

MODEL REVIEW PLAN
Using the MVD Model Review Plan
for the
Environmental Management Program (EMP)
and
Referencing the EMP Programmatic Review Plan

*Pool 12 Overwintering Habitat Rehabilitation and Enhancement Project, Pool
12 Mississippi River Miles 563 – 573, Jo Daviess County, Illinois*

Rock Island District

MSC Approval Date: 8/27/2012
Last Revision Date: *None*



US Army Corps
of Engineers ®

**Review Plan
Using the MVD Model Review Plan**

**Pool 12 Overwintering Habitat Rehabilitation and Enhancement Project, Pool 12 Mississippi River
Miles 563 – 573, Jo Daviess County, Illinois**

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1. Purpose and Requirements

a. Purpose

This Review Plan defines the scope and level of peer review for the *Pool 12 Overwintering Habitat Rehabilitation and Enhancement Project, Pool 12 Mississippi River Miles 563 – 573, Jo Daviess County, Illinois*. *Products included for review are an environmental and cultural assessment; plan formulation; cost estimate; incremental cost analysis; hydraulic and hydrologic analysis; geotechnical analysis; real estate plan; and drawings and specifications. This Review Plan is for decision documents, the Definite Project Report (DPR), and implementation documents, Plans and Specifications (P&S).*

The decision document to be reviewed is a Definite Project Report entitled Upper Mississippi River System Environmental Management Program Definite Project Report with Integrated Environmental Assessment (R-19PR) for the Pool 12 Overwintering Habitat Rehabilitation and Enhancement Project. The purpose of this report is to present a detailed proposal for the rehabilitation and enhancement of Upper Mississippi River (UMR) backwater habitat areas of Pool 12. The report provides planning, engineering, and sufficient construction details of the recommended plan to allow final design and construction to proceed subsequent to approval of the document. The P&S will provide details on the implementation of the recommended plan.

The Environmental Management Program (EMP) study and construction authority is contained in the EMP Programmatic Review Plan (EMP PRP), Section IV.

b. Applicability

This review plan is based on the MVD Model Review Plan, which is applicable to projects that do not require Independent External Peer Review (IEPR), as defined by the mandatory Type I IEPR triggers contained in EC 1165-2-209, Civil Works Review Policy.

The applicability regarding the EMP is contained in the EMP PRP, Section II.

c. References

Reference materials are shown in the EMP PRP.

2. Review Management Organization (RMO) Coordination

RMO coordination will be in accordance with the EMP PRP, Sections I, III, VI, and VIII. *The RMO for ATR will be MVD in lieu of the ECO-PCX. The PCX will continue to serve in its advisory role.*

3. Project Information

a. Decision and/or Implementation document.

The *Pool 12 Overwintering Habitat Rehabilitation and Enhancement Project, Pool 12 Mississippi River Miles 563 – 573, Jo Daviess County, Illinois* decision document will be prepared in accordance with ER 1105-2-100, Appendix F, Amendment #2. The approval level of the decision document (if policy compliant) is MVD. An Environmental Assessment (EA) will be prepared along with the decision

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document. An implementation document (P&S) will also be prepared for implementation of the project and will undergo DQC and ATR review.

b. Study/Project Description

The Pool 12 Overwintering Project area is located in the middle to lower half of Pool 12 on the Mississippi River, upstream of Bellevue, Iowa and in Jo Daviess County, Illinois between River miles 563 and 573 on the Mississippi River. All project lands are in Federal ownership and are managed by the U.S. Fish and Wildlife Service (USFWS) as part of the Upper Mississippi River National Wildlife and Fish Refuge. The Illinois Department of Natural Resources (IL DNR) and Iowa Department of Natural Resources (IA DNR) are project proponents and, as such, have representation on the PDT.

Sedimentation in the project area has negatively affected fish and wildlife habitat by decreasing depth in the project area and therefore negatively affecting the amount of overwintering fish habitat. The floodplain forest has declined into a mono-typical stand of even-aged silver maple and cottonwood with little species diversity. Mast-producing trees, which provide an important food source for wildlife, are limited and there is no natural regeneration. The lack of age and species diversity would continue to negatively impact birds and other wildlife.

