

2016 MAY 31 PM 2: 26

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 8

FILED
EPA REGION VIII
HEARING CLERK

IN THE MATTER OF:

Bullion Canyon Mills Site
Piute County, Utah

Crown Mines, LLC, and the Town of
Marysvale

Respondents

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

)
) U.S. EPA Docket No.: **CERCLA-08-2016-0004**
)

)
) CERCLA Docket No.
)

)
) **ADMINISTRATIVE SETTLEMENT**
) **AGREEMENT AND ORDER ON**
) **CONSENT FOR REMOVAL ACTION**
)
)

TABLE OF CONTENTS

I. JURISDICTION AND GENERAL PROVISIONS..... 1

II. PARTIES BOUND 1

III. DEFINITIONS..... 2

IV. FINDINGS OF FACT..... 4

V. CONCLUSIONS OF LAW AND DETERMINATIONS 5

VI. SETTLEMENT AGREEMENT AND ORDER..... 6

VII. DESIGNATION OF CONTRACTOR, PROJECT COORDINATOR, AND ON-
SCENE COORDINATOR..... 6

VIII. WORK TO BE PERFORMED..... 7

IX. PROPERTY REQUIREMENTS 10

X. ACCESS TO INFORMATION 11

XI. RECORD RETENTION 12

XII. COMPLIANCE WITH OTHER LAWS 12

XIII. EMERGENCY RESPONSE AND NOTIFICATION OF RELEASES..... 13

XIV. PAYMENT OF RESPONSE COSTS..... 14

XV. DISPUTE RESOLUTION 15

XVI. FORCE MAJEURE 16

XVII. STIPULATED PENALTIES 17

XVIII. COVENANTS BY EPA 19

XIX. RESERVATIONS OF RIGHTS BY EPA..... 20

XX. COVENANTS BY RESPONDENT 21

XXI. OTHER CLAIMS 22

XXII. EFFECT OF SETTLEMENT/CONTRIBUTION 22

XXIII. INDEMNIFICATION..... 23

XXIV. INSURANCE..... 24

XXV. MODIFICATION 25

XXVI. ADDITIONAL REMOVAL ACTION..... 25

XXVII. NOTICE OF COMPLETION OF WORK..... 25

XXVIII. INTEGRATION/APPENDICES 26

XXIX. EFFECTIVE DATE..... 26

Appendix A: Action Memorandum

Appendix B: Statement of Work

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 and Crown Mines, LLC and the Town of Marysvale (“Respondents”). This Settlement provides for the performance of a removal action by Respondents and the payment of certain response costs incurred by the United States at or in connection with the “Bullion Canyon Mills Site” (“Site”) generally located several miles west of the Town of Marysvale in Piute County, Utah.

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, 42 U.S.C. §§ 9604, 9606(a), 9607 and 9622 (CERCLA). This authority was delegated to the Administrator of the EPA on January 23, 1987, by Executive Order 12580, 52 Fed. Reg. 2923 (Jan. 29, 1987), and further delegated to Regional Administrators by the EPA Delegation Nos. 14-14-C (Administrative Actions Through Consent Orders, Apr. 15, 1994) and 14-14-D (Cost Recovery Non-Judicial Agreements and Administrative Consent Orders, May 11, 1994). This authority was further redelegated by the Regional Administrator of the EPA Region 8 to the Assistant Region Administrator of the EPA Region 8 by the EPA Delegation No. 14-14-D (Cost Recovery Non-Judicial Agreements and Administrative Consent Orders, December 20, 1996) and then further redelegated by the Assistant Regional Administrator to the supervisors in Region 8’s Legal Enforcement Program and the supervisors in Region 8’s Technical Enforcement Program by the EPA Delegation No. 14-14-D (Cost Recovery Non-Judicial Agreements and Administrative Consent Orders, October 17, 1997).

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

4. The EPA and Respondents recognize that this Settlement has been negotiated in good faith and that the actions undertaken by Respondents in accordance with this Settlement do not constitute an admission of any liability. Respondents do not admit, and retain 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. Respondents agree to comply with and be bound by the terms of this Settlement and further agree that they will not contest the basis or validity of this Settlement or its terms.

II. PARTIES BOUND

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

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

7. Respondents shall provide a copy of this Settlement to each contractor hired to perform the Work required by this Settlement and to each person representing any Respondents 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. Respondents or their contractors shall provide written notice of the Settlement to all subcontractors hired to perform any portion of the Work required by this Settlement. Respondents shall nonetheless be responsible for ensuring that their 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:

“Action Memorandum” shall mean the EPA Action Memorandum relating to the Site signed on _____, by the Regional Administrator, EPA Region 8, or his/her delegate, and all attachments thereto. The “Action Memorandum” is attached as **Appendix A**.

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

“Crown Mines” shall mean Crown Mines, LLC, a Texas limited liability corporation doing business in Utah and one of the Respondents.

“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 XXIX.

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

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

“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, including, but not limited to, the amount of just compensation), Section XIII (Emergency Response and Notification of Releases),

Paragraph 80 (Work Takeover), community involvement, 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 <http://www2.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 the EPA and Respondents.

“Post-Removal Site Control” shall mean actions necessary to ensure the effectiveness and integrity of the removal action to be performed pursuant to this Settlement consistent with Sections 300.415(I) 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, 42 U.S.C. §§ 6901-6992 (also known as the Resource Conservation and Recovery Act).

“Respondents” shall mean Crown Mines, LLC and the Town of Marysvale.

“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 XXVIII (Integration/Appendices)). In the event of conflict between this Settlement and any appendix, this Settlement shall control.

“Site” shall mean the Bullion Canyon Mills Superfund Site, encompassing Fireman’s Park and the Bully Boy Camping Area, and areas in close proximity, located approximately 3.5 miles and 6.2 miles west of the Town of Marysvale, Piute County, Utah, respectively, along Bullion Canyon Road and depicted generally on the map in the SOW.

“State” shall mean the State of Utah.

“Statement of Work” or “SOW” shall mean the document describing the activities Respondents 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.

“Town” shall mean the Town of Marysvale, which is a political subdivision of the State of Utah and one of the Respondents.

“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.

“UDEQ” shall mean the Utah Department of Environmental Quality and any successor departments or agencies of the State.

“United States” shall mean the United States of America and each department, agency, and instrumentality of the United States, including the 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); and (c) any “solid waste” under Section 1004(27) of RCRA, 42 U.S.C. § 6903(27).

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

IV. FINDINGS OF FACT

9. The Site is located in Bullion Canyon, which is nestled in the Tushar Mountains generally southwest of the Town of Marysvale, Piute County, Utah. The Site encompasses Fireman’s Park and the Bully Boy Camping Area, and areas in close proximity, located approximately 3.5 and 6.2 miles west of the Town of Marysvale, respectively.

10. In 2004, UDEQ conducted an assessment of a former mining district west of the Town of Marysvale and determined that elevated levels of lead exist at Fireman’s Park and the Bully Boy Camping Area, both of which are areas frequently used for camping and associated recreational activities.

11. The EPA conducted additional surface and subsurface soil sampling at Fireman’s Park’s individual campsites and common areas on October 27, 2015.

12. The EPA’s surface samples from Fireman’s Park show that three eastern campsites have lead concentrations of 5330, 1070, and 2700 milligrams per kilogram, respectively, and mercury concentrations of 149, 29, and 100, respectively. The EPA’s subsurface samples from Fireman’s Park show that the same three eastern campsites have lead concentrations of 6910, 2210, and 7620 milligrams per kilogram, respectively, and mercury concentrations of 228, 57, and 312 milligrams per kilogram, respectively.

13. UDEQ’s surface samples from the Bully Boy Camping Area show lead concentrations of 3,780, 7,750, 7,760, 12,700, and 19,600 milligrams per kilogram.

14. Crown Mines is a Texas limited liability company doing business in Utah.
15. Crown Mines is the current owner of the property underlying the Bully Boy Camping Area.
16. The Town is a political subdivision of the State of Utah.
17. The Town is the current owner of the property underlying Fireman's Park.
18. Both the Bully Boy Camping Area property and the Fireman's Park property include campsites that are regularly used by locals and visitors. In addition, Fireman's Park is often used by large groups, including youth groups and families.

19. If either property is left unaddressed, camp visitors, including children, may be exposed to lead, mercury, and other heavy metals that are hazardous to public health and the environment.

20. Exposure to heavy metals, including lead and mercury, may cause adverse health effects in humans. Ecosystems near sources of heavy metals may also experience adverse effects including loss of biodiversity, changes in community composition, decreased growth, and reproductive rates in plants and animals, and neurological effects in vertebrates.

