

Work Task C59: Selenium Monitoring in Created Backwater and Marsh Habitat

FY12 Estimate	FY12 Actual Obligations	Cumulative Expenditures Through FY12	FY13 Approved Estimate	FY14 Proposed Estimate	FY15 Proposed Estimate	FY16 Proposed Estimate
\$0	\$0	\$0	\$250,000	\$250,000	\$250,000	\$0

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Start Date: FY13

Expected Duration: FY15

Long-term Goal: To develop a long-term selenium monitoring plan for the LCR MSCP.

Conservation Measures: MRM2 MRM5 (BONY, RASU, CLRA, BLRA).

Location: Created backwater and marsh land cover types within the LCR MSCP planning area.

Purpose: Monitor selenium levels in created backwater and marsh land cover types and provide information necessary to adaptively manage these sites.

Connections with Other Work Tasks (past and future): Monitoring for selenium will be conducted for habitat created through Section E work tasks (E1, E9, E14, E15, E16, E25, E27, and E28), and will be incorporated into post-development monitoring tasks listed in Section F (F1, F3, F5, and F7).

Project Description: As described in the conservation measures, the LCR MSCP is developing 512 acres of marsh and 360 acres of backwaters as part of its habitat creation goals. These created habitats will be monitored over the term of the LCR MSCP to ensure that they maintain their function for all associated covered species. This study will evaluate selenium levels within these created habitats and be used to develop a long-term selenium monitoring plan as required by the Habitat Conservation Plan.

Previous Activities: N/A

FY12 Accomplishments: New start in FY13.

FY13 Activities: Sampling will be conducted at three LCR MSCP Conservation Areas containing backwater and/or marsh habitat with the goal of determining baseline selenium concentrations at each site. Conservation Areas designated for the first year of this study include the Big Bend Conservation Area (BBCA), Hart Mine Marsh (HMM), and the Imperial Ponds Conservation Area. Additional sites may be included in future

years for pre and/or post development sampling and monitoring as sites and funding become available. Specific work to be performed in FY13 includes conducting individual site evaluations to determine sampling locations, collecting water and sediment samples from each site, analyzing collected samples, comparing extant selenium levels to known thresholds for aquatic species, and providing an annual report detailing methods, results, and recommendations. Results from the first study year will be used to inform work conducted in subsequent years.

Proposed FY14 Activities: Sampling efforts will continue at designated project sites for the purpose of developing a larger data set on which management decisions can be based.

Pertinent Reports: Future annual reports will be posted to the LCR MSCP website upon completion of review.