**MODEL REMEDIAL DESIGN/REMEDIAL ACTION**

**STATEMENT OF WORK**

**[OPERABLE UNIT \_\_]**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SUPERFUND SITE**

**\_\_\_\_\_\_\_\_\_ City, \_\_\_\_\_\_\_\_\_ County, State of \_\_\_\_\_\_\_\_\_**

**EPA Region \_\_\_**

**(For Use with Model RD/RA UAO)**

**December 2017**

This model, the guidance documents referenced herein, and any internal procedures adopted for its implementation and use are intended solely as guidance for employees of the U. S. Environmental Protection Agency. They do not constitute rulemaking by the Agency and may not be relied upon to create a right or benefit, substantive or procedural, enforceable at law or in equity, by any person. The Agency may take action at variance with this model, the guidance documents referenced herein, or its internal procedures.

**TABLE OF CONTENTS**

1. INTRODUCTION 1

2. COMMUNITY INVOLVEMENT 2

3. REMEDIAL DESIGN 3

4. REMEDIAL ACTION 6

5. CONTINGENCY REMEDY 13

6. REPORTING 13

7. DELIVERABLES 14

8. SCHEDULES 22

9. STATE PARTICIPATION 23

10. REFERENCES 24

NOTE: This document uses styles to make editing easier. Please do not try to format any paragraphs manually. Instead, use the tailor-made “quick style” buttons. They are accessible from the “Home” tab. There is a quick style for each of the six numbered levels, and they are “LVL 1” through “LVL 6.” All section headings, which have “LVL 1” formatting, will appear in the Table of Contents (TOC). Do not manually renumber any internal cross references, as they are all automatic. Use the “Update Field” command instead [Ctrl-A, right click, “Update Field,” OK]. Cross references to the Order are bracketed and in bold in the text as they must be manually updated. There are additional editing instructions at the end.

1. INTRODUCTION
   1. **Purpose of the SOW**. This Statement of Work (SOW) sets forth the procedures and requirements for implementing the Work.
   2. **Structure of the SOW**

* Section 2 (Community Involvement) sets forth EPA’s and Respondents’ responsibilities for community involvement.
* Section 3 (Remedial Design) sets forth the process for developing the RD, which includes the submission of specified primary deliverables.
* Section 4 (Remedial Action) sets forth requirements regarding the completion of the RA, including primary deliverables related to completion of the RA.
* Section 5 (Contingency Remedy) sets forth Respondents’ obligations regarding implementation of contingency remedies.
* Section 6 (Reporting) sets forth Respondents’ reporting obligations.
* Section 7 (Deliverables) describes the content of the supporting deliverables and the general requirements regarding Respondents’ submission of, and EPA’s review of, approval of, comment on, and/or modification of, the deliverables.
* Section 8 (Schedules) sets forth the schedule for submitting the primary deliverables, specifies the supporting deliverables that must accompany each primary deliverable, and sets forth the schedule of milestones regarding the completion of the RA.
* Section 9 (State Participation) addresses State participation.
* Section 10 (References) provides a list of references, including URLs.

NOTE: Insert description of remedy from ROD (and any ROD amendments or ESD) in ¶ 1.3, including any contingency remedies. Paragraph [33.a] of the Model RDRA UAO (Modification of SOW or Deliverables) defines the “Scope of the Remedy” by reference to ¶ 1.3.

* 1. The Scope of the Remedy includes the actions described in Section \_\_ of the ROD, including \_\_\_\_\_\_.
  2. The terms used in this SOW that are defined in CERCLA, in regulations promulgated under CERCLA, or in the Order, have the meanings assigned to them in CERCLA, in such regulations, or in the Order, except that the term “Paragraph” or “¶” means a paragraph of the SOW, and the term “Section” means a section of the SOW, unless otherwise stated.

1. COMMUNITY INVOLVEMENT
   1. **Community Involvement Responsibilities**
      1. EPA has the lead responsibility for developing and implementing community involvement activities at the Site. Previously [during the RI/FS phase], EPA developed a Community Involvement Plan (CIP) for the Site. Pursuant to 40 C.F.R. § 300.435(c), EPA shall review the existing CIP and determine whether it should be revised to describe further public involvement activities during the Work that are not already addressed or provided for in the existing CIP [, including, if applicable, [any Technical Assistance Grant (TAG), and/or any use of the Technical Assistance Services for Communities (TASC) contract]].
      2. If requested by EPA, Respondents shall participate in community involvement activities, including participation in (1) the preparation of information regarding the Work for dissemination to the public, with consideration given to including mass media and/or Internet notification, and (2) public meetings that may be held or sponsored by EPA to explain activities at or relating to the Site. Respondents’ support of EPA’s community involvement activities may include providing online access to initial submissions and updates of deliverables to (1) any Community Advisory Groups, (2) any Technical Assistance Grant recipients and their advisors, and (3) other entities to provide them with a reasonable opportunity for review and comment. EPA may describe in its CIP Respondents’ responsibilities for community involvement activities. All community involvement activities conducted by Respondents at EPA’s request are subject to EPA’s oversight. Upon EPA’s request, Respondents shall establish a community information repository at or near the Site to house one copy of the administrative record.
      3. **Respondents’ CI Coordinator**. If requested by EPA, Respondents shall, within [15] days, designate and notify EPA of Respondents’ Community Involvement Coordinator (Respondents’ CI Coordinator). Respondents may hire a contractor for this purpose. Respondents’ notice must include the name, title, and qualifications of the Respondents’ CI Coordinator. Respondents’ CI Coordinator is responsible for providing support regarding EPA’s community involvement activities, including coordinating with EPA’s CI Coordinator regarding responses to the public’s inquiries about the Site.

NOTE: In the next section and throughout this SOW, the deadlines for performing a task or submitting a deliverable have been intentionally omitted. In lieu of including such deadlines (and even cross references to the Schedules), ¶ 8.1 provides that “all deliverables and tasks required under this SOW must be submitted or completed by the deadlines or within the time durations listed in the RD and RA Schedules.” To simplify editing of the SOW, and to simplify executing subsequent modifications to SOW deadlines, it is intended that all deadlines be in a central location, i.e., in Section 8 (Schedules). Therefore, the SOW should *not* be edited to include, in each paragraph that describes a deliverable or task, either the deadline for such deliverable or task, or even a cross reference to the Schedule that contains such deadline.

1. REMEDIAL DESIGN
   1. **RD Work Plan**. Respondents shall submit a Remedial Design (RD) Work Plan (RDWP) for EPA approval. The RDWP must include:
      1. Plans for implementing all RD activities identified in this SOW, in the RDWP, or required by EPA to be conducted to develop the RD;
      2. A description of the overall management strategy for performing the RD, including a proposal for phasing of design and construction, if applicable;
      3. A description of the proposed general approach to contracting, construction, operation, maintenance, and monitoring of the Remedial Action (RA) as necessary to implement the Work;
      4. A description of the responsibility and authority of all organizations and key personnel involved with the development of the RD;
      5. Descriptions of any areas requiring clarification and/or anticipated problems (e.g., data gaps);
      6. [Description of any proposed pre-design investigation;]
      7. [Description of any proposed treatability study;]
      8. Descriptions of any applicable permitting requirements and other regulatory requirements;
      9. Description of plans for obtaining access in connection with the Work, such as property acquisition, property leases, and/or easements; and
      10. The following supporting deliverables described in ¶ 7.7 (Supporting Deliverables): Health and Safety Plan; and Emergency Response Plan. [**NOTE: If the SOW includes ¶ 3.3 (Pre-Design Investigation), also include Field Sampling Plan and Quality Assurance Project Plan.**]
   2. Respondents shall meet regularly with EPA to discuss design issues as necessary, as directed or determined by EPA.