V. CONCLUSIONS OF LAW AND DETERMINATIONS

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

- a. The Bullion Canyon Mills 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 substance(s)" as defined by Section 101(14) of CERCLA, 42 U.S.C. § 9601(14).
- c. Each Respondent is a "person" as defined by Section 101(21) of CERCLA, 42 U.S.C. § 9601(21).
- d. Each Respondent is a responsible party under Section 107(a) of CERCLA, 42 U.S.C. § 9607(a) as to its respective portion of the Site.
- e. Respondents are the "owners" and/or "operators" of a facility as to their respective portion of the Site, 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).
- f. The conditions described in 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).

g. The EPA determined in the Action Memorandum that the conditions at the Site may constitute an imminent and substantial endangerment to the public health or welfare or the environment because of an actual or threatened release of a hazardous substance from the facility within the meaning of Section 106(a) of CERCLA, 42 U.S.C. § 9606(a).

h. 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

22. 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 Respondents 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

23. Respondents may retain one or more contractors or subcontractors to perform the Work and shall notify the EPA of the name(s) and qualifications of such contractor(s) or subcontractor(s) within 30 days after the Effective Date. Respondents shall also notify the EPA of the name(s) and qualification(s) of any other contractor(s) or subcontractor(s) retained to perform the Work at least 15 days prior to commencement of such Work. The EPA retains the right to disapprove of any or all of the contractors and/or subcontractors retained by Respondents. If the EPA disapproves of a selected contractor or subcontractor, Respondents shall retain a different contractor or subcontractor and shall notify the EPA of that contractor's or subcontractor's name and qualifications within 15 days after the EPA's disapproval. The qualifications of the persons undertaking the Work for Respondents shall be subject to the EPA's review for verification that such persons meet minimum technical background and experience requirements.

24. Within 5 days after the Effective Date, Respondents shall designate their Project Coordinators who shall be responsible for administration of all actions by Respondents required by this Settlement and shall submit to the EPA the designated Project Coordinator's name, address, telephone number, email address, and qualifications. To the greatest extent possible, the Project Coordinators shall be present on Site or readily available during Site work. The EPA retains the right to disapprove of the designated Project Coordinators. If the EPA disapproves either or both of the designated Project Coordinators, Respondents shall retain a different Project Coordinator and shall notify the EPA of that person's name, address, telephone number, email address, and qualifications within 15 days following the EPA's disapproval. Notice or communication relating to this Settlement from the EPA to Respondents' Project Coordinators shall constitute notice or communication to all Respondents.

25. The EPA has designated Martin McComb of the Emergency Preparedness and Response Program, Region 8, as its On-Scene Coordinator (OSC). The EPA and Respondents shall have the right, subject to Paragraph 24, to change their respective designated OSCs or

Project Coordinators. Respondents shall notify the EPA 15 days before such a change is made. The initial notification by Respondents may be made orally, but shall be promptly followed by a written notice.

26. The OSC shall be responsible for overseeing Respondents' implementation of this Settlement. The OSC shall have the authority vested in 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 OSC from the Site shall not be cause for stoppage of work unless specifically directed by the OSC.

VIII. WORK TO BE PERFORMED

27. Respondents shall perform, at a minimum, all actions necessary to implement the SOW. The actions to be implemented generally include, but are not limited to, the following: re-grading and capping of soils, construction of proper drainage and erosion control features, restoration and re-vegetation of disturbed areas, placement of large boulders or other appropriate terrain features, installation of proper signage, excavation and removal of soils.

28. 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 Respondents receive notification from the EPA of the modification, amendment, or replacement.

29. Work Plan and Implementation.

a. Within 15 days after the Effective Date, in accordance with Paragraph 30 (Submission of Deliverables), Respondents shall submit to the EPA for approval draft work plans for performing the removal actions ("Removal Work Plan") each Respondent is responsible for completing pursuant to the SOW and generally described in Paragraph 27 above. Respondents may choose to submit a joint draft Removal Work Plan. Any draft Removal Work Plan shall provide a description of, and an expeditious schedule for, the actions required by this Settlement.

b. The EPA may approve, disapprove, require revisions to, or modify the draft Removal Work Plan(s) in whole or in part. If the EPA requires revisions, Respondents shall submit a revised draft Removal Work Plan(s) within 15 days after receipt of the EPA's notification of the required revisions. Respondents shall implement the Removal Work Plan(s) as approved in writing by the EPA in accordance with the schedule approved by the EPA. Once approved, or approved with modifications, the Removal Work Plan(s), 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(s) Respondents shall commence implementation of the Work in accordance with the schedule included therein. Respondents 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 the EPA approval under the SOW shall be reviewed and approved by the EPA in accordance with this Paragraph.

30. Submission of Deliverables.

a. Except as otherwise provided in this Settlement, Respondents shall direct all submissions required by this Settlement to the OSC at Martin McComb, 1595 Wynkoop Street, Denver, CO 80202, (303) 312-6963, mccomb.martin@epa.gov. Respondents shall submit all deliverables required by this Settlement, the attached SOW, or any approved work plan to the EPA in accordance with the schedule set forth in such plan.

b. Respondents shall submit all deliverables in electronic form.

31. Health and Safety Plan. Within 15 days after the Effective Date, Respondents shall submit for the EPA review and comment plans or a joint plan that ensures the protection of the public health and safety during performance of on-site work under this Settlement. This plan shall be prepared in accordance with "OSWER Integrated Health and Safety Program Operating Practices for OSWER Field Activities," Pub. 9285.0-OIC (Nov. 2002), available on the NSCEP database at <http://www.epa.gov/nscep/index.html>, and "EPA's Emergency Responder Health and Safety Manual," OSWER Directive 9285.3-12 (July 2005 and updates), available at <http://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 the EPA determines that it is appropriate, the plan shall also include contingency planning. Respondents shall incorporate all changes to the plan recommended by the EPA and shall implement the plan during the pendency of the removal action.

32. Community Involvement Plan. The EPA will prepare a community involvement plan, in accordance with the EPA guidance and the NCP. If requested by the EPA, Respondents shall participate in community involvement activities, including participation in (1) the preparation of information regarding the Work for dissemination to the public, with consideration given to including mass media and/or Internet notification, and (2) public meetings that may be held or sponsored by the EPA to explain activities at or relating to the Site. Respondents' support of the 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 Respondents at the EPA's request are subject to the EPA's oversight. Upon the EPA's request, Respondents shall establish a community information repository at or near the Site to house one copy of the administrative record.

33. Post-Removal Site Control. In accordance with the Removal Work Plan schedule, or as otherwise directed by the EPA, each Respondent shall submit a proposal for Post-Removal Site Control for its respective portion of the Site, which shall include, but not be limited to: the recording of an environmental covenant pursuant to Utah Code § 57-25-101 *et seq.* Upon the EPA approval, Respondents 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 the EPA determines that no further Post-Removal Site Control is necessary. Respondents shall provide the EPA with documentation of all Post-Removal Site Control commitments.

34. Progress Reports. Respondents shall submit individual or joint written progress reports to the EPA concerning actions undertaken pursuant to this Settlement on a monthly basis, or as otherwise requested by the EPA, from the date of receipt of the EPA's approval of the Removal Work Plan until issuance of Notice of Completion of Work pursuant to Section XXVII, unless otherwise directed in writing by the OSC. 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.

35. Final Report. Within 30 days after completion of all Work required by this Settlement, other than continuing obligations listed in Paragraph 101 (notice of completion), Respondents shall submit for the 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 a Respondent or Respondents' 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."

36. Off-Site Shipments.

a. Respondents may ship hazardous substances, pollutants and contaminants from the Site to an off-Site facility only if they comply with Section 121(d)(3) of CERCLA, 42 U.S.C. § 9621(d)(3), and 40 C.F.R. § 300.440. Respondents will be deemed to be in compliance with CERCLA Section 121(d)(3) and 40 C.F.R. § 300.440 regarding a shipment if Respondents obtain a prior determination from the EPA that the proposed receiving facility for such shipment is acceptable under the criteria of 40 C.F.R. § 300.440(b).

b. Respondents may ship Waste Material from the Site to an out-of-state waste management facility only if, prior to any shipment, they provide written notice to the

appropriate state environmental official in the receiving facility's state and to the OSC. 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 OSC 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.

IX. PROPERTY REQUIREMENTS

37. Respondents shall not transfer any of the areas within the Site without first securing transferee's consent to an agreement that: (i) is enforceable by the EPA and (ii) until the implementation of Post Removal Site Control at any such area within the Site requires the transferee to (a) provide access to any such areas within the Site; (b) use any such areas in compliance with environmental law; and (c) coordinate with the EPA regarding any activities that could potentially cause or exacerbate a release of hazardous substances.

38. If any portion of the Site, or any other property where access is needed to implement this Settlement, is owned and controlled by Respondents, Respondents shall commencing on the Effective Date, provide the EPA and its representatives, including contractors, with access at all reasonable times to such property, for the purpose of conducting any activity relating to the Settlement.

39. Where any action under this Settlement is to be performed in areas owned by or in possession or control of someone other than Respondents, Respondents shall use their best efforts to obtain all necessary access agreements within 30 Days after Respondent becomes aware that such access is needed, or as otherwise specified in writing by the EPA project coordinator.

40. Best Efforts. As used in this Section, "best efforts" means the efforts that a reasonable person in the position of Respondents 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 Respondents are unable to accomplish what is required through "best efforts" in a timely manner, they shall notify the EPA, and include a description of the steps taken to comply with the requirements. If the EPA deems it appropriate, it may assist Respondents, 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).

41. Notwithstanding any provision in this Settlement, the EPA retains all of its access authorities and rights, as well as all 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

42. Respondents shall provide to the EPA, 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 Respondents' possession or control or that of their 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. Respondents shall also make available to the EPA, for purposes of investigation, information gathering, or testimony, their employees, agents, or representatives with knowledge of relevant facts concerning the performance of the Work.

