TAG QUARTERLY PROGRESS REPORT

Date:	August 14, 2018
Report Number:	105
Report Period:	April - June 2018
Site:	**Butte Area/Silver Bow Creek**
Grant Recipient:	Citizens Technical Environmental Committee (CTEC)
Technical Advisors:	KirK Engineering & Natural Resources, Inc.

PROGRESS ACHIEVED

- Sponsored 5 meetings open to the public.
- EPA Regional Administrator Doug Benevento/Kelly visit April 11, 2018. Community Follow up for Butte Superfund Priority Consent Decree which was signed January 26, 2018.
- Public Presentation for the NIH/INBRE Grant with Mt Tech: Bridging the Gap: Evaluating Environmental Health Risk Perceptions for Better Community Engagement. May 1, 2018.
- Annual Meeting May 1, 2018. Board of Directors elected. Dave Williams – President, Bill Macgregor – Vice-President, David Hutchins – Secretary, Elizabeth Erickson – Treasurer, John Ray, Kriss Douglass, Raja Nagisetty, Alysa Cox, Olivia Everett, Joe Griffin – New, Katherine Zodrow – New, Anna Chacko – New.
- Submitted TAG Award Application for the Butte Area/Silver Bow Creek to EPA. April 4, 2018.
- Met with Ed Banderob, Greeley neighborhood, concerning East Side soils issues. May 2018.
- CTEC Technical Advisor Steve Ackerlund attended Butte Health Study/Medical monitoring meetings – Phase 2. May 15 and June 25, 2018.
- EPA Request for modification of the confidentiality order on the Butte Priority Soils Operable Unit Consent Decree. May 20, 2018.
- BPOSU Draft Conceptual agreement was released by EPA and reviewed by CTEC. June 2018.
- Extended the TAG contract time to December 2019.
- Parrot Tailings removal groundbreaking June 21, 2018.
- CTEC sponsored a pavilion at the Butte Farmer's Market inviting other local environmental entities June - October.

- Outreach material at the Dust to Dazzle Home restoration tour. June 23, 2018.
- KBMF Butte America Radio.org - Superfund 101 Interviews. CTEC Joe Griffin & John Ray.
- KBMF Butte America Radio.org. CTEC Superfund Reporter David Hutchins.
- Worked with the Restore Our Creek Coalition Silver Bow Creek Coalition with input on Superfund part of discussions. Weekly.
- Provided technical assistance to 35 members of the public at CTEC office.

CTEC Board of Directors Meeting (all board meetings are open to the public)

- Meeting – April 10, 2018.
- Annual Meeting – May 1, 2018.
- Meeting – June 11, 2018 Conceptual Agreement

CTEC Public Presentations/ Events

- Berkeley Pit – Pilot Water Treatment Plant Presentation – Mark Thompson, Mt Resources.
- Community Follow up for Butte Superfund Priority - Albert Kelly, Doug Benevento. EPA. April 11, 2018.
- INBRE Rollout for the public. May 1, 2018.
- Berkeley Pit Waterfowl Plan Update - Stella Cappocia from Montana Tech and Gary Swant of Bird Montana. June 19, 2018.
- Farmers Market Pavillion June – October. CTEC board and guests answering questions and listening to concerns from the public.
- "Worth the Wait - The 30 Year Cleanup of One of the Nation's Largest Superfund Sites" at the CTEC Office.
- KBMF Butte America Radio.org - CTEC board members - Superfund 101 Interviews. Joe Griffin and John Ray. Superfund reporter - David Hutchins.

Non-CTEC meetings/tours attended by CTEC staff and/or Board:

- BSB Health Monitoring Meeting –Phase 2. May 15 and June 25, 2018 – Steve Ackerlund
- UAO Meeting – May 1, 2018
- Waterfowl committee focusing on geese safety at the Butte Mine Flooding Operable Unit - Berkeley Pit.
- Butte Natural Resource Damage Restoration Council. April 19, June 21, 2018.
- Consent Decree public meetings, May 30, 2018 12:00 pm and 6:00pm.
- Parrot Tailings Groundbreaking Ceremony. June 21, 2018.
- Restore Our Creek meetings - weekly.
- University of Mt - MT Tech Remediation/Restoration Seminar Series.
- Butte-Silver Bow-Butte Superfund Advisory Redevelopment Trust Committee Meetings (SARTA).
- Citizens for Labor and Environmental Justice Meetings (CLEJ).

Documents Reviewed and/or comments provided:

- Health Study-Medical Monitoring Work Group Meeting Summary May 15, 2018 – Steve Ackerlund. CTEC Technical Advisor (attached)
- Health Study-Medical Monitoring Work Group Meeting Summary, June 25, 2018 – Steve Ackerlund. CTEC Technical Advisor. (attached)
- BPSOU Draft Conceptual Agreement Designs.
- Butte Priority Soils Operable Unit Detailed Remedial Elements Work Plan. EPA June 26, 2018.
- Other documents were reviewed at varying levels by CTEC board members or advisors when they were received.