NOTE: The SOW describes many deliverables that are to be submitted to EPA. Some are to be submitted “for EPA approval,” some “for EPA comment,” and some are to be simply submitted without either EPA approval or comment. The model SOW includes careful selections of those deliverables that are to be submitted for “approval,” those that are to be submitted for “comment,” and those that are to be submitted without the need for “comment” or “approval.”

NOTE: The SOW includes numerous EPA obligations (such as approvals and notices) that must be completed in a timely manner for the remedial process to proceed efficiently and on schedule. Some of these are items that the Respondents require to proceed with the next step of the remedial process.

NOTE: The Pre-Design Investigation (PDI) may not be needed if sufficient data were gathered during the RI/FS. The PDI is only needed when additional field investigations are necessary to address data gaps.

* 1. **Pre-Design Investigation**. The purpose of the Pre-Design Investigation (PDI) is to address data gaps by conducting additional field investigations.
     1. **PDI Work Plan**. [If EPA requests,] Respondents shall submit a PDI Work Plan (PDIWP) for EPA approval. The PDIWP must include:
        1. An evaluation and summary of existing data and description of data gaps;
        2. A sampling plan including media to be sampled, contaminants or parameters for which sampling will be conducted, location (areal extent and depths), and number of samples; and
        3. Cross references to quality assurance/quality control (QA/QC) requirements set forth in the Quality Assurance Project Plan (QAPP) as described in ¶ 7.7(d).
     2. Following the PDI, Respondents shall submit a PDI Evaluation Report. This report must include:
        1. Summary of the investigations performed;
        2. Summary of investigation results;
        3. Summary of validated data (i.e., tables and graphics);
        4. Data validation reports and laboratory data reports;
        5. Narrative interpretation of data and results;
        6. Results of statistical and modeling analyses;
        7. Photographs documenting the work conducted; and
        8. Conclusions and recommendations for RD, including design parameters and criteria.
     3. EPA may require Respondents to supplement the PDI Evaluation Report and/or to perform additional pre-design studies.

NOTE: Depending on the type of remedy selected, a Treatability Study (TS) may be needed during RD. Remedies involving the use of proven technologies may not need a TS. Review the guidance referenced in ¶ 3.4(b) for information about whether a TS is appropriate in a given case.

* 1. **Treatability Study**
     1. Respondents shall perform a Treatability Study (TS) for the purpose of \_\_\_\_\_\_.
     2. Respondents shall submit a TS Work Plan (TSWP) for EPA approval. Respondents shall prepare the TSWP in accordance with EPA’s *Guide for Conducting Treatability Studies under CERCLA, Final* (Oct. 1992), as supplemented for RD by the *Remedial Design/Remedial Action Handbook*, EPA 540/R-95/059 (June 1995).
     3. Following completion of the TS, Respondents shall submit a TS Evaluation Report for EPA comment.
     4. EPA may require Respondents to supplement the TS Evaluation Report and/or to perform additional treatability studies.
  2. **Preliminary (30%) RD**. Respondents shall submit a Preliminary (30%) RD for EPA’s comment. The Preliminary RD must include:
     1. A design criteria report, as described in the *Remedial Design/Remedial Action Handbook*, EPA 540/R-95/059 (June 1995);
     2. Preliminary drawings and specifications;
     3. Descriptions of permit requirements, if applicable;
     4. Preliminary Operation and Maintenance (O&M) Plan and O&M Manual;
     5. A description of how the RA will be implemented in a manner that minimizes environmental impacts in accordance with EPA’s *Principles for Greener Cleanups* (Aug. 2009);
     6. A description of monitoring and control measures to protect human health and the environment, such as air monitoring and dust suppression, during the RA;
     7. Any proposed revisions to the RA Schedule that is set forth in ¶ 8.3 (RA Schedule); and
     8. Updates of all supporting deliverables required to accompany the RDWP and the following additional supporting deliverables described in ¶ 7.7 (Supporting Deliverables): [**delete if submitted with RDWP:** Field Sampling Plan; Quality Assurance Project Plan;] Site Wide Monitoring Plan; Construction Quality Assurance/Quality Control Plan; Transportation and Off-Site Disposal Plan; O&M Plan; O&M Manual; and Institutional Controls Implementation and Assurance Plan.

NOTE: The Intermediate (60%) RD may not be needed for a less complex project.

* 1. **Intermediate (60%) RD**. Respondents shall submit the Intermediate (60%) RD for EPA’s comment. The Intermediate RD must: (a) be a continuation and expansion of the Preliminary RD; (b) address EPA’s comments regarding the Preliminary RD; and (c) include the same elements as are required for the Preliminary (30%) RD.
  2. **Pre-Final (95%) RD**. Respondents shall submit the Pre-final (95%) RD for EPA’s comment. The Pre-final RD must be a continuation and expansion of the previous design submittal and must address EPA’s comments regarding the Intermediate RD. The Pre-final RD will serve as the approved Final (100%) RD if EPA approves the Pre-final RD without comments. The Pre-final RD must include:
     1. A complete set of construction drawings and specifications that are: (1) certified by a registered professional engineer; (2) suitable for procurement; and (3) follow the Construction Specifications Institute’s MasterFormat [**specify current edition, See https://www.csiresources.org/home**];
     2. A survey and engineering drawings showing existing Site features, such as elements, property borders, easements, and Site conditions;
     3. Pre-Final versions of the same elements and deliverables as are required for the [Preliminary/Intermediate] RD;
     4. A specification for photographic documentation of the RA; and
     5. Updates of all supporting deliverables required to accompany the Preliminary (30%) RD.
  3. **Final (100%) RD**. Respondents shall submit the Final (100%) RD for EPA approval. The Final RD must address EPA’s comments on the Pre-final RD and must include final versions of all Pre-final RD deliverables.

1. REMEDIAL ACTION
   1. **RA Work Plan**. Respondents shall submit a RA Work Plan (RAWP) for EPA approval that includes:
      1. A proposed RA Construction Schedule [specify desired format, such as critical path method, Gantt chart, or PERT];
      2. An updated health and safety plan that covers activities during the RA; and
      3. [**If applicable**: Plans for satisfying permitting requirements, including obtaining permits for off-site activity and for satisfying substantive requirements of permits for on-site activity.]

NOTE: Include next element if case team determines that an Independent Quality Assurance Team is appropriate for the Work. See *Guidance on EPA Oversight of Remedial Designs and Remedial Actions Performed by Potentially Responsible Parties*, EPA/540/G-90/001 (Apr. 1990).

