UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 8

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EPA Region VIII
Hearing Clerk

IN THE MATTER OF: Columbia Falls Aluminum Company a/k/a Anaconda Aluminum Co. Columbia Falls Reduction Plant Columbia Falls Aluminum Company, LLC Respondent. Proceeding Under Sections 104, 106(a), 107 and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9604, 9606(a), 9607 and 9622	CERCLA Docket No. CERCLA-08-2020-0002 **ADMINISTRATIVE SETTLEMENT AGREEMENT AND ORDER ON CONSENT FOR REMOVAL ACTIONS**

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I. JURISDICTION AND GENERAL PROVISIONS

1. This Administrative Settlement Agreement and Order on Consent ("Settlement") is entered into voluntarily by the United States Environmental Protection Agency (EPA) and Columbia Falls Aluminum Company, LLC ("Respondent"). This Settlement provides for the performance of a removal action by Respondent and the payment of Future Response Costs incurred by the United States at or in connection with the Anaconda Aluminum Co. Columbia Falls Reduction Plant a/k/a Columbia Falls Aluminum Plant (the "Site") generally located near Columbia Falls in Flathead County, Montana.

2. This Settlement is issued under the authority vested in the President of the United States by Sections 104, 106(a), 107, and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. §§ 9604, 9606(a), 9607 and 9622 (CERCLA). This authority was delegated to the Administrator of EPA on January 23, 1987, by Executive Order 12580, 52 Fed. Reg. 2923 (Jan. 29, 1987), and further delegated to Regional Administrators by EPA Delegation Nos. 14-14C (Administrative Actions through Consent Orders, Jan. 18, 2017). This authority was further redelegated by the Regional Administrator of EPA Region 8 to the Associate Regional Counsel for Enforcement with the concurrence of the Director of the Superfund and Emergency Management Division by EPA Region 8 Delegation No. 14-14-C (Administrative Actions through Consent Orders, Aug. 15, 2019).

3. EPA has notified the State of Montana (the "State") of this action pursuant to Section 106(a) of CERCLA, 42 U.S.C. § 9606(a).

4. EPA and Respondent recognize that this Settlement has been negotiated in good faith and that the actions undertaken by Respondent in accordance with this Settlement do not constitute an admission of any liability. Respondent does not admit, and retains the right to controvert in any subsequent proceedings other than proceedings to implement or enforce this Settlement, the validity of the findings of facts, conclusions of law, and determinations in Sections IV (Findings of Fact) and V (Conclusions of Law and Determinations) of this Settlement. Respondent agrees to comply with and be bound by the terms of this Settlement and further agree that it will not contest the basis or validity of this Settlement or its terms.

II. PARTIES BOUND

5. This Settlement is binding upon EPA and upon Respondent and its successors and assigns. Any change in ownership or corporate status of Respondent including, but not limited to, any transfer of assets or real or personal property shall not alter Respondent's responsibilities under this Settlement.

6. The signed representative of Respondent certifies that he or she is fully authorized to enter into the terms and conditions of this Settlement and to execute and legally bind Respondent to this Settlement.

7. Respondent shall provide a copy of this Settlement to each contractor hired to perform the Work required by this Settlement and to each person representing Respondent with

respect to the Site or the Work, and shall condition all contracts entered into hereunder upon performance of the Work in conformity with the terms of this Settlement. Respondent or its contractors shall provide written notice of the Settlement to all subcontractors hired to perform any portion of the Work required by this Settlement. Respondent shall nonetheless be responsible for ensuring that its contractors and subcontractors perform the Work in accordance with the terms of this Settlement.

III. DEFINITIONS

8. Unless otherwise expressly provided in this Settlement, terms used in this Settlement that are defined in CERCLA or in regulations promulgated under CERCLA shall have the meaning assigned to them in CERCLA or in such regulations. Whenever terms listed below are used in this Settlement or its attached appendices, the following definitions shall apply:

"CERCLA" shall mean the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, 42 U.S.C. §§ 9601-9675.

"Columbia Falls Aluminum Plant Special Account" shall mean the special account, within the EPA Hazardous Substance Superfund, established for the Site by EPA pursuant to section 122(b)(3) of CERCLA, 42 U.S.C. § 9622(b)(3), and the Administrative Settlement Agreement and Order on Consent for Remedial Investigation/Feasibility Study, CERCLA Docket No. 08-2016-0002.

"Day" or "day" shall mean a calendar day. In computing any period of time under this Settlement, where the last day would fall on a Saturday, Sunday, or federal or State holiday, the period shall run until the close of business of the next working day.

"Effective Date" shall mean the effective date of this Settlement as provided in Section XXX.

"EPA" shall mean the United States Environmental Protection Agency and its successor departments, agencies, or instrumentalities.

"EPA Hazardous Substance Superfund" shall mean the Hazardous Substance Superfund established by the Internal Revenue Code, 26 U.S.C. § 9507.

"DEQ" shall mean the Montana Department of Environmental Quality and any successor departments or agencies of the State.

"Future Response Costs" shall mean all costs, including, but not limited to, direct and indirect costs, that the United States incurs in reviewing or developing deliverables submitted pursuant to this Settlement, in overseeing implementation of the Work, or otherwise implementing, overseeing, or enforcing this Settlement, including but not limited to, payroll costs, contractor costs, travel costs, laboratory costs, the costs incurred pursuant to Section IX (Property Requirements) (including, but not limited to, cost of attorney time and any monies paid to secure or enforce access or land, water, or other resource use

restrictions], including, but not limited to, the amount of just compensation), Section XIII (Emergency Response and Notification of Releases), Paragraph 94 (Work Takeover), Paragraph 115 (Access to Financial Assurance), Paragraph 45 (Community Involvement Plan) including, but not limited to, the costs of any technical assistance grant under Section 117(e) of CERCLA, 42 U.S.C. § 9617(e), Section XV (Dispute Resolution), and all litigation costs. Future Response Costs shall also include Agency for Toxic Substances and Disease Registry (ATSDR) costs regarding the Site.

"Interest" shall mean interest at the rate specified for interest on investments of the EPA Hazardous Substance Superfund established by 26 U.S.C. § 9507, compounded annually on October 1 of each year, in accordance with 42 U.S.C. § 9607(a). The applicable rate of interest shall be the rate in effect at the time the interest accrues. The rate of interest is subject to change on October 1 of each year. Rates are available online at https://www.epa.gov/superfund/superfund-interest-rates.

"National Contingency Plan" or "NCP" shall mean the National Oil and Hazardous Substances Pollution Contingency Plan promulgated pursuant to Section 105 of CERCLA, 42 U.S.C. § 9605, codified at 40 C.F.R. Part 300, and any amendments thereto.

"Paragraph" shall mean a portion of this Settlement identified by an Arabic numeral or an upper or lower case letter.

"Parties" shall mean EPA and Respondent.

"Post-Removal Site Control" shall mean actions, if any, necessary to ensure the effectiveness and integrity of the removal action to be performed pursuant to this Settlement consistent with Sections 300.415(*l*) and 300.5 of the NCP and "Policy on Management of Post-Removal Site Control" (OSWER Directive No. 9360.2-02, Dec. 3, 1990).

"RCRA" shall mean the Solid Waste Disposal Act, as amended, 42 U.S.C. §§ 6901-6992 (also known as the Resource Conservation and Recovery Act).

"Respondent" shall mean Columbia Falls Aluminum Company, LLC.

"Section" shall mean a portion of this Settlement identified by a Roman numeral.

"Settlement" shall mean this Administrative Settlement Agreement and Order on Consent and all appendices attached hereto (listed in Section XXIX (Integration/Appendices)). In the event of conflict between this Settlement and any appendix, this Settlement shall control.

"Site" shall mean the Anaconda Aluminum Co. Columbia Falls Reduction Plant a/k/a Columbia Falls Aluminum Plant Superfund Site, located near Columbia Falls in Flathead County, Montana and depicted generally on the map attached as Appendix A.

"State" shall mean the State Montana.

"Statement of Work" or "SOW" shall mean the document describing the activities Respondent must perform to implement the removal action pursuant to this Settlement, as set forth in Appendix B, and any modifications made thereto in accordance with this Settlement.

"Transfer" shall mean to sell, assign, convey, lease, mortgage, or grant a security interest in, or where used as a noun, a sale, assignment, conveyance, or other disposition of any interest by operation of law or otherwise.

"United States" shall mean the United States of America and each department, agency, and instrumentality of the United States, including EPA.

"Waste Material" shall mean (a) any "hazardous substance" under Section 101(14) of CERCLA, 42 U.S.C. § 9601(14); (b) any pollutant or contaminant under Section 101(33) of CERCLA, 42 U.S.C. § 9601(33); (c) any "solid waste" under Section 1004(27) of RCRA, 42 U.S.C. § 6903(27); and (d) any "hazardous material" under State law.

"Work" shall mean all activities and obligations Respondent is required to perform under this Settlement except those required by Section XI (Record Retention).

IV. FINDINGS OF FACT

9. The Site is generally located approximately two miles northeast of Columbia Falls, Flathead County, Montana, in Township 3N, Range 20W, and includes all or a portion of Sections 2, 3, 4, 33, 34, and 35 and may include other sections.

10. The former operational area of the Site covers approximately 953 acres. In general, the operational area of the Site lies north of the Flathead River, west of Teakettle Mountain, south of Cedar Creek Reservoir, and east of Cedar Creek.

11. The Site contained an aluminum smelting or reduction facility that produced aluminum in carbon-lined "pots" heated to 960 degrees Celsius. Aluminum oxide was dissolved in a molten cryolite bath and was reduced to aluminum metal by electrons from direct current through the pot. The molten aluminum was then tapped from the pot and cast into ingots.

12. Features of the Site include, but are not limited to, percolation ponds, closed leachate ponds, a closed sludge pond, closed landfills, and an operational industrial landfill.

13. The South Percolation Ponds are a series of three ponds located in the southeastern area of the Site adjacent to the Flathead River and within its channel migration zone. These ponds are connected in series and encompass a total area of 10.2 acres.

14. The South Percolation Ponds were created in the 1960s through the damming of a side channel of the Flathead River and construction of the Ponds in the former river channel.

15. The South Percolation Ponds are connected to the rest of the Site through a concrete pipe located on the west end of the three ponds.

16. During Site operations, the South Percolation Ponds received storm water runoff, sewage treatment plant water, aluminum casting contact chilling water, non-contact cooling water from the rectifier, process wastewater from casting mold cleaning and steam cleaning, and non-process waste water from fabrication shop steam cleaning.

17. With the cessation of Site operations, the South Percolation Ponds now receive only storm water.

18. The dam that created the South Percolation Ponds severely erodes every high water season and requires Respondent to perform regular shoring, maintenance and construction to prevent the Flathead River from eroding away the South Percolation Ponds.

19. In the high water seasons of 2016, 2017 and 2018, the Flathead River either inundated the South Percolation Ponds or severely damaged the eastern end of the dam that created the Ponds requiring Respondent to install new barriers or shore up the existing dam so that the Flathead River did not wash away the Ponds.

20. In response to this erosion, in 2016, Respondent installed a sheet pile wall along the inside wall of the eastern part of the dam.

21. In the high water season of 2017, the Flathead River caused significant erosion on the eastern end of the damn.

22. In 2017 and 2018, Respondent constructed a rip rap wall approximately 10 feet inland from the then existing bank of the South Percolation Ponds dam.

23. In 2018, the high water of the Flathead River eroded the South Percolation Ponds dam up to the rip rap wall.

24. The reach of the Flathead River adjacent to the South Ponds is highly dynamic and its thalweg is migrating to the north, toward the South Percolation Ponds. As the Flathead River moves north during high water season, it will place increasing pressure on the dam, sheet pile wall, and the rip rap wall that Respondent has installed to attempt to maintain the South Percolation Ponds.

25. On November 30, 2015, EPA and Respondent entered into an Administrative Settlement Agreement and Order on Consent to perform Remedial Investigation and Feasibility Study ("RI/FS") for the Site ("AOC RI/FS") CERLCA Docket No. 08-2016-0002.

26. On September 9, 2016, EPA added the Site to the National Priorities List ('NPL") pursuant to CERCLA Section 105, 42 U.S.C. §9605 (82 FR 62397).

27. EPA issued a letter dated February 27, 2020 approving Respondent's final Remedial Investigation Report ("RIR") for the Site prepared pursuant to the AOC RI/FS and dated February 21, 2020.