DIFFICULTIES ENCOUNTERED:

- Focusing on the most effective ways to spend TAG funds. Butte area is a very large and complex site.
- Increasing public involvement.
- Updating Technical Advisor roles.
- Personnel changes: Josh Bryson-Arco, Robert Moler -Community Involvement Coordinator – EPA, Albert Kelly Top Aid to EPA Director Scott Pruitt.

MATERIALS PRODUCED THIS PERIOD:

- Summary of all reports received by the CTEC office from 2010 through June 30, 2018.
- Summary of media on Butte Superfund remediation/restoration. 2015-2018.

ACTIVITIES ANTICIPATED IN NEXT QUARTER:

- Review and provide comment for the BPSOU Conceptual Agreement.
- Review and provide comment for the BPSOU Remedial Elements Scope of Work.
- Provide technical support for the Butte Health Monitoring Study Phase 2.
- Provide technical support on the NIH/INBRE Grant – Bridging the Gap. Health Perceptions and Superfund.
- Continue to gain Feedback from the community on Superfund questions concerns.
- Focus on technical assistance.
- Focus on outreach strategy.
- Focus on new outreach material.
- Focus on partnering with other local entities.
- Provide support to EPA Community Involvement Coordinator for Butte Area Superfund sites.
- Provide support to EPA Remedial Project Managers for Butte Area Superfund sites.
- Focus on technical support and outreach for phase II of the Butte health study.
- Work on strategic plan (a working document).
- Work on Scope of Work plan (a working document).

- Focusing on spending most funds on CTEC technical advisors.
- Focus on storm water issues and outreach.
- Focus on surface water issues and outreach.
- Focus on ground water issues and outreach.
- Continue working on identifying priorities.
- CTEC representative for the Restore Our Creek Coalition.
- CTEC representative on the waterfowl committee focusing on geese safety at the Butte Mine Flooding Operable Unit - Berkeley Pit.
- CTEC representative for the Butte Natural Resource Damage Program.
- CTEC representative for Citizens for Labor and Environmental Justice.
- CTEC representative for the Pitwatch Program.
- Provide public outreach for the Residential Soils Program.
- Provide technical support to neighborhood groups.
- Provide technical support to the Butte Natural Resource Damage Council.
- Provide technical support to B-SB Superfund Advisory Board - Redevelopment Trust Fund.
- Provide technical support to Clark Fork Watershed Education Program.
- Provide technical support to Butte Citizens for Labor and Environmental Justice.
- Provide technical support to Pit Watch.
- Provide technical support to the Science Mine.
- Provide technical support to Project Green.
- Provide technical support to the Imagine Butte Resource Center.
- Provide technical support to the MT Tech Remediation/Restoration Seminar Series.
- Provide technical support to the MT Tech Biology/Chemistry research Departments.
- Provide technical support to the Native Plant Program at Mt Tech.
- Provide technical support to the Butte Radio KBMF 102.5.
- Provide technical support to the Montana Public Radio.
- Provide technical support to the Montana Standard newspaper.
- Provide technical support to the local news stations.

DOCUMENTS RECEIVED THIS PERIOD at the - CTEC OFFICE

April - June 2018

- Unilateral Administrative Order Monthly Report of Activities – **Atlantic Richfield Co**
  - March 2018 (electronic)
  - April 2018 (electronic)
  - May 2018 (electronic)

- Unilateral Administrative Order Monthly Report of Activities - **Butte-Silver Bow**
  - March 2018 (electronic)
  - April 2018 (electronic)

May 2018 (electronic)

. Unilateral Administrative Order Monthly Report of Activities – **BNSF/UP**

_____ 2018 (electronic)

. Butte Mine Flooding Operable Unit Monthly Reports: Montana Bureau of Mines and Geology

March 2018 (hard)
April 2018 (hard)
May 2018 (hard)

. Atlantic Richfield Company letter. Notice of a change in Project Managers for the Butte Priority Soils Operable Unit. Subject to EPA's approval, Josh Bryson will replace Loren Burmeister as project manager, effective April 2, 2018. Electronic copy April 2, 2018. Ruthmeri Gleason - Pioneer Technical Services.

. Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Draft Final Parrot Removal Monitoring Sampling and Analysis Plan. Electronic copy April 4, 2018. Ruthmeri Gleason - Pioneer Technical Services.

. EPA Approval Letter: BPSOU Draft Final Quarterly Operations and Maintenance Report BTL System - Fourth Quarter 2017, dated February 28, 2018. Electronic copy April 9, 2018. Nikia Greene – EPA.

. Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Draft Final Lexington Mine Site Remedial Action Construction Completion Report (CCR). Letter Dated January 19, 2018. Prepared by Pioneer Technical for ARCO. Electronic Link April 9, 2018 bad link – Connie Logan - Pioneer.

. Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit 2017 Draft Surface Water Data Summary Report Normal Flow and Wet Weather Data January 2017 – December 2017 Atlantic Richfield April 2018. Electronic copy April 9, 2018. Josh Bryson – Arco. Seth Garritty – Woodard Curran/TREC.

. Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Draft 2017 Data Summary Report Butte Hill Diagnostic Data January 2017 – December 2017 Atlantic Richfield April 2018. Electronic copy April 9, 2018. Josh Bryson – Arco. Seth Garritty – Woodard Curran/TREC.

. Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Draft 2017 Groundwater Monitoring Data Summary Report January 2017-December 2017 Prepared for: Atlantic Richfield Company 317 Anaconda Road Butte, MT 59701 Prepared by: TREC, Inc. 1800 West Koch, Suite 6 Bozeman, MT 59718 April 2018. Electronic copy April 9, 2018. Josh Bryson – Arco. Seth Garritty -Woodard Curran.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. EPA Approval letter for Final Butte Priority Soils Operable Unit Final Quarterly Operations and Maintenance Report Butte Treatment Lagoon System – Fourth Quarter 2017 Atlantic Richfield Company April 10, 2018. Electronic April 10, 2018. Prepared by Pioneer Technical for ARCO. Electronic copy April 10, 2018 - Ruthmeri Gleason - Pioneer.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. State of Montana's response and comments regarding Atlantic Richfield proposed Parrot Tailings Waste Removal Project groundwater monitoring. Electronic copy April 14, 2018. Jim Ford – Natural Resource Damage Program-Department of Justice.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Revised Final Quarterly Operations and Maintenance Report Butte Treatment Lagoon System – 1st Quarter **2017**. ARCO Loren Burmeister. Prepared by Pioneer for ARCO. Electronic copy April 16, 2018 – Ruthmeri Gleason.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Revised Final Quarterly Operations and Maintenance Report Butte Treatment Lagoon System – 2nd Quarter **2017**. ARCO Loren Burmeister. Prepared by Pioneer for ARCO. Electronic copy April 16, 2018 – Ruthmeri Gleason.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Revised Final Quarterly Operations and Maintenance Report Butte Treatment Lagoon System – 3rd Quarter **2017**. ARCO Loren Burmeister. Prepared by Pioneer for ARCO. Electronic copy April 16, 2018 – Ruthmeri Gleason.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Revised Final Quarterly Operations and Maintenance Report Butte Treatment Lagoon System – 1st Quarter **2016**. ARCO Loren Burmeister. Prepared by Pioneer for ARCO. Electronic copy April 17, 2018 – Ruthmeri Gleason.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Revised Final Quarterly Operations and Maintenance Report Butte Treatment Lagoon System – 2nd Quarter **2016**. ARCO Loren Burmeister. Prepared by Pioneer for ARCO. Electronic copy April 17, 2018 – Ruthmeri Gleason.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Revised Final Quarterly Operations and Maintenance Report Butte Treatment Lagoon System – 3rd Quarter **2016**. ARCO Loren Burmeister. Prepared by Pioneer for ARCO. Electronic copy April 17, 2018 – Ruthmeri Gleason.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Revised Final Quarterly Operations and Maintenance Report Butte Treatment Lagoon System – 4th Quarter **2016**. ARCO Loren Burmeister. Prepared by Pioneer for ARCO. Electronic copy

April 17, 2018. Ruthmeri Gleason.

- Fritz Daly Letter to Albert Kelly – EPA concerning Butte Priorities Cleanup. April 18, 2018.

- Butte Natural Resource Damage Council Meeting announcement. April 19, 2018. Electronic. Pat Cunneen - BNRC.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit Comments on Groundwater Quality Assurance Plan 2018 monitoring period. Dated April 20, 2018. Josh Bryson – Arco. Electronic copy April 20, 2018. Tina Donovan - TREC.