The primary objective of the Pool 12 Overwintering project is to improve both aquatic backwater overwintering habitat and floodplain forest habitat. The expected ecological outcomes of the project include an increase in bottomland forest quality and diversity and an increase in backwater habitat quality and quantity. The preliminary estimated total project cost is \$13 million. Channels would be excavated in the backwater areas to create deep-water and year-round habitat for fish by mechanical dredging. Berms would be constructed with the dredged material to deflect sediment from depositing in the excavated channels.

c. Factors Affecting the Scope and level of Review

The factors affecting the scope and level of review are discussed in the EMP PRP, Section V.

d. In-Kind Contributions

Products and analyses provided by non-Federal sponsors as in-kind services are subject to District Quality Control (DQC) and ATR, similar to any products developed by USACE. No in-kind products are anticipated.

4. District Quality Control (DQC)

District Quality Control (DQC) will be conducted in accordance with the EMP PRP, Section III.A.

5. Agency Technical Review (ATR)

The Agency Technical Review (ATR) will be conducted in accordance with the EMP PRP, Section III.B and VI.C.

6. Policy And Legal Compliance Review

The Policy and Legal Compliance Reviews will be conducted in accordance with the EMP PRP,

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Section III.D.

7. Cost Engineering Directory of Expertise (DX) Review And Certification

Cost Engineering Directory of Expertise (DX) Review and Certification will be conducted in accordance with the EMP PRP, Section VIII.D.

8. Model Certification And Approval

Approval of planning and engineering models used in EMP projects will be in accordance with the EMP PRP, Section III.E, and Section VII.

Table 1. Planning Models That May Be Used in the Development of Pool 12 Overwintering Project

<u>Model Name and Version</u>	<u>Brief Description of the Model and How It Will Be Applied in the Study</u>	<u>Certification / Approval Status</u>
<u>IWR-Plan</u>	<u>The IWR-Plan was developed by Institute of Water Resources as accounting software to compare habitat benefits among alternatives.</u> <u>This model will be used to determine best buy plans and incremental cost analysis of alternatives</u>	<u>Certified</u>
<u>USFWS Habitat Suitability Index Models for other species (HEP or Bluebooks)</u>	<u>Habitat Evaluation Procedure (HEP) is a species-habitat approach to impact assessment and habitat quality for selected evaluation species document with an index, the Habitat Stability Index (HIS). This value is derived from an evaluation of the ability of key habitat components to compare existing habitat conditions and optimum habitat conditions for the species of interest. There are currently 166 models for invertebrates, fish, amphibians, reptiles, birds, mammals, and communities. The representative fish species model chosen for this project is Bluegill.</u>	<u>Approved, pending certification of spreadsheets or other accounting software</u>

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**Table 2. Engineering Models That May Be Used in the Development of Pool 12
Overwintering Project**

<u>Model Name and Version</u>	<u>Brief Description of the Model and How It Will Be Applied in the Study</u>
<u>RMA2 using SMS</u>	<u>The primary tool used in evaluating alternatives was the Surface Water Modeling System (SMS). SMS is a pre- and post-processor for building grids, viewing solutions, and many other specialized tasks. It is the interface for the TABS suite of surface water numerical modeling programs. The TABS numerical modeling system is a collection of computer programs designed for studying multi-dimensional hydrodynamics in rivers, reservoirs, bays, and estuaries. These models can be used to study project impacts on flows, sedimentation, constituent transport, and salinity. The primary outputs of this model include velocity magnitude, velocity direction, and depth.</u>