43. Privileged and Protected Claims.

a. Respondents may assert all or part of a Record requested by the EPA is privileged or protected as provided under federal law, in lieu of providing the Record, provided Respondents comply with Paragraph 43.b, and except as provided in Paragraph 43.c.

b. If Respondents assert such a privilege or protection, they shall provide the EPA 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, Respondents shall provide the Record to the EPA in redacted form to mask the privileged or protected portion only. Respondent shall retain all Records that they claim to be privileged or protected until the EPA has had a reasonable opportunity to dispute the privilege or protection claim and any such dispute has been resolved in Respondents' favor.

c. Respondents 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; or (2) the portion of any Record that Respondent are required to create or generate pursuant to this Settlement.

44. Business Confidential Claims. Respondents may assert that all or part of a Record provided to the EPA 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). Respondents shall segregate and clearly identify all Records or parts thereof submitted under this Settlement for which Respondents assert business confidentiality claims. Records submitted to the EPA determined to be confidential by the EPA 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 the EPA, or if the EPA has notified Respondents 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.

45. Notwithstanding any provision of this Settlement, the EPA retains all of its 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

46. Until ten (10) years after the EPA provides Respondents with notice, pursuant to Section XXVII (Notice of Completion of Work), that all Work has been fully performed in accordance with this Settlement, Respondents 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 Respondents who are potentially liable as owners or operators 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. Each 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 each 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.

47. At the conclusion of the document retention period, Respondents shall notify the EPA at least 90 days prior to the destruction of any such Records, and, upon request by the EPA or the State, and except as provided in Paragraph 43 (Privileged and Protected Claims), Respondents shall deliver any such Records to the EPA or the State.

48. Each Respondent certifies individually 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 the EPA or the State and that it has fully complied with any and all the 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

49. Nothing in this Settlement limits Respondents' 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. § 6921(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 the 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.

50. 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, Respondents shall submit timely and complete applications and take all other actions necessary to obtain and to comply with all such permits or approvals. Respondents 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

51. 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, Respondents shall immediately take all appropriate action to prevent, abate, or minimize such release or threat of release. Respondents shall take these actions in accordance with all applicable provisions of this Settlement, including, but not limited to, the Health and Safety Plan. Respondents shall also immediately notify the OSC or, in the event of his unavailability, the Regional Duty Officer at (303) 312-6510 and the Region 8 Emergency Response Spill Hotline, at 1 (800) 227-8914 of the incident or Site conditions. In the event that Respondents fail to take appropriate response action as required by this Paragraph, and the EPA takes such action instead, Respondents shall reimburse the EPA for all costs of such response action not inconsistent with the NCP pursuant to Section XIV (Payment of Response Costs).

52. Release Reporting. Upon the occurrence of any event during performance of the Work that Respondents are required to report pursuant to Section 103 of CERCLA, 42 U.S.C. § 9603, or Section 304 of the Emergency Planning and Community Right-to-know Act (EPCRA), 42 U.S.C. § 11004, Respondents shall immediately orally notify the OSC or, in the event of his unavailability, the Region 8 Emergency Response Spill Report Hotline, at 1 (800) 227-8914, and the National Response Center at 1 (800) 424-8802. This reporting requirement is in addition to, and not in lieu of, reporting under Section 103(c) of CERCLA, 42 U.S.C. § 9603(c), and Section 304 of the Emergency Planning and Community Right-To-Know Act of 1986, 42 U.S.C. § 11004.

53. For any event covered under this Section, Respondents shall submit a written report to the EPA 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

54. Payments for Future Response Costs. Respondents shall pay to the EPA all Future Response Costs not inconsistent with the NCP. Respondents shall make payments to the EPA by Fedwire Electronic Funds Transfer (EFT) to:

Federal Reserve Bank of New York
ABA = 021030004
Account = 68010727
SWIFT address = FRNYUS33
33 Liberty Street
New York, NY 10045
Field Tag 4200 of the Fedwire message should read "D 68010727 Environmental Protection Agency"

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

a. At the time of payment, Respondents shall send notice that payment has been made to the U.S. EPA Region 8 Finance Program Manager, Superfund Remedial Section, 8TMS-FMP, 1595 Wynkoop Street, Denver, Colorado 80202, 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 the Site/Spill ID Number and the EPA docket number for this action.

b. Periodic Bills. On a periodic basis, the EPA will send Respondents a bill requiring payment that includes a certified cost summary, which includes direct and indirect costs incurred by the EPA, its contractors, subcontractors, and the United States Department of Justice. Respondents shall make all payments within 30 days after Respondents' receipt of each bill requiring payment, except as otherwise provided in Paragraph 56 (Contesting Future Response Costs).

c. Deposit of Future Response Costs Payments. The total amount to be paid by Respondents pursuant to Paragraph 54.b (Periodic Bills) shall be deposited by the EPA in the Bullion Canyon Mills Site 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 the EPA to the EPA Hazardous Substance Superfund, provided, however, that the EPA may deposit a Future Response Costs payment directly into the EPA Hazardous Substance Superfund if, at the time the payment is received, the EPA estimates that the Bullion Canyon Mills Site Special Account balance is sufficient to address currently anticipated future response actions to be conducted or financed by the EPA at or in connection with the Site. Any decision by the 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 Respondents pursuant to the dispute resolution provisions of this Settlement or in any other forum.

55. Interest. In the event that any payment for Future Response Costs is not made by the date required, Respondents 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 Respondents' 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' failure to make timely payments under this Section, including but not limited to, payment of stipulated penalties pursuant to Paragraph 67 (Stipulated Penalties - Work).

56. Contesting Future Response Costs. Respondents may initiate the procedures of Section XV (Dispute Resolution) regarding payment of any Future Response Costs billed under Paragraph 54 (Payments for Future Response Costs) if they determine that the 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 the EPA incurred excess costs as a direct result of an EPA action that was inconsistent with a specific provision or provisions of the NCP. To initiate such dispute, Respondents shall submit a Notice of Dispute in writing to the OSC within 30 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 Respondents submit a Notice of Dispute, Respondents shall within the 30-day period, also as a requirement for initiating the dispute, (a) pay all uncontested Future Response Costs to the EPA in the manner described in Paragraph 54, 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. Respondents shall send to the OSC 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 the EPA prevails in the dispute, within 5 days after the resolution of the dispute, Respondents shall pay the sums due (with accrued interest) to the EPA in the manner described in Paragraph 54. If Respondents prevail concerning any aspect of the contested costs, Respondent shall pay that portion of the costs (plus associated accrued interest) for which they did not prevail to the EPA in the manner described in Paragraph 54. Respondents 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 regarding Respondent' obligation to reimburse the EPA for its Future Response Costs.

XV. DISPUTE RESOLUTION

57. 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.

58. Informal Dispute Resolution. If Respondents object to any EPA action taken pursuant to this Settlement, including billings for Future Response Costs, they shall send the EPA a written Notice of Dispute describing the objection(s) within 30 days after such action. The EPA and Respondents shall have 15 days from the EPA's receipt of Respondent' Notice of

Dispute to resolve the dispute through informal negotiations (the “Negotiation Period”). The Negotiation Period may be extended at the sole discretion of the EPA. 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.

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

60. Except as provided in Paragraph 56 (Contesting Future Response Costs) or as agreed by the EPA, the invocation of formal dispute resolution procedures under this Section does not extend, postpone, or affect in any way any obligation of Respondents under this Settlement. Except as provided in Paragraph 70, 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 Respondents do not prevail on the disputed issue, stipulated penalties shall be assessed and paid as provided in Section XVII (Stipulated Penalties).

XVI. FORCE MAJEURE

61. “Force Majeure” for purposes of this Settlement, is defined as any event arising from causes beyond the control of Respondents, of any entity controlled by Respondents, or of Respondents’ contractors that delays or prevents the performance of any obligation under this Settlement despite Respondents’ best efforts to fulfill the obligation. The requirement that Respondents 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.

62. If any event occurs or has occurred that may delay the performance of any obligation under this Settlement for which Respondents intend or may intend to assert a claim of force majeure, Respondents shall notify the EPA’s OSC orally or, in his or her absence, the alternate the EPA OSC, or, in the event both of the EPA’s designated representatives are unavailable, the Director of the Waste Management Division, EPA Region 8, within 48 hours of when Respondents first knew that the event might cause a delay. Within 5 days thereafter, Respondents shall provide in writing to the 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; Respondents’ rationale for attributing such delay to a

force majeure; and a statement as to whether, in the opinion of Respondents, such event may cause or contribute to an endangerment to public health or welfare, or the environment. Respondents shall include with any notice all available documentation supporting their claim that the delay was attributable to a force majeure. Respondents shall be deemed to know of any circumstance of which Respondents, any entity controlled by Respondents, or Respondents' contractors knew or should have known. Failure to comply with the above requirements regarding an event shall preclude Respondents from asserting any claim of force majeure regarding that event, provided, however, that if the EPA, despite the late or incomplete notice, is able to assess to its satisfaction whether the event is a force majeure under Paragraph 61 and whether Respondents have exercised their best efforts under Paragraph 61, the EPA may, in its unreviewable discretion, excuse in writing Respondents' failure to submit timely or complete notices under this Paragraph.