28. On April 28, 2020, EPA approved Respondent's proposed Feasibility Study Work Plan ("FSWP") for the Site prepared pursuant to the AOC RI/FS.

29. The South Percolation Ponds are part of the River Area Decision Unit ("RADU") as defined in the FSWP.

30. The South Percolation Ponds sediments contain only barium at concentrations that exceed ecological Preliminary Remedial Goals developed by Respondent for the Site.

31. At page 137, the RIR states, "[t]he potential for adverse effects associated with constituents in media in the South Percolation Ponds is considered minimal under dry scenarios but moderate under inundated scenarios due to potential adverse effects associated with direct contact with cyanide, metals, and PAHs in surface water. During periods of inundation, exposure to cyanide and select metals in surface water has the greatest potential for adverse effects to temporary aquatic communities via direct contact exposure pathways."

V. CONCLUSIONS OF LAW AND DETERMINATIONS

32. Based on the Findings of Fact set forth above, and the administrative record, EPA has determined that:

a. The Anaconda Aluminum Co. Columbia Falls Reduction Plant a/k/a Columbia Falls Aluminum Plant Site is a "facility" as defined by Section 101(9) of CERCLA, 42 U.S.C. § 9601(9).

b. The contamination found at the Site, as identified in the Findings of Fact above, includes "hazardous substances" as defined by Section 101(14) of CERCLA, 42 U.S.C. § 9601(14).

c. Respondent is a "person" as defined by Section 101(21) of CERCLA, 42 U.S.C. § 9601(21).

d. Respondent is a responsible party under Section 107(a) of CERCLA, 42 U.S.C. § 9607(a).

(1) Respondent is the "owner" and/or "operator" of the facility, as defined by Section 101(20) of CERCLA, 42 U.S.C. § 9601(20), and within the meaning of Section 107(a)(1) of CERCLA, 42 U.S.C. § 9607(a)(1).

e. The conditions described in Paragraphs 9-31 of the Findings of Fact above constitute an actual or threatened "release" of a hazardous substance from the facility as defined by Section 101(22) of CERCLA, 42 U.S.C. § 9601(22).

f. The removal action required by this Settlement is necessary to protect the public health, welfare, or the environment and, if carried out in compliance with the terms of this Settlement, will be consistent with the NCP, as provided in Section 300.700(c)(3)(ii) of the NCP.

VI. SETTLEMENT AGREEMENT AND ORDER

33. Based upon the Findings of Fact, Conclusions of Law, and Determinations set forth above, and the administrative record, it is hereby Ordered and Agreed that Respondent shall comply with all provisions of this Settlement, including, but not limited to, all appendices to this Settlement and all documents incorporated by reference into this Settlement.

VII. DESIGNATION OF CONTRACTOR, PROJECT COORDINATOR, AND ON-SCENE COORDINATOR

34. Respondent has retained the contractors Roux Environmental Engineering and Geology, DPC ("Roux") and Morrison-Maierle, Inc. to perform the Work. Respondent shall notify EPA of the names, titles, contact information, and qualifications of any other contractors or subcontractors retained to perform the Work at least 14 days prior to commencement of such Work. EPA retains the right to disapprove of any or all of the contractors and/or subcontractors retained by Respondent. If EPA disapproves of a selected contractor or subcontractor, Respondent shall retain a different contractor or subcontractor and shall notify EPA of that contractor's or subcontractor's name, title, contact information, and qualifications within 30 days after EPA's disapproval. With respect to any proposed contractor, Respondent shall demonstrate that the proposed contractor demonstrates compliance with ASQ/ANSI E4:2014 "Quality management systems for environmental information and technology programs – Requirements with guidance for use" (American Society for Quality, February 2014), by submitting a copy of the proposed contractor's Quality Management Plan (QMP). The QMP should be prepared in accordance with "EPA Requirements for Quality Management Plans (QA/R-2)" (EPA/240/B-01/002, Reissued May 2006) or equivalent documentation as determined by EPA. The qualifications of the persons undertaking the Work for Respondent shall be subject to EPA's review for verification based on objective assessment criteria (e.g., experience, capacity, technical expertise) and that they do not have a conflict of interest with respect to the project.

35. Respondent has designated, and EPA has not disapproved, the following individual as Project Coordinator, who shall be responsible for administration of all actions by Respondent required by this Settlement: Steve Wright, 2000 Aluminum Drive, Columbia Falls, MT 55192, (406) 892-8221, swright@cfaluminum.com. To the greatest extent possible, the Project Coordinator shall be present on Site or readily available during Site work. EPA retains the right to disapprove of the designated Project Coordinator who does not meet the requirements of Paragraph 34. If EPA disapproves of the designated Project Coordinator, Respondent shall retain a different Project Coordinator and shall notify EPA of that person's name, title, contact information, and qualifications within 14 days following EPA's disapproval. Notice or communication relating to this Settlement from EPA to Respondent's Project Coordinator shall constitute notice or communication to Respondent.

36. EPA has designated Mike Cirian of Region 8 as its "Remedial Project Manager" (RPM). DEQ has designated Richard Sloan as its "State Project Officer." EPA, DEQ, and Respondent shall have the right, subject to Paragraph 35, to change their respective designated RPM, State Project Officer, or Project Coordinator. Respondent shall notify EPA and DEQ 30 days before such a change is made. The initial notification by Respondent may be made orally,

but shall be promptly followed by a written notice. EPA and DEQ shall promptly notify Respondent of a change in its designated RPM or State Project Officer.

37. The RPM shall be responsible for overseeing Respondent's implementation of this Settlement. The RPM shall have the authority vested in a RPM or an OSC by the NCP, including the authority to halt, conduct, or direct any Work required by this Settlement, or to direct any other removal action undertaken at the Site. Absence of the RPM from the Site shall not be cause for stoppage of work unless specifically directed by the RPM.

VIII. WORK TO BE PERFORMED

38. Respondent shall perform, at a minimum, all actions necessary to implement the Statement of Work ("SOW"). The actions to be implemented generally include, but are not limited to, the following:

a. Pre-Phase I activities consisting of 1) drafting conceptual design for the repository, haul road, soil and sediment removal, sheet pile and riprap removal; and 2) performing wetland delineation, mapping stream ordinary high-water mark and performing habitat and wildlife survey, topographic survey and preliminary Endangered Species Act ("ESA") consultation;

b. Phase I activities consisting of 1) planning for construction logistics; 2) soliciting stakeholder input for Phase I construction, including Phase I ESA consultation and EPA review; 3) finalizing the design for the repository grading and interim closure, the haul road and soil and sediment removal; 4) confirming wetland delineation boundaries; 5) disconnecting the existing concrete influent pipe at the west end of the South Percolation Ponds; 6) constructing the repository and the haul road; and 7) removing soil and sediment from the South Percolation Ponds;

c. Phase II consisting of 1) soliciting stakeholder input for Phase I construction, including Phase II ESA consultation and EPA review; 2); finalizing the design for sheet pile wall and riprap removal; 3) grading of repository and interim closure in preparation for final closure of the repository during site remediation and conducting site survey update for Post-Removal Site Control; 4) removing the South Percolation Ponds dam, sheet pile wall and rip rap wall, the well house, the two former production wells, monitoring wells, and other materials necessary to allow the Flathead River to take its natural course through the South Percolation Ponds area and the RADU; and

d. Within 60 days of the Effective Date, perform an initial assessment of ground water seeps on the bank of the Flathead River above the South Percolation Ponds. Perform such assessment each spring, summer and fall after the Effective Date for the duration of the Removal Action, comparing the results of such subsequent assessments to the initial assessment. For each seep identified in such subsequent assessments that has a reasonable likelihood of discharging directly to the Flathead River, implement interim measures selected in consultation with the RPM, after reasonable opportunity for comment by DEQ, that consist of straw bales, straw waddles, or a temporary ditch or any combination thereof. If such interim

measures do not prevent discharge to the Flathead River to the satisfaction of the RPM, sample the seep water prior to its discharge to the Flathead River. If such sampling of seep water shows concentrations of Contaminants of Potential Concern ("COPC") above applicable surface water Preliminary Remediation Goals ("PRGs") as defined in Respondent's EPA-approved Feasibility Study Work Plan, sample surface water stations CFSWP-002 and CFSWP-035 in the Flathead River Area as defined in Respondent's EPA- approved Remedial Investigation Report. If such sampling of surface water in the Flathead River Area shows concentrations of COPCs above applicable PRGs, determine in consultation with the RPM, after reasonable opportunity for comment by DEQ, whether additional interim measures are needed to address such seepage.

39. In consultation with the RPM, Respondent shall conduct outreach to interested stakeholders, including interested federal, state and local governmental agencies, to consult with them regarding the Work to be performed under Paragraph 38.

40. For any regulation or guidance referenced in the Settlement, 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 Respondent receives notification from EPA of the modification, amendment, or replacement.

41. **Work Plan and Implementation**

a. Within 60 days after the Effective Date, in accordance with Paragraph 42 (Submission of Deliverables), Respondent shall submit to EPA for approval a draft work plan for performing the removal action (the "Removal Work Plan") generally described in Paragraph 38 above. The draft Removal Work Plan shall provide a description of, and an expeditious schedule for, the actions required by this Settlement.

b. EPA, after reasonable opportunity to review and comment by DEQ, may approve, disapprove, require revisions to, or modify the draft Removal Work Plan in whole or in part. If EPA requires revisions, Respondent shall submit a revised draft Removal Work Plan within 30 days after receipt of EPA's notification of the required revisions. Respondent shall implement the Removal Work Plan as approved in writing by EPA in accordance with the schedule approved by EPA. Once approved, or approved with modifications, the Removal Work Plan, the schedule, and any subsequent modifications shall be incorporated into and become fully enforceable under this Settlement.

c. Upon approval or approval with modifications of the Removal Work Plan Respondent shall commence implementation of the Work in accordance with the schedule included therein. Respondent shall not commence or perform any Work except in conformance with the terms of this Settlement.

d. Unless otherwise provided in this Settlement, any additional deliverables that require EPA approval under the Removal Work Plan shall be reviewed and approved by EPA, after reasonable opportunity for review and comment by DEQ, in accordance with this Paragraph.

42. **Submission of Deliverables**

a. **General Requirements for Deliverables**

(1) Except as otherwise provided in this Settlement, Respondent shall direct all submissions required by this Settlement to the RPM and State Project Officer as follows: (1) send submissions electronically to RPM Mike Cirian at cirian.mike@epa.gov, EPA's alternate RPM Ken Champagne at champagne.kenneth@epa.gov, and State Project Officer Richard Sloan at RSLoan@mt.gov; and (2) send two paper copies of the deliverables in the Removal Work Plan to the RPM at EPA Information Center, 108 E. 9th Street, Libby, MT 59923, and one paper copy to Mr. Champagne at EPA Region 8's Montana Operations Office, Federal Building, 10 W. 15th Street, Suite 3200, Helena, MT 59626. Respondent shall submit all deliverables required by this Settlement, the Removal Work Plan, or any approved work plan to EPA in accordance with the schedule set forth in such plan.

(2) Respondent shall submit all deliverables to the RPM and State Project Officer as follows: (1) send submissions electronically to the RPM at cirian.mike@epa.gov, EPA's alternate RPM at champagne.kenneth@epa.gov, and State Project Officer Richard Sloan at RSLoan@mt.gov; and (2) send one paper copy of the deliverables in the Work Plan to the RPM at EPA Information Center, 108 E. 9th Street, Libby, MT 59923. Respondent shall also send one paper copy to Mr. Champagne at EPA Region 8's Montana Operations Office, Federal Building, 10 W. 15th Street, Suite 3200, Helena, MT 59626. Technical specifications for sampling and monitoring data and spatial data are addressed in Paragraph 42.b. All other deliverables shall be submitted to EPA in the form specified by the RPM.

b. **Technical Specifications for Deliverables**

(1) Sampling and monitoring data should be submitted in standard Regional Electronic Data Deliverable (EDD) format prescribed in the Removal Work Plan. 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: (a) in the ESRI File Geodatabase format or Regionally-preferred spatial file format specified in the Removal Work Plan; and (b) 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 https://www.epa.gov/geospatial/geospatial-policies-and-standards for any further available guidance on attribute identification and naming.

(4) Spatial data submitted by Respondent does not, and is not intended to, define the boundaries of the Site.