9. Review Schedules And Costs

<u>Event</u>	<u>Kick-off</u>	<u>Reviewer Comments End</u>	<u>PDT Evaluation</u>	<u>Back Check</u>	<u>Complete</u>
<u>Pre Final DPR ATR</u>	<u>08/20/12</u>	<u>08/31/12</u>	<u>09/14/12</u>	<u>09/17/12</u>	<u>09/21/12</u>
<u>P&S ATR</u>	<u>03/18/13</u>	<u>03/29/13</u>	<u>04/1/13</u>	<u>04/08/13</u>	<u>03/12/13</u>

(1) ATR Estimated Cost

<u>Reviewer</u>	<u>ATR Feasibility</u>	<u>ATR P&S</u>	<u>Cost</u>
<u>ATR Lead (AFB review included)</u>	<u>\$3,000</u>	<u>\$2,000</u>	<u>\$5,000</u>
<u>Planner</u>	<u>\$3,000</u>		<u>\$3,000</u>
<u>Environmental Engineer</u>	<u>\$3,000</u>	<u>\$2,000</u>	<u>\$5,000</u>
<u>Environmental Specialist</u>	<u>\$3,000</u>	<u>\$2,000</u>	<u>\$5,000</u>
<u>Real Estate</u>	<u>\$3,000</u>	<u>\$2,000</u>	<u>\$5,000</u>
<u>Cost Estimator (Staffed by Walla-Walla)</u>	<u>\$3,000</u>	<u>\$1,000</u>	<u>\$4,000</u>
<u>Geotech</u>	<u>\$3,000</u>	<u>\$2,000</u>	<u>\$5,000</u>
<u>H&H</u>	<u>\$3,000</u>	<u>\$3,000</u>	<u>\$6,000</u>
<u>TOTAL</u>	<u>\$24,000</u>	<u>\$14,000</u>	<u>\$38,000</u>

10. Public Participation

Public review will be in accordance with the EMP PRP, Section VI.F

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11. Review Plan Approval And Updates

The Review Plan approval process will be in accordance with the EMP PRP, Section VIII.B.

12. Review Plan Points Of Contact

Public questions and/or comments on this review plan can be directed to the following points of contact:

- *Darron Niles, Rock Island District Plan Formulator, (309) 794-5400 – MVP*
- *Ellen Milliron, Rock Island District Plan Formulator, (309) 794-5256 – MVP*
- *William Gabe Harris, Rock Island District Support Team Program Manager, (601)634-5926 – MVD*

