



**Waterford Waterway Management District  
Agenda  
Thursday February 10<sup>th</sup>, 2022 at 6:00PM**

**This meeting was held in person at the Waterford Town Hall and online using Zoom**

1. Call to Order. 6:00 pm. Grant, Bill, Dan, Scott, Margaret, Alex present.
2. ESR Small Scale Dredging:
  - a) Review
  - b) Discussion with Engineering Firm
    - a. Q and A
      - i. Mark Kaiser from K&A
        1. Intro to the company and Geosyntec
      - ii. Brian Valleskey from Geosyntec
        1. Focuses on project manual and bid document
        2. Representative project references
      - iii. Margaret and Bill question about experience with inland dredging projects.
      - iv. Bill: The WWMD consists of a volunteer board and no one on this board has the experience and knowledge to construct a detailed dredging RFP nor do we have the experience to answer bidders questions or evaluate their proposals to ensure those proposals will adhere to the WI-DNR dredging permit and our detailed contract, in addition we don't have the time and experience to project manage a dredging company to ensure that their weekly dredging is meeting our contract expectations and requirements, therefore it is critical that we hire an experienced engineering firm to write a detailed technical RFP and to have them project manage the project should it go forward.
      - v. Scott: Do you have a deep understanding of Wisconsin regulations relating to dredging? K&A has been working with Eco Waterways and the relationship between them will cover the gaps.
      - vi. Discussion about the past projects and ability to do the job.
      - vii. Discussion of the tasks proposed.
      - viii. Discussion about contractor accountability.
      - ix. Discussion about proposed costs and overruns
      - x. Discussion about timeline.
3. Follow up actions required
  - a. **Grant moves to, pending the answers to the question that Margaret has asked regarding experience from K&A on size of last projects, we move forward with engineering next Friday August 18, knowing that we are not committed to the full \$100,000 but that we would spend not to exceed**

**\$30,000. Bill seconded. Dan, Scott, Bill, Grant Yes- Margaret No. Alex not present for vote. Motion passed 4-1.**

- b. Scott would like way to communicate with K&A future questions from riparians. Can relay through Grant.
  - c. Margaret agrees that the WWMD should use an engineering firm for the purpose of managing the RFP process but she feels it is premature to begin the work. K&A mentioned several times during their presentation that their work is based entirely on the details of the approved permit issued by the DNR. We do not have an approved permit yet so we don't know the final terms of the work that we need to do. If the DNR does not approve the permit application or requires changes to the application, work completed by K&A in the interim may be wasted or need to be redone. This has happened in the past and Margaret would like to avoid wasting engineering time and money until we have clear specifications based on an approved permit from the DNR.
  - d. Questions from the riparians attending:
    - i. Location for spoils
    - ii. Question about proposed dredging paths.
    - iii. Access points for dredging spoils removal.
    - iv. How many dredging companies have we talked to? 12
    - v. Question about bathymetry of channels.
4. Adjournment. Grant motion to adjourn. Dan seconded. Approved 5-0. Meeting adjourned 7:58 pm.



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**Zoom Information:**

Waterford WWMD is inviting you to a scheduled Zoom meeting.