* 1. **Independent Quality Assurance Team**. Respondents shall notify EPA of Respondents’ designated Independent Quality Assurance Team (IQAT). The IQAT will be independent of the Supervising Contractor. Respondents may hire a third party for this purpose. Respondents’ notice must include the names, titles, contact information, and qualifications of the members of the IQAT. The IQAT will have the responsibility to determine whether Work is of expected quality and conforms to applicable plans and specifications. The IQAT will have the responsibilities as described in ¶ 2.1.3 of the *Guidance on EPA Oversight of Remedial Designs and Remedial Actions Performed by Potentially Responsible Parties*, EPA/540/G-90/001 (Apr. 1990).
  2. **Meetings and Inspections**
     1. **Preconstruction Conference**. Respondents shall hold a preconstruction conference with EPA and others as directed or approved by EPA and as described in the *Remedial Design/Remedial Action Handbook*, EPA 540/R-95/059 (June 1995). Respondents shall prepare minutes of the conference and shall distribute the minutes to all Parties.
     2. **Periodic Meetings**. During the construction portion of the RA (RA Construction), Respondents shall meet regularly [**insert frequency if appropriate**] with EPA, and others as directed or determined by EPA, to discuss construction issues. Respondents shall distribute an agenda and list of attendees to all Parties prior to each meeting. Respondents shall prepare minutes of the meetings and shall distribute the minutes to all Parties.
     3. **Inspections**
        1. EPA or its representative shall conduct periodic inspections of [or have an on-site presence during] the Work. At EPA’s request, the Supervising Contractor or other designee shall accompany EPA or its representative during inspections.
        2. [**If needed:** Respondents shall provide [on-site] office space for EPA personnel to perform their oversight duties. The minimum office requirements are [e.g., a private office with at least 150 square feet of floor space, an office desk with chair, a four-drawer file cabinet, and a telephone with a private line, access to facsimile, reproduction, and personal computer equipment, wireless internet access, and sanitation facilities.]]
        3. [**If needed:** Respondents shall provide personal protective equipment needed for EPA personnel and any oversight officials to perform their oversight duties.]
        4. Upon notification by EPA of any deficiencies in the RA Construction, Respondents shall take all necessary steps to correct the deficiencies and/or bring the RA Construction into compliance with the approved Final RD, any approved design changes, and/or the approved RAWP. If applicable, Respondents shall comply with any schedule provided by EPA in its notice of deficiency.
  3. **Emergency Response and Reporting**
     1. **Emergency Response and Reporting**. If any event occurs during performance of the Work that causes or threatens to cause a release of Waste Material on, at, or from the Site and that either constitutes an emergency situation or that may present an immediate threat to public health or welfare or the environment, Respondents shall: (1) immediately take all appropriate action to prevent, abate, or minimize such release or threat of release; (2) immediately notify the authorized EPA officer (as specified in ¶ 4.4(c)) orally; and (3) take such actions in consultation with the authorized EPA officer and in accordance with all applicable provisions of the Health and Safety Plan, the Emergency Response Plan, and any other deliverable approved by EPA under the SOW.
     2. **Release Reporting**. Upon the occurrence of any event during performance of the Work that Respondents are required to report pursuant to Section 103 of CERCLA, 42 U.S.C. § 9603, or Section 304 of the Emergency Planning and Community Right-to-know Act (EPCRA), 42 U.S.C. § 11004, Respondents shall immediately notify the authorized EPA officer orally.
     3. The “authorized EPA officer” for purposes of immediate oral notifications and consultations under ¶ 4.4(a) and ¶ 4.4(b) is the EPA Project Coordinator, the EPA Alternate Project Coordinator (if the EPA Project Coordinator is unavailable), or the EPA [Emergency Response Unit], Region \_\_ (if neither EPA Project Coordinator is available).
     4. For any event covered by ¶ 4.4(a) and ¶ 4.4(b), Respondents shall: (1) within [14] days after the onset of such event, submit a report to EPA describing the actions or events that occurred and the measures taken, and to be taken, in response thereto; and (2) within 30 days after the conclusion of such event, submit a report to EPA describing all actions taken in response to such event.
     5. The reporting requirements under ¶ 4.4 are in addition to the reporting required by CERCLA § 103 or EPCRA § 304.
  4. **Off-Site Shipments**
     1. Respondents may ship hazardous substances, pollutants, and contaminants from the Site to an off-Site facility only if they comply with Section 121(d)(3) of CERCLA, 42 U.S.C. § 9621(d)(3), and 40 C.F.R. § 300.440. Respondents will be deemed to be in compliance with CERCLA § 121(d)(3) and 40 C.F.R. § 300.440 regarding a shipment if Respondents obtain a prior determination from EPA that the proposed receiving facility for such shipment is acceptable under the criteria of 40 C.F.R. § 300.440(b).
     2. Respondents may ship Waste Material from the Site to an out-of-state waste management facility only if, prior to any shipment, they provide notice to the appropriate state environmental official in the receiving facility’s state and to the EPA Project Coordinator. This notice requirement will not apply to any off‑Site shipments when the total quantity of all such shipments does not exceed 10 cubic yards. The notice must include the following information, if available: (1) the name and location of the receiving facility; (2) the type and quantity of Waste Material to be shipped; (3) the schedule for the shipment; and (4) the method of transportation. Respondents also shall notify the state environmental official referenced above and the EPA Project Coordinator of any major changes in the shipment plan, such as a decision to ship the Waste Material to a different out-of-state facility. Respondents shall provide the notice after the award of the contract for RA construction and before the Waste Material is shipped.
     3. Respondents may ship Investigation Derived Waste (IDW) from the Site to an off-Site facility only if they comply with Section 121(d)(3) of CERCLA, 42 U.S.C. § 9621(d)(3), 40 C.F.R. § 300.440, EPA’s *Guide to Management of Investigation Derived Waste*, OSWER 9345.3-03FS (Jan. 1992), and any IDW-specific requirements contained in the Record of Decision. Wastes shipped off-Site to a laboratory for characterization, and RCRA hazardous wastes that meet the requirements for an exemption from RCRA under 40 CFR § 261.4(e) shipped off-site for treatability studies, are not subject to 40 C.F.R. § 300.440.

NOTE: For any remedy that involves the construction and operation of a system to achieve Performance Standards (such as groundwater or surface water restoration remedies), the case team should include ¶ 4.6 (RA Construction Completion). Under applicable EPA guidance, for such remedies, EPA approves the “RA Construction Completion” (also known as the “operational and functional” determination). “RA Construction Completion” includes two components: construction of the system, and the determination that the RA is functioning properly and performing as designed. For such remedies, “RA Completion” will occur later, i.e., once the system has operated long enough for Performance Standards to be achieved. For remedies in which Performance Standards are achieved upon RA Construction Completion (such as soil excavation and off-site disposal remedies), omit ¶ 4.6. In that case, ¶ 4.7 (Notice of RA Completion) will mark both RA Construction Completion *and* RA Completion. Case teams may modify ¶ 4.6 to provide for multiple RA Construction Completion approvals, if needed due to specific Site circumstances. Such instances are rare, and case teams should consult with the Office of Superfund Remediation and Technology Innovation and the Office of Site Remediation Enforcement to discuss site-specific circumstances.

* 1. **RA Construction Completion**
     1. For purposes of this ¶ 4.6, “RA Construction” comprises, for any RA that involves the construction and operation of a system to achieve Performance Standards (for example, groundwater or surface water restoration remedies), the construction of such system and the performance of all activities necessary for the system to function properly and as designed.
     2. **Inspection of Constructed Remedy**. Respondents shall schedule an inspection to review the construction and operation of the system and to review whether the system is functioning properly and as designed. The inspection must be attended by Respondents and EPA and/or their representatives. A re-inspection must be conducted if requested by EPA.
     3. **Shakedown Period**. There shall be a shakedown period of up to one year for EPA to review whether the remedy is functioning properly and performing as designed. Respondents shall provide such information as EPA requests for such review.
     4. **RA Report**. Following the shakedown period, Respondents shall submit an “RA Report” requesting EPA’s determination that RA Construction has been completed. The RA Report must: (1) include statements by a registered professional engineer and by Respondents’ Project Coordinator that construction of the system is complete and that the system is functioning properly and as designed; (2) include a demonstration, and supporting documentation, that construction of the system is complete and that the system is functioning properly and as designed; (3) include as‑built drawings signed and stamped by a registered professional engineer; (4) be prepared in accordance with Chapter 2 (Remedial Action Completion) of EPA’s *Close Out Procedures for NPL Sites* guidance (May 2011), as supplemented by *Guidance for Management of Superfund Remedies in Post Construction*, OLEM 9200.3-105 (Feb. 2017); and (5) be certified in accordance with ¶ 7.5 (Certification).
     5. If EPA determines that RA Construction is not complete, EPA shall so notify Respondents. EPA’s notice must include a description of, and schedule for, the activities that Respondents must perform to complete RA Construction. EPA’s notice may include a schedule for completion of such activities or may require Respondents to submit a proposed schedule for EPA approval. Respondents shall perform all activities described in the EPA notice in accordance with the schedule.
     6. If EPA determines, based on the initial or any subsequent RA Report, that RA Construction is complete, EPA shall so notify Respondents.

