La Crosse River Marsh Remedial Action Options Report







Cost Estimate Summary

Site: La Crosse River Marsh Location: La Crosse, Wisconsin Phase: Remedial Action Options Report Base Year: 2020 Date: 09/28/2020

Alternative	Active Remediation Time (vears)	Estimated Active Remediation Cost	Active Remediation Cost Range ¹	Monitoring and Maintenance Duration (years)	Annual Monitoring and Maintenance Cost	Annual Monitoring and Maintenance Cost Range	Total Annual Monitoring and Maintenance Cost (\$Millions/ duration)	Net Present Value (NPV) Annual Monitoring and Maintenance Cost (\$Millions/ duration)	Total Alternative Cost (\$ Millions) ²
Option A - No Further Remedial Action	N/A	\$0	\$0	50	\$10,000	\$7K - \$15K	\$500,000	\$290,000	\$0.2M - \$0.4M
Option B - PAH Hot Spot Removal									
and Institutional Controls	1	\$460,000	\$0.3M - \$1M	30	\$22,000	\$15K - \$33K	\$669,400	\$450,000	\$0.6M - \$1.4M
Option C - Lead and PAH Hot Spot Removal				5 Year Review					
	1-2	\$7,910,000	\$6M - \$12M	(Single Event)	\$50,000	\$35K - \$75K	\$50,000	\$49,200	\$6M - \$12M
				5 Year Review					
Option D - Dredging & Disposal	2	\$28,490,000	\$20M - \$43M	(Single Event)	\$50,000	\$35K - \$75K	\$50,000	\$49,200	\$20M - \$43M

Notes:

 1 A range of +50% and -30% is considered appropriate for this project.

² Adjusted for Net Present Value (NPV) of maintenance and monitoring program using an annual interest rate from OMB Circular A-94 2020 update.

Option B is recommended

Prepared by: JAM8 Checked by: TSW1



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Drawn By: JRS6

Checked By: TSW

Project: 190003

6. tPAH contours are approximate and represent maximum concentrations observed in any core depth.



Path: Q:\OS Group\190003.00\GIS\mxd\FIG13_REMEDIAL_ACTION_C.mxd Date: 10/1/2020



- 3. Surficial lead samples and sediment core lead samples were taken as part of the UWL Monitoring
- and Assessment of Legacy Lead Contamination in the La Crosse River Marsh report in 2011.
- 4. Raster created using Arcmap 10.6 natural neighbor, 10ft grid cells.
- 5. Sediment tPAH sampling (2/16/17-2/18/17) and geoprobe borings (11/7/16) were completed as part of the Site investigation by The OS Group.
- 6. tPAH contours are approximate and represent maximum concentratrion



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LA CROSSE RIVER MARSH

REMEDIAL ACTION OPTIONS REPORT

LA CROSSE, WI

Checked By: TSW

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Drawn By: JRS6