**Join Zoom Meeting**

<https://us06web.zoom.us/j/81528583883?pwd=VDZ5MWZpUHRKNnA4cWgxOEh3eXUzdz09>

Meeting ID: 815 2858 3883

Passcode: 213989

One tap mobile

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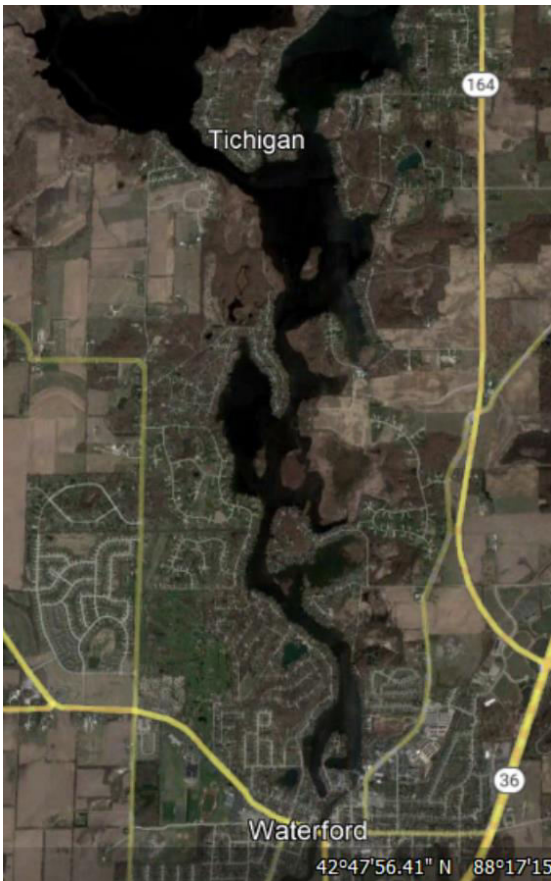
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Meeting ID: 815 2858 3883

Passcode: 213989

Find your local number: <https://us06web.zoom.us/j/keAW9BXwAV>

# Assistance with RFP Development for Dredging the Fox River Impoundment and Portions of Tichigan Lake



Waterford Waterway  
Management District  
5826 N River Bay Road  
Waterford, WI 53185

**KIESER & ASSOCIATES**  
ENVIRONMENTAL SCIENCE & ENGINEERING

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**Geosyntec**

consultants

10600 N Port Washington  
Rd #100  
Mequon, WI 53092  
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(630) 203-3362

# *The Project Team*



- Mark Kieser, Senior Scientist
  - *Project Director*
- John Jacobson, PE, Senior Engr.
  - *Project Manager*
- Mike Foster, Env. Engr.
  - *Engineering Support*
- Jacob Utrie, Project Scientist
  - *Field Technician*
- Zach Harrison, Project Scientist
  - *Field Technician*



- Brian Valleskey, CFM, CLP
  - *Local Project Team Liaison*
- Dogus Meric, Ph.D., P.E.
  - *Senior Adviser*
- Jim Hansen, P.E. (WI, IL, WA)
  - *Senior Adviser*

# Representative Projects

- Hiland Lake, Livingston County, MI
  - Large-scale Diver Assisted Suction Harvesting
  - Eco Waterway Services
- Mona Lake Alum Treatment, Norton Shores, MI
  - Drowned river-mouth lake
  - Sediment-P impairments
- Cedar Lake, Oscoda, MI
  - Shallow (<5ft) 1,050-acre lake
  - Lake levels, vegetation, muck sediments
- Big Green Lake, Green Lake, WI
  - Lake circulation modeling
  - P impairments
  - Watershed sediment & P controls
- Lake Aldo Leopold Sediment Removal, Lake County, IL
  - Plan, assess, design, permit, and bid the removal 24,000 cubic yards of fine-grained sediment
- Delavan Lake South Inlet Channel Stabilization, Walworth County, WI
  - Assessment, alternatives review, design improvement, engineering, and permitting
- Muskegon Lake Shoreline Reconstruction at Ryerson Creek, Muskegon, MI
  - Engineer of record for AOC sediment removal and remediation
  - Reconstruction of the lake shoreline and the remnant creek channel
  - Containment of contaminated sediments, invasive dredging