NOTE: Include ¶ 4.7 (Notice of RA Completion) for all remedial actions. For excavation remedies, “RA Completion” also signifies “RA Construction Completion.” For groundwater or surface water restoration remedies, RA Completion occurs after RA Construction Completion, i.e., once the groundwater or surface water restoration system has been operating long enough for Performance Standards to be achieved. Paragraph 4.7 is needed for either situation. However, for groundwater or surface water restoration remedies, the information enabling EPA to make a determination that Performance Standards have been achieved is provided in a Monitoring Report (as provided in ¶ 4.7(b)) because the RA Report would have been previously submitted under ¶ 4.6(d) (RA Report). Therefore, if using ¶ 4.6 (i.e., for groundwater and surface water restoration remedies): (i) delete ¶ 4.7(a) (RA Completion Inspection) and any references to the inspection (as no inspection is needed); (ii) change the heading and text of ¶ 4.7(b) from “RA Report” to “Monitoring Report;” and (iii) delete the requirement under ¶ 4.7(b)(2) for as-built drawings (as they will already have been provided under ¶ 4.6(d) (RA Report)).

* 1. **Notice of RA Completion**
     1. **RA Completion Inspection**. The RA is “Complete” for purposes of this ¶ 4.7 when it has been fully performed and the Performance Standards have been achieved. Respondents shall schedule an inspection for the purpose of obtaining EPA’s Notice of RA Completion. The inspection must be attended by Respondents and EPA and/or their representatives.
     2. [**RA Report/Monitoring Report**]. Following the inspection, Respondents shall submit a [RA Report/Monitoring Report] to EPA requesting EPA’s Notice of RA Completion. The report must: (1) include certifications by a registered professional engineer and by Respondents’ Project Coordinator that the RA is complete; [(2) include as‑built drawings signed and stamped by a registered professional engineer;] (3) be prepared in accordance with Chapter 2 (Remedial Action Completion) of EPA’s *Close Out Procedures for NPL Sites* guidance (May 2011), as supplemented by *Guidance for Management of Superfund Remedies in Post Construction*, OLEM 9200.3-105 (Feb. 2017); [(4) contain monitoring data to demonstrate that Performance Standards have been achieved;] and (5) be certified in accordance with ¶ 7.5 (Certification).
     3. If EPA concludes that the RA is not Complete, EPA shall so notify Respondents. EPA’s notice must include a description of any deficiencies. EPA’s notice may include a schedule for addressing such deficiencies or may require Respondents to submit a schedule for EPA approval. Respondents shall perform all activities described in the notice in accordance with the schedule.
     4. If EPA concludes, based on the initial or any subsequent [RA Report/Monitoring Report] requesting Notice of RA Completion, that the RA is Complete, EPA shall so notify the Respondents. This notice will constitute the Notice of RA Completion for purposes of the Order. Issuance of the Notice of RA Completion will not affect Respondents’ remaining obligations under the Order.
  2. **Periodic Review Support Plan**. Respondents shall submit the periodic review support plan (PRSP) for EPA approval. The PRSP addresses the studies and investigations that Respondents shall conduct to support EPA’s reviews of whether the RA is protective of human health and the environment in accordance with Section 121(c) of CERCLA, 42 U.S.C. § 9621(c) (also known as “Five-year Reviews”). Respondents shall develop the plan in accordance with *Comprehensive Five-year Review Guidance*, OSWER 9355.7-03B-P (June 2001), and any other relevant five-year review guidances.

NOTE Regarding ¶ 4.9 (Notice of Work Completion): The “Work” can include, in addition to the “RA,” such tasks as O&M activities after Performance Standards have been met (e.g., monitoring of groundwater), and payment of Future Response Costs. Thus, the Work is completed after (sometimes long after) the RA is completed.

* 1. **Notice of Work Completion**
     1. **Work Completion Inspection**. Respondents shall schedule an inspection for the purpose of obtaining EPA’s Notice of Work Completion. The inspection must be attended by Respondents and EPA and/or their representatives.
     2. **Work Completion Report**. Following the inspection, Respondents shall submit a report to EPA requesting EPA’s Notice of Work Completion. The report must: (1) include certifications by a registered professional engineer and by Respondents’ Project Coordinator that the Work, including all O&M activities, is complete; and (2) be certified in accordance with ¶ 7.5 (Certification). If the [RA Report/Monitoring Report] submitted under ¶ 4.7(b) includes all elements required under this ¶ 4.9(b), then the [RA Report/Monitoring Report] suffices to satisfy all requirements under this ¶ 4.9(b).
     3. If EPA concludes that the Work is not complete, EPA shall so notify Respondents. EPA’s notice must include a description of the activities that Respondents must perform to complete the Work. EPA’s notice must include specifications and a schedule for such activities or must require Respondents to submit specifications and a schedule for EPA approval. Respondents shall perform all activities described in the notice or in the EPA-approved specifications and schedule.

NOTE: In most cases, despite issuance of the Notice of Work Completion, the Respondents will have continuing obligations regarding the Site, such as implementing further studies in support of EPA’s five year reviews. The Respondents may also have other obligations including ICs. Modify the paragraph below as appropriate.

* + 1. If EPA concludes, based on the initial or any subsequent report requesting Notice of Work Completion, that the Work is complete, EPA shall so notify Respondents. Issuance of the Notice of Work Completion does not affect the following continuing obligations: (1) activities under the Periodic Review Support Plan; (2) obligations under Sections [**XI**] (Property Requirements), [**XVII**] (Record Retention), and [**XVI**] (Access to Information) of the Order; (3) [Institutional Controls obligations as provided in the ICIAP;] (4) [**add other relevant obligations**]; [and (5) payment of Response Costs under Section [**XV**] (Payment of Response Costs) of the Order.]

NOTE: Include the next section only if the ROD provides for a contingency remedy.

1. CONTINGENCY REMEDY
   1. **Testing/Investigations**. If testing and/or investigations are needed for EPA to make a determination whether the contingency remedy selected in the ROD needs to be implemented, Respondents shall submit a plan for implementing such testing and/or investigations, shall implement such testing and/or investigations in accordance with EPA’s approval and/or modification of such plan, and shall submit reports to EPA regarding the results of such testing and/or investigations.
   2. **Reports Regarding Performance of Selected Remedy**. If the ROD provides for implementation of a contingency remedy in the event of failure of the selected remedy to achieve desired performance levels, Respondents shall submit such reports as EPA requests regarding the performance of the selected remedy.
   3. **Invocation of Contingency Remedy**. If EPA determines that the contingency remedy selected in the ROD needs to be implemented, EPA shall so notify Respondents, and shall include a copy of EPA’s decision document invoking the contingency remedy.
   4. **Implementation of Contingency Remedy**. Respondents shall implement the contingency remedy in accordance with the EPA notification and consistent with the requirements of Section 3 and Section 4 of this SOW.
   5. **Other Modifications**. If EPA determines that implementation of the contingency remedy selected in the ROD will require modifications to any deliverable submitted under this SOW, Respondents shall modify those deliverables.
2. REPORTING
   1. **Progress Reports**. Commencing with the [month] following the Effective Date of the Order and until EPA approves the RA [**if using ¶ 4.6, insert**: Construction] Completion, Respondents shall submit progress reports to EPA on a [monthly/weekly] basis, or as otherwise requested by EPA. The reports must cover all activities that took place during the prior reporting period, including:

NOTE: The cutoff for reporting under ¶ 6.1 (Progress Reports), which is “RA Completion” (or “RA Construction Completion, if ¶ 4.6 is used) is intentional. Reporting subsequent to that milestone is covered in the O&M Plan as provided under ¶ 7.7(h)(3) (O&M Reporting).