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Attachment 1: Team Rosters

PRODUCT DELIVERY TEAM ROSTER - 2012

<u>Name</u>	<u>Title</u>	<u>Contact Information</u>
<u>Sharonne Baylor</u>	<u>Sponsor- USFWS</u>	<u>319-523-6982</u>
<u>Amber Andress</u>	<u>Sponsor - USFWS</u>	<u>309-757-5800 x222</u>
<u>Mike Griffin</u>	<u>Proponent - IA DNR</u>	<u>563-872-5700</u>
<u>Dan Sallee</u>	<u>Proponent – IL DNR</u>	<u>Dan.Sallee@illinois.gov</u>
<u>Marv Hubbell</u>	<u>Regional Program Manager</u>	<u>Marvin.E.Hubbell@usace.army.mil</u>
<u>Steve Rumble</u>	<u>Program Manager</u>	<u>Stephen.T.Rumble@usace.army.mil</u>
<u>Ellen Milliron</u>	<u>Plan Formulator</u>	<u>Ellen.S.Milliron@usace.army.mil</u>
<u>Darron Niles</u>	<u>Plan Formulator</u>	<u>Darron.L.Niles@usace.army.mil</u>
<u>Heather Anderson</u>	<u>Senior Project Engineer</u>	<u>Heather.L.Anderson@usace.army.mil</u>
<u>Julie Millhollin</u>	<u>Project Engineer</u>	<u>Julie.L.Milhollin@usace.army.mil</u>
<u>Laura St. Louis</u>	<u>Environmental Engineer</u>	<u>Laura.R.St.Louis@usace.army.mil</u>
<u>Thomas Kirkeeng</u>	<u>Hydraulic & Hydrologic Engineer</u>	<u>Thomas.A.Kirkeeng@usace.army.mil</u>
<u>Randall Kinney</u>	<u>Geotechnical Engineer</u>	<u>Randall.S.Kinney@usace.army.mil</u>
<u>Chris Depooter</u>	<u>Cost Engineer</u>	<u>Christopher.J.Depooter@usace.army.mil</u>
<u>Garrett Mattila</u>	<u>Cost Engineer</u>	<u>Garrett.P.Mattila@usace.army.mil</u>
<u>Charlene Carmack</u>	<u>NEPA Compliance Specialist</u>	<u>Charlene.Carmack@usace.army.mil</u>
<u>Jim Ross</u>	<u>Supervisory Archeologist</u>	<u>James.S.Ross@usace.army.mil</u>
<u>Debra VanOpdorp</u>	<u>Real Estate Specialist</u>	<u>Debra.J.VanOpdorp@usace.army.mil</u>
<u>Barbara Lester</u>	<u>Supervisory Civil Engineer</u>	<u>Barbara.L.Lester@usace.army.mil</u>
<u>Scott Kool</u>	<u>Supervisory Survey Engineer</u>	<u>Scott.D.Kool@usace.army.mil</u>
<u>Rian Hancks</u>	<u>District Counsel</u>	<u>Rian.W.Hancks@usace.army.mil</u>
<u>LaShell Harper</u>	<u>Lead Technician</u>	<u>LaShell.L.Harper@usace.army.mil</u>
<u>Emily Johnson</u>	<u>Support Technician</u>	<u>Emily.J.Johnson@usace.army.mil</u>
<u>Donna Jones</u>	<u>Regulatory</u>	<u>Donna.M.Jones@usace.army.mil</u>

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DISTRICT QUALITY CONTROL ROSTER - 2012

<u>Name</u>	<u>Title</u>	<u>Email</u>
<u>Camie Knollenberg</u>	<u>Senior Plan Formulator</u>	<u>Camie.A.Knollenberg@usace.army.mil</u>
<u>Ken Barr</u>	<u>Senior Environmental Specialist</u>	<u>Kenneth.A.Barr@usace.army.mil</u>
<u>Mark Cornish</u>	<u>Senior Cultural Resource Specialist</u>	<u>Mark.A.Cornish@usace.army.mil</u>
<u>Kara Mitvalsky</u>	<u>Environmental Engineer</u>	<u>Kara.N.Mitvalsky@usace.army.mil</u>
<u>Lucie Sawyer</u>	<u>H&H Engineer</u>	<u>Lucie.M.Sawyer@usace.army.mil</u>
<u>Jack McDaniel</u>	<u>Cost Estimator</u>	<u>Jack.McDaniel@usace.army.mil</u>
<u>Stuart Jackson</u>	<u>Chief of Real Estate</u>	<u>Stuart.P.Jackson@usace.army.mil</u>

AGENCY TECHNICAL REVIEW ROSTER - 2012

<u>Name</u>	<u>Title</u>	<u>Email</u>
<u>Marc Masnor (SWT)</u>	<u>ATR Lead</u>	<u>Marc.L.Masnor@usace.army.mil</u>
<u>TBD</u>	<u>Senior Plan Formulator</u>	<u>TBD</u>
<u>TBD</u>	<u>Senior Environmental Specialist</u>	<u>TBD</u>
<u>TBD</u>	<u>Senior Environmental Engineer</u>	<u>TBD</u>
<u>TBD</u>	<u>Senior H&H Engineer</u>	<u>TBD</u>
<u>TBD</u>	<u>Senior Geotechnical Engineer</u>	<u>TBD</u>
<u>TBD</u>	<u>Senior Cost Estimator</u>	<u>TBD</u>
<u>TBD</u>	<u>Senior Real Estate Specialist</u>	<u>TBD</u>