# Proposed 2022 Year-1 Costs

Task Description	K&A Staff								Geosyntec Staff				Direct Costs	Line Item Subtotals	Timeline
	Senior Scientist (\$210/hr)		Senior Engineer (\$160/hr)		Environmental Engineer (\$110/hr)		Technical Support (\$70/hr)		Senior Engineer (\$224/hr)		Senior Staff Professional (\$154/hr)				
	Hours	Costs (\$)	Hours	Costs (\$)	Hours	Costs (\$)	Hours	Costs (\$)	Hours	Costs (\$)	Hours	Costs (\$)			
<b>Task 1 - Project Manual</b>															
On-site visit with WWMD staff/representatives	2	420	16	2,560		-	-	-	-	-	-	-	1,000	3,980	Feb-Mar
Preliminary compilation of information	4	840	32	5,120	16	1,760	20	1,400	-	-	-	-	1,000	10,120	Feb-Mar
Review RFP data and prepare draft RFP	10	2,100	40	6,400	-	-	24	1,680	-	-	-	-		10,180	Feb-Mar
Mapping and Details as needed	4	840	24	3,840	36	3,960	40	2,800	12	2,688	16	2,464		16,592	Feb-Mar
Quality Assurance Check By Geosyntec	2	420	8	1,280		-		-	28	6,272	52	8,008	1,000	16,980	Mar
Finalization of RFP for Bidding	8	1,680	56	8,960	16	1,760	12	840	-	-	-	-		13,240	Mar
<i>Task 1 Subtotals</i>	30	6,300	176	28,160	68	7,480	96	6,720	40	8,960	68	10,472	3,000	71,092	
<b>Task 2 - Bidding Support</b>	2	420	30	4,800		-		-	8	1,792	8	1,232	1,000	9,244	Apr
<i>Task 2 Subtotals</i>	2	420	30	4,800	-	-	-	-	8	1,792	8	1,232	1,000	9,244	
<b>Engineer's Price Task 1-2 - Subtotals/TOTAL</b>	32	6,720	206	32,960	68	7,480	96	6,720	48	10,752	76	11,704	4,000	80,336	
<b>Additional Drawings Task 3 - Pre-construction Sed Survey</b>	6	1,260	24	3,840	40	4,400	120	8,400	6	1,344	8	1,232	2,500	22,976	Apr
<b>ALTERNATIVE Scope of Work Tasks (Costs are estimates)</b>															
Task 4 - First-season Construction Support	2	420	24	3,840	16	1,760	120	8,400	60	13,440	16	2,464	3,500	33,824	June-Sept
Task 5 - Post-construction Sediment Documentation	6	1,260	24	3,840	40	4,400	80	5,600	24	5,376	16	2,464	2,500	25,440	Sept
<i>Alternative Services - Subtotals/TOTAL</i>	8	1,680	48	7,680	56	6,160	200	14,000	84	13,440	32	3,520	14,500	60,980	

# Proposed Year 2 & 3 Estimated PM Costs

Task Description	K&A Staff								Geosyntec Staff				Direct Costs	Line Item Subtotals	Timeline
	Senior Scientist (\$210/hr)		Senior Engineer (\$160/hr)		Environmental Engineer (\$110/hr)		Technical Support (\$75/hr)		Senior Engineer (\$224/hr)		Senior Staff Professional (\$160/hr)				
	Hours	Costs (\$)	Hours	Costs (\$)	Hours	Costs (\$)	Hours	Costs (\$)	Hours	Costs (\$)	Hours	Costs (\$)			
<b>Year 2 Project Management</b>															
Task 4 - Second-season Construction Support	2	420	24	3,840	16	1,760	160	12,000	60	13,440	16	2,560	3,500	37,520	June-Sept
Task 5 - Post-construction Sediment Documentation	6	1,260	24	3,840	40	4,400	80	6,000	24	5,376	16	2,560	2,500	25,936	Sept
<i>Alternative Year 2 Services - Subtotals/TOTAL</i>	8	1,680	48	7,680	56	6,160	240	18,000	84	18,816	32	5,120	6,000	63,456	
<b>Year 3 Project Management/Closeout</b>															
Task 4 - Third-season Construction Support	2	420	24	3,840	16	1,760	160	12,000	60	13,440	16	2,560	3,500	37,520	June-Sept
Task 5 - Post-construction Sediment Documentation	6	1,260	24	3,840	40	4,400	80	6,000	24	5,376	16	2,560	2,500	25,936	Sept
Task 6 - Project Closeout	12	2,520	40	6,400	40	4,400	40	3,000	40	8,960	16	2,560	2,500	30,340	Nov
<i>Alternative Year 3 Services - Subtotals/TOTAL</i>	20	4,200	88	14,080	96	10,560	280	21,000	124	27,776	48	7,680	8,500	93,796	



**To:** Grant Horn, Commissioner  
Waterford Waterway Management District

**Date:** February 10, 2022

**From:** Mark Kieser, Senior Scientist  
John Jacobson, PE, Senior Engineer

**cc:** Proposal Files

**RE:** Updated Proposal Costs for Year 2-3 Project Management of Dredging in the Fox River Impoundment and Portions of Tichigan Lake

Per a request from a fellow Commissioner of the District, the Kieser & Associates, LLC (K&A) and Geosyntec Project Team were asked to provide costs for project management of the 3-year dredging project in Years 2 and 3. The Project Team previously estimated our Year 1 costs for these services as Alternative Scope of Work Tasks 4 and 5 with our formal submission to assist with the preparation of the RFP. Our proposal described efforts for these tasks associated with active dredging operations and year-end documentation of dredging progress.