* + 1. The actions that have been taken toward achieving compliance with the Order;
    2. A summary of all results of sampling, tests, and all other data received or generated by Respondents;
    3. A description of all deliverables that Respondents submitted to EPA;
    4. A description of all activities relating to RA Construction that are scheduled for the next [six weeks];
    5. An updated RA Construction Schedule, together with information regarding percentage of completion, delays encountered or anticipated that may affect the future schedule for implementation of the Work, and a description of efforts made to mitigate those delays or anticipated delays;
    6. A description of any modifications to the work plans or other schedules that Respondents have proposed or that have been approved by EPA; and
    7. A description of all activities undertaken in support of the Community Involvement Plan (CIP) during the reporting period and those to be undertaken in the next [six weeks].
  1. **Notice of Progress Report Schedule Changes**. If the schedule for any activity described in the Progress Reports, including activities required to be described under ¶ 6.1(d), changes, Respondents shall notify EPA of such change at least 7 days before performance of the activity.

1. DELIVERABLES
   1. **Applicability**. Respondents shall submit deliverables for EPA approval or for EPA comment as specified in the SOW. If neither is specified, the deliverable does not require EPA’s approval or comment. Paragraphs 7.2 (In Writing) through 7.4 (Technical Specifications) apply to all deliverables. Paragraph 7.5 (Certification) applies to any deliverable that is required to be certified. Paragraph 7.6 (Approval of Deliverables) applies to any deliverable that is required to be submitted for EPA approval.
   2. **In Writing**. All deliverables under this SOW must be in writing unless otherwise specified.

NOTE: If paper copies of specific deliverables (in addition to large exhibits) are needed, the paragraph below should be edited accordingly.

* 1. **General Requirements for Deliverables**
     1. Except as otherwise provided in this Order, Respondents shall direct all deliverables required by this Order to the EPA Project Coordinator at [**insert EPA Project Coordinator’s name, address, phone number, email**].
     2. All deliverables provided to the State in accordance with ¶ 9 (State Participation) shall be directed to [**insert name, address, phone number, email**].
     3. All deliverables must be submitted by the deadlines in the RD Schedule or RA Schedule, as applicable. Respondents shall submit all deliverables in electronic form. Technical specifications for sampling and monitoring data and spatial data are addressed in ¶ 7.4. All other deliverables shall be submitted to EPA in the electronic form specified by the EPA Project Coordinator. If any deliverable includes maps, drawings, or other exhibits that are larger than 8.5” by 11”, Respondents shall also provide EPA with paper copies of such exhibits.
  2. **Technical Specifications**

NOTE: The information in this paragraph is consistent with the EPA National Geospatial Data Policy 2008, which is under review and may be revised at any time. The case team should check <http://www.epa.gov/geospatial/geospatial-policies-and-standards> for the latest guidance on the policy and associated EPA and CERCLA procedures and technical specifications, including standards and quality assurance for geographic information system (GIS) deliverables.

* + 1. Sampling and monitoring data should be submitted in standard Regional Electronic Data Deliverable (EDD) format. [**Specify the EDD format that the Region uses**.] Other delivery methods may be allowed if electronic direct submission presents a significant burden or as technology changes.
    2. Spatial data, including spatially-referenced data and geospatial data, should be submitted: (1) in the ESRI File Geodatabase format [**or insert Regionally-preferred spatial file format**]; and (2) as unprojected geographic coordinates in decimal degree format using North American Datum 1983 (NAD83) or World Geodetic System 1984 (WGS84) as the datum. If applicable, submissions should include the collection method(s). Projected coordinates may optionally be included but must be documented. Spatial data should be accompanied by metadata, and such metadata should be compliant with the Federal Geographic Data Committee (FGDC) Content Standard for Digital Geospatial Metadata and its EPA profile, the EPA Geospatial Metadata Technical Specification. An add-on metadata editor for ESRI software, the EPA Metadata Editor (EME), complies with these FGDC and EPA metadata requirements and is available at https://www.epa.gov/geospatial/epa-metadata-editor.
    3. Each file must include an attribute name for each site unit or sub-unit submitted. Consult <http://www.epa.gov/geospatial/geospatial-policies-and-standards> for any further available guidance on attribute identification and naming.
    4. Spatial data submitted by Respondents does not, and is not intended to, define the boundaries of the Site.

NOTE: The model SOW identifies the deliverables that should be certified in accordance with ¶ 7.5 (Certification). If the case team wishes that additional deliverables be so certified, the case team should make sure that the paragraph regarding such additional deliverable also refers to ¶ 7.5.

* 1. **Certification**. All deliverables that require compliance with this ¶ 7.5 must be signed by the Respondents’ Project Coordinator, or other responsible official of Respondents, and must contain the following 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 have no personal knowledge that the information submitted is other than 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.

NOTE: The provisions of ¶ 7.6 (Approval of Deliverables) have been carefully integrated. It is recommended that these provisions not be changed unless there is a site-specific reason for doing so. Even then the case team should ensure that the change is consistent with the other parts of ¶ 7.6.

* 1. **Approval of Deliverables**
     1. **Initial Submissions**
        1. After review of any deliverable that is required to be submitted for EPA approval under the Order or the SOW, EPA shall: (i) approve, in whole or in part, the submission; (ii) approve the submission upon specified conditions; (iii) disapprove, in whole or in part, the submission; or (iv) any combination of the foregoing.
        2. EPA also may modify the initial submission to cure deficiencies in the submission if: (i) EPA determines that disapproving the submission and awaiting a resubmission would cause substantial disruption to the Work; or (ii) previous submission(s) have been disapproved due to material defects and the deficiencies in the initial submission under consideration indicate a bad faith lack of effort to submit an acceptable deliverable.
     2. **Resubmissions**. Upon receipt of a notice of disapproval under ¶ 7.6(a) (Initial Submissions), or if required by a notice of approval upon specified conditions under ¶ 7.6(a), Respondents shall, within \_\_ days or such longer time as specified by EPA in such notice, correct the deficiencies and resubmit the deliverable for approval. After review of the resubmitted deliverable, EPA may: (1) approve, in whole or in part, the resubmission; (2) approve the resubmission upon specified conditions; (3) modify the resubmission; (4) disapprove, in whole or in part, the resubmission, requiring Respondents to correct the deficiencies; or (5) any combination of the foregoing.
     3. **Implementation**. Upon approval, approval upon conditions, or modification by EPA under ¶ 7.6(a) (Initial Submissions) or ¶ 7.6(b) (Resubmissions), of any deliverable, or any portion thereof: (1) such deliverable, or portion thereof, will be incorporated into and enforceable under the Order; and (2) Respondents shall take any action required by such deliverable, or portion thereof.
  2. **Supporting Deliverables**. Respondents shall submit each of the following supporting deliverables for EPA approval, except as specifically provided. Respondents shall develop the deliverables in accordance with all applicable regulations, guidances, and policies (see Section 10 (References)). Respondents shall update each of these supporting deliverables as necessary or appropriate during the course of the Work, and/or as requested by EPA.

NOTE: The case team should keep or delete elements below as appropriate based on requirements of the particular remedy.

