

EXHIBIT K MONITORING REPORT REQUIREMENTS

Monitoring reports shall include at a minimum the following information to be deemed complete:

1. A Title page indicating the Bank name, (Umbrella Bank name if applicable), Bank name (if applicable), Bank phase (if applicable), monitoring year(s), any requested action (e.g. credit release, IRT review), Sponsor identification (name, address, phone number and email address), and Preparer identification (name, address, phone number and email address).
2. A vicinity map showing the Bank including a latitude and longitude to the entrance of the site.
3. An aerial photograph, taken the 3rd and 7th year following final grading (if allowed in accordance with national security provisions) during the growing season, depicting the completed phases as described in Exhibit J;
4. Beginning at Year 3, a detailed narrative discussing the objectives and functions of the Bank as described in the MWP (Exhibit E, Section II), and the degree to which the Bank meets those objectives and functions.
5. Specify all Performance Standards and all monitoring requirements that are in the MBI or MWP.
6. A detailed narrative summarizing the condition of the Bank and all regular maintenance and monitoring activities including any supplemental planting (description of where, what was planted, and date of planting) and date(s) of monitoring events;
7. A drawing based upon the as-built drawings of the Bank that depicts topography, and the location of wells, sampling plots, cross-sections, and permanent photo stations;
8. Provide a map, table, and narrative that identifies all Performance Standards and if each area/plot met or did not meet the required Performance Standards, how much area each plot represents, whether the plot met Performance Standards in past monitoring years;
9. A map and table depicting each Phase/area for which Credits have been released;
10. A corrective action plan, if necessary, which shall include any proposed actions or maintenance activities, a schedule, and a monitoring plan (e.g. the control of INU species, the repair of a damaged water control structure, the replacement of damaged, planted vegetation, etc.)
11. All submittals shall contain the following signed certification statement:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my

knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

12. A detailed resource documentation, tables summarizing attainment of performance standards, and a revised summary table of actual wetland and stream credits based on field measurements.

13. Financial Assurances Report (see Section 21) including status of funding for the Bank Operations and the Long Term Management Fund.

14. Any additional information required to adequately characterize site conditions and Bank operations (as needed).

15. For each plot in wetland and buffer preservation areas:

- a. Photographic documentation and discussion of visual observations including description or quantitative measure, if required, of INU species present.
- b. For the final monitoring report: Additional discussion comparing current conditions to those at Bank approval.

16. For each plot in buffer restoration/enhancement/reestablishment areas:

- a. Photographic documentation and discussion of visual observations
- b. Results of vegetation survey including per plot reporting of all species present (with corresponding estimate of actual percent cover/stem count, indicator status, native status, planted/volunteer category for each species),
- c. Estimate of percent cover of open water and bare ground,
- d. Percent cover of non-native or INU herbaceous species
- e. Count of all stems of tree and shrub species present (with corresponding indicator status, native status, planted/volunteer category common and scientific name of each species, , native/INU status)
- f. Count of all stems of INU species
- g. Species richness,
- h. survival rate of planted vegetation,
- i. Extrapolated stems of native tree species per acre using the information for each individual plot to extrapolate stems / acre within that plot area.
- j. Average height of stems of planted tree species or percent change in height since previous monitoring event
- k. Canopy cover, if applicable.

17. For each plot in wetland restoration/creation areas
 - a. Photographic documentation and discussion of visual observations
 - b. Results of hydrology measurements presented in table in hydrograph form, including depth of standing water and daily precipitation data for the monitoring period from _____ to _____ with a comparison to historical average precipitation;
 - c. Results of herbaceous vegetation monitoring (for planned herbaceous, shrub/scrub, or forested wetland areas) including:
 - i. identification all herbaceous species present (with corresponding estimate of percent cover, indicator status, native status, planted/volunteer category for each species, and indication of dominance)
 - ii. Determination of hydrophytic herbaceous vegetation dominance (using prevalence index and dominance ratio methods, e.g. "50:20 rule")
 - iii. Calculation of percent cover of non-native or INU herbaceous species
 - d. Results of woody vegetation monitoring (for planned shrub/scrub or forested wetland areas) including:
 - i. Identification all woody stems of species present (with corresponding indicator status, native status, planted/volunteer category, stem count)
 - ii. Extrapolated stems per acre of native tree species
 - iii. Extrapolated stems per acre of native shrub species
 - iv. Determination of hydrophytic tree/shrub vegetation (using prevalence index and dominance ratio methods, e.g. "50:20 rule")
 - v. Area of bare ground or open water
 - vi. Survival rate of planted tree/shrub vegetation,
 - vii. An estimate of natural revegetation,
 - viii. Stem count of non-native or INU tree species
 - ix. Percent cover of non-native or INU shrub species
 - x. Average height of woody stems of tree species in each sample plot or percent change in height since previous monitoring event
 - xi. Soils boring data (for wetland establishment areas)

18. For Stream preservation, enhancement, and restoration activities monitoring reports shall present yearly Performance Standards data in tabular and graphical format comparing as-built, current, and previous years monitoring data. Monitoring reports shall include a discussion of any deviation from as-built or previous year's data.

19. For Stream preservation, enhancement, and restoration activities stream gage data and documentation of any bankfull events, as recorded by the onsite stream gage(s) if required.

20. For the as-Built Report: An as-built report shall be submitted to the IRT within 60 days of completion of mitigation activities depicted in the MWP (Exhibit E). The report shall include comparisons of the design plan to the as-built plan, using the following report components:

- a) Plan view of the constructed/restored wetlands, streams, and adjacent buffers with location of all permanent sampling stations, photo stations, monitoring wells, instream and stream bank structures, and all permanent cross-section and profile locations;

- b) Photographs of the completed mitigation taken from permanent photo stations. Photos from each station must be grouped with corresponding photos from previous monitoring reports;
- c) Longitudinal stream profiles taken from permanent locations, and inlaid with and compared to design profiles;
- d) Cross-sections taken at permanent locations, and inlaid with and compared to design cross-sections.
- e) Pebble counts from each station that are grouped with corresponding pebble counts from previous monitoring reports
- f) Summary stream geomorphologic data presented in a side by side analysis for the design, reference, and as-built channels;
- g) Planting composition, locations, phases, and densities;
- h) Stream gage locations;
- j) Bank /phase boundaries
- h) AS-built elevations
- k) Revised credit breakdown in the same format as in Exhibit G.

Credit Release Table (Excel Spreadsheet Available)

In the columns for Year and Type of Release(s), please specify initial, construction, Year 1, etc. for all activities for which the Sponsor is requesting credit. The percentage of released mitigation credit for each activity is tracked in the right hand column. Each monitoring year, the release will be based off the amount of successful credits that are eligible to be released, not a multiplier of the two numbers as in previous credit release schedules.

<u>Mitigation Activity (Example)</u>	<u>Credit Total (for Bank)</u>	<u>(Year): (Type of Release(s) from Credit Release Schedule)</u>	<u>(Year): (Type of Release(s) from Credit Release Schedule)</u>	<u>(Year): (Type of Release(s) from Credit Release Schedule)</u>	<u>Percentage of Released Mitigation Credits by Activity</u>
<u>PHASE I</u>					
Restoration					
Enhancement					
Preservation					
Buffer Rest					
Buffer Enh					
Buffer Pres					
Adjustment Factors					
<u>PHASE II</u>					
Restoration					
Enhancement					
Preservation					
Buffer Rest					
Buffer Enh					
Buffer Pres					
Adjustment Factors					
<u>Total</u>		<i>(Should match RIBITS)</i>	<i>(Should match RIBITS)</i>	<i>(Should match RIBITS)</i>	