43. **Health and Safety Plan.** Respondent previously prepared a Health and Safety Plan for the remedial investigation and feasibility study. Within 30 days after the Effective Date, Respondent shall submit for EPA review and comment an amended Health and Safety Plan that ensures the protection of the public health and safety during performance of on-site work under this Settlement. This amended plan shall be prepared in accordance with "OSWER Integrated Health and Safety Program Operating Practices for OSWER Field Activities," Pub. 9285.0-OlC (Nov. 2002), available on the NSCEP database at https://www.epa.gov/nscep, and "EPA's Emergency Responder Health and Safety Manual," OSWER Directive 9285.3-12 (July 2005 and updates), available at https://www.epaosc.org/_HealthSafetyManual/manual-index.htm. In addition, the plan shall comply with all currently applicable Occupational Safety and Health Administration (OSHA) regulations found at 29 C.F.R. Part 1910. If EPA determines that it is appropriate, the plan shall also include contingency planning. Respondent shall incorporate all changes to the plan recommended by EPA and shall implement the plan during the pendency of the removal action.

44. **Quality Assurance, Sampling, and Data Analysis**

a. Respondent shall use quality assurance, quality control, and other technical activities and chain of custody procedures for all samples consistent with "EPA Requirements for Quality Assurance Project Plans (QA/R5)" EPA/240/B-01/003 (March 2001, reissued May 2006), "Guidance for Quality Assurance Project Plans (QA/G-5)" EPA/240/R-02/009 (December 2002), and "Uniform Federal Policy for Quality Assurance Project Plans," Parts 1-3, EPA/505/B-04/900A-900C (March 2005).

b. Within 60 days after the Effective Date, Respondent shall submit a Sampling and Analysis Plan to include this Work to DEQ for review and comment and to EPA for review and approval. This plan shall consist of a Field Sampling Plan (FSP) and a Quality Assurance Project Plan (QAPP) that is consistent with the Removal Work Plan, the NCP and applicable guidance documents, including, but not limited to, "Guidance for Quality Assurance Project Plans (QA/G-5)" EPA/240/R-02/009 (December 2002), "EPA Requirements for Quality Assurance Project Plans (QA/R-5)" EPA 240/B-01/003 (March 2001, reissued May 2006), and "Uniform Federal Policy for Quality Assurance Project Plans," Parts 1-3, EPA/505/B-04/900A-

900C (March 2005). Upon its approval by EPA, the Sampling and Analysis Plan shall be incorporated into and become enforceable under this Settlement.

c. Respondent shall ensure that EPA and DEQ personnel and their authorized representatives are allowed access at reasonable times to all laboratories utilized by Respondent in implementing this Settlement. In addition, Respondent shall ensure that all laboratories utilized by Respondent shall analyze all samples submitted by EPA pursuant to the QAPP for quality assurance, quality control, and technical activities that will satisfy the stated performance criteria as specified in the QAPP and that sampling and field activities are conducted in accordance with the Agency's "EPA QA Field Activities Procedure," CIO 2105-P-02.1 (9/23/2014) available at http://www.epa.gov/irmpoli8/epa-qa-field-activities-procedures. Respondent shall ensure that the laboratories it utilizes for the analysis of samples taken pursuant to this Settlement meet the competency requirements set forth in EPA's "Policy to Assure Competency of Laboratories, Field Sampling, and Other Organizations Generating Environmental Measurement Data under Agency-Funded Acquisitions" available at http://www.epa.gov/measurements/documents-about-measurement-competency-under-acquisition-agreements and that the laboratories perform all analyses according to accepted EPA methods. Accepted EPA methods consist of, but are not limited to, methods that are documented in the EPA's Contract Laboratory Program (http://www.epa.gov/clp), SW 846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (https://www.epa.gov/hw-sw846), "Standard Methods for the Examination of Water and Wastewater" (http://www.standardmethods.org/), 40 C.F.R. Part 136, "Air Toxics - Monitoring Methods" (http://www3.epa.gov/ttnamti1/airtox.html).

d. However, upon approval by EPA, after reasonable opportunity for review and comment by DEQ, Respondent may use other appropriate analytical method(s), as long as (i) quality assurance/quality control (QA/QC) criteria are contained in the method(s) and the method(s) are included in the QAPP, (ii) the analytical method(s) are at least as stringent as the methods listed above, and (iii) the method(s) have been approved for use by a nationally recognized organization responsible for verification and publication of analytical methods, e.g., EPA, ASTM, NIOSH, OSHA, etc. Respondent shall ensure that all laboratories it uses for analysis of samples taken pursuant to this Settlement have a documented Quality System that complies with ASQ/ANSI E4:2014 "Quality management systems for environmental information and technology programs - Requirements with guidance for use" (American Society for Quality, February 2014), and "EPA Requirements for Quality Management Plans (QA/R-2)" EPA/240/B-01/002 (March 2001, reissued May 2006), or equivalent documentation as determined by EPA. EPA may consider Environmental Response Laboratory Network (ERLN) laboratories, laboratories accredited under the National Environmental Laboratory Accreditation Program (NELAP), or laboratories that meet International Standardization Organization (ISO 17025) standards or other nationally recognized programs as meeting the Quality System requirements. Respondent shall ensure that all field methodologies utilized in collecting samples for subsequent analysis pursuant to this Settlement are conducted in accordance with the procedures set forth in the QAPP approved by EPA.

e. Upon request, Respondent shall provide split or duplicate samples to EPA and DEQ or their authorized representatives. Respondent shall notify EPA and DEQ not less

than 7 days in advance of any sample collection activity unless shorter notice is agreed to by EPA. In addition, EPA and DEQ shall have the right to take any additional samples that EPA or the State deem necessary. Upon request, EPA and DEQ shall provide to Respondent split or duplicate samples of any samples it takes as part of EPA's oversight of Respondent's implementation of the Work.

f. Respondent shall submit to EPA and DEQ the results of all sampling and/or tests or other data obtained or generated by or on behalf of Respondent with respect to the Site and/or the implementation of this Settlement.

g. Respondent waives any objections to any data gathered, generated, or evaluated by EPA, DEQ or Respondent in the performance or oversight of the Work that has been verified according to the QA/QC procedures required by the Settlement or any EPA-approved Work Plans or Sampling and Analysis Plans. If Respondent objects to any other data relating to the Work, Respondent shall submit to EPA and DEQ a report that specifically identifies and explains its objections, describes the acceptable uses of the data, if any, and identifies any limitations to the use of the data. The report must be submitted to EPA and DEQ within 15 days after the monthly progress report containing the data.

45. **Community Involvement Plan**. EPA will prepare an updated community involvement plan to address the Work, in accordance with EPA guidance and the NCP. If requested by EPA, Respondent 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. Respondent's 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. All community involvement activities conducted by Respondent at EPA's request are subject to EPA's oversight. Upon EPA's request, Respondent shall establish a community information repository at or near the Site to house one copy of the administrative record.

46. **Post-Removal Site Control**. In accordance with the Removal Work Plan schedule, or as otherwise directed by EPA, Respondent shall submit a proposal for Post-Removal Site Control which shall include, but not be limited to: temporary signage and fencing to discourage trespassers. Upon EPA approval, Respondent shall either conduct Post-Removal Site Control activities, or obtain a written commitment from another party for conduct of such activities, until such time as EPA determines, after reasonable opportunity for comment by DEQ, that no further Post-Removal Site Control is necessary. Respondent shall provide EPA and DEQ with documentation of all Post-Removal Site Control commitments.

47. **Progress Reports**. Respondent shall submit a written progress report to EPA and DEQ concerning actions undertaken pursuant to this Settlement on a bi-weekly basis during field activities and on a quarterly basis in the absence of field activities, or as otherwise requested by EPA, from the date of receipt of EPA's approval of the Removal Work Plan until issuance of

Notice of Completion of Work pursuant to Section XXVIII, unless otherwise directed in writing by the RPM. These reports shall describe all significant developments during the preceding period, including the actions performed and any problems encountered, analytical data received during the reporting period, and the developments anticipated during the next reporting period, including a schedule of actions to be performed, anticipated problems, and planned resolutions of past or anticipated problems.

48. **Final Report**. Within 30 days after completion of all Work required by this Settlement, other than continuing obligations listed in Paragraph 122 (Notice of Completion of Work), Respondent shall submit for DEQ review and comment and EPA review and approval a final report summarizing the actions taken to comply with this Settlement. The final report shall conform, at a minimum, with the requirements set forth in Section 300.165 of the NCP entitled "OSC Reports." The final report shall include a good faith estimate of total costs or a statement of actual costs incurred in complying with the Settlement, a listing of quantities and types of materials removed off-Site or handled on-Site, a discussion of removal and disposal options considered for those materials, a listing of the ultimate destination(s) of those materials, a presentation of the analytical results of all sampling and analyses performed, and accompanying appendices containing all relevant documentation generated during the removal action (e.g., manifests, invoices, bills, contracts, and permits). The final report shall also include the following certification signed by a responsible corporate official of Respondent's Project Coordinator: "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."

49. **Off-Site Shipments**

a. Respondent may ship hazardous substances, pollutants and contaminants from the Site to an off-Site facility only if it complies with Section 121(d)(3) of CERCLA, 42 U.S.C. § 9621(d)(3), and 40 C.F.R. § 300.440. Respondent will be deemed to be in compliance with CERCLA Section 121(d)(3) and 40 C.F.R. § 300.440 regarding a shipment if Respondent obtains 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).

b. Respondent may ship Waste Material from the Site to an out-of-state waste management facility only if, prior to any shipment, it provides written notice to the appropriate state environmental official in the receiving facility's state and to the RPM. This written notice requirement shall not apply to any off-Site shipments when the total quantity of all such shipments will not exceed ten cubic yards. The written 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. Respondent also shall notify the state environmental official referenced above and the RPM of any major changes in the shipment plan, such as a decision to ship the Waste Material to a different out-of-state facility. Respondent shall provide the written notice after the award of the contract for the removal action and before the Waste Material is shipped.

c. Respondent may ship Investigation Derived Waste (IDW) from the Site to an off-Site facility only if it complies 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 Action Memorandum. Wastes shipped off-Site to a laboratory for characterization, and RCRA hazardous wastes that meet the requirements for an exemption from RCRA under 40 C.F.R. § 261.4(e) shipped off-Site for treatability studies, are not subject to 40 C.F.R. § 300.440.

IX. PROPERTY REQUIREMENTS

50. **Agreements Regarding Access and Non-Interference.** Respondent shall: (i) provide the EPA, the State, and their representatives, contractors, and subcontractors with access at all reasonable times to the Site to conduct any activity regarding the Settlement, including those activities listed in Paragraph 50.a (Access Requirements); and (ii) refrain from using the Site in any manner that EPA determines will pose an unacceptable risk to human health or to the environment due to exposure to Waste Material, or interfere with or adversely affect the implementation, integrity, or protectiveness of the removal action, including the restrictions listed in Paragraph 50.b (Land, Water, or Other Resource Use Restrictions).

a. **Access Requirements**. The following is a list of activities for which access is required regarding the Site:

(1) Monitoring the Work;

(2) Installing temporary signage and fencing;

(3) Verifying any data or information submitted to the United States or the State;

(4) Conducting investigations regarding contamination at or near the Site;

(5) Obtaining samples;

(6) Assessing the need for, planning, implementing, or monitoring response actions;

(7) Assessing implementation of quality assurance and quality control practices as defined in the approved quality assurance quality control plan required by the Removal Work Plan;

(8) Implementing the Work pursuant to the conditions set forth in Paragraph 94 (Work Takeover);

(9) Inspecting and copying records, operating logs, contracts, or other documents maintained or generated by Respondent or its agents, consistent with Section X (Access to Information);

(10) Assessing Respondent's compliance with the Settlement;

(11) Determining whether the Site is being used in a manner that is prohibited or restricted, or that may need to be prohibited or restricted under the Settlement; and

(12) Implementing, monitoring, maintaining, reporting on, and enforcing any land, water, or other resource use restrictions regarding the Site.

b. **Land, Water, or Other Resource Use Restrictions**. The following is a list of land, water, or other resource use restrictions applicable to the Affected Property:

(1) Prohibiting trespass which could interfere with the removal action through the installation of temporary signage and fencing.

51. **Best Efforts**. As used in this Section, "best efforts" means the efforts that a reasonable person in the position of Respondent would use so as to achieve the goal in a timely manner, including the cost of employing professional assistance and the payment of reasonable sums of money to secure access and/or use restriction agreements, as required by this Section. If Respondent is unable to accomplish what is required through "best efforts" in a timely manner, it shall notify EPA, and include a description of the steps taken to comply with the requirements. If EPA deems it appropriate, it may assist Respondent, or take independent action, in obtaining such access and/or use restrictions. All costs incurred by the United States in providing such assistance or taking such action, including the cost of attorney time and the amount of monetary consideration or just compensation paid, constitute Future Response Costs to be reimbursed under Section XIV (Payment of Response Costs).