- Robert Moler, Community Involvement Coordinator – EPA Region 8 Helena Letter. Robert Will no longer be the CIC after April 26, 2018. Christopher Wardell Region 8 Denver will be replacing him. Electronic copy April 20, 2018. Robert Moler – EPA.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Revised Draft Final Missoula Gulch Catch Basins (CB-1, CB-8, and CB-9) Operation and Maintenance Plan Atlantic Richfield Company April 23, 2018. Josh Bryson - Arco. Electronic copy April 23, 2018. Ruthmeri Gleason - Pioneer.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Draft Final BPSOU Surface Water Monitoring Quality Assurance Project Plan. Josh Bryson (406) 723-1834 – Arco. Electronic Link April 24, 2018 bad link. Barbara Stephens - Woodard Curran/TREC.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Approval for Revised Draft Final Annual Operations and Maintenance Report Butte Treatment Lagoons System 2016, dated March 13, 2018. Electronic copy April 25, 2018. Nikia Greene – EPA.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Comments on: B-SB Residential Metals Abatement Program (RMAP) 2017 Construction Completion Report: Jan. 1, 2017 through Dec. 31, 2017, dated February 2018. Electronic copy April 25, 2018. Nikia Greene - EPA

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit Final 2016 Butte Treatment Lagoons (BTL) Operation & Maintenance Annual Report. Electronic copy April 26, 2018. Ruthmeri Gleason - Pioneer.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit Draft Final BTL Treatment System and MSD Sub-Drain Sampling and Monitoring QAPP. Electronic copy May 7, 2018. Ruthmeri Gleason - Pioneer.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit Draft Final Quarterly Operations and Maintenance Report Butte Treatment Lagoon System -First Quarter 2018. Atlantic Richfield Company, May 8, 2018. Electronic copy May 8, 2018. Ruthmeri Gleason – Pioneer.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit EPA comment letter to Arco on Draft Final Parrot Removal Monitoring Sampling and Analysis Plan. Electronic copy May 10, 2018. Nikia Greene – EPA.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. May 17, 2018, the U.S. Department of Justice on behalf of EPA and the Atlantic Richfield Company filed a motion to formally request a modification of the confidentiality order with the United States District Court for the District of Montana U.S. v. Atlantic Richfield Company et al., Electronic copy May 17, 2018. Chris Wardell – EPA CIC Wardell.Christopher@epa.gov>

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Comment letter and Crosswalk comments: RMAP Plan and DF BPSOU RMAP QAPP and associated Crosswalk, dated June 28, 2017. Electronic copy May 18, 2018. Nikia Greene – EPA.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Revised 2017 Field Evaluation Summary Report. Electronic copy May 21, 2018. Julia Crain - BSB.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit 2017 Draft Technical Recommendations Report. Electronic copy May 21, 2018. Julia Crain - BSB.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. EPA Approval Letter: BPSOU Final Draft QMP, dated December 22, 2017. Electronic copy May 22, 2018. Nikia Greene – EPA.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Comment Letter and Comments: BPSOU Draft Final Unreclaimed Sites QAPP and Crosswalk, dated March 20, 2018. Electronic copy May 24, 2018. Nikia Greene – EPA.

- Notification Letter on behalf of Inland Properties, Inc. Becky Summerville's complete contact information: Rebecca L. Summerville Northern Pacific Railroad Depot. Electronic copy May 24, 2018. Dawn Maack – Mt Resources.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Conceptual Agreement Summary. Electronic copy May 25, 2018. Andrew Mutter – EPA.

- EPA BPSOU Conceptual Agreement Factsheets – May 30, 2018
  1895122 - Summary of BPSOU Conceptual Agreement
  1895086 - Moving Forward

1895087 - Compliance Determination Plan
1895088 - Surface Water Technical Impracticability Evaluation
1895089 - Timeline Description for a BPSOU Record of Decision (ROD) Amendment and Consent Decree Opportunity for Public Input
1895090 - Parrot Tailings Waste Removal Project
1895091 - Butte Reduction Works Smelter Area
1895092 - Diggings East Area
1895093 - Grove Gulch Area
1895094 - Insufficiently Reclaimed Sites
1895095 - Northside Tailings Area
1895096 - Uncontrolled Surface Flow Areas
1895097 - Unreclaimed Areas
1895098 - Blacktail Creek and Confluence Area
1895099 - Buffalo Gulch Area

https://cumulis.epa.gov/supercpad/SiteProfiles/index.cfm?fuseaction=second.scs&id=0800416&doc=Y&colid=37422&region=08&type=SC

. Agenda Butte Priority Solis Operable Unit Public Meetings, Wednesday May 30th. The Environmental Protection Agency, State of Montana, Butte-Silver Bow County, and the Atlantic Richfield Company announce two opportunities to learn more about proposed future cleanup actions for the Butte Priority Soils Operable Unit. Electronic copy May 29, 2018. Chris Wardell - EPA,

. Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Approval letter for: Butte Priority Soils Operable Unit Final Draft Quality Management Plan Dated May 21, 2018. Electronic copy June 1, 2018. Josh Bryson – Arco. Paddy Stoy - TREC.

. Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Approval letter for Draft Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit (BPSOU) Buffalo Gulch Site Characterization Work Plan and Grove Gulch Site Characterization Work Plan, dated June 1st, 2018. Electronic copy June 1, 2018. Adam Schlegel - Woodard & Curran/TREC.

. Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Comment Letter: BPSOU Draft Final Annual O&M Report, BTL System-2017, dated March 29, 2018. Electronic copy June 4, 2018. Nikia Greene - EPA.

. Lessons Learned in the Superfund Process: A Guide for Community Advisory Groups. 2018 by Theresa Noreen Nichols.

. Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Approval Letter: Draft Final BPSOU Surface Water Monitoring QAPP and Crosswalk, dated April

24, 2018. Electronic copy June 11, 2018. Nikia Greene – EPA.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Approval for BPSOU Groundwater Monitoring QAPP and Crosswalk 2018, dated April 20, 2018. Electronic copy June 13, 2018. Nikia Greene – EPA.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Comment on: BPSOU Draft Final Bonanza Site Sampling DSR, dated June 29, 2017. Electronic copy June 13, 2018. Nikia Greene.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit 2nd Comment letter and Crosswalk comments: BPSOU Draft Final Parrot Removal Monitoring SAP, dated April 4, 2018. Electronic copy June 13, 2018. Jim Ford – NRDP.

- Rhodia/Solvay Plant Update Community Advisory Panel Meeting June 12, 2018. Electronic copy June 13, 2018. Scott Payne – CTEC.

- Parrot Tailings removal ground breaking ceremony announcement June 21, 2018. Electronic copy June 18, 2018. Meranda Flugge - Mt Department of Justice.

- Guidance Letter: BPSOU Proactive work under the Remedial Elements Scope of Work for the 9 RDWPs, dated June 21, 2018. Electronic copy June 21, 2018. Nikia Greene.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit 2nd Final BPSOU Groundwater Monitoring QAPP 2018 Monitoring. ARCO Josh Bryson. Electronic copy June 21, 2018. Tina Donovan – TREC.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Final BPSOU Surface Water Monitoring QAPP 2018 Monitoring Period. Electronic copy June 22, 2018. Paddy Stoy – TREC.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Guidance Letter: BPSOU Proactive work under the Remedial Elements Scope of Work for the 9 RDWPs, dated June 21, 2018. Electronic copy June 21, 2018. Nikia Greene - EPA.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Final GW QAPP. ARCO Josh Bryson. Electronic copy June 21, 2018 -Tina Donovan – TREC.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Butte Priority Soils Operable Unit Detailed Draft Remedial Elements Work Plan. EPA. Electronic copy June 26, 2018. Chris Wardell – EPA.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Approval Letter: BPSOU Final Draft Data Management Plan, dated December 22, 2017. Electronic copy June 26, 2018. Nikia Greene – EPA.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Comment Letter: BPSOU Draft 2017 Surface Water DSR, Butte Hill Diagnostic Data, dated April 9, 2018. Electronic copy. June 28, 2018. Nikia Greene – EPA.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Comment Letter: BPSOU Draft 2017 Surface Water DSR: Normal Flow and Wet Weather Data, dated April 9, 2018. Electronic copy. June 28, 2018. Nikia Greene – EPA.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit Comment Letter: BPSOU Draft 2017 Groundwater Monitoring DSR, dated April 9, 2018. Electronic copy. June 28, 2018. Nikia Greene – EPA.

- Butte Area NPL Site Butte Priority Soils Operable Unit Final Data Management Plan (DMP) Prepared for: Atlantic Richfield Company 317 Anaconda Road Butte, Montana 59701 Prepared by: TREC Inc 1800 West Koch, Suite 6 Bozeman, MT 59715 June 29, 2018. Electronic copy June 29, 2018. Debbie O'Dell- Woodard Curran.

MEDIA
April - June 2018

Montana Public Radio – The last first mile – Butte's Fight to Restore Historic Silver Bow Creek. Nora Saks. May 20, 2018.

Montana Standard

LOCAL EDITOR'S PICK Top EPA officials coming to Butte, Anaconda for public meetings on cleanup efforts SUSAN DUNLAP susan.dunlap@mtstandard.com April 4, 2018.
Top brass from the Environmental Protection Agency are paying Butte and Anaconda a visit next week.

VIDEOAP Trump floated replacing Sessions with Pruitt this week despite scandals By Pamela Brown and Kaitlan Collins, CNN Apr 5, 2018
President Donald Trump floated replacing Attorney General Jeff Sessions with Scott Pruitt as recently as this week, even as the scandal-ridden head of the Environmental Protection Agency has faced a growing list of negative headlines, according to people close to the President.