63. If the 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 the 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, the EPA will notify Respondents in writing of its decision. If the EPA agrees that the delay is attributable to a force majeure, the EPA will notify Respondents in writing of the length of the extension, if any, for performance of the obligations affected by the force majeure.

64. If Respondents elect to invoke the dispute resolution procedures set forth in Section XV (Dispute Resolution), they shall do so no later than 15 days after receipt of the 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 Respondents complied with the requirements of Paragraphs 61 and 62. If Respondents carry this burden, the delay at issue shall be deemed not to be a violation by Respondents of the affected obligation of this Settlement identified to the EPA.

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

XVII. STIPULATED PENALTIES

66. Respondents shall be liable to the EPA for stipulated penalties in the amounts set forth in Paragraphs 67 and 68 for failure to comply with the requirements of this Settlement specified below, unless excused under Section XVI (Force Majeure). "Compliance" by Respondents shall include completion of all activities and obligations, including payments, required under this Settlement, or any deliverable approved under this Settlement, in accordance with all applicable requirements of law, this Settlement, the attached SOW, and any deliverables

approved under this Settlement and within the specified time schedules established by and approved under this Settlement.

67. Stipulated Penalty Amounts - Work.

a. The following stipulated penalties shall accrue per violation per day for any noncompliance identified in Paragraph 67.b:

| <u>Penalty Per Violation Per Day</u> | <u>Period of Noncompliance</u> |
|--------------------------------------|--------------------------------|
| \$500.00 | 1st through 14th day |
| \$1,000.00 | 15th through 30th day |
| \$1,500.00 | 31st day and beyond |

b. Failure to timely submit the Work Plan, failure to timely begin the Work, failure to timely submit the Final Report.

68. Stipulated Penalty Amounts - Deliverables. The following stipulated penalties shall accrue per violation per day for failure to submit timely or adequate deliverables pursuant to this Settlement, or for any other noncompliance under this Settlement.

| <u>Penalty Per Violation Per Day</u> | <u>Period of Noncompliance</u> |
|--------------------------------------|--------------------------------|
| \$250.00 | 1st through 14th day |
| \$500.00 | 15th through 30th day |
| \$800.00 | 31st day and beyond |

69. In the event that the EPA assumes performance of a portion or all of the Work pursuant to Paragraph 80 (Work Takeover), Respondents shall be liable for a stipulated penalty in the amount of \$40,000.

70. 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 the EPA's decision or order. However, stipulated penalties shall not accrue: (a) with respect to a deficient submission under Paragraph 29 (Work Plan and Implementation), during the period, if any, beginning on the 31st day after the EPA's receipt of such submission until the date that the EPA notifies Respondents of any deficiency; and (b) with respect to a decision by the EPA Management Official at the Assistant Regional Administrator level or higher, under Paragraph 59 (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.

71. Following the EPA's determination that Respondents have failed to comply with a requirement of this Settlement, the EPA may give Respondents written notification of the failure and describe the noncompliance. The EPA may send Respondents a written demand for

payment of the penalties. However, penalties shall accrue as provided in the preceding Paragraph regardless of whether the EPA has notified Respondents of a violation.

72. All penalties accruing under this Section shall be due and payable to the EPA within 30 days after Respondents' receipt from the EPA of a demand for payment of the penalties, unless Respondents invoke the Dispute Resolution procedures under Section XV (Dispute Resolution) within the 30-day period. All payments to the EPA under this Section shall indicate that the payment is for stipulated penalties and shall be made in accordance with Paragraph 54 (Payments for Future Response Costs).

73. If Respondents fail to pay stipulated penalties when due, Respondents shall pay Interest on the unpaid stipulated penalties as follows: (a) if Respondents have 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 70 until the date of payment; and (b) if Respondents fail to timely invoke dispute resolution, Interest shall accrue from the date of demand under Paragraph 72 until the date of payment. If Respondents fail to pay stipulated penalties and Interest when due, the United States may institute proceedings to collect the penalties and Interest.

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

75. Nothing in this Settlement shall be construed as prohibiting, altering, or in any way limiting the ability of the EPA to seek any other remedies or sanctions available by virtue of Respondents' 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 the 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 the EPA assumes performance of a portion or all of the Work pursuant to Paragraph 80 (Work Takeover).

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

XVIII. COVENANTS BY EPA

77. Except as provided in Section XIX (Reservations of Rights by EPA), the EPA covenants not to sue or to take administrative action against Respondents, Respondents' successors and assigns, but only to the extent that the liability of such person or entity is based on the liability of Respondents, and Respondents' former or current officers, directors, or employees, but only to the extent that the liability of such person is based on acts and/or omissions that occurred in the scope of the person's employment or capacity as an officer, director, or employee 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 Respondents of their obligations under this Settlement. These covenants extend only to Respondents and do not extend to any other person.

XIX. RESERVATIONS OF RIGHTS BY EPA

78. Except as specifically provided in this Settlement, nothing in this Settlement shall limit the power and authority of the 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 the 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 Respondents in the future to perform additional activities pursuant to CERCLA or any other applicable law.

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

- a. liability for failure by Respondents 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.

80. Work Takeover.

a. In the event the EPA determines that Respondents: (1) have ceased implementation of any portion of the Work; (2) are seriously or repeatedly deficient or late in their performance of the Work; or (3) are implementing the Work in a manner that may cause an endangerment to human health or the environment, the EPA may issue a written notice (“Work Takeover Notice”) to Respondents. Any Work Takeover Notice issued by the EPA (which writing may be electronic) will specify the grounds upon which such notice was issued and will provide Respondents a period of 15 days within which to remedy the circumstances giving rise to the EPA’s issuance of such notice.

b. If, after expiration of the 15-day notice period specified in Paragraph 80.a, Respondents have not remedied to the EPA’s satisfaction the circumstances giving rise to the EPA’s issuance of the relevant Work Takeover Notice, the EPA may at any time thereafter assume the performance of all or any portion(s) of the Work as the EPA deems necessary (“Work Takeover”). The EPA will notify Respondents in writing (which writing may be electronic) if the EPA determines that implementation of a Work Takeover is warranted under this Paragraph 80.b.

c. Respondents may invoke the procedures set forth in Paragraph 59 (Formal Dispute Resolution) to dispute the EPA’s implementation of a Work Takeover under Paragraph 80.b. However, notwithstanding Respondents’ invocation of such dispute resolution procedures, and during the pendency of any such dispute, the EPA may in its sole discretion commence and continue a Work Takeover under Paragraph 80.b until the earlier of (1) the date that Respondents remedy, to the EPA’s satisfaction, the circumstances giving rise to the 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 59 (Formal Dispute Resolution).

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

XX. COVENANTS BY RESPONDENT

81. Respondents covenant 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.

82. 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 the EPA), other than in Paragraph 79.a (liability for failure to meet a requirement of the Settlement), 79.d (criminal liability), or 79.e (violations of federal/state law during or after implementation of the Work), but only to the extent that Respondents' claims arise from the same response action, response costs, or damages that the United States is seeking pursuant to the applicable reservation.

83. 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).

84. Respondents reserve, 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 the EPA's selection of response actions, or the oversight or approval of Respondents' deliverables or activities.

XXI. OTHER CLAIMS

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

86. 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 Respondents 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.

87. No action or decision by the 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

88. 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 Respondents), 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).

89. The Parties agree that this Settlement constitutes an administrative settlement pursuant to which each 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.

90. The Parties further agree that this Settlement constitutes an administrative settlement pursuant to which each 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).

91. Respondents shall, with respect to any suit or claim brought by it for matters related to this Settlement, notify the EPA in writing no later than 60 days prior to the initiation of such suit or claim. Each Respondent also shall, with respect to any suit or claim brought against it for matters related to this Settlement, notify the EPA in writing within 10 days after service of the complaint or claim upon it. In addition, each Respondent shall notify the 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.

92. In any subsequent administrative or judicial proceeding initiated by the EPA, or by the United States on behalf of the EPA, for injunctive relief, recovery of response costs, or other relief relating to the Site, Respondents 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 the EPA set forth in Section XVIII (Covenants by EPA).

XXIII. INDEMNIFICATION

93. The United States does not assume any liability by entering into this Settlement or by virtue of any designation of Respondents as the 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). Respondents 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 Respondents, their officers, directors, employees, agents, contractors, or subcontractors, and any persons acting

on Respondents' behalf or under their control, in carrying out activities pursuant to this Settlement. Further, Respondents agree 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 Respondents, their 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 Respondents in carrying out activities pursuant to this Settlement. Neither Respondent nor any such contractor shall be considered an agent of the United States.

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

95. Respondents covenant not to sue and agree 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 any one or more of Respondents 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, Respondents 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 any one or more of Respondents 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

96. No later than 30 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 XXVII (Notice of Completion of Work), commercial general liability insurance with limits of \$1 million, for any one occurrence, and automobile insurance with limits of \$1 million, combined single limit, naming the 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, Respondents shall provide the EPA with certificates of such insurance and a copy of each insurance policy. Respondents shall resubmit such certificates and copies of policies 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 Respondents in furtherance of this Settlement. If Respondents demonstrate by evidence satisfactory to the 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, Respondents need provide only that portion of the insurance described above that is not maintained by the contractor or subcontractor.