52. If EPA determines in a decision document prepared in accordance with the NCP that institutional controls in the form of state or local laws, regulations, ordinances, zoning restrictions, or other governmental controls or notices are needed, Respondent shall cooperate with EPA's and the State's efforts to secure and ensure compliance with such institutional controls.

53. In the event of any Transfer of the Site, unless EPA otherwise consents in writing, Respondent shall continue to comply with their obligations under the Settlement, and shall use best efforts to secure access and ensure compliance with any land, water, or other resource use restrictions regarding the Site.

54. Notwithstanding any provision of the Settlement, EPA and the State retain all of their access authorities and rights, as well as all of their rights to require land, water, or other

resource use restrictions, including enforcement authorities related thereto under CERCLA, RCRA, and any other applicable statute or regulations.

X. ACCESS TO INFORMATION

55. Respondent shall provide to EPA and the State, upon request, copies of all records, reports, documents, and other information (including records, reports, documents, and other information in electronic form) (hereinafter referred to as "Records") within Respondent's possession or control or that of its contractors or agents relating to activities at the Site or to the implementation of this Settlement, including, but not limited to, sampling, analysis, chain of custody records, manifests, trucking logs, receipts, reports, sample traffic routing, correspondence, or other documents or information regarding the Work. Respondent shall also make available to EPA and the State, for purposes of investigation, information gathering, or testimony, their employees, agents, or representatives with knowledge of relevant facts concerning the performance of the Work.

56. **Privileged and Protected Claims**

a. Respondent may assert all or part of a Record requested by EPA or the State is privileged or protected as provided under federal law, in lieu of providing the Record, provided Respondent complies with Paragraph 56.b, and except as provided in Paragraph 56.c.

b. If Respondent asserts such a privilege or protection, it shall provide EPA and the State with the following information regarding such Record: its title; its date; the name, title, affiliation (e.g., company or firm), and address of the author, of each addressee, and of each recipient; a description of the Record's contents; and the privilege or protection asserted. If a claim of privilege or protection applies only to a portion of a Record, Respondent shall provide the Record to EPA and the State in redacted form to mask the privileged or protected portion only. Respondent shall retain all Records that it claims to be privileged or protected until EPA and the State have had a reasonable opportunity to dispute the privilege or protection claim and any such dispute has been resolved in Respondent's favor.

c. Respondent may make no claim of privilege or protection regarding: (1) any data regarding the Site, including, but not limited to, all sampling, analytical, monitoring, hydrogeologic, scientific, chemical, radiological, or engineering data, or the portion of any other Record that evidences conditions at or around the Site generated pursuant to the requirements of this Settlement Agreement; or (2) the portion of any Record that Respondent is required to create or generate pursuant to this Settlement.

57. **Business Confidential Claims**. Respondent may assert that all or part of a Record provided to EPA and the State under this Section or Section XI (Record Retention) is business confidential to the extent permitted by and in accordance with Section 104(e)(7) of CERCLA, 42 U.S.C. § 9604(e)(7), and 40 C.F.R. § 2.203(b). Respondent shall segregate and clearly identify all Records or parts thereof submitted under this Settlement for which Respondent asserts business confidentiality claims. Records that Respondent claims to be confidential business information will be afforded the protection specified in 40 C.F.R. Part 2,

Subpart B. If no claim of confidentiality accompanies Records when they are submitted to EPA and the State, or if EPA has notified Respondent that the Records are not confidential under the standards of Section 104(e)(7) of CERCLA or 40 C.F.R. Part 2, Subpart B, the public may be given access to such Records without further notice to Respondent.

58. Notwithstanding any provision of this Settlement, EPA and the State retain all of their information gathering and inspection authorities and rights, including enforcement actions related thereto, under CERCLA, RCRA, and any other applicable statutes or regulations.

XI. RECORD RETENTION

59. Until ten (10) years after EPA provides Respondent with notice, pursuant to Section XXVIII (Notice of Completion of Work), that all Work has been fully performed in accordance with this Settlement, Respondent shall preserve and retain all non-identical copies of Records (including Records in electronic form) now in their possession or control, or that come into their possession or control, that relate in any manner to their liability under CERCLA with regard to the Site, provided, however, that a Respondent who is potentially liable as an owner or operator of the Site must retain, in addition, all Records that relate to the liability of any other person under CERCLA with respect to the Site. Respondent must also retain, and instruct its contractors and agents to preserve, for the same period of time specified above all non-identical copies of the last draft or final version of any Records (including Records in electronic form) now in their possession or control or that come into their possession or control that relate in any manner to the performance of the Work, provided, however, that Respondent (and its contractors and agents) must retain, in addition, copies of all data generated during the performance of the Work and not contained in the aforementioned Records required to be retained. Each of the above record retention requirements shall apply regardless of any corporate retention policy to the contrary.

60. At the conclusion of the document retention period, Respondent shall notify EPA and the State at least 90 days prior to the destruction of any such Records, and, upon request by EPA or the State, and except as provided in Paragraph 56 (Privileged and Protected Claims), Respondent shall deliver any such Records to EPA or the State.

61. Respondent certifies that, to the best of its knowledge and belief, after thorough inquiry, it has not altered, mutilated, discarded, destroyed, or otherwise disposed of any Records (other than identical copies) relating to its potential liability regarding the Site since notification of potential liability by EPA or the State and that it has fully complied with any and all EPA and State requests for information regarding the Site pursuant to Sections 104(e) and 122(e) of CERCLA, 42 U.S.C. §§ 9604(e) and 9622(e), and Section 3007 of RCRA, 42 U.S.C. § 6927, and state law.

XII. COMPLIANCE WITH OTHER LAWS

62. Nothing in this Settlement limits Respondent's obligations to comply with the requirements of all applicable state and federal laws and regulations, except as provided in Section 121(e) of CERCLA, 42 U.S.C. § 9621(e), and 40 C.F.R. §§ 300.400(e) and 300.415(j).

In accordance with 40 C.F.R. § 300.415(j), all on-site actions required pursuant to this Settlement shall, to the extent practicable, as determined by EPA, considering the exigencies of the situation, attain applicable or relevant and appropriate requirements (ARARs) under federal environmental or state environmental or facility siting laws. Respondent shall include ARARs selected by EPA, after reasonable opportunity for comment by DEQ, in the Removal Work Plan.

63. No local, state, or federal permit shall be required for any portion of the Work conducted entirely on-site (i.e., within the areal extent of contamination or in very close proximity to the contamination and necessary for implementation of the Work), including studies, if the action is selected and carried out in compliance with Section 121 of CERCLA, 42 U.S.C. § 9621. Where any portion of the Work that is not on-site requires a federal or state permit or approval, Respondent shall submit timely and complete applications and take all other actions necessary to obtain and to comply with all such permits or approvals. Respondent may seek relief under the provisions of Section XVI (Force Majeure) for any delay in the performance of the Work resulting from a failure to obtain, or a delay in obtaining, any permit or approval required for the Work, provided that they have submitted timely and complete applications and taken all other actions necessary to obtain all such permits or approvals. This Settlement is not, and shall not be construed to be, a permit issued pursuant to any federal or state statute or regulation.

XIII. EMERGENCY RESPONSE AND NOTIFICATION OF RELEASES

64. **Emergency Response**. 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 that either constitutes an emergency situation or that may present an immediate threat to public health or welfare or the environment, Respondent shall immediately take all appropriate action to prevent, abate, or minimize such release or threat of release. Respondent shall take these actions in accordance with all applicable provisions of this Settlement, including, but not limited to, the Health and Safety Plan. Respondent shall also immediately notify the RPM or, in the event of his/her unavailability, the Regional Duty Officer at (303) 293-1788, and the State Project Officer of the incident or Site conditions. In the event that Respondent fails to take appropriate response action as required by this Paragraph, and EPA takes such action instead, Respondent shall reimburse EPA for all costs of such response action not inconsistent with the NCP pursuant to Section XIV (Payment of Response Costs).

65. **Release Reporting**. Upon the occurrence of any event during performance of the Work that Respondent is 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, Respondent shall immediately orally notify the RPM or, in the event of his/her unavailability, the Regional Duty Officer at (303) 293-1788, and the National Response Center at (800) 424-8802, and the State Project Officer. This reporting requirement is in addition to, and not in lieu of, reporting under Section 103 of CERCLA, 42 U.S.C. § 9603, and Section 304 of the Emergency Planning and Community Right-To-Know Act of 1986, 42 U.S.C. § 11004.

66. For any event covered under this Section, Respondent shall submit a written report to EPA and DEQ within 7 days after the onset of such event, setting forth the action or event that occurred and the measures taken, and to be taken, to mitigate any release or threat of release or endangerment caused or threatened by the release and to prevent the reoccurrence of such a release or threat of release.

XIV. PAYMENT OF RESPONSE COSTS

67. **Payment Instructions**

a. Upon written demand, Respondent shall pay EPA all Future Response Costs to be incurred in connection with this Order not inconsistent with the NCP. On a periodic basis, EPA will send Respondent a bill requiring payment of all Future Response Costs incurred by the United States with respect to this Order that includes a SORPIOS Report which includes direct and indirect costs incurred by EPA, its contractors, and the Department of Justice. Respondent shall make all payments within 60 days after receipt of each written demand requiring payment.

Payment shall be made to EPA on-line by www.mypay.gov. Pay.gov is the EPA's preferred method for receiving all payments due to the EPA, which accepts debit and credit cards and bank account ACH. On the www.Pay.gov main page, enter sfo 1.1 in the search field to obtain EPA's Miscellaneous Payment Form – Cincinnati Finance Center. Complete the form with the bill number, the due date, Site name 'Anaconda Aluminum Co. Columbia Falls Reduction Plant,' and Site/Spill ID Number 0822. Once the form is completed email an acknowledgement of payment to CINWD_AcctsReceivable@epa.gov.

Alternatively, Respondent may remit payment by Fedwire Electronic Funds Transfer (EFT) to:

For Fedwire EFT: Federal Reserve Bank of New York
ABA: 021030004
Account: 68010727
SWIFT address: FRNYUS33
Field Tag 4200: D 68010727 Environmental Protection Agency

and shall reference Site/Spill ID Number 0822 and the EPA docket number for this action.

68. At the time of payment, Respondent shall send notice that payment has been made to Shawn McCaffrey, Enforcement Specialist, U.S. EPA Region 8, Mailcode 8SEM-PA-C, 1595 Wynkoop, Denver CO 80202-1129, and to the EPA Cincinnati Finance Office by email at cinwd_acctsreceivable@epa.gov, or by mail to:

EPA Cincinnati Finance Office
26 W. Martin Luther King Drive
Cincinnati, Ohio 45268

Such notice shall reference Site/Spill ID Number A882 and the EPA docket number for this action.

69. **Payments for Future Response Costs**. Respondent shall pay to EPA all Future Response Costs not inconsistent with the NCP.

a. **Periodic Bills**. Respondent shall make all payments within 60 days after Respondent's receipt of each bill requiring payment, except as otherwise provided in Paragraph 71 (Contesting Future Response Costs), and in accordance with Paragraphs 67.a and 68 (Payments for Future Response Costs).

b. **Deposit of Future Response Costs Payments**. The total amount to be paid by Respondent pursuant to Paragraph 69.a (Periodic Bills) shall be deposited by EPA in the Columbia Falls Aluminum Plant Special Account to be retained and used to conduct or finance response actions at or in connection with the Site, or to be transferred by EPA to the EPA Hazardous Substance Superfund, provided, however, that EPA may deposit a Future Response Costs payment directly into the EPA Hazardous Substance Superfund if, at the time the payment is received, EPA estimates that the Columbia Falls Aluminum Plant Special Account balance is sufficient to address currently anticipated future response actions to be conducted or financed by EPA at or in connection with the Site. Any decision by EPA to deposit a Future Response Costs payment directly into the EPA Hazardous Substance Superfund for this reason shall not be subject to challenge by Respondent pursuant to the dispute resolution provisions of this Settlement or in any other forum.

70. **Interest**. In the event that any payment for Future Response Costs is not made by the date required, Respondent shall pay Interest on the unpaid balance. The Interest on Future Response Costs shall begin to accrue on the date of the bill The Interest shall accrue through the date of Respondent's payment. Payments of Interest made under this Paragraph shall be in addition to such other remedies or sanctions available to the United States by virtue of Respondent's failure to make timely payments under this Section, including but not limited to, payment of stipulated penalties pursuant to Section XVII (Stipulated Penalties).