* + 1. **Health and Safety Plan**. The Health and Safety Plan (HASP) describes all activities to be performed to protect on site personnel and area residents from physical, chemical, and all other hazards posed by the Work. Respondents shall develop the HASP in accordance with EPA’s Emergency Responder Health and Safety and Occupational Safety and Health Administration (OSHA) requirements under 29 C.F.R. §§ 1910 and 1926. The HASP should cover RD activities and should be, as appropriate, updated to cover activities during the RA and updated to cover activities after RA completion. EPA does not approve the HASP, but will review it to ensure that all necessary elements are included and that the plan provides for the protection of human health and the environment.
    2. **Emergency Response Plan**. The Emergency Response Plan (ERP) must describe procedures to be used in the event of an accident or emergency at the Site (for example, power outages, water impoundment failure, treatment plant failure, slope failure, etc.). The ERP must include:
       1. Name of the person or entity responsible for responding in the event of an emergency incident;
       2. Plan and date(s) for meeting(s) with the local community, including local, State, and federal agencies involved in the cleanup, as well as local emergency squads and hospitals;
       3. Spill Prevention, Control, and Countermeasures (SPCC) Plan (if applicable), consistent with the regulations under 40 C.F.R. Part 112, describing measures to prevent, and contingency plans for, spills and discharges;
       4. Notification activities in accordance with ¶ 4.4(b) (Release Reporting) in the event of a release of hazardous substances requiring reporting under Section 103 of CERCLA, 42 U.S.C. § 9603, or Section 304 of the Emergency Planning and Community Right-to-know Act (EPCRA), 42 U.S.C. § 11004; and
       5. A description of all necessary actions to ensure compliance with ¶ 4.4 in the event of an occurrence during the performance of the Work that causes or threatens a release of Waste Material from the Site that constitutes an emergency or may present an immediate threat to public health or welfare or the environment.
    3. **Field Sampling Plan**. The Field Sampling Plan (FSP) addresses all sample collection activities. The FSP must be written so that a field sampling team unfamiliar with the project would be able to gather the samples and field information required. Respondents shall develop the FSP in accordance with *Guidance for Conducting Remedial Investigations and Feasibility Studies*, EPA/540/G 89/004 (Oct. 1988).
    4. **Quality Assurance Project Plan**. The Quality Assurance Project Plan (QAPP) augments the FSP and addresses sample analysis and data handling regarding the Work. The QAPP must include a detailed explanation of Respondents’ quality assurance, quality control, and chain of custody procedures for all treatability, design, compliance, and monitoring samples. Respondents shall develop the QAPP in accordance with *EPA Requirements for Quality Assurance Project Plans*, QA/R-5, EPA/240/B-01/003 (Mar. 2001, reissued May 2006); *Guidance for Quality Assurance Project Plans*, QA/G-5, EPA/240/R 02/009 (Dec. 2002); and *Uniform Federal Policy for Quality Assurance Project Plans*, Parts 1‑3, EPA/505/B-04/900A though 900C (Mar. 2005). The QAPP also must include procedures:
       1. To ensure that EPA and its authorized representative have reasonable access to laboratories used by Respondents in implementing the Work (Respondents’ Labs);
       2. To ensure that Respondents’ Labs analyze all samples submitted by EPA pursuant to the QAPP for quality assurance monitoring;
       3. To ensure that Respondents’ Labs perform all analyses using EPA-accepted methods (i.e., the methods documented in *USEPA Contract Laboratory Program Statement of Work for Inorganic Analysis*, ILM05.4 (Dec. 2006); *USEPA Contract Laboratory Program Statement of Work for Organic Analysis*, SOM01.2 (amended Apr. 2007); and *USEPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration)*, ISM01.2 (Jan. 2010)) or other methods acceptable to EPA;
       4. To ensure that Respondents’ Labs participate in an EPA-accepted QA/QC program or other program QA/QC acceptable to EPA;
       5. For Respondents to provide EPA with notice at least [28] days prior to any sample collection activity;
       6. For Respondents to provide split samples and/or duplicate samples to EPA upon request;
       7. For EPA to take any additional samples that it deems necessary;
       8. For EPA to provide to Respondents, upon request, split samples and/or duplicate samples in connection with EPA’s oversight sampling; and
       9. For Respondents to submit to EPA all sampling and tests results and other data in connection with the implementation of the Work.
    5. **Site Wide Monitoring Plan**. The purpose of the Site Wide Monitoring Plan (SWMP) is to obtain baseline information regarding the extent of contamination in affected media at the Site; to obtain information, through short- and long- term monitoring, about the movement of and changes in contamination throughout the Site, before and during implementation of the RA; to obtain information regarding contamination levels to determine whether (Performance Standards) PS are achieved; and to obtain information to determine whether to perform additional actions, including further Site monitoring. The SWMP must include:
       1. Description of the environmental media to be monitored;
       2. Description of the data collection parameters, including existing and proposed monitoring devices and locations, schedule and frequency of monitoring, analytical parameters to be monitored, and analytical methods employed;
       3. Description of how performance data will be analyzed, interpreted, and reported, and/or other Site-related requirements;
       4. Description of verification sampling procedures;
       5. Description of deliverables that will be generated in connection with monitoring, including sampling schedules, laboratory records, monitoring reports, and monthly and annual reports to EPA and State agencies; and
       6. Description of proposed additional monitoring and data collection actions (such as increases in frequency of monitoring, and/or installation of additional monitoring devices in the affected areas) in the event that results from monitoring devices indicate changed conditions (such as higher than expected concentrations of the contaminants of concern or groundwater contaminant plume movement).
    6. **Construction Quality Assurance/Quality Control Plan (CQA/QCP)**. The purpose of the Construction Quality Assurance Plan (CQAP) is to describe planned and systemic activities that provide confidence that the RA construction will satisfy all plans, specifications, and related requirements, including quality objectives. The purpose of the Construction Quality Control Plan (CQCP) is to describe the activities to verify that RA construction has satisfied all plans, specifications, and related requirements, including quality objectives. The CQA/QCP must:
       1. Identify, and describe the responsibilities of, the organizations and personnel implementing the CQA/QCP;
       2. Describe the PS required to be met to achieve Completion of the RA;
       3. Describe the activities to be performed: (i) to provide confidence that PS will be met; and (ii) to determine whether PS have been met;
       4. Describe verification activities, such as inspections, sampling, testing, monitoring, and production controls, under the CQA/QCP;
       5. Describe industry standards and technical specifications used in implementing the CQA/QCP;
       6. Describe procedures for tracking construction deficiencies from identification through corrective action;
       7. Describe procedures for documenting all CQA/QCP activities; and
       8. Describe procedures for retention of documents and for final storage of documents.

NOTE Regarding ¶ 7.7(g) (Transportation and Off-Site Disposal Plan): For most remedial actions, ¶ 4.5 (Off-Site Shipments) should be sufficient to ensure that Waste Material will be disposed of properly off-site and, therefore, the requirement to prepare a Transportation and Off-Site Disposal Plan (TODP) can be omitted. However, a TODP may be required, for example, when off-site disposal requirements are complicated by high vehicle traffic and densely populated areas.