XXV. MODIFICATION

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

98. If Respondents seek permission to deviate from any approved work plan or schedule or the SOW, Respondents' Project Coordinators shall submit a written request to the EPA for approval outlining the proposed modification and its basis. Respondents may not proceed with the requested deviation until receiving oral or written approval from the OSC pursuant to Paragraph 97.

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

XXVI. ADDITIONAL REMOVAL ACTION

100. If the EPA determines that additional removal actions not included in the Removal Work Plan or other approved plan(s) are necessary to protect public health, welfare, or the environment, the EPA will notify Respondents of that determination. Unless otherwise stated by the EPA, within 30 days after receipt of notice from the EPA that additional removal actions are necessary to protect public health, welfare, or the environment, Respondents shall submit for approval by the 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 the EPA's approval of the plan pursuant to Paragraph 29 (Work Plan and Implementation), Respondents 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 OSC's authority to make oral modifications to any plan or schedule pursuant to Section XXV (Modification).

XXVII. NOTICE OF COMPLETION OF WORK

101. When the EPA determines, after the EPA's review of the Final Report, that all Work has been fully performed in accordance with this Settlement, with the exception of any continuing obligations required by this Settlement, the EPA will provide written notice to Respondents. If the EPA determines that such Work has not been completed in accordance with this Settlement, the EPA will notify Respondents, provide a list of the deficiencies, and require that Respondents modify the Removal Work Plan if appropriate in order to correct such deficiencies. Respondents shall implement the modified and approved Removal Work Plan and shall submit a modified Final Report in accordance with the EPA notice. Failure by Respondents to implement the approved modified Removal Work Plan shall be a violation of this Settlement.

XXVIII. INTEGRATION/APPENDICES

102. 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 Action Memorandum.
- b. "Appendix B" is the SOW.

XXIX. EFFECTIVE DATE

103. This Settlement shall be effective upon signature by the Regional Administrator or his delegatee.

Effective Date: May 13, 2016

IT IS SO AGREED AND ORDERED:

U.S. ENVIRONMENTAL PROTECTION AGENCY:

5/13/16
Dated

Andrea Madigan
Andrea Madigan, CERCLA Supervisory Attorney
Legal Enforcement Program
U.S. Environmental Protection Agency, Region 8

5/12/16
Dated

Kelley Land
Kelley Land, Director
RCRA & CERCLA Technical Enforcement Program
U.S. Environmental Protection Agency, Region 8

5/13/2016
Dated

David Ostrander
David Ostrander, Director
Emergency Response and Preparedness Program
U.S. Environmental Protection Agency, Region 8

Signature Page for Settlement Regarding Bullion Canyon Mills Superfund Site

FOR _____ :

Crown Mines, LLC



5/9/2014

Dated

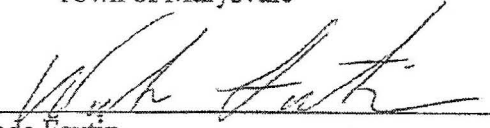
Bart Fehr
Manager
Crown Mines, LLC
2211 Norfolk Street
Suite 211
Houston, Texas 77098

Signature Page for Settlement Regarding Bullion Canyon Mills Superfund Site

FOR _____:

Town of Marysvale

5/10/16
Dated



Wade Fautin

Mayor
Town of Marysvale
375 West 250 North
Marysvale, Utah 84750

APPENDIX A



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 REGION 8
 1595 Wynkoop STREET
 DENVER, CO 80202-1129
 Phone 800-227-8917
<http://www.epa.gov/region08>**

Ref: 8EPR-ER

ACTION MEMORANDUM

SUBJECT: Approval and Funding for a Removal Action at the Bullion Canyon Mills Site in Piute County, Utah

FROM: Martin McComb *M McComb*
 Federal On-Scene Coordinator

THRU: Laura Williams, Unit Leader *M McComb for*
 Emergency Response

TO: David A. Ostrander, Director
 Emergency Response and Preparedness Program

Site ID# A8K8

I. PURPOSE

The purpose of this Action Memorandum is to request and document approval of the removal action described herein for the Bullion Canyon Mills Site (Site) located in Marysvale, Piute County, Utah. This time-critical removal action addresses soil at public campgrounds which are contaminated with lead and mercury. Conditions existing at the Site present a threat to public health and the environment and meet the criteria for initiating a removal action under 40 CFR 300.415(b)(2) of the National Contingency Plan (NCP).

This removal action involves no nationally-significant or precedent-setting issues. This removal action will not establish any precedent for how future response actions will be taken and will not commit the US Environmental Protection Agency (EPA) to a course of action that could have a significant impact on future responses or resources.

II. SITE CONDITIONS AND BACKGROUND

| | |
|--------------------------------------|---------------------------------------|
| Site Name: | Bullion Canyon Mills |
| Superfund Site ID (SSID): | A8K8 |
| NRC Case Number: | Not applicable. |
| CERCLIS Number: | UT0012605880 |
| Site Location: | Marysvale, Piute County, Utah |
| Lat/Long: | 38.4137856/-112.3273627 |
| Potentially Responsible Party (PRP): | Crown Mines L.L.C., Town of Marysvale |
| NPL Status: | Non NPL |
| Removal Start Date: | May 16, 2016 |

A. Site Description

1. Removal Site Evaluation

In 2004, the Utah Department of Environmental Quality (UDEQ) conducted an assessment of a former mining district west of Marysvale, Utah, and determined that elevated levels of lead exist in two areas that are frequently used for camping and associated recreational activities:

1. Bully Boy Camping Area – an informal camping area near the former Bully Boy Mill that is frequently used by local residents.
2. Fireman’s Park – a formal group campground and day use area near the former Bullion Mill that is managed by the Town of Marysvale.

The area did not qualify for listing as a Superfund Site and was referred to the EPA’s Emergency Response Unit in 2015 due to exposure concerns and the potential for human health impacts.

Bully Boy Camping Area

There appear to have been at least two historic tailing impoundments down gradient of the Bully Boy Mill. These tailing impoundments no longer hold water and semi-permanent camps have developed on top of the remnant deposits. These camps have been used by locals each summer season for decades.

UDEQ collected five samples from the first six inches of surface soil in this area, and the laboratory results for lead in mg/kg were: 3780, 7750, 7760, 12,700 and 19,600. EPA’s Residential Screening Level (RSL) for lead in soil is 400 mg/kg. The samples were also tested for mercury, but those results were all below EPA’s RSL.

Fireman’s Park

EPA collected surface (0”) and subsurface (0-6”) soil samples from Fireman’s Park on October 27, 2015. These samples were collected from each individual campsite as well as the common areas in the campground. Laboratory results from these samples indicated that the three campsites to the east have concentrations of both lead and mercury in the surface and subsurface samples that exceed EPA’s RSLs. There are also slightly elevated levels of both lead and mercury in subsurface samples from the common areas. These sample results are summarized in the following table:

| ID | Description | Lead (mg/kg) | | | Mercury (mg/kg) | | |
|----|--------------|--------------|---------|------------|-----------------|---------|------------|
| | | RSL | Surface | Subsurface | RSL | Surface | Subsurface |
| 5 | Campsite | 400 | 5330 | 6910 | 11 | 149 | 228 |
| 6 | Campsite | | 1070 | 2210 | | 29 | 57 |
| 7 | Campsite | | 2700 | 7620 | | 100 | 312 |
| 8 | Common Areas | | 137 | 528 | | 1 | 14 |

2. Physical Location

The Site consists of two campgrounds west of Marysville along Bullion Canyon Road in Piute County, Utah. The first is Fireman's Park (3.5 miles from town) and the second is near the historic Bully Boy Mill (6.2 miles from town).

3. Site Characteristics

Gold was discovered in 1865 at the base of what is now known as Bullion Canyon near Marysville, Utah. These placer deposits were traced to their origins in Bullion Canyon, and the Ohio Mining District was formed. By 1869, the camps of Bullion City, Webster City and Virginia City were established and the first of several mills was constructed in the canyon. Mining continued in the canyon until approximately 1938, and the remnants of these historic mining activities, including deposits of contaminated soil, are still evident.

4. Release or Threatened Release into the Environment of a Hazardous Substance, Pollutant, or Contaminant

The presence of lead and mercury in the soils presents a release of hazardous substances to the environment. Both lead and mercury are listed as hazardous substances in 40 CFR §302.4. These contaminants are found at the surface, and there is the potential for exposure, which could impact human health.

5. NPL Status

This Site is neither on nor currently being considered for inclusion on the NPL.