71. **Contesting Future Response Costs**. Respondent may initiate the procedures of Section XV (Dispute Resolution) regarding payment of any Future Response Costs billed under Paragraph 69 (Payments for Future Response Costs) if it determines that EPA has made a mathematical error or included a cost item that is not within the definition of Future Response Costs, or if they believe EPA incurred excess costs as a direct result of an EPA action that was inconsistent with a specific provision or provisions of the NCP or this Settlement Agreement. To initiate such dispute, Respondent shall submit a Notice of Dispute in writing to the RPM within 60 days after receipt of the bill. Any such Notice of Dispute shall specifically identify the contested Future Response Costs and the basis for objection. If Respondent submits a Notice of Dispute, Respondent shall within the 60-day period, also as a requirement for initiating the dispute, (a) pay all uncontested Future Response Costs to EPA in the manner described in Paragraph 69, and (b) establish, in a duly chartered bank or trust company, an interest-bearing escrow account that is insured by the Federal Deposit Insurance Corporation (FDIC) and remit to that escrow account funds equivalent to the amount of the contested Future Response Costs.

Respondent shall send to the RPM a copy of the transmittal letter and check paying the uncontested Future Response Costs, and a copy of the correspondence that establishes and funds the escrow account, including, but not limited to, information containing the identity of the bank and bank account under which the escrow account is established as well as a bank statement showing the initial balance of the escrow account. If EPA prevails in the dispute, within 5 days after the resolution of the dispute, Respondent shall pay the sums due (with accrued interest) to EPA in the manner described in Paragraph 69. If Respondent prevails concerning any aspect of the contested costs, Respondent shall pay that portion of the costs (plus associated accrued interest) for which it did not prevail to EPA in the manner described in Paragraph 69. Respondent shall be disbursed any balance of the escrow account. The dispute resolution procedures set forth in this Paragraph in conjunction with the procedures set forth in Section XV (Dispute Resolution) shall be the exclusive mechanisms for resolving disputes under Respondent's obligation to reimburse EPA for its Future Response Costs.

XV. DISPUTE RESOLUTION

72. Unless otherwise expressly provided for in this Settlement, the dispute resolution procedures of this Section shall be the exclusive mechanism for resolving disputes arising under this Settlement. The Parties shall attempt to resolve any disagreements concerning this Settlement expeditiously and informally.

73. **Informal Dispute Resolution**. If Respondent objects to any EPA action taken pursuant to this Settlement, including billings for Future Response Costs, it shall send EPA a written Notice of Dispute describing the objection(s) within 60 days after such action. EPA and Respondent shall have 30 days from EPA's receipt of Respondent's Notice of Dispute to resolve the dispute through informal negotiations (the "Negotiation Period"). The Negotiation Period may be extended upon mutual agreement of the Parties. Any agreement reached by the Parties pursuant to this Section shall be in writing and shall, upon signature by the Parties, be incorporated into and become an enforceable part of this Settlement.

74. **Formal Dispute Resolution**. If the Parties are unable to reach an agreement within the Negotiation Period, Respondent shall, within 20 days after the end of the Negotiation Period, submit a statement of position to the RPM. EPA may, within 20 days thereafter, submit a statement of position. Thereafter, an EPA management official at the Division Director level or higher will issue a written decision on the dispute to Respondent. EPA's decision shall be incorporated into and become an enforceable part of this Settlement. Respondent shall fulfill the requirement that was the subject of the dispute in accordance with the agreement reached or with EPA's decision, whichever occurs.

75. Except as provided in Paragraph 71 (Contesting Future Response Costs) or as agreed by EPA, the invocation of formal dispute resolution procedures under this Section does not extend, postpone, or affect in any way any obligation of Respondent under this Settlement. Except as provided in Paragraph 84, stipulated penalties with respect to the disputed matter shall continue to accrue, but payment shall be stayed pending resolution of the dispute. Notwithstanding the stay of payment, stipulated penalties shall accrue from the first day of noncompliance with any applicable provision of this Settlement. In the event that Respondent

does not prevail on the disputed issue, stipulated penalties shall be assessed and paid as provided in Section XVII (Stipulated Penalties).

XVI. FORCE MAJEURE

76. "Force Majeure" for purposes of this Settlement, is defined as any event arising from causes beyond the control of Respondent, of any entity controlled by Respondent, or of Respondent's contractors that delays or prevents the performance of any obligation under this Settlement despite Respondent's best efforts to fulfill the obligation. The requirement that Respondent exercise "best efforts to fulfill the obligation" includes using best efforts to anticipate any potential force majeure and best efforts to address the effects of any potential force majeure (a) as it is occurring and (b) following the potential force majeure such that the delay and any adverse effects of the delay are minimized to the greatest extent possible. "Force majeure" does not include financial inability to complete the Work, or increased cost of performance.

77. If any event occurs or has occurred that may delay the performance of any obligation under this Settlement for which Respondent intend or may intend to assert a claim of force majeure, Respondent shall notify the RPM orally or, in his or her absence, the Director of the Superfund and Emergency Management Division, EPA Region 8, within 30 days of when Respondent first knew that the event might cause a delay. Within 30 days thereafter, Respondent shall provide in writing to EPA an explanation and description of the reasons for the delay; the anticipated duration of the delay; all actions taken or to be taken to prevent or minimize the delay; a schedule for implementation of any measures to be taken to prevent or mitigate the delay or the effect of the delay; Respondent's rationale for attributing such delay to a force majeure; and a statement as to whether, in the opinion of Respondent, such event may cause or contribute to an endangerment to public health or welfare, or the environment. Respondent shall include with any notice all available documentation supporting their claim that the delay was attributable to a force majeure. Respondent shall be deemed to know of any circumstance of which Respondent, any entity controlled by Respondent, or Respondent's contractors knew or should have known. Failure to comply with the above requirements regarding an event shall preclude Respondent from asserting any claim of force majeure regarding that event, provided, however, that if EPA, despite the late or incomplete notice, is able to assess to its satisfaction whether the event is a force majeure under Paragraph 76 and whether Respondent has exercised its best efforts under Paragraph 76, EPA may, in its unreviewable discretion, excuse in writing Respondent's failure to submit timely or complete notices under this Paragraph.

78. If EPA agrees that the delay or anticipated delay is attributable to a force majeure, the time for performance of the obligations under this Settlement that are affected by the force majeure will be extended by EPA for such time as is necessary to complete those obligations. An extension of the time for performance of the obligations affected by the force majeure shall not, of itself, extend the time for performance of any other obligation. If EPA does not agree that the delay or anticipated delay has been or will be caused by a force majeure, EPA will notify Respondent in writing of its decision. If EPA agrees that the delay is attributable to a force majeure, EPA will notify Respondent in writing of the length of the extension, if any, for performance of the obligations affected by the force majeure.

79. If Respondent elects to invoke the dispute resolution procedures set forth in Section XV (Dispute Resolution), it shall do so no later than 30 days after receipt of EPA's notice. In any such proceeding, Respondent shall have the burden of demonstrating by a preponderance of the evidence that the delay or anticipated delay has been or will be caused by a force majeure, that the duration of the delay or the extension sought was or will be warranted under the circumstances, that best efforts were exercised to avoid and mitigate the effects of the delay, and that Respondent complied with the requirements of Paragraphs 76 and 77. If Respondent carries this burden, the delay at issue shall be deemed not to be a violation by Respondent of the affected obligation of this Settlement identified to EPA.

80. The failure by EPA to timely complete any obligation under the Settlement is not a violation of the Settlement, provided, however, that if such failure prevents Respondent from meeting one or more deadlines under the Settlement, Respondent may seek relief under this Section.

XVII. STIPULATED PENALTIES

81. Respondent shall be liable to EPA for stipulated penalties in the amounts set forth in Paragraphs 82.a and 83 for failure to comply with the obligations specified in Paragraphs 82.b and 83, unless excused under Section XVI (Force Majeure). "Comply" as used in the previous sentence include compliance by Respondent with all applicable requirements of this Settlement, within the deadlines established under this Settlement.

82. **Stipulated Penalty Amounts - Payments, Financial Assurance, Major Deliverables, and Other Milestones**

a. The following stipulated penalties shall accrue per violation per day for any noncompliance identified in Paragraph 82.b:

Penalty Per Violation Per Day	Period of Noncompliance
$1,000	1st through 14th day
$2,500	15th through 30th day
$5,000	31st day and beyond

b. **Obligations**

(1) Payment of any amount due under Section XIV (Payment of Response Costs).

(2) Establishment and maintenance of financial assurance in accordance with Section XXV (Financial Assurance).

(3) Establishment of an escrow account to hold any disputed Future Response Costs under Paragraph 71 (Contesting Future Response Costs).

83. In the event that EPA assumes performance of a portion or all of the Work pursuant to Paragraph 94 (Work Takeover), Respondent shall be liable for a stipulated penalty in the amount of $50,000. Stipulated penalties under this Paragraph are in addition to the remedies available to EPA under Paragraphs 94 (Work Takeover) and 115 (Access to Financial Assurance).

84. All penalties shall begin to accrue on the day after the complete performance is due or the day a violation occurs and shall continue to accrue through the final day of the correction of the noncompliance or completion of the activity. Penalties shall continue to accrue during any dispute resolution period, and shall be paid within 15 days after the agreement or the receipt of EPA's decision or order. However, stipulated penalties shall not accrue: (a) with respect to a deficient submission under Paragraph 41 (Work Plan and Implementation), during the period, if any, beginning on the 31st day after EPA's receipt of such submission until the date that EPA notifies Respondent of any deficiency; and (b) with respect to a decision by the EPA Management Official at the Division Director level or higher, under Paragraph 74 (Formal Dispute Resolution), during the period, if any, beginning on the 21st day after the Negotiation Period begins until the date that the EPA Management Official issues a final decision regarding such dispute. Nothing in this Settlement shall prevent the simultaneous accrual of separate penalties for separate violations of this Settlement.

85. Following EPA's determination that Respondent has failed to comply with an Obligation in Paragraph 82.b of this Settlement, EPA may give Respondent written notification of the failure and describe the noncompliance. EPA may send Respondent a written demand for payment of the penalties. However, penalties shall accrue as provided in the preceding Paragraph regardless of whether EPA has notified Respondent of a violation.

86. All penalties accruing under this Section shall be due and payable to EPA within 30 days after Respondent's receipt from EPA of a demand for payment of the penalties, unless Respondent invokes the Dispute Resolution procedures under Section XV (Dispute Resolution) within the 30-day period. All payments to EPA under this Section shall indicate that the payment is for stipulated penalties and shall be made in accordance with Paragraph 69 (Payments for Future Response Costs).

87. If Respondent fails to pay stipulated penalties when due, Respondent shall pay Interest on the unpaid stipulated penalties as follows: (a) if Respondent has timely invoked dispute resolution such that the obligation to pay stipulated penalties has been stayed pending the outcome of dispute resolution, Interest shall accrue from the date stipulated penalties are due pursuant to Paragraph 84 until the date of payment; and (b) if Respondent fails to timely invoke dispute resolution, Interest shall accrue from the date of demand under Paragraph 86 until the date of payment. If Respondent fails to pay stipulated penalties and Interest when due, the United States may institute proceedings to collect the penalties and Interest.

88. The payment of penalties and Interest, if any, shall not alter in any way Respondent's obligation to complete the performance of the Work required under this Settlement.

89. Nothing in this Settlement shall be construed as prohibiting, altering, or in any way limiting the ability of EPA to seek any other remedies or sanctions available by virtue of Respondent's violation of this Settlement or of the statutes and regulations upon which it is based, including, but not limited to, penalties pursuant to Sections 106(b) and 122(*l*) of CERCLA, 42 U.S.C. §§ 9606(b) and 9622(*l*), and punitive damages pursuant to Section 107(c)(3) of CERCLA, 42 U.S.C. § 9607(c)(3), provided however, that EPA shall not seek civil penalties pursuant to Section 106(b) or Section 122(*l*) of CERCLA or punitive damages pursuant to Section 107(c)(3) of CERCLA for any violation for which a stipulated penalty is provided in this Settlement, except in the case of a willful violation of this Settlement or in the event that EPA assumes performance of a portion or all of the Work pursuant to Paragraph 94 (Work Takeover).

