200.00		\$30.00				\$230.00
450	Baseline Risk Assessment	\$320.00		\$100.00	\$200.00			\$620.00
460	Ecological Risk Assessment Support	\$192.00		\$50.00	\$25.00		By USFWS	\$267.00
470	Prepare RI Report							
471	Prepare Draft Report	\$320.00		\$200.00	\$100.00			\$620.00
472	Address Comments	\$128.00		\$50.00	\$50.00			\$228.00
473	Prepare Final RI Report	\$256.00		\$200.00	\$100.00			\$556.00
								\$0.00
400	SUBTOTAL COST	\$1,992.00	\$0.00	\$630.00	\$475.00	\$0.00	\$0.00	\$3,097.00
500	Feasibility Study (FS)							
510	Identify, Review and Evaluate Remedial Alternatives							\$0.00
520	Prepare FS Report							\$0.00
521	Prepare Draft Report	\$320.00		\$200.00				\$520.00
522	Address Comments	\$192.00		\$50.00				\$242.00
523	Prepare Final FS Report	\$256.00		\$200.00				\$456.00
								\$0.00
500	SUBTOTAL COST	\$768.00	\$0.00	\$450.00	\$0.00	\$0.00	\$0.00	\$1,218.00
600	Project Management and Reporting							
610	Project Kick-off Meeting			\$50.00				\$50.00
620	Progress Reporting	\$192.00		\$50.00				\$242.00
630	Meetings			\$400.00				\$400.00
640	Invoicing	\$192.00		\$50.00	\$25.00			\$267.00
600	SUBTOTAL COST	\$384.00	\$0.00	\$550.00	\$25.00	\$0.00	\$0.00	\$959.00
700	Proposed Plan Support							
710	Technical Support of Proposed Plan	\$320.00		\$100.00	\$50.00			\$470.00
700	SUBTOTAL COST	\$320.00	\$0.00	\$100.00	\$50.00	\$0.00	\$0.00	\$470.00
800	Record of Decision Support							
810	Technical Support of ROD	\$320.00		\$100.00	\$50.00			\$470.00
800	SUBTOTAL COST	\$320.00	\$0.00	\$100.00	\$50.00	\$0.00	\$0.00	\$470.00
TOTAL		\$6,632.00	\$5,981.00	\$4,930.00	\$1,325.00	\$167,000.00	\$91,110.00	\$276,978.00