6. Maps, Pictures, Other Geographic Representations

Figure 1: Location of the Site in west-central Utah



Figure 2: Location of the Campgrounds west of Marysvale, Utah



Figure 3: Bully Boy Camping Area (upper informal campsite)



Figure 4: Bully Boy Camping Area (lower informal campsite)



Figure 5: Evidence of Children Playing near the Bully Boy Camping Area



Figure 6: Campsite with Contaminated Soil at Fireman's Park



Figure 7: Campsite with Contaminated Soil at Fireman's Park



Figure 8: Surface Concentrations of Mercury at Fireman's Park



Figure 9: Surface Concentrations of Lead at Fireman's Park



Figure 10: Subsurface (0-6") Concentrations of Mercury at Fireman's Park

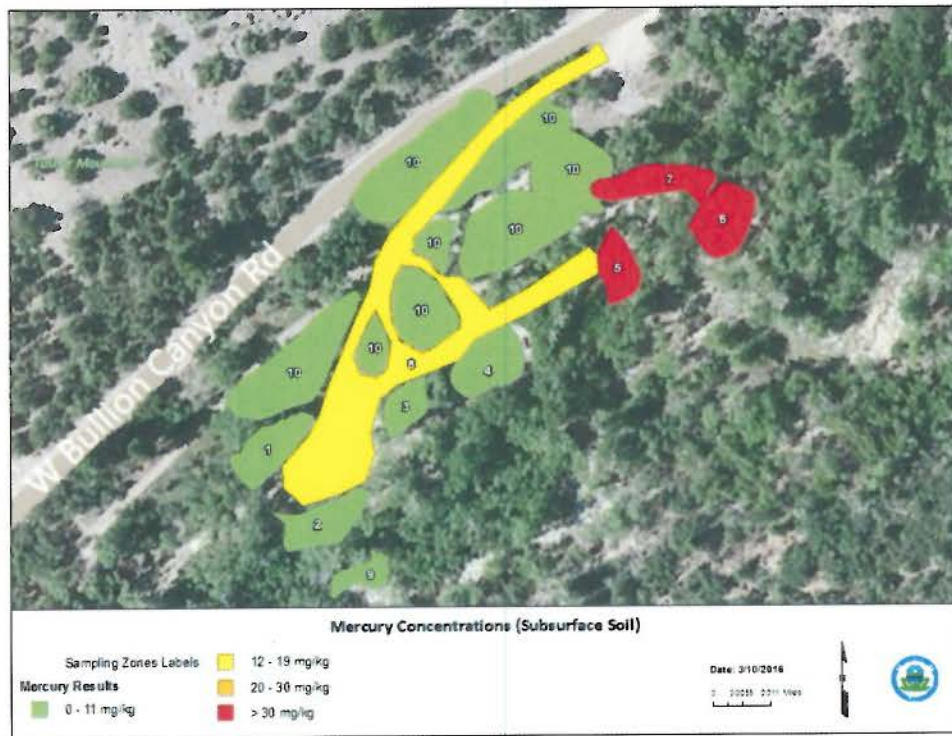


Figure 11: Subsurface (0-6") Concentrations of Lead at Fireman's Park

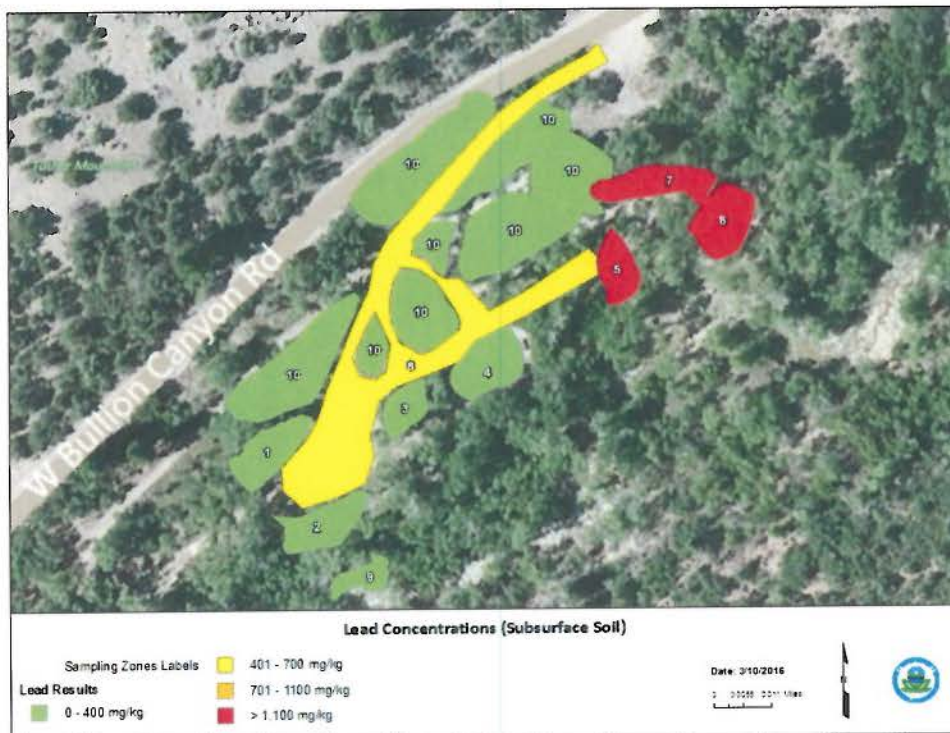


Figure 12: Preliminary Removal Area at Fireman's Park



Figure 13: Preliminary Removal Area at the Bully Boy Camping Area



B. Other Actions to Date

1. Previous Actions

No previous actions have occurred at the Site.

2. Current Actions

There are no current activities on the Site.

C. State and Local Authorities' Role

1. State and Local Actions to date

UDEQ conducted an assessment of the mining district in 2004.

2. Potential for Continued State/Local Response

State and local entities do not have the resources nor authority to conduct this removal action without EPA's involvement. UDEQ is willing to help provide sampling and monitoring support. The Town of Marysville is willing to support community outreach support, restrict access to areas in Fireman's Park where contaminated soil exists until the removal action is completed and restore the areas in Fireman's Park that will be disturbed by the selected removal action.

III. THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES

Conditions at the Site present a threat to public health and the environment and meet the criteria for initiating a removal action under 40 CFR 300.415(b)(2) of the National Contingency Plan (NCP).

EPA has considered all the factors described in 40 CFR 300.415(b)(2) of the NCP and determined that the following factors apply at the Site.

"(i) Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, or pollutants or contaminants."

Both campgrounds are regularly used by both locals and visitors to the area during the summer months. The area is a very popular destination for off-road enthusiasts. Fireman's Park is often utilized by large groups including Boy Scouts and other youth groups. If left unaddressed, camp visitors, including children and maintenance workers, may be exposed to lead, mercury and other heavy metals that are hazardous to public health. Typical activities that are inherent to camping activities, such as eating or sleeping on the ground, could potentially increase the risk of exposure. There are clear indications that children have been playing in contaminated soil near the Bully Boy Camping Area.

“(iv) High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface that may migrate.”

The concentrations of mercury at and near the surface of the Site are nearly 30 times greater than EPA’s accepted screening level for residential soils. There is little or no cover on these soils.

“(vii) The availability of other appropriate federal or state mechanisms to respond to the release.”

Local and state governments do not have the capability to conduct the action on their own and in a timely manner.

IV. ENDANGERMENT DETERMINATION

Actual or threatened releases of hazardous substances from this Site, if not addressed by implementing the response action described in this Action Memorandum, may present an imminent and substantial endangerment to public health, or welfare, or the environment.

V. EXEMPTION FROM STATUTORY LIMITS

Not applicable.

VI. PROPOSED ACTIONS AND ESTIMATED COSTS

A. Proposed Actions

1. Proposed Action Description

Crown Mines and the Town of Marysvale, consistent with an Administrative Order on Consent (AOC) with EPA, will perform the following activities.

Bully Boy Camp

The area will be closed to camping and off-road vehicle use. The soils in and near the Bully Boy Camping Area as roughly depicted in Figure 12 will be re-graded and/or capped with at least 12 inches of non-contaminated material. Trees and other large vegetation will be protected to the extent practical. Proper drainage and erosion control features will be constructed once the cap is installed. All areas in the removal zone will be restored, re-vegetated and large boulders or other terrain features will be installed to prevent vehicular access.

Fireman’s Park

Fireman’s Park will be temporarily closed to facilitate construction activities. The soil in the eastern end of the park as roughly depicted in Figure 11 will be capped with at least 12 inches of non-contaminated material. Some material will be excavated before the cap is installed to remove hot spots and achieve the appropriate drainage at the Site. All excavated material will be transported to the Bully Boy Camping Area and added to the material that will be capped in that location. Any

excavated area will be filled with non-contaminated fill material and the cap will be constructed with appropriate topsoil to support re-vegetation. Proper drainage and erosion control features will be constructed. All areas in the removal zone will be restored and re-vegetated to support future camping and day use activities. It is anticipated that part of the campground may remain closed until the spring of 2017 to help establish the new vegetation.

2. Contribution to Remedial Performance

This effort will, to the extent practical, contribute to any future remedial effort at the Site. However, no further federal action is anticipated at this time.

3. Engineering Evaluation/Cost Analysis (EE/CA)

An EE/CA is not required for an emergency removal action.

4. Applicable or Relevant and Appropriate Requirements (ARARs)

This Action Memorandum addresses the planned emergency removal action at the Bullion Canyon Mills Site. Lead and mercury are the principal contaminants of concern. Removal actions conducted under CERCLA are required, to the extent practicable considering the exigencies of the situation, to attain ARARs. In determining whether compliance with an ARAR is practicable, the lead agency may consider appropriate factors, including the urgency of the situation and the scope of the removal action to be conducted. A table containing potential Site-specific ARARs is provided as Attachment 1 to this Action Memorandum.