LOCALEPA, Atlantic Richfield take first steps to shed light on Butte Hill agreement SUSAN DUNLAP susan.dunlap@mtstandard.com Apr 5, 2018
The Environmental Protection Agency and Atlantic Richfield Company have taken the first steps toward lifting a part of the federal court gag o…

COLUMNISTS Guest view: Everybody knows what needs to be done, so let's get Butte cleaned up Apr 6, 2018
During the past month I have been asked to do three interviews concerning Superfund activities in Butte. I interviewed with Time Magazine, Big…

LOCAL Atlantic Richfield aims to appeal Opportunity residents' lawsuit to the U.S. Supreme Court SUSAN DUNLAP susan.dunlap@mtstandard.com Apr 6, 2018
The Atlantic Richfield Company has notified the U.S. Supreme Court that the former oil giant wishes to appeal the Opportunity residents' lawsu…

ENTERTAINMENT Butte Archives to hold presentation on Berkeley Pit following meeting with top EPA staffers Montana Standard Apr 6, 2018
The Butte-Silver Bow Public Archives will continue its Brown Bag Lunch series sometime around noon Wednesday, April 11, with a presentation by…

LOCAL EPA to start delisting parts of Anaconda from Superfund status.SUSAN DUNLAP susan.dunlap@mtstandard.com Apr 10, 2018
The Environmental Protection Agency will begin delisting parts of Anaconda from the National Priorities List this year, EPA Region 8 Administr…

LOCALEDITOR'S PICKButte crowd turns out to express Superfund and health concerns with EPA officials SUSAN DUNLAP susan.dunlap@mtstandard.com Apr 11, 2018
Butte residents peppered some of the Environmental Protection Agency's top brass Wednesday over health and other Superfund concerns at a meeti…

406 POLITICS EDITOR'S PICK EPA's 'Kell' Kelly visits — and appears to win over local skeptics SUSAN DUNLAP susan.dunlap@mtstandard.com Apr 15, 2018
At a time of what paradoxically appears to be some real trust-building for the Environmental Protection Agency in Butte and Anaconda as well a…

SNAPSHOTS Snapshots Apr 20, 2018 EPA official to give talk

LETTERS Concern over EPA Apr 26, 2018

LOCAL EPA liaison Robert Moler's exit described by many in Butte SUSAN DUNLAP susan.dunlap@mtstandard.com Apr 25, 2018
Chris Wardell, Environmental Protection Agency community involvement coordinator, has a tough act to follow in replacing Robert Moler, who has…

LOCALButte, Dillon, Anaconda receive $600,000 EPA grant to clean up contaminated areas SUSAN DUNLAP susan.dunlap@mtstandard.com Apr 25, 2018

Southwest Montana — including Butte, Dillon and Anaconda — has received a $600,000 Environmental Protection Agency grant to clean up contamina…

LOCALEDITOR'S PICKEPA takes first step Toward 'sunshine' on the Butte Hill SUSAN DUNLAP susan.dunlap@mtstandard.com Apr 27, 2018
Butte is one step closer to learning its fate.

LOCALEDITOR'S PICKAtlantic Richfield Co. asks U.S. Supreme Court to hear Opportunity caseSUSAN DUNLAP susan.dunlap@mtstandard.com Apr 27, 2018
The Atlantic Richfield Company petitioned the U.S. Supreme Court Friday to hear its appeal of a lawsuit filed against the company by residents…

EDITORIALStandard view: It's about time for some transparency on Superfund Apr 29, 2018
On Friday, the Environmental Protection Agency, Atlantic Richfield, the state of Montana and Butte-Silver Bow set in motion a request to Distr…

LOCAL Another milestone: Bids come in on Parrot tailings excavation SUSAN DUNLAP susan.dunlap@mtstandard.com Apr 30, 2018
The lowest bid to excavate the Parrot tailings behind the Butte Civic Center came in Friday at $2.66 million, according to a state official.

LOCALBREAKINGRegrets voiced in Butte about resignation of EPA's Albert "Kell" Kelly SUSAN DUNLAP susan.dunlap@mtstandard.com May 1, 2018
Albert "Kell" Kelly, Environmental Protection Agency's senior advisor, joked that he might be at the end of his tenure when he visited Butte I…

COLUMNISTSAPCommentary: Scott Pruitt and the problem of environmental distrust By John Copeland Nagle, Chicago Tribune May 2, 2018
Embattled Environmental Protection Agency administrator Scott Pruitt wants to prevent his agency from using "secret science" to justify environmental regulation. A worthy goal, his critics say, but they don't trust him or the way he wants to achieve it. Which is ironic, for Pruitt's plan isn't really about science. It's about trust. In environmental laws, such as the Clean Air Act, Congress ...