MAJOR SUBORDINATE COMMAND ROSTER - 2012

<u>Name</u>	<u>Title</u>	<u>Email</u>
<u>William G. Harris, MVD</u>	<u>DST Program Manager</u>	<u>William.G.Harris@usace.army.mil</u>
<u>Renee Turner, MVD</u>	<u>DST Deputy Chief</u>	<u>Renee.N.Turner@usace.army.mil</u>

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Attachment 2: Review Plan Revisions

Revision Date	Description of Change	Page/Paragraph Number

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ATTACHMENT 3: EMP Review Plan Checklist

MVD EMP Review Plan Checklist

Date:	July 2 nd , 2012
Originating District:	Rock Island District
Project/Study Title:	Pool 12 Overwintering Habitat Rehabilitation and Enhancement Project
P2# and AMSCO#:	P2# 117467 AMSCO# 076150
District POC:	Darron Niles, Plan Formulator (309) 794-5400
PCX Reviewer:	

Please fill out this checklist and submit with the draft Review Plan when coordinating with the MSC. Any evaluation boxes checked “No” may indicate the project may not be able to use the MVD Model Review Plan. Further explanation may be needed or a project specific review plan may be required. Additional coordination and issue resolution may be required prior to MSC approval of the Review Plan. Checklist may be limited to Section I or Section II or Both, depending on content of review plan (or subsequent amendments).

Section I - Decision Documents

REQUIREMENT	EVALUATION
1. Is the Review Plan (RP) for an EMP Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does it include a cover page identifying it as following the Model RP and listing the project/study title, originating district or office, and date of the plan?	a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
b. Does it include a table of contents?	b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
c. Is the purpose of the RP clearly stated?	c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
d. Does it reference the Project Management Plan (PMP) of which the RP is a component?	d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
e. Does it succinctly describe the levels of review: District Quality Control (DQC), and Agency Technical Review (ATR)?	e. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
f. Does it include a paragraph stating the title, subject, and purpose of the decision document to be reviewed?	f. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
g. Does it list the names and disciplines of the Project Delivery Team (PDT)?*	g. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
*Note: It is highly recommended to put all team member names and contact information in an appendix for easy updating as team members change or the RP is updated.	
Comments:	

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<p>2. Is the RP detailed enough to assess the necessary level and focus of the reviews?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>3. Does the RP define the appropriate level of review for the project/study?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it state that DQC will be managed by the home district in accordance with the MVD and district Quality Management Plans?</p> <p>b. Does it state that ATR will be managed by MVD?</p> <p>Comments:</p>	<p>a. Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>4. Does the RP explain how ATR will be accomplished?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it identify the anticipated number of reviewers?</p> <p>b. Does it provide a succinct description of the primary disciplines or expertise needed for the review (not simply a list of disciplines)?</p> <p>c. Does it indicate that ATR team members will be from outside the home district?</p> <p>d. Does it indicate where the ATR team leader will be from?</p> <p>e. If the reviewers are listed by name, does the RP describe the qualifications and years of relevant experience of the ATR team members?*</p> <p><i>*Note: It is highly recommended to put all team member names and contact information in an appendix for easy updating as team members change or the RP is updated.</i></p> <p>Comments: Answer to question e. is N/A since the names of the ATR team members are not listed.</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>e. Yes <input type="checkbox"/> No <input type="checkbox"/></p>
<p>5. Does the RP address review of sponsor in-kind contributions?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>6. Does the RP address how the review will be documented?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does the RP address the requirement to document ATR comments using Dr Checks?</p> <p>Comments:</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>7. Does the RP address Policy Compliance and Legal Review?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>8. Does the RP present the tasks, timing and sequence (including deferrals), and costs of reviews?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>a. Does it provide a schedule for ATR including review of the Alternative Formulation Briefing (AFB) materials and final report?</p> <p>b. Does it include cost estimates for the reviews?</p>	<p>a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>