5. Project Schedule

The Bully Boy Camping Area (the informal campground) and the contaminated portions of Fireman’s Park will be closed to the public in April 2016 before the camping season begins. Construction activities in both campgrounds will occur in May 16-27, 2016. Restoration activities at both campgrounds will be completed by September 2016. Restoration of the formerly contaminated campsites in Fireman’s Park will occur over the summer of 2016 and those areas should reopen to the public in the spring of 2017.

B. Estimated Costs*

| | |
|--------------------------------------|------------------|
| Data Management Services | \$ 10,000 |
| Sampling and Monitoring | \$ 20,000 |
| SUBTOTAL | \$ 30,000 |
| Contingency Costs (20% of subtotal) | \$ 6,000 |
| Total Removal Project Ceiling | \$ 36,000 |

*EPA direct and indirect costs, although cost recoverable, do not count toward the Removal Ceiling for this removal action. Liable parties may be held financially responsible for costs incurred by the EPA as set forth in Section 107 of CERCLA

VII. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN

A delay in action or no action at this Site would increase the actual or potential threats to public health and/or the environment.

VIII. OUTSTANDING POLICY ISSUES

None

IX. ENFORCEMENT

An Enforcement Addendum has been prepared.

X. APPROVAL

This decision document represents the selected removal action for the Bullion Canyon Mills Site in Piute County, Utah, developed in accordance with CERCLA as amended, and is not inconsistent with the NCP. This decision is based on the administrative record for the Site.

Conditions at the Site meet the NCP section 300.415(b) criteria for a removal action and I recommend your approval of the proposed removal action.. The total project ceiling, if approved, will be \$36,000; this amount will be funded from the Regional removal allowance.

APPROVE



David A. Ostrander, Director
Emergency Response and Preparedness Program

5/13/2016
Date

DISAPPROVE

David A. Ostrander, Director
Emergency Response and Preparedness Program

Date

Attachment 1: Applicable or Relevant and Appropriate Requirements (ARARs)

| Standard, Requirement, Criteria, or Limitation | Citation | Description | Applicable or Relevant and Appropriate | Comments |
|---|---|---|--|--|
| <i>FEDERAL</i> | | | | |
| National Historic Preservation Act | 16 USC § 470 <u>et seq.</u> , 30 CFR Part 63, Part 65, Part 800 | Regulates impacts to historic places and structures | Applicable | This removal action is limited in scope. Applicable if impacts to historic structures occur. Will be complied with to the extent practicable. |
| The Historic and Archaeological Data Preservation Act of 1974 | 16 USC 469 | Protects sites with archeological significance | Applicable | This removal action is limited in scope. Applicable if impacts to places of archeological significance occur. Will be complied with to the extent practicable. |
| Historic Sites Act of 1935, Executive Order 11593 | 16 USC §§ 461 <u>et seq.</u> | Regulates designation and protection of historic places | Applicable | This removal action is limited in scope. Applicable if impacts to historic places occur. Will be complied with to the extent practicable. |

| STATE | | | | |
|---|---|--|--------------------------|---|
| Utah Air Quality Rules | UAC R307-205-5 | Addresses fugitive dusts from construction activities greater than a quarter-acre in size. | Relevant and Appropriate | To be complied with to the extent practical considering the exigencies of the removal action. |
| Utah Air Quality Rules | UAC R307-205-8 | Specifically describes the proper management of fugitive dusts, construction activities, and roadways associated with tailings piles and ponds. | Relevant and Appropriate | To be complied with to the extent practical considering the exigencies of the removal action. |
| Utah Water Quality Rules | UAC R317-8-7 | Defines UPDES permit requirements for Storm Water Discharges associated with a small construction activity and insures stormwater discharges from the site do not pollute waters of the state. | Relevant and Appropriate | To be complied with to the extent practical considering the exigencies of the removal action. |
| Archeological and Historical Preservation | Utah Code Section 9-8-307 (notification), and Section 9-8-309 (procedures) UAC R455-4 | Addresses disturbance of human remains, including ancient remains, on lands under State jurisdiction. | Applicable | Applicable if human remains, scientific, historic, and archaeological artifacts are identified. To be complied with considering the exigencies of the removal action to the extent practical. |

APPENDIX B

Statement of Work (SOW)

Bullion Canyon Mills (A8K8)
Marysvale, Piute County, Utah

May 9, 2016

I. Background

Gold first discovered at the base of what is now known as Bullion Canyon near Marysvale, Utah, in 1865. These placer deposits were traced to their origins in Bullion Canyon and the Ohio Mining District was formed. By 1869, the camps of Bullion City, Webster City and Virginia City were established and the first of several mills was constructed in the canyon. Mining continued in the canyon until approximately 1938 and the remnants of these historic mining activities, including deposits of contaminated soil, are still evident.

In 2004, the Utah Department of Environmental Quality (UDEQ) conducted an assessment of Bullion Canyon west of Marysvale, Utah, and determined that elevated levels of lead exist in two areas that are frequently used for camping and other recreational activities:

1. Bully Boy Camping Area – an informal camping area used by local residents that is located approximately 6.2 miles west of Marysvale on Bullion Canyon Road near the former Bully Boy Mill.
2. Fireman's Park – a formal group campground and day use area managed by the Town of Marysvale that is located approximately 3.5 miles west of Marysvale on Bullion Canyon Road near the former Bullion Mill.

The area did not qualify for listing as a Superfund Site and was referred to the EPA's Emergency Response Unit in 2015 due to the potential for human health impacts.

II. Assessment

Bully Boy Camp

There appear to have been at least two historic tailing impoundments down gradient of the Bully Boy Mill. These tailing impoundments no longer hold water and semi-permanent camps have developed on top of the remnant deposits. These camps have been used by locals each summer season for decades.

UDEQ collected five samples from the first six inches of surface soil in this area, and the laboratory results for lead in mg/kg were: 3780, 7750, 7760, 12,700 and 19,600. EPA's Residential Screening Level (RSL) for lead in soil is 400 mg/kg. The samples were also tested for mercury, but those results were all below EPA's RSL.

Fireman's Park

EPA collected surface (0") and subsurface (0-6") soil samples from Fireman's Park on October 27, 2015. These samples were collected from each individual campsite as well as the common areas in the campground. Laboratory results from these samples indicated that the three campsites to the east have concentrations of both lead and mercury in the surface and subsurface samples that exceed EPA's RSLs. There were also slightly elevated levels of both lead and mercury in the subsurface samples from the common areas. The sample results that exceed EPA's RSL are summarized in the following table and mapped in the attached diagrams:

| ID | Description | Lead (mg/kg) | | | Mercury (mg/kg) | | |
|----|--------------|--------------|---------|------------|-----------------|---------|------------|
| | | RSL | Surface | Subsurface | RSL | Surface | Subsurface |
| 5 | Campsite | 400 | 5330 | 6910 | 11 | 149 | 228 |
| 6 | Campsite | | 1070 | 2210 | | 29 | 57 |
| 7 | Campsite | | 2700 | 7620 | | 100 | 312 |
| 8 | Common Areas | | 137 | 528 | | 1 | 14 |

III. Objectives

Bully Boy Camp

The area will be closed to camping and off-road vehicle use. The soils in and near the Bully Boy Camping Area as roughly depicted in Figure 12 will be re-graded and/or capped with at least 12 inches of non-contaminated material. Trees and other large vegetation will be protected to the extent practical. Proper drainage and erosion control features will be constructed once the cap is installed. All areas in the removal zone will be restored, re-vegetated and large boulders or other terrain features will be installed to prevent vehicular access.

Fireman's Park

Fireman's Park will be temporarily closed to facilitate construction activities. The soil in the eastern end of the park as roughly depicted in Figure 11 will be capped with at least 12 inches of non-contaminated material. Some material will be excavated before the cap is installed to remove hot spots and achieve the appropriate drainage at the Site. All excavated material will be transported to the Bully Boy Camping Area and added to the material that will be capped in that location. Any excavated area will be filled with non-contaminated fill material and the cap will be constructed with appropriate topsoil to support re-vegetation. Proper drainage and erosion control features will be constructed. All areas in the removal zone will be restored and re-vegetated to support future camping and day use activities. It is anticipated that part of the campground may remain closed until the spring of 2017 to help establish the new vegetation.