LOCALEDITOR'S PICKCan the Smelter City be made whole?SUSAN DUNLAP Susan.dunlap@mtstandard.comMay 6, 2018
If Anaconda resident Jeff Galle gets his way, a 'Welcome, this is a clean town' sign would greet every driver tooling along Montana Highway 1 …

COLUMNISTSChaos at EPA bodes ill for Montana Superfund sites GEORGE OCHENSKIMay 7, 2018
Last week, three officials at the very top of the Trump administration's Environmental Protection Agency quit their jobs. One was Albert "Kel"…

LOCALEDITOR'S PICKFederal, state officials take first step in Anaconda health studySUSAN DUNLAP susan.dunlap@mtstandard.com May 10, 2018

Federal and state health experts flocked to Anaconda Thursday to initiate a health study based on the Smelter City's long exposure to toxins.

LOCALEDITOR'S PICKContractor selected for first phase of Parrot Tailings removal DAVID McCUMBER david.mccumber@mtstandard.comMay 12, 2018
A contractor to excavate and haul dirt for the first phase of the Parrot tailings cleanup has been selected by the state.

LOCAL
Montana Resources does not need permit to extract copper from pit water SUSAN DUNLAP susan.dunlap@mtstandard.com May 14, 2018

Montana Resources does not need a permit to remove copper from the Berkeley Pit water, according to a state official.

EPA Administrator Scott Pruitt is questioned by Montana Sen. Steve Daines May 16, 2018

EPA Administrator Scott Pruitt is questioned by Montana Sen. Steve Daines, a GOP member of the Interior, Environment, and Related Agencies sub...

Senator Tester questions EPA Administrator Scott Pruitt on Montana Superfund sites May 16, 2018

LOCAL Pruitt supports Butte, Anaconda cleanups despite budget cuts SUSAN DUNLAP susan.dunlap@mtstandard.com May 16, 2018
During a Senate hearing Wednesday Scott Pruitt, Environmental Protection Agency administrator, defended making plans to cut EPA's Superfund bu...

LOCALEDITOR'S PICK Atlantic Richfield, EPA ask judge to loosen gag order DAVID McCUMBER david.mccumber@mtstandard.com May 17, 2018
Atlantic Richfield Company and the Environmental Protection Agency on Thursday asked U.S. District Judge Sam Haddon to loosen the confidential...

EDITORIALStandard view: Finally, some answers may be on the way May 20, 2018
After years of relative inaction, months of intense negotiation, and weeks of more specific back-and-forth, we look to be only days away from ...

LOCALInterstate bridge work impacted by old mine SUSAN DUNLAP Susan.dunlap@mtstandard.com May 21, 2018
Montana Department of Transportation is rerouting a portion of Interstates 15-90 due to a long-forgotten mine west of Butte.

STATE AND REGIONALFears that Smurfit ponds may be leaking contaminants into Clark Fork prompt test requests EVE BYRON eve.byron@missoulian.com May 22, 2018
Concerns that a new "tea-colored" plume in the Clark Fork River may include contaminants from the old Smurfit-Stone holding ponds prompted Missoula County Commissioners to request water samples on Tuesday, a plea echoed by Montana's U.S. senators.

LOCALFirst details of Butte Hill cleanup revealed as judge loosens gag orderSUSAN DUNLAP susan.dunlap@mtstandard.com May 22, 2018
After 12 years of secret talks on the Butte Hill Superfund cleanup, U.S. District Judge Sam Haddon opened the door a crack Tuesday.

LOCALEPA answers some questions on cleanup; officials stay mum on financial details SUSAN DUNLAP susan.dunlap@mtstandard.com May 23, 2018
The Environmental Protection Agency opened up a little more Wednesday on the "conceptual agreement" to clean up the Butte Hill, confirming tha...

STATE AND REGIONALEPA sends emergency response manager to Smurfit site; tests results expected next week KEILA SZPALLER keila.szpaller@missoulian.com May 25, 2018
Test results from water samples taken on the Clark Fork River adjacent to the old Smurfit-Stone site should be complete next week, according to the U.S. Environmental Protection Agency.

LOCALEDITOR'S PICK More information released by EPA just ahead of Wednesday meetings SUSAN DUNLAP susan.dunlap@mtstandard.comMay 30, 2018
About 600,000 cubic yards of "dirty dirt" will be removed around Silver Bow Creek under the new cleanup plan for the area.

LOCALEDITOR'S PICKEPA, state, county, Atlantic Richfield extol cleanup agreement SUSAN DUNLAP susan.dunlap@mtstandard.com May 31, 2018
The parties to the conceptual Superfund agreement on the Butte Hill sought Wednesday to reassure the public that the cleanup will be robust an...

COLUMNISTS Guest view: Grounds for cautious optimism on Butte cleanup JOHN W. RAY May 31, 2018
Cautious optimism is how Butte should view recent Superfund developments— we are headed in the right direction but things could still go wrong...

LOCALEDITOR'S PICKTOPICALButte finally sees blueprint for cleanup, creek protection SUSAN DUNLAP susan.dunlap@mtstandard.com Jun 3, 2018
After three decades of incremental cleanup work, a sprawling blueprint to "get 'er done" has landed before the residents of Butte.