* + 1. **Transportation and Off-Site Disposal Plan**. The Transportation and Off-Site Disposal Plan (TODP) describes plans to ensure compliance with ¶ 4.5 (Off-Site Shipments). The TODP must include:
       1. Proposed routes for off-site shipment of Waste Material;
       2. Identification of communities affected by shipment of Waste Material; and
       3. Description of plans to minimize impacts on affected communities.
    2. **O&M Plan**. The O&M Plan describes the requirements for inspecting, operating, and maintaining the RA. Respondents shall develop the O&M Plan in accordance with *Guidance for Management of Superfund Remedies in Post Construction*, OLEM 9200.3-105 (Feb. 2017). The O&M Plan must include the following additional requirements:
       1. Description of PS required to be met to implement the ROD;
       2. Description of activities to be performed: (i) to provide confidence that PS will be met; and (ii) to determine whether PS have been met;
       3. **O&M Reporting**. Description of records and reports that will be generated during O&M, such as daily operating logs, laboratory records, records of operating costs, reports regarding emergencies, personnel and maintenance records, monitoring reports, and monthly and annual reports to EPA and State agencies;
       4. Description of corrective action in case of systems failure, including: (i) alternative procedures to prevent the release or threatened release of Waste Material which may endanger public health and the environment or may cause a failure to achieve PS; (ii) analysis of vulnerability and additional resource requirements should a failure occur; (iii) notification and reporting requirements should O&M systems fail or be in danger of imminent failure; and (iv) community notification requirements; and
       5. Description of corrective action to be implemented in the event that PS are not achieved; and a schedule for implementing these corrective actions.
    3. **O&M Manual**. The O&M Manual serves as a guide to the purpose and function of the equipment and systems that make up the remedy. Respondents shall develop the O&M Manual in accordance with *Guidance for Management of Superfund Remedies in Post Construction*, OLEM 9200.3-105 (Feb. 2017).
    4. **Institutional Controls Implementation and Assurance Plan**. The Institutional Controls Implementation and Assurance Plan (ICIAP) describes plans to implement, maintain, and enforce the Institutional Controls (ICs) at the Site. Respondents shall develop the ICIAP in accordance with *Institutional Controls: A Guide to Planning, Implementing, Maintaining, and Enforcing Institutional Controls at Contaminated Sites*, OSWER 9355.0-89, EPA/540/R-09/001 (Dec. 2012), and *Institutional Controls: A Guide to Preparing Institutional Controls Implementation and Assurance Plans at Contaminated Sites*, OSWER 9200.0-77, EPA/540/R-09/02 (Dec. 2012). The ICIAP must include the following additional requirements:
       1. Locations of recorded real property interests (e.g., easements, liens) and resource interests in the property that may affect ICs (e.g., surface, mineral, and water rights) including accurate mapping and geographic information system (GIS) coordinates of such interests; and
       2. Legal descriptions and survey maps that are prepared according to current American Land Title Association (ALTA) [**for Texas sites:** Texas Land Title Association (TLTA)] Survey guidelines and certified by a licensed surveyor.

1. SCHEDULES
   1. **Applicability and Revisions**. All deliverables and tasks required under this SOW must be submitted or completed by the deadlines or within the time durations listed in the RD and RA Schedules set forth below. Respondents may submit proposed revised RD Schedules or RA Schedules for EPA approval. Upon EPA’s approval, the revised RD and/or RA Schedules supersede the RD and RA Schedules set forth below, and any previously-approved RD and/or RA Schedules.
   2. **RD Schedule**

|  | **Description of Deliverable, Task** | **¶ Ref.** | **Deadline** |
| --- | --- | --- | --- |
| 1 | RDWP | 3.1 | X days after EPA’s Authorization to Proceed regarding Supervising Contractor under ¶ [**30.c**] of Order] |
| 2 | [PDIWP] | [3.3(a)] | [X days after EPA’s Authorization to Proceed regarding Supervising Contractor under ¶ [**30.c**] of Order] |
| 3 | Preliminary (30%) RD | 3.5,  3.3(a) | X days after EPA approval of Final RDWP |
| 4 | [Intermediate (60%) RD] | [3.6] | [X days after EPA comments on Preliminary RD] |
| 5 | Pre-final (90/95%) RD | 3.7 | X days after EPA comments on [Preliminary or Intermediate] RD |
| 6 | Final (100%) RD | 3.8 | X days after EPA comments on Pre-final RD |

* 1. **RA Schedule**

|  | **Description of  Deliverable / Task** | **¶ Ref.** | **Deadline** |
| --- | --- | --- | --- |
| 1 | Award RA contract |  | X days after EPA Notice of Authorization to Proceed with RA |
| 2 | RAWP | 4.1 | X days after EPA Notice of Authorization to Proceed with RA |
| 3 | [Designate IQAT] | 4.2 |  |
| 4 | Pre-Construction Conference | 4.3(a) | X days after Approval of RAWP |
| 5 | Start of Construction |  | X days after Approval of RAWP |
| 6 | Completion of Construction |  |  |
| 7 | Pre-final Inspection | 4.6(b) | X days after completion of construction |
| 8 | Pre-final Inspection Report | 4.6(d) | X days after completion of Pre-final Inspection |
| 9 | Final Inspection |  | X days after Completion of Work identified in Pre-final Inspection Report |
| 10 | RA Report | 4.6(d) | X days after Final Inspection |
| 11 | [Monitoring Report] | 4.7(b) |  |
| 12 | Work Completion Report | 4.9(b) |  |
| 13 | Periodic Review Support Plan | 4.8 | [Five years after Start of RA Construction] |

NOTE: Substitute “Tribe” for “State” throughout Section 9 if the Site is entirely on tribal land. Add “and Tribe” after “State” throughout Section 9 if both have a role at or an interest in the Site.

1. STATE PARTICIPATION
   1. **Copies**. Respondents shall, at any time they send a deliverable to EPA, send a copy of such deliverable to the State. EPA shall, at any time it sends a notice, authorization, approval, disapproval, or certification to Respondents, send a copy of such document to the State.
   2. **Review and Comment**. The State will have a reasonable opportunity for review and comment prior to:
      1. Any EPA approval or disapproval under ¶ 7.6 (Approval of Deliverables) of any deliverables that are required to be submitted for EPA approval; and
      2. Any approval or disapproval of the Construction Phase under ¶ 4.6 (RA Construction Completion), any disapproval of, or Notice of RA Completion under ¶ 4.7 (Notice of RA Completion), and any disapproval of, or Notice of Work Completion under ¶ 4.9 (Notice of Work Completion).
2. REFERENCES
   1. The following regulations and guidance documents, among others, apply to the Work. Any item for which a specific URL is not provided below is available on one of the two EPA Web pages listed in ¶ 10.2:

NOTE: Case teams may modify the list to add references specific to the remedy selected in the ROD or to any applicable Regional guidance.