IV. Tasks and Schedule

Sitewide

| Lead | Task Description |
|-------------------|---|
| EPA | Provide project oversight. |
| | Cordinate with stakeholders. |
| | Maintain a website to distribute project data and information. |
| EPA and Marysvale | Contact residents and stakeholders. |
| | Develop information materials (signs, fact sheets). |
| UDEQ | Develop Quality Assurance Project Plan. |
| | Develop Trip Report. |
| Crown Mines | Develop a Work Plan for both campgrounds that includes restoration designs, estimates for the volume of restoration materials (rock, road base, top soil, etc) that will be required and associated spatial data files. |
| | Develop a Health and Safety Plan that includes provisions to support the efforts of the Town of Marysvale. |
| | Develop a Final Report. |

Fireman's Park

| Lead | Task Description |
|-------------|---|
| Marysvale | Restrict access to the removal area. |
| Crown Mines | Excavate soil to remove hot spots, insure proper drainage and support installation of the cap. |
| | Transport excavated waste to the Bully Boy Camp for on-site disposal. |
| | Demarcate the bottom of the excavation pit with hurricane fencing and backfill the pit. |
| | Cap the removal area with non-contaminated soil. This cap shall be at least 12 inches thick and include at least 6 inches of topsoil at the surface of the cap as appropriate to support the Town of Marysvale's revegetation effort. |
| | Construct erosion control features. |
| UDEQ | Document the cap's thickness, extent and soil quality as well as erosion control features. |
| Marysvale | Revegetate all disturbed areas. |
| | Reopen the campground to full use once the vegetation has suitably regenerated. |

Bully Boy Camp

| Lead | Task Description |
|-------------|---|
| Crown Mines | Restrict vehicular access to the removal area. |
| | Grade the removal area to insure proper drainage. |
| | Cap the removal area with non-contaminated soil. This cap shall be at least 12 inches thick and support revegetation. |
| | Construct erosion control features. |
| UDEQ | Document the cap's thickness, extent and soil quality as well as erosion control features. |
| Crown Mines | Revegetate all disturbed areas |

V. Project Schedule

The Bully Boy Camping Area (the informal campground) and the contaminated portions of Fireman's Park will be closed to the public in April 2016 before the camping season begins. Construction activities in both campgrounds will occur in May 16-27, 2016. Restoration activities at both campgrounds will be completed by September 2016. Restoration of the formerly contaminated campsites in Fireman's Park will occur over the summer of 2016 and those areas should reopen to the public in the spring of 2017.

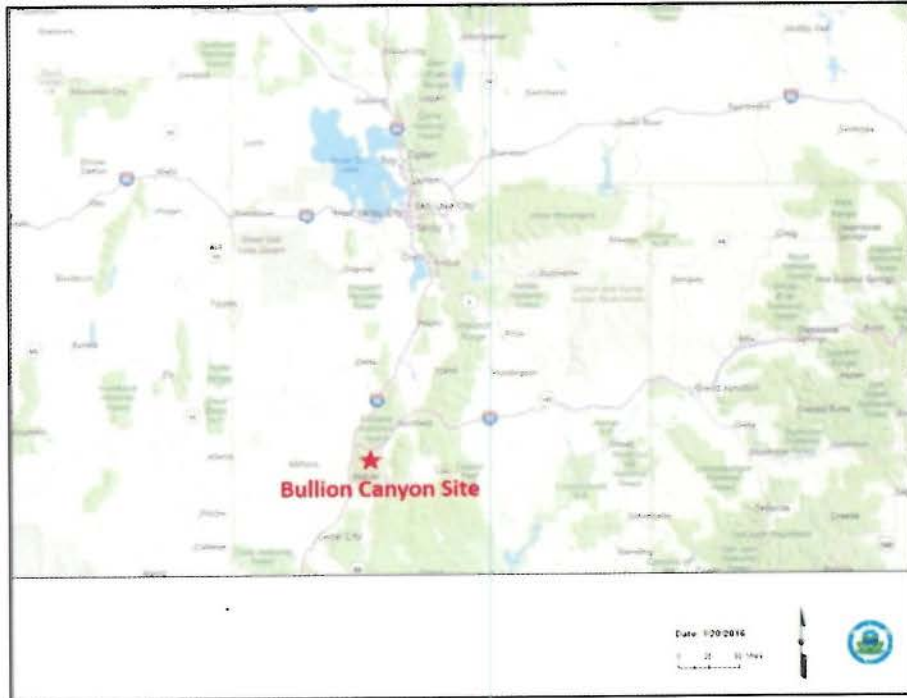
VI. Deliverables

| Lead | Deliverable | Due Date |
|-------------|---|-----------------|
| Crown Mines | GIS Database of Removal Areas | 05-13-2016 |
| | Work Plan | 05-13-2016 |
| | Health and Safety Plan | |
| | Status Report | 05-27-2016 |
| | Final Report | 10-28-2016 |
| UDEQ | Quality Assurance Project Plan | 05-20-2016 |
| | Trip Report | 06-10-2016 |
| | GIS Database of Capped Removal Areas | |
| | Scribe Database with Analytical and Monitoring Data | |

Appendix

Maps, Pictures and Other Figures

1. Location of the Site in west-central Utah



2. Location of the Campgrounds west of Marysvale, Utah



3. Bully Boy Camping Area (upper informal campsite)



4. Bully Boy Camping Area (lower informal campsite)



5. Campsite with Contaminated Soil at Fireman's Park



6. Campsite with Contaminated Soil at Fireman's Park



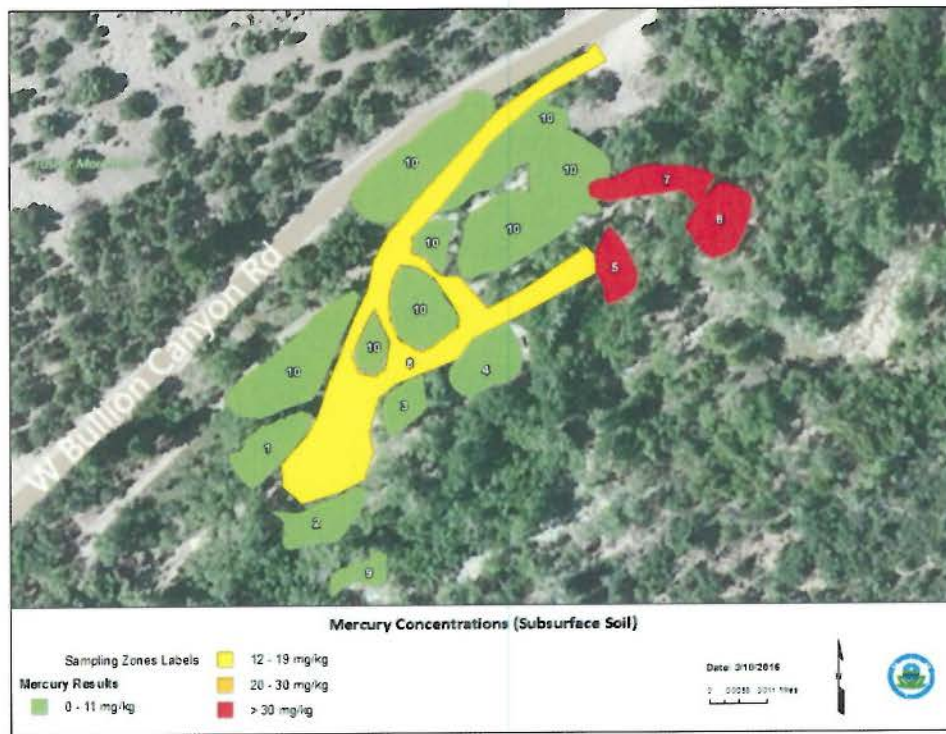
7. Surface Concentrations of Mercury at Fireman's Park



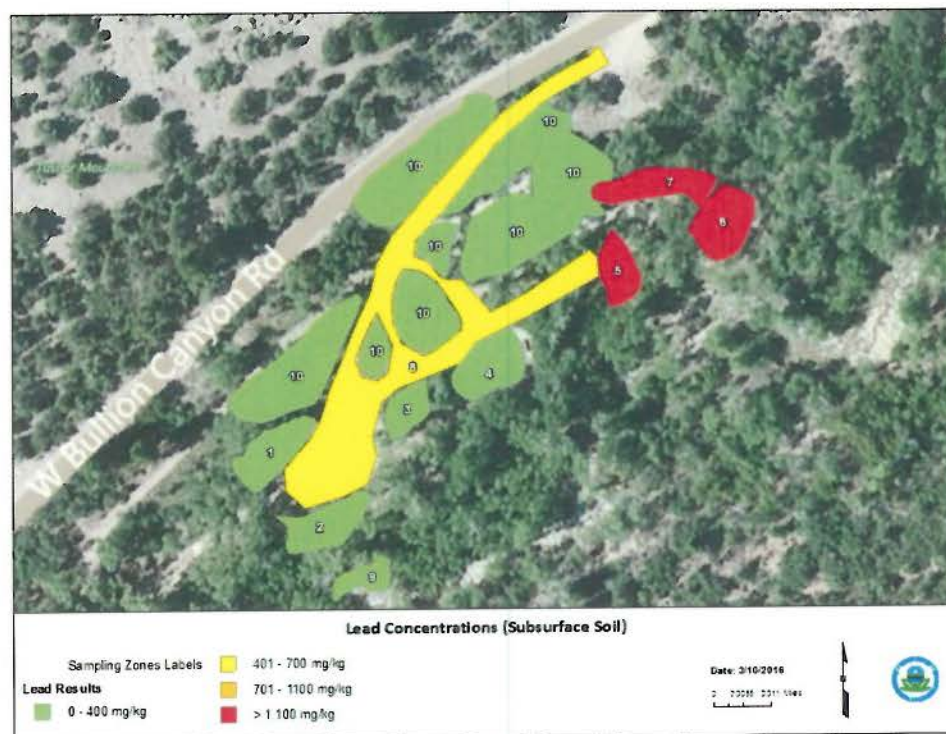
8. Surface Concentrations of Lead at Fireman's Park



9. Subsurface (0-6") Concentrations of Mercury at Fireman's Park



10. Subsurface (0-6") Concentrations of Lead at Fireman's Park



11. Preliminary Removal Area at Fireman's Park



12. Preliminary Removal Area at the Bully Boy Camping Area