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<p>9. Does the RP indicate the study will address Safety Assurance factors? Factors to be considered include:</p> <ul style="list-style-type: none">● Where failure leads to significant threat to human life● Novel methods\complexity\ precedent-setting models\policy changing conclusions● Innovative materials or techniques● Design lacks redundancy, resiliency of robustness● Unique construction sequence or acquisition plans● Reduced\overlapping design construction schedule	<p>Yes <input type="checkbox"/> No <input type="checkbox"/> n/a <input checked="" type="checkbox"/></p> <p>Comments:</p>
<p>10. Does the RP address opportunities for public participation?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>11. Does the RP indicate ATR of cost estimates will be conducted by pre-certified district cost personnel who will coordinate with the Walla Walla Cost DX?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>12. Has the approval memorandum been prepared and does it accompany the RP?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>

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Section II - Implementation Documents

Please fill out this checklist and submit with the draft Review Plan or subsequent Review Plan amendments when coordinating with the MSC. For DQC, the District is the RMO; for ATR and Type II IEPR, MVD is the RMO. Any evaluation boxes checked “No” indicate the RP possibly may not comply with MVD Model Review Plan and should be explained. Additional coordination and issue resolution may be required prior to MVD approval of the Review Plan.

REQUIREMENT	EVALUATION
1. Are the implementation documents/products described in the review or subsequent amendments?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. Does the RP contain documentation of risk-informed decisions on which levels of review are appropriate?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
3. Does the RP present the tasks, timing, and sequence of the reviews (including deferrals)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does it provide an overall review schedule that shows timing and sequence of all reviews?	a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
b. Does the review plan establish a milestone schedule aligned with the critical features of the project design and construction?	b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
4. Does the RP address engineering model review requirements?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does it list the models and data anticipated to be used in developing recommendations?	a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
b. Does the RP identify any areas of risk and uncertainty associated with the use of the proposed models?	b. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
c. Does it indicate the certification/approval status of those models and if review of any model(s) will be needed?	c. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
d. If needed, does the RP propose the appropriate level of review for the model(s) and how it will be accomplished?	d. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
5. Does the RP explain how and when there will be opportunities for the public to comment on the study or project to be reviewed?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
6. Does the RP address expected in-kind contributions to be provided by the sponsor?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
If expected in-kind contributions are to be provided by the sponsor, does the RP list the expected in-kind contributions to be provided by the sponsor?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

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7. Does the RP explain how the reviews will be documented?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
a. Does the RP address the requirement to document ATR comments using Dr Checks published comments and responses pertaining to the design and construction activities summarized in a report reviewed and approved by the MSC and posted on the home district website?	a. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
8. Has the approval memorandum been prepared and does it accompany the RP?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

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**ATTACHMENT 4: STATEMENT OF TECHNICAL REVIEW FOR DECISION &
IMPLEMENTATION DOCUMENTS**

COMPLETION OF AGENCY TECHNICAL REVIEW

The Agency Technical Review (ATR) has been completed for the *Project Fact-Sheet, Environmental Assessment, Preliminary Design Documents, and Cost Estimate* for *Pool 12 Overwintering Habitat Rehabilitation and Enhancement Project* ATR was conducted as defined in the project’s Review Plan to comply with the requirements of EC 1165-2-209. During the ATR, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of: assumptions, methods, procedures, and material used in analyses, alternatives evaluated, the appropriateness of data used and level obtained, and reasonableness of the results, including whether the product meets the customer’s needs consistent with law and existing US Army Corps of Engineers policy. The ATR also assessed the District Quality Control (DQC) documentation and made the determination that the DQC activities employed appear to be appropriate and effective. All comments resulting from the ATR have been resolved and the comments have been closed in DrCheckssm.

Marc Masnor
ATR Team Leader
CESWT

Date

Ellen Milliron
Project Manager
CEMVR

Date

CERTIFICATION OF AGENCY TECHNICAL REVIEW

Significant concerns and the explanation of the resolution are as follows: *As stated in the Agency Technical Review Report dated 26 September 2012.*

As noted above, all concerns resulting from the ATR of the project have been fully resolved.

NAME
Chief, Engineering Division
CEXXX

Date

NAME
Chief, Planning Division
CEXXX

Date