90. Notwithstanding any other provision of this Section, EPA may, in its unreviewable discretion, waive any portion of stipulated penalties that have accrued pursuant to this Settlement.

XVIII. COVENANTS BY EPA

91. Except as provided in Section XIX (Reservations of Rights by EPA), EPA covenants not to sue or to take administrative action against Respondent pursuant to Sections 106 and 107(a) of CERCLA, 42 U.S.C. §§ 9606 and 9607(a), for the Work and Future Response Costs. These covenants shall take effect upon the Effective Date. These covenants are conditioned upon the complete and satisfactory performance by Respondent of its obligations under this Settlement. These covenants extend only to Respondent and do not extend to any other person.

XIX. RESERVATIONS OF RIGHTS BY EPA

92. Except as specifically provided in this Settlement, nothing in this Settlement shall limit the power and authority of EPA or the United States to take, direct, or order all actions necessary to protect public health, welfare, or the environment or to prevent, abate, or minimize an actual or threatened release of hazardous substances, pollutants, or contaminants, or hazardous or solid waste on, at, or from the Site. Further, nothing in this Settlement shall prevent EPA from seeking legal or equitable relief to enforce the terms of this Settlement, from taking other legal or equitable action as it deems appropriate and necessary, or from requiring Respondent in the future to perform additional activities pursuant to CERCLA or any other applicable law.

93. The covenants set forth in Section XVIII (Covenants by EPA) do not pertain to any matters other than those expressly identified therein. EPA reserves, and this Settlement is without prejudice to, all rights against Respondent with respect to all other matters, including, but not limited to:

a. liability for failure by Respondent to meet a requirement of this Settlement;

b. liability for costs not included within the definition of Future Response Costs;

c. liability for performance of response action other than the Work;

d. criminal liability;

e. liability for violations of federal or state law that occur during or after implementation of the Work;

f. liability for damages for injury to, destruction of, or loss of natural resources, and for the costs of any natural resource damage assessments;

g. liability arising from the past, present, or future disposal, release or threat of release of Waste Materials outside of the Site; and

h. liability for costs incurred or to be incurred by the Agency for Toxic Substances and Disease Registry related to the Site not paid as Future Response Costs under this Settlement.

94. **Work Takeover**

a. In the event EPA determines that Respondent: (1) has ceased implementation of any portion of the Work; (2) is seriously or repeatedly deficient or late in its performance of the Work; or (3) is implementing the Work in a manner that may cause an endangerment to human health or the environment, EPA may issue a written notice ("Work Takeover Notice") to Respondent. Any Work Takeover Notice issued by EPA (which writing may be electronic) will specify the grounds upon which such notice was issued and will provide Respondent a period of 30 days within which to remedy the circumstances giving rise to EPA's issuance of such notice.

b. If, after expiration of the 30-day notice period specified in Paragraph 94.a, Respondent has not remedied to EPA's satisfaction the circumstances giving rise to EPA's issuance of the relevant Work Takeover Notice, EPA may at any time thereafter assume the performance of all or any portion(s) of the Work as EPA deems necessary ("Work Takeover"). EPA will notify Respondent in writing (which writing may be electronic) if EPA determines that implementation of a Work Takeover is warranted under this Paragraph 94.b. Funding of Work Takeover costs is addressed under Paragraph 115 (Access to Financial Assurance).

c. Respondent may invoke the procedures set forth in Paragraph 74 (Formal Dispute Resolution) to dispute EPA's implementation of a Work Takeover under Paragraph 94.b. However, notwithstanding Respondent's invocation of such dispute resolution procedures, and during the pendency of any such dispute, EPA may in its sole discretion commence and continue a Work Takeover under Paragraph 94.b until the earlier of (1) the date that Respondent remedies, to EPA's satisfaction, the circumstances giving rise to EPA's issuance of the relevant Work Takeover Notice, or (2) the date that a written decision terminating such Work Takeover is rendered in accordance with Paragraph 74 (Formal Dispute Resolution).

d. Notwithstanding any other provision of this Settlement, EPA retains all authority and reserves all rights to take any and all response actions authorized by law.

XX. COVENANTS BY RESPONDENT

95. Respondent covenants not to sue and agree not to assert any claims or causes of action against the United States, or its contractors or employees, with respect to the Work, Future Response Costs, and this Settlement, including, but not limited to:

a. any direct or indirect claim for reimbursement from the EPA Hazardous Substance Superfund through Sections 106(b)(2), 107, 111, 112, or 113 of CERCLA, 42 U.S.C. §§ 9606(b)(2), 9607, 9611, 9612, or 9613, or any other provision of law;

b. any claims under Sections 107 and 113 of CERCLA, Section 7002(a) of RCRA, 42 U.S.C. § 6972(a), or state law regarding the Work, Future Response Costs, and this Settlement;

c. any claim arising out of response actions at or in connection with the Site, including any claim under the United States Constitution, the State Constitution, the Tucker Act, 28 U.S.C. § 1491, the Equal Access to Justice Act, 28 U.S.C. § 2412, or at common law; or

d. any direct or indirect claim for return of unused amounts from the Columbia Falls Aluminum Plant Future Response Costs Special Account.

96. These covenants not to sue shall not apply in the event the United States brings a cause of action or issues an order pursuant to any of the reservations set forth in Section XIX (Reservations of Rights by EPA), other than in Paragraph 93.a (liability for failure to meet a requirement of the Settlement), 93.d (criminal liability), or 93.e (violations of federal/state law during or after implementation of the Work), but only to the extent that Respondent's claims arise from the same response action, response costs, or damages that the United States is seeking pursuant to the applicable reservation.

97. Nothing in this Settlement shall be deemed to constitute approval or preauthorization of a claim within the meaning of Section 111 of CERCLA, 42 U.S.C. § 9611, or 40 C.F.R. § 300.700(d).

98. Respondent reserves, and this Settlement is without prejudice to, claims against the United States, subject to the provisions of Chapter 171 of Title 28 of the United States Code, and brought pursuant to any statute other than CERCLA or RCRA and for which the waiver of sovereign immunity is found in a statute other than CERCLA or RCRA, for money damages for injury or loss of property or personal injury or death caused by the negligent or wrongful act or omission of any employee of the United States, as that term is defined in 28 U.S.C. § 2671, while acting within the scope of his or her office or employment under circumstances where the United States, if a private person, would be liable to the claimant in accordance with the law of the place where the act or omission occurred. However, the foregoing shall not include any claim based on EPA's selection of response actions, or the oversight or approval of Respondent's deliverables or activities.

XXI. OTHER CLAIMS

99. By issuance of this Settlement, the United States and EPA assume no liability for injuries or damages to persons or property resulting from any acts or omissions of Respondent. The United States or EPA shall not be deemed a party to any contract entered into by Respondent or its directors, officers, employees, agents, successors, representatives, assigns, contractors, or consultants in carrying out actions pursuant to this Settlement.

100. Except as expressly provided in Section XVIII (Covenants by EPA), nothing in this Settlement constitutes a satisfaction of or release from any claim or cause of action against Respondent or any person not a party to this Settlement, for any liability such person may have under CERCLA, other statutes, or common law, including but not limited to any claims of the United States for costs, damages, and interest under Sections 106 and 107 of CERCLA, 42 U.S.C. §§ 9606 and 9607.

101. No action or decision by EPA pursuant to this Settlement shall give rise to any right to judicial review, except as set forth in Section 113(h) of CERCLA, 42 U.S.C. § 9613(h).

XXII. EFFECT OF SETTLEMENT/CONTRIBUTION

102. Nothing in this Settlement shall be construed to create any rights in, or grant any cause of action to, any person not a Party to this Settlement. Except as provided in Section XX (Covenants by Respondent), each of the Parties expressly reserves any and all rights (including, but not limited to, pursuant to Section 113 of CERCLA, 42 U.S.C. § 9613), defenses, claims, demands, and causes of action which each Party may have with respect to any matter, transaction, or occurrence relating in any way to the Site against any person not a Party hereto. Nothing in this Settlement diminishes the right of the United States, pursuant to Section 113(f)(2) and (3) of CERCLA, 42 U.S.C. § 9613(f)(2)-(3), to pursue any such persons to obtain additional response costs or response action and to enter into settlements that give rise to contribution protection pursuant to Section 113(f)(2).

103. The Parties agree that this Settlement constitutes an administrative settlement pursuant to which Respondent has, as of the Effective Date, resolved liability to the United States within the meaning of Sections 113(f)(2) and 122(h)(4) of CERCLA, 42 U.S.C. §§ 9613(f)(2) and 9622(h)(4), and is entitled, as of the Effective Date, to protection from contribution actions or claims as provided by Sections 113(f)(2) and 122(h)(4) of CERCLA, or as may be otherwise provided by law, for the "matters addressed" in this Settlement. The "matters addressed" in this Settlement are the Work and Future Response Costs.

104. The Parties further agree that this Settlement constitutes an administrative settlement pursuant to which Respondent has, as of the Effective Date, resolved liability to the United States within the meaning of Section 113(f)(3)(B) of CERCLA, 42 U.S.C. § 9613(f)(3)(B).

105. Respondent shall, with respect to any suit or claim brought by it for matters related to this Settlement, notify EPA in writing concurrently with the filing of such suit or claim. Respondent also shall, with respect to any suit or claim brought against it for matters

related to this Settlement, notify EPA in writing within 10 days after service of the complaint or claim upon it. In addition, Respondent shall notify EPA within 10 days after service or receipt of any Motion for Summary Judgment and within 10 days after receipt of any order from a court setting a case for trial, for matters related to this Settlement.

106. In any subsequent administrative or judicial proceeding initiated by EPA, or by the United States on behalf of EPA, for injunctive relief, recovery of response costs, or other relief relating to the Work, Respondent shall not assert, and may not maintain, any defense or claim based upon the principles of waiver, res judicata, collateral estoppel, issue preclusion, claim-splitting, or other defenses based upon any contention that the claims raised in the subsequent proceeding were or should have been brought in the instant case; provided, however, that nothing in this Paragraph affects the enforceability of the covenant by EPA set forth in Section XVIII (Covenants by EPA).

XXIII. INDEMNIFICATION

107. The United States does not assume any liability by entering into this Settlement or by virtue of any designation of Respondent as EPA's authorized representatives under Section 104(e) of CERCLA, 42 U.S.C. § 9604(e), and 40 C.F.R. 300.400(d)(3). Respondent shall indemnify, save, and hold harmless the United States, its officials, agents, employees, contractors, subcontractors, and representatives for or from any and all claims or causes of action arising from, or on account of, negligent or other wrongful acts or omissions of Respondent, its officers, directors, employees, agents, contractors, or subcontractors, and any persons acting on Respondent's behalf or under their control, in carrying out activities pursuant to this Settlement. Further, Respondent agrees to pay the United States all costs it incurs, including but not limited to attorneys' fees and other expenses of litigation and settlement arising from, or on account of, claims made against the United States based on negligent or other wrongful acts or omissions of Respondent, its officers, directors, employees, agents, contractors, subcontractors, and any persons acting on their behalf or under their control, in carrying out activities pursuant to this Settlement. The United States shall not be held out as a party to any contract entered into by or on behalf of Respondent in carrying out activities pursuant to this Settlement. Neither Respondent nor any such contractor shall be considered an agent of the United States.

108. The United States shall give Respondent notice of any claim for which the United States plans to seek indemnification pursuant to this Section and shall consult with Respondent prior to settling such claim.

109. Respondent covenants not to sue and agrees not to assert any claims or causes of action against the United States for damages or reimbursement or for set-off of any payments made or to be made to the United States, arising from or on account of any contract, agreement, or arrangement between Respondent and any person for performance of work on or relating to the Site, including, but not limited to, claims on account of construction delays. In addition, Respondent shall indemnify and hold harmless the United States with respect to any and all claims for damages or reimbursement arising from or on account of any contract, agreement, or arrangement between Respondent and any person for performance of Work on or relating to the Site, including, but not limited to, claims on account of construction delays.