We provide below, estimated costs for Tasks 4 and 5 for each of Years 2 and 3 of the project. As denoted in our proposal, those costs were estimated as Year 1 Alternative Scope of Work efforts not yet knowing when, and/or how much progress could be made in Year 1 of the project. For consistency, our Year 2 and 3 estimated cost projections for Project Management are provided in the following table in the same format as our proposal submission. We anticipate that Year 2 project management efforts would be as described for Year 1 Tasks 4 and 5, while our Year 3 estimated costs would include additional time for Project Closeout.

Task Description	K&A Staff								Geosyntec Staff				Direct Costs	Line Item Subtotals	Timeline
	Senior Scientist (\$210/hr)		Senior Engineer (\$160/hr)		Environmental Engineer (\$110/hr)		Technical Support (\$75/hr)		Senior Engineer (\$224/hr)		Senior Staff Professional (\$160/hr)				
	Hours	Costs (\$)	Hours	Costs (\$)	Hours	Costs (\$)	Hours	Costs (\$)	Hours	Costs (\$)	Hours	Costs (\$)			
<b>Year 2 Project Management</b>															
Task 4 - Second-season Construction Support	2	420	24	3,840	16	1,760	160	12,000	60	13,440	16	2,560	3,500	37,520	June-Sept
Task 5 - Post-construction Sediment Documentation	6	1,260	24	3,840	40	4,400	80	6,000	24	5,376	16	2,560	2,500	25,936	Sept
<i>Alternative Year 2 Services - Subtotals/TOTAL</i>	<i>8</i>	<i>1,680</i>	<i>48</i>	<i>7,680</i>	<i>56</i>	<i>6,160</i>	<i>240</i>	<i>18,000</i>	<i>84</i>	<i>18,816</i>	<i>32</i>	<i>5,120</i>	<i>6,000</i>	<i>63,456</i>	
<b>Year 3 Project Management/Closeout</b>															
Task 4 - Third-season Construction Support	2	420	24	3,840	16	1,760	160	12,000	60	13,440	16	2,560	3,500	37,520	June-Sept
Task 5 - Post-construction Sediment Documentation	6	1,260	24	3,840	40	4,400	80	6,000	24	5,376	16	2,560	2,500	25,936	Sept
Task 6 - Project Closeout	12	2,520	40	6,400	40	4,400	40	3,000	40	8,960	16	2,560	2,500	30,340	Nov
<i>Alternative Year 3 Services - Subtotals/TOTAL</i>	<i>20</i>	<i>4,200</i>	<i>88</i>	<i>14,080</i>	<i>96</i>	<i>10,560</i>	<i>280</i>	<i>21,000</i>	<i>124</i>	<i>27,776</i>	<i>48</i>	<i>7,680</i>	<i>8,500</i>	<i>93,796</i>	

Pre-season and post-season surveying are covered with the Year 2 and 3 cost estimates. Billing rates for K&A field technicians and Geosyntec Senior Staff Professional categories reflect an ~5-10% increased billable rate in Years 2 and 3 over Year 1 rates as an inflation adjustment.

Timing of our Task 5 pre- and post-dredging surveys was not identified in our original proposal. We would anticipate that the monthly contractor-provided project reports could serve as the basis for monthly progress payments based on pre-dredging survey data conducted at the beginning of each season. Season-end progress payments/adjustments would be made based on the K&A Team post-dredging, end-of-season surveys.

In Year 3, the Project Team has included anticipated time for a Task 6 Project Closeout that would cover review of disposal site remediation completeness, permit

documentation, a project summary of 3-year effort, and other ancillary coordination and communications.