* + 1. A Compendium of Superfund Field Operations Methods, OSWER 9355.0‑14, EPA/540/P-87/001a (Aug. 1987).
    2. CERCLA Compliance with Other Laws Manual, Part I: Interim Final, OSWER 9234.1-01, EPA/540/G-89/006 (Aug. 1988).
    3. Guidance for Conducting Remedial Investigations and Feasibility Studies, OSWER 9355.3-01, EPA/540/G-89/004 (Oct. 1988).
    4. CERCLA Compliance with Other Laws Manual, Part II, OSWER 9234.1-02, EPA/540/G-89/009 (Aug. 1989).
    5. Guidance on EPA Oversight of Remedial Designs and Remedial Actions Performed by Potentially Responsible Parties, OSWER 9355.5-01, EPA/540/G-90/001 (Apr.1990).
    6. Guidance on Expediting Remedial Design and Remedial Actions, OSWER 9355.5-02, EPA/540/G-90/006 (Aug. 1990).
    7. Guide to Management of Investigation-Derived Wastes, OSWER 9345.3‑03FS (Jan. 1992).
    8. Permits and Permit Equivalency Processes for CERCLA On-Site Response Actions, OSWER 9355.7‑03 (Feb. 1992).
    9. Guidance for Conducting Treatability Studies under CERCLA, OSWER 9380.3-10, EPA/540/R‑92/071A (Nov. 1992).
    10. National Oil and Hazardous Substances Pollution Contingency Plan; Final Rule, 40 C.F.R. Part 300 (Oct. 1994).
    11. Guidance for Scoping the Remedial Design, OSWER 9355.0-43, EPA/540/R-95/025 (Mar. 1995).
    12. Remedial Design/Remedial Action Handbook, OSWER 9355.0-04B, EPA/540/R-95/059 (June 1995).
    13. EPA Guidance for Data Quality Assessment, Practical Methods for Data Analysis, QA/G-9, EPA/600/R-96/084 (July 2000).
    14. Comprehensive Five-year Review Guidance, OSWER 9355.7-03B-P, 540‑R‑01-007 (June 2001).
    15. Guidance for Quality Assurance Project Plans, QA/G-5, EPA/240/R‑02/009 (Dec. 2002).
    16. Institutional Controls: Third Party Beneficiary Rights in Proprietary Controls (Apr. 2004).
    17. Quality management systems for environmental information and technology programs - Requirements with guidance for use, ASQ/ANSI E4:2014 (American Society for Quality, February 2014).
    18. Uniform Federal Policy for Quality Assurance Project Plans, Parts 1-3, EPA/505/B-04/900A though 900C (Mar. 2005).
    19. Superfund Community Involvement Handbook, SEMS 100000070 (January 2016). <http://www.epa.gov/superfund/community-involvement-tools-and-resources>.
    20. EPA Guidance on Systematic Planning Using the Data Quality Objectives Process, QA/G-4, EPA/240/B-06/001 (Feb. 2006).
    21. EPA Requirements for Quality Assurance Project Plans, QA/R-5, EPA/240/B‑01/003 (Mar. 2001, reissued May 2006).
    22. EPA Requirements for Quality Management Plans, QA/R-2, EPA/240/B‑01/002 (Mar. 2001, reissued May 2006).
    23. USEPA Contract Laboratory Program Statement of Work for Inorganic Analysis, ILM05.4 (Dec. 2006).
    24. USEPA Contract Laboratory Program Statement of Work for Organic Analysis, SOM01.2 (amended Apr. 2007).
    25. EPA National Geospatial Data Policy, CIO Policy Transmittal 05-002 (Aug. 2008), <http://www.epa.gov/geospatial/geospatial-policies-and-standards> and <http://www.epa.gov/geospatial/epa-national-geospatial-data-policy>.
    26. Summary of Key Existing EPA CERCLA Policies for Groundwater Restoration, OSWER 9283.1-33 (June 2009).
    27. Principles for Greener Cleanups (Aug. 2009), <http://www.epa.gov/greenercleanups/epa-principles-greener-cleanups>.
    28. USEPA Contract Laboratory Program Statement of Work for Inorganic Superfund Methods (Multi-Media, Multi-Concentration), ISM01.2 (Jan. 2010).
    29. Close Out Procedures for National Priorities List Sites, OSWER 9320.2-22 (May 2011).
    30. Groundwater **Road Map: Recommended Process for Restoring Contaminated Groundwater at Superfund Sites,** OSWER 9283.1-34 (July 2011).
    31. Recommended Evaluation of Institutional Controls: Supplement to the “Comprehensive Five-Year Review Guidance,” OSWER 9355.7-18 (Sep. 2011).
    32. Construction Specifications Institute's MasterFormat [**specify current edition**], available from the Construction Specifications Institute, <https://www.csiresources.org/home>.
    33. Updated Superfund Response and Settlement Approach for Sites Using the Superfund Alternative Approach, OSWER 9200.2‑125 (Sep. 2012)
    34. Institutional Controls: A Guide to Planning, Implementing, Maintaining, and Enforcing Institutional Controls at Contaminated Sites, OSWER 9355.0-89, EPA/540/R-09/001 (Dec. 2012).
    35. Institutional Controls: A Guide to Preparing Institutional Controls Implementation and Assurance Plans at Contaminated Sites, OSWER 9200.0-77, EPA/540/R-09/02 (Dec. 2012).
    36. [EPA’s Emergency Responder Health and Safety Manual](http://www.epaosc.org/_HealthSafetyManual/manual-index.htm), [OSWER 9285.3-12](http://www.epaosc.org/_HealthSafetyManual/emergency-responder-manual-directive-final.pdf) (July 2005 and updates), <http://www.epaosc.org/_HealthSafetyManual/manual-index.htm>
    37. Broader Application of Remedial Design and Remedial Action Pilot Project Lessons Learned, OSWER 9200.2-129 (Feb. 2013).
    38. Guidance for Evaluating Completion of Groundwater Restoration Remedial Actions, OSWER 9355.0-129 (Nov. 2013).
    39. Groundwater Remedy Completion Strategy: Moving Forward with the End in Mind, OSWER 9200.2-144 (May 2014).
    40. Guidance for Management of Superfund Remedies in Post Construction, OLEM 9200.3-105 (Feb. 2017), <https://www.epa.gov/superfund/superfund-post-construction-completion>.
  1. A more complete list may be found on the following EPA Web pages:

Laws, Policy, and Guidance: <http://www.epa.gov/superfund/superfund-policy-guidance-and-laws>

Test Methods Collections: <http://www.epa.gov/measurements/collection-methods>

* 1. For any regulation or guidance referenced in the Order or SOW, the reference will be read to include any subsequent modification, amendment, or replacement of such regulation or guidance. Such modifications, amendments, or replacements apply to the Work only after Respondents receive notification from EPA of the modification, amendment, or replacement.

**Instructions Regarding Automated Features**

|  |  |
| --- | --- |
| Feature | Instructions |
| Inserting text copied from a different document | Text copied from a different document will usually have embedded formatting codes. Pasting the text into your document will cause the formatting codes to be inserted as well, which will create unpredictable and frustrating formatting and numbering results. **Therefore, ALWAYS use the “Paste Special” function to insert text copied from another document**. Press Ctrl-Alt-V; in the pop-up menu, click “Unformatted Text” and OK. (You can also click the Home tab, Paste, Paste Special, Unformatted Text and OK.) |
| Inserting a new paragraph | Click at the end of the paragraph immediately preceding the place where you wish to add the new **paragraph**, and press Enter. To change the new paragraph's outline level use (under the Home tab) the styles menu. For example, to change ¶ 2.1.c into ¶ 2.1.b(1), click in that paragraph and then (using the Home tab) click the "LVL 3" style. To change ¶ 3.1.a into ¶ 3.2, click in that paragraph and then (using the Home tab) click the “LVL 2” Style. |
| Adding an updateable section or paragraph cross-reference | (a) Click where you wish to insert a cross-reference; (b) Click the “References” tab, and, in the “Captions” box, click “Cross-reference;” (c) In the pop-up menu that appears, make sure the “Reference type” field contains “Numbered item” and the “Insert reference to” field contains “Paragraph Number (full context); (d) In the “For which numbered item” field” select the numbered item (section, paragraph. or subparagraph) you wish to cross-reference, and click Insert. |
| Updating the cross-references | Press Ctrl-A (to select entire document); right click; in the pop-up menu, click “Update Field;” click OK. Note: If a numbered paragraph that has been cross-referenced elsewhere in the document is deleted, remove the obsolete paragraph cross-reference. Otherwise, when you update the cross-references, the following message will appear: “Error! Reference source not found.” |
| Updating the table of contents | Right-click in the TOC, and in the pop-up menu, left-click “Update Field.” Or click in the TOC, press F9, click Update Entire Table and OK. If you have just added a new section heading, click Update entire table before pressing Enter. |
| Inserting a new section heading | Click in the text of the new heading and assign the “LVL 1” paragraph style to the text by clicking the “Home” tab, and in Styles box, clicking the “LVL 1” style button.) That will add the section number, change the numbering of later sections, and ensure that the new section will be referenced in the table of contents. |
| Changing the font | Press Ctrl-A (to select entire document); right click; in the pop-up menu, click “Font;” in the “font” field, select a new font; click OK. |