XXIV. INSURANCE

110. No later than 14 days before commencing any on-site Work, Respondent shall secure, and shall maintain until the first anniversary after issuance of Notice of Completion of Work pursuant to Section XXVIII (Notice of Completion of Work), commercial general liability insurance with limits of liability of $1 million per occurrence, automobile liability insurance with limits of liability of $1 million per accident, and umbrella liability insurance with limits of liability of $5 million in excess of the required commercial general liability and automobile liability limits, adding EPA as an additional insured with respect to all liability arising out of the activities performed by or on behalf of Respondent pursuant to this Settlement. In addition, for the duration of the Settlement, Respondent shall provide EPA with certificates of such insurance. Respondent shall resubmit such certificates each year on the anniversary of the Effective Date. In addition, for the duration of the Settlement, Respondent shall satisfy, or shall ensure that their contractors or subcontractors satisfy, all applicable laws and regulations regarding the provision of worker's compensation insurance for all persons performing the Work on behalf of Respondent in furtherance of this Settlement. If Respondent demonstrates by evidence satisfactory to EPA that any contractor or subcontractor maintains insurance equivalent to that described above, or insurance covering some or all of the same risks but in a lesser amount, Respondent need provide only that portion of the insurance described above that is not maintained by the contractor or subcontractor. Respondent shall ensure that all submittals to EPA under this Paragraph identify the Anaconda Aluminum Co. Columbia Falls Reduction Plant a/k/a Columbia Falls Aluminum Plant Site and the EPA docket number for this action.

XXV. FINANCIAL ASSURANCE

111. Respondent has secured financial assurance for the benefit of EPA under the AOC RI/FS. Such financial assurance shall act as financial assurance under this Settlement Agreement. To the extent that Respondent changes such financial assurance, such financial assurance must be one or more of the mechanisms listed below, in a form substantially identical to the relevant sample documents available from EPA or under the "Financial Assurance - Settlements" category on the Cleanup Enforcement Model Language and Sample Documents Database at https://cfpub.epa.gov/compliance/models/, and satisfactory to EPA. Respondent may use multiple mechanisms if they are limited to surety bonds guaranteeing payment, letters of credit, trust funds, and/or insurance policies.

a. A surety bond guaranteeing payment and/or performance of the Work that is issued by a surety company among those listed as acceptable sureties on federal bonds as set forth in Circular 570 of the U.S. Department of the Treasury;

b. An irrevocable letter of credit, payable to or at the direction of EPA, that is issued by an entity that has the authority to issue letters of credit and whose letter-of-credit operations are regulated and examined by a federal or state agency;

c. A trust fund established for the benefit of EPA that is administered by a trustee that has the authority to act as a trustee and whose trust operations are regulated and examined by a federal or state agency;

d. A policy of insurance that provides EPA with acceptable rights as a beneficiary thereof and that is issued by an insurance carrier that has the authority to issue insurance policies in the applicable jurisdiction(s) and whose insurance operations are regulated and examined by a federal or state agency;

e. A demonstration by a Respondent that it meets the financial test criteria of Paragraph 112; or

f. A guarantee to fund or perform the Work executed in favor of EPA by a company: (1) that is a direct or indirect parent company of a Respondent or has a "substantial business relationship" (as defined in 40 C.F.R. § 264.141(h)) with a Respondent; and (2) can demonstrate to EPA's satisfaction that it meets the financial test criteria of Paragraph 111.

112. Respondent seeking to provide financial assurance by means of a demonstration or guarantee under Paragraph 111.e or 111.f must, within 30 days of the Effective Date:

a. Demonstrate that:

(1) Respondent or guarantor has:

i. Two of the following three ratios: a ratio of total liabilities to net worth less than 2.0; a ratio of the sum of net income plus depreciation, depletion, and amortization to total liabilities greater than 0.1; and a ratio of current assets to current liabilities greater than 1.5; and

ii. Net working capital and tangible net worth each at least six times the sum of the Estimated Cost of the Work and the amounts, if any, of other federal, state, or tribal environmental obligations financially assured through the use of a financial test or guarantee; and

iii. Tangible net worth of at least $10 million; and

iv. Assets located in the United States amounting to at least 90 percent of total assets or at least six times the sum of the Estimated Cost of the Work and the amounts, if any, of other federal, state, or tribal environmental obligations financially assured through the use of a financial test or guarantee; or

(2) Respondent or guarantor has:

i. A current rating for its senior unsecured debt of AAA, AA, A, or BBB as issued by Standard and Poor's or Aaa, Aa, A or Baa as issued by Moody's; and

ii. Tangible net worth at least six times the sum of the Estimated Cost of the Work and the amounts, if any, of other federal, state, or tribal environmental obligations financially assured through the use of a financial test or guarantee; and

iii. Tangible net worth of at least $10 million; and

iv. Assets located in the United States amounting to at least 90 percent of total assets or at least six times the sum of the Estimated Cost of the Work and the amounts, if any, of other federal, state, or tribal environmental obligations financially assured through the use of a financial test or guarantee; and

b. Submit to EPA for Respondent or guarantor: (1) a copy of an independent certified public accountant's report of the entity's financial statements for the latest completed fiscal year, which must not express an adverse opinion or disclaimer of opinion; and (2) a letter from its chief financial officer and a report from an independent certified public accountant substantially identical to the sample letter and reports available from EPA or under the "Financial Assurance - Settlements" subject list category on the Cleanup Enforcement Model Language and Sample Documents Database at https://cfpub.epa.gov/compliance/models/.

113. Respondent providing financial assurance by means of a demonstration or guarantee under Paragraph 111.e or 111.f must also:

a. Annually resubmit the documents described in Paragraph 112.b within 90 days after the close of Respondent's or guarantor's fiscal year;

b. Notify EPA within 30 days after Respondent or guarantor determines that it no longer satisfies the relevant financial test criteria and requirements set forth in this Section; and

c. Provide to EPA, within 30 days of EPA's request, reports of the financial condition of Respondent or guarantor in addition to those specified in Paragraph 112.b; EPA may make such a request at any time based on a belief that Respondent or guarantor may no longer meet the financial test requirements of this Section.

114. Respondent shall diligently monitor the adequacy of the financial assurance. If Respondent becomes aware of any information indicating that the financial assurance provided under this Section is inadequate or otherwise no longer satisfies the requirements of this Section, Respondent shall notify EPA of such information within 7 days. If EPA determines that the financial assurance provided under this Section is inadequate or otherwise no longer satisfies the requirements of this Section, EPA will notify Respondent of such determination. Respondent shall, within 30 days after notifying EPA or receiving notice from EPA under this Paragraph, secure and submit to EPA for approval a proposal for a revised or alternative financial assurance mechanism that satisfies the requirements of this Section. EPA may extend this deadline for such

time as is reasonably necessary for Respondent, in the exercise of due diligence, to secure and submit to EPA a proposal for a revised or alternative financial assurance mechanism, not to exceed 60 days. Respondent shall follow the procedures of Paragraph 116 (Modification of Amount, Form, or Terms of Financial Assurance) in seeking approval of, and submitting documentation for, the revised or alternative financial assurance mechanism. Respondent's inability to secure financial assurance in accordance with this Section does not excuse performance of any other obligation under this Settlement.

115. **Access to Financial Assurance**

a. If EPA issues a notice of implementation of a Work Takeover under Paragraph 94.b, then, in accordance with any applicable financial assurance mechanism, EPA is entitled to: (1) the performance of the Work; and/or (2) require that any funds guaranteed be paid in accordance with Paragraph 115.d.

b. If EPA is notified by the issuer of a financial assurance mechanism that it intends to cancel the mechanism, and Respondent fails to provide an alternative financial assurance mechanism in accordance with this Section at least 30 days prior to the cancellation date, the funds guaranteed under such mechanism must be paid prior to cancellation in accordance with Paragraph 115.d.

c. If, upon issuance of a notice of implementation of a Work Takeover under Paragraph 94.b, either: (1) EPA is unable for any reason to promptly secure the resources guaranteed under any applicable financial assurance mechanism, whether in cash or in kind, to continue and complete the Work; or (2) the financial assurance is a demonstration or guarantee under Paragraph 111.e or 111.f, then EPA is entitled to demand an amount, as determined by EPA, sufficient to cover the cost of the remaining Work to be performed. Respondent shall, within 30 days of such demand, pay the amount demanded as directed by EPA.

d. Any amounts required to be paid under this Paragraph 115 shall be, as directed by EPA: (i) paid to EPA in order to facilitate the completion of the Work by EPA, the State, or by another person; or (ii) deposited into an interest-bearing account, established at a duly chartered bank or trust company that is insured by the FDIC, in order to facilitate the completion of the Work by another person. If payment is made to EPA, EPA may deposit the payment into the EPA Hazardous Substance Superfund or into the Columbia Falls Aluminum Plant Special Account within the EPA Hazardous Substance Superfund to be retained and used to conduct or finance response actions at or in connection with the Site, or to be transferred by EPA to the EPA Hazardous Substance Superfund.

e. All EPA Work Takeover costs not paid under this Paragraph 115 must be reimbursed as Future Response Costs under Section XIV (Payments for Response Costs).

116. **Modification of Amount, Form, or Terms of Financial Assurance**. Respondent may submit, on any anniversary of the Effective Date or at any other time agreed to by the Parties, a request to reduce the amount, or change the form or terms, of the financial assurance mechanism. Any such request must be submitted to EPA and the State in accordance with

Paragraph 113, and must include an estimate of the cost of the remaining Work, an explanation of the bases for the cost calculation, and a description of the proposed changes, if any, to the form or terms of the financial assurance. EPA, after reasonable opportunity for review and comment by DEQ, will notify Respondent of its decision to approve or disapprove a requested reduction or change pursuant to this Paragraph. Respondent may reduce the amount of the financial assurance mechanism only in accordance with: (a) EPA's approval; or (b) if there is a dispute, the agreement or written decision resolving such dispute under Section XV (Dispute Resolution). Respondent may change the form or terms of the financial assurance mechanism only in accordance with EPA's approval. Any decision made by EPA on a request submitted under this Paragraph to change the form or terms of a financial assurance mechanism shall not be subject to challenge by Respondent pursuant to the dispute resolution provisions of this Settlement or in any other forum. Within 30 days after receipt of EPA's approval of, or the agreement or decision resolving a dispute relating to, the requested modifications pursuant to this Paragraph, Respondent shall submit to EPA documentation of the reduced, revised, or alternative financial assurance mechanism in accordance with Paragraph 113.

117. **Release, Cancellation, or Discontinuation of Financial Assurance**. Respondent may release, cancel, or discontinue any financial assurance provided under this Section only: (a) if EPA issues a Notice of Completion of Work under Section XXVIII (Notice of Completion of Work); (b) in accordance with EPA's approval of such release, cancellation, or discontinuation; or (c) if there is a dispute regarding the release, cancellation, or discontinuance of any financial assurance, in accordance with the agreement or final decision resolving such dispute under Section XV (Dispute Resolution).

XXVI. MODIFICATION

118. The RPM may modify any plan or schedule in writing or by oral direction. Any oral modification will be memorialized in writing by EPA promptly, but shall have as its effective date the date of the RPM's oral direction. Any other requirements of this Settlement may be modified in writing by mutual agreement of the parties.

119. If Respondent seeks permission to deviate from the Removal Work Plan or any approved work plan or schedule, Respondent's Project Coordinator shall submit a written request to EPA for approval outlining the proposed modification and its basis. Respondent may not proceed with the requested deviation until receiving oral or written approval from the RPM pursuant to Paragraph 118.

120. No informal advice, guidance, suggestion, or comment by the RPM or other EPA representatives regarding any deliverable submitted by Respondent shall relieve Respondent of its obligation to obtain any formal approval required by this Settlement, or to comply with all requirements of this Settlement, unless it is formally modified.

XXVII. ADDITIONAL REMOVAL ACTION

121. Upon mutual agreement of the Parties that additional removal actions not included in the Removal Work Plan or other approved plan(s) but within the scope of the SOW

are necessary to protect public health, welfare, or the environment, Respondent shall submit for approval by EPA a work plan for the additional removal actions. The plan shall conform to the applicable requirements of Section VIII (Work to Be Performed) of this Settlement. Upon EPA's approval of the plan pursuant to Paragraph 41 (Work Plan and Implementation), Respondent shall implement the plan for additional removal actions in accordance with the provisions and schedule contained therein. This Section does not alter or diminish the RPM's authority to make oral modifications to any plan or schedule pursuant to Section XXVI (Modification).

XXVIII. NOTICE OF COMPLETION OF WORK

122. When EPA determines, after EPA's review of the Final Report and after reasonable opportunity for review and comment by DEQ, that all Work has been fully performed in accordance with this Settlement, with the exception of any continuing obligations required by this Settlement, including Post-Removal Site Control, payment of Future Response Costs, or record retention, EPA will provide written notice to Respondent. If EPA, after reasonable opportunity for comment by DEQ, determines that such Work has not been completed in accordance with this Settlement, EPA will notify Respondent, provide a list of the deficiencies, and require that Respondent modify the Removal Work Plan if appropriate in order to correct such deficiencies. Respondent shall implement the modified and approved Removal Work Plan and shall submit a modified Final Report in accordance with the EPA notice. Failure by Respondent to implement the approved modified Removal Work Plan shall be a violation of this Settlement.

XXIX. INTEGRATION/APPENDICES

123. This Settlement and its appendices constitute the final, complete, and exclusive agreement and understanding among the Parties with respect to the settlement embodied in this Settlement. The Parties acknowledge that there are no representations, agreements, or understandings relating to the settlement other than those expressly contained in this Settlement. The following appendices are attached to and incorporated into this Settlement:

a. "Appendix A" is the description and/or map of the Site.

b. "Appendix B" is the SOW.

XXX. EFFECTIVE DATE

124. This Settlement shall be effective upon execution by the Regional Administrator or his or her delegate.

IT IS SO AGREED AND ORDERED:

U.S. ENVIRONMENTAL PROTECTION AGENCY:

CHRISTOPHER THOMPSON
Digitally signed by CHRISTOPHER THOMPSON
Date: 2020.07.21 11:03:31 -06'00'

_____ _____

Dated

Christopher A. Thompson
Associate Regional Counsel for Enforcement, Region 8

BETSY SMIDINGER
Digitally signed by BETSY SMIDINGER
Date: 2020.07.16 15:46:22 -06'00'

_____ _____

Dated

Betsy Smidinger
Director
Superfund and Emergency Management Division
Region 8

Signature Page for Settlement Regarding Anaconda Aluminum Co. Columbia Falls Reduction Plant Superfund Site

FOR Respondent Columbia Falls Aluminum Company, LLC:

_____ _____

Dated

Cheryl Ann Driscoll
Corporate Secretary
Columbia Falls Aluminum Company, LLC

APPENDIX A

V:\GIS\PROJECTS\2476Y\0001Y\273\2476.0001Y273.2.MXD

LEGEND

APPROXIMATE EXTENT OF SOUTH PERCOLATION PONDS

SITE BOUNDARY

N

450 0 450'

Title:

SOUTH PERCOLATION PONDS PROJECT AREA

2000 ALUMINUM DRIVE
COLUMBIA FALLS, MONTANA

Prepared for:

COLUMBIA FALLS ALUMINUM COMPANY, LLC

ROUX

Compiled by: L.J.	Date: 05/28/20	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	1
Project Mgr: L.J.	Project: 2476.0001Y010	
File: 2476.0001Y273.2.mxd		

APPENDIX B

Appendix B – Statement of Work
Anaconda Aluminum Co. Columbia Falls Reduction Plant Superfund Site

This Statement of Work describes the removal actions including excavation and onsite consolidation of the soil/sediment that exceeds the Preliminary Remediation Goals (PRGs) for the South Percolation Ponds (Figure 1) in the River Area Decision Unit (RADU) of the Anaconda/CFAC Superfund Site. Soil/sediment exceeding the PRGs will be removed from the South Percolation Ponds and relocated to an existing onsite repository --Industrial Landfill) located in the upland portion of the Site; followed by the removal of the sheetpile wall and riprap bank, historically installed to divert the river and protect the ponds from erosion, to allow the river to resume flowing in its original channel that occupied this area prior to construction of the infrastructure. The remaining infrastructure located between the side channel and main Flathead River will also be removed to allow natural lateral migration to occur unimpeded.

These removal actions will be conducted under two construction phases:

- Phase I – Construction and Excavation
    - Closure of the piping infrastructure from which stormwater flows and enters the South Percolation Pond system;
    - Excavation of impacted soils/sediment in the South Percolation Ponds that contain barium at concentrations exceeding PRGs; and
    - Disposal of the excavated soils/sediments at an onsite repository (i.e., Industrial Landfill located in the northern portion of the Site).
- Phase II – Removal and Post Removal Response Action
    - Removal of infrastructure (e.g., sheetpile wall, riprap bank); and
    - Removal of further infrastructure (e.g., access roads, culverts, well house, overhead power poles, monitoring wells, and debris as appropriate), with final grading and sloping, and reclamation of the construction-disturbed areas as may be required.

Additional details regarding each phase of construction, in addition to planning activities, are provided below. Site- and project-specific considerations used in developing this statement of work for the removal action generally include: surveying activities; removal and volume estimates; environmental controls during removal; repository design; transportation and disposal; post excavation sampling; and restoration.

Pre-Phase I Activities

Prior to construction activities, CFAC will conduct outreach to interested stakeholders including interested Federal, State and local governmental agencies, to consult with them regarding the work to be completed. CFAC will comply with substantive regulatory requirements and consult with various agencies but, pursuant to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 129(e), will not require permits to implement the project.

The following agencies have/are anticipated to provide input on the Work, in addition to EPA and DEQ:

- Montana Fish, Wildlife and Parks (Montana FWP)
- Flathead County Conservation District
- Montana Department of Natural Resources
- U.S. Fish and Wildlife Service (USFWS); and
- U.S. Army Corps of Engineers (USACE)

Conceptual Design

Prior to construction, conceptual designs for the repository, haul road, soil/sediment removal, and sheetpile and riprap removal will be generated. CFAC's consultants will utilize the topographic survey data collected during the Phase II Site Characterization to evaluate the limits of excavation based on existing data and PRGs for South Percolation Pond sediments, and the remaining capacity for placement of waste within the Industrial Landfill. Design plans will be included in the Removal Work Plan (RWP), as described in the following sections.

Surveying Activities

An initial survey of the project area will be completed to survey the existing infrastructure that will be required for various design and planning efforts, and to supplement the existing Light Detection and Ranging (LiDAR) survey. Field survey of the existing infrastructure will include pipe outlets, culverts, buildings, and other infrastructure identified in the field. Survey of the as-built conditions following Phase I construction will be completed with drone equipment for earthwork volume verification and use in the final design of Phase II.

Wetland and waterway delineation will be completed in the project area based on the methods presented in the 1987 USACE Manual and subsequent modifications outlined in the 2010 USACE Regional Supplement (Western Mountains, Valleys and Coast). The ordinary high-water mark (OHWM) of the Flathead River will be delineated either during the wetland delineation field work or at a separate time when river water levels allow accurate identification of the OHWM. The data will be incorporated into a Wetland Delineation Report.

During the wetland delineation field effort, the project area will be investigated for migratory bird and eagle nests. In coordination with the USFWS and Montana FWP, the work will be completed in compliance with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. This information will be included in a Biological Assessment (BA).

A BA for all Threatened, Endangered, Proposed, and Candidate Species known to occur within Flathead County will be completed. The BA will identify threatened and endangered species which are likely to be affected by the proposed action. At a minimum, this will address bull trout, for which a critical habitat has been identified within the project area. The BA will require communication with the USFWS and Montana FWP to provide Site-specific conservation and

coordination measures such as timing restrictions or construction methods to mitigate potential impacts to Threatened and Endangered species.

An assessment of the groundwater seeps on the bank of the Flathead River north of the South Percolation Ponds will be performed prior to implementation of the removal action, as well as for the duration of the removal action. If seeps are identified, interim measures consisting of straw bales, straw waddles, or a temporary ditch, or any combination thereof, may be implemented in consultation with EPA. Additional measures including sampling of the seep or sampling of the surface water in the Flathead River may be performed if the seep is identified and shows concentrations of COCs above PRGs identified in the FSWP.

Phase I – Construction and Excavation

Sediment Removal

The initial removal phase will include decommissioning of the discharge pipe to the South Percolation Ponds and associated soils/sediments removal. Data on the extents and depths of contaminated soils/sediments for removal was determined as part of the Remedial Investigation (RI) and risk assessments. This data will be utilized to generate removal plans and specifications for construction.

Presently, it is assumed that approximately 1-foot of impacted soils/sediments will be excavated from the South Percolation Ponds (approximately 10.2 acres). Soils/sediments sampling and verification of contamination removal will be completed either as part of pre- or post-excavation sampling as will be determined in the RWP.

Construction Considerations and Design

Preliminary design will include draft project specifications and plans for:

- Removal and volume estimates;
- Staging and access;
- Material removal sequencing;
- Erosion and environmental controls;
- Construction dewatering; and
- Infrastructure removal plans for the existing well house, monitoring wells, overhead power poles, roads, and any other man-made features.

The construction implementation during low water season is anticipated to eliminate or minimize the need for any dewatering, considering the anticipated shallow excavation depth.

Preliminary Repository Design

Excavated material from the South Percolation Ponds will be removed, drained of water if present, loaded into trucks, and transported and placed in an onsite repository. The Industrial

Landfill is the most viable option for an onsite repository, given that it is an existing onsite landfill that has not yet been closed and would also need grading material prior to cap construction. Based on the risk assessment results, soils/sediments in the South Percolation Ponds pose a moderate ecological risk but do not pose human health risk and are not a source to groundwater. Therefore, the material excavated from the South Percolation Ponds would be suitable for placement in the Industrial Landfill with a cap that complies with requirements promulgated pursuant to Resource Conservation and Recovery Act (RCRA) Subtitle D. Respondent will design and construct a repository to allow for acceptance of the excavated sediments and interim closure. Final cap design and landfill closure will be completed as part of the Site-wide remedy.

Other design considerations will include but not be limited to the haul road, coordination with Burlington Northern Santa Fe (BNSF) regarding the track crossings, and other improvements required to allow the material to be hauled to the north end of Site (roughly 2,400 feet north of the BNSF track crossing). It is anticipated that agency input will be limited to review comments at preliminary and 90% design levels.

Phase II –Removal and Post Removal Response Action

The objectives of Phase II are to return the RADU to conditions that existed prior to construction of the South Percolation Ponds by removing past sheet pile and riprap stabilization, removing the existing well house, monitoring wells, overhead power poles, roads, and any other man-made features, and revegetation of construction-impacted areas.

Removal and post removal response action design will consider the following:

- Staging and access;
- Earthwork for the side channel;
- Removal of the sheet pile and riprap stabilization;
- Sequencing of earthwork and infrastructure removal;
- Access road removal; and
- Reclamation / revegetation of areas disturbed by the construction activities.

The earthwork for Phase II will be designed to avoid any import or export of material other than infrastructure and bank stabilization materials.

Removal Work Plan

In addition to this SOW, CFAC and its consultants will prepare an RWP in accordance with "Guidance on Conducting Non-Time-Critical Removal Actions Under CERCLA" (EPA, 1993) as well as other appropriate EPA and DEQ guidance. The RWP will detail the considerations and logistics of onsite construction, traffic and haul route management, material management, sampling procedures and methods, as well as the removal actions mentioned in this SOW.

Provided below is a general outline of the considerations that will be included in the RWP:

- South Percolation Pond Background and Physical Setting

- Summary of Remedial Investigation
- Description of Removal Action
    - Summary of Removal Design
    - Summary of Repository Design
- Removal Action Considerations
    - Governing Documents
    - General Removal Construction Information
        - Project Organization; Construction Schedule; Site Security; Traffic Control; Worker Training and Monitoring; Agency Approvals; Removal Action Costs
    - Remedial Goals
    - Pre-Characterization/Post-Excavation Sampling
    - Estimated Materials Removal Quantities
    - Soils/Materials Management Plan and Erosion Controls Plan
    - Quality Control Plans (Health and Safety Plan, Sampling and Analysis Plan [Quality Assurance Project Plan and Field Sampling Plan])
- Removal Action Implementation Plan
    - Pre-Construction Considerations
        - Site and Haul Road Preparation; Surveying; Wildlife Assessments
    - Phase I – Construction and Excavation
        - Mobilization;
        - Erosion and Sedimentation Controls;
        - Equipment and Material Staging;
        - Construction Water Management for the South Percolation Ponds, as follows: 1) Movement of Water Within the Three Ponds, 2) Possible Transportation and Disposal of Water to an Agreed Upon Location on Site, and 3) Treatment of Any Such Water to be Discharged within the River Area Outside of the Three Ponds, or any combination thereof;
        - Sediment Removal;
        - Materials Transport and Disposal Onsite;
        - Surface Water/Porewater Monitoring; and
        - Demobilization
    - Phase II – Removal and Post Removal Response Action
        - Mobilization; Staging and Access; Earthwork; Infrastructure Removal; Access Road Removal; Revegetation; Surface Water/Porewater Monitoring; Demobilization
    - Reporting
- Post-Removal Site Control Activities
    - Site Security; Site Access; Post-Removal Monitoring; Landfill Interim Cover Inspections