LOCALThese renderings show Butte Hill cleanup plans Jun 3, 2018
These graphical renderings show intended Butte Hill cleanup actions outlined under the agreement in principle reached by Superfund negotiators...

COLUMNISTSStandard view: Otherwise solid cleanup plan must deliver creek Jun 3, 2018
On the front page of today's edition of The Montana Standard is an extremely thorough story outlining the current plan, agreed upon in princip…

HEALTH, MEDICINE AND FITNESSThe Public's Health: Upcoming remediation work in Butte will be protective of human health KAREN SULLIVAN for The Montana Standard Jun 5, 2018
The long-anticipated remedy for cleanup of the Butte Priority Soils Operable Unit was announced last week, and the obvious collective communit…

VIDEOAPRepublican senator calls EPA Administrator Scott Pruitt 'as swampy as you get' By Maegan Vazquez, CNN Jun 6, 2018
Iowa Republican Sen. Joni Ernst on Tuesday called Environmental Protection Agency Administrator Scott Pruitt "as swampy as you get" for "transgressions" during his time leading the federal agency.

VIDEOAPTwo of Scott Pruitt's top aides resign amid EPA scrutinyBy Jeremy Diamond and Gregory Wallace, CNN Jun 6, 2018
Two of Environmental Protection Agency Administrator Scott Pruitt's closest aides at the agency resigned on Wednesday, an EPAofficial confirms to CNN.

LOCALFirst opportunity for public's questions on Superfund cleanup plan brings only a few new faces SUSAN DUNLAP susan.dunlap@mtstandard.com Jun 13, 2018
While the room at the Butte-Silver Bow Public Archives brimmed with Superfundprofessionals available for questions Tuesday about the proposed…

COLUMNISTSGuest view: Cheers! Butte's water is an incredible success storyJOHN McKEE Jun 15, 2018
Butte is where the water starts. That's the answer we give when people ask us about Butte's water. During tours at Headframe Spirits, we poin…

LOCALEDITOR'S PICKTOPICALSen. Steve Daines gets rare visit to Anaconda's former smoke stack SUSAN DUNLAP susan.dunlap@mtstandard.com Jun 15, 2018
Standing in the shadow of the Washoe Smelter, Republican Sen. Steve Daines got the lay of the land on Anaconda's Superfund Friday while the qu…

LOCALEDITOR'S PICKTrail along Silver Bow Creek struggles toward completion SUSAN DUNLAP susan.dunlap@mtstandard.com Jun 18, 2018
With approximately $3 million left to spend, the group overseeing the construction of the Silver Bow Creek Greenway Trail connecting Butte to …

LOCALProcess to finally remove dirt contaminated with mining waste to start at Parrot tailings site SUSAN DUNLAP susan.dunlap@mtstandard.com Jun 18, 2018
After two years of delay, shovels will be moving dirt at the Parrot tailings site behind the Civic Center Thursday.

COLUMNISTS Guest view: Superfund agreement does not go far enough FRITZ DAILY Jun 19, 2018
After giving considerable thought to the recently released agreement in principle, let me offer my thoughts. Simply put — Butte deserves better!

LOCALEDITOR'S PICKShovels move dirt, marking start of Parrot tailings removal SUSAN DUNLAP susan.dunlap@mtstandard.com Jun 21, 2018
Gov. Steve Bullock summed up the sentiment in the air in four words at the old ball field behind the Civic Center during the ceremonial kickof...

OUTDOORSConfluence area grand opening at Milltown State Park Jun 21, 2018
Montana State Parks invites the public to the grand opening Saturday, June 23, of the Confluence Area at Milltown State Park. This day-long celebration will feature a formal dedication, educational lectures, local food and drink, interactive activities for kids and families, lively bluegrass music from Milltown Damn, and much more.

COLUMNISTSGuest view: Restore Our Creek committed to restoring first mile of Silver Bow Creek NORTHEY TRETHEWAY Jun 24, 2018
As president of Project Green, Inc., a twenty-three-year-old non-profit in Butte (which spearheaded the development of a twenty-six mile Green...

COLUMNISTSGuest view: Restored creek is essential for economic developmentEVAN BARRETT Jun 25, 2018
My name and face pops up these days related to the Restore Our Creek Coalition. But some Butte folks may also recall my economic development w...

COLUMNISTSGuest view: EPA's Scott Pruitt no friend to Montana's environment, economy KARIN KIRK Jun 25, 2018
Crisp, clean air. Sparkling trout streams. White, pure powder snow. A diverse blend of plants and animals thriving alongside healthy people. O...

New York Times. June 25, 2018. The Berkeley Pit, a mile-wide hole in Butte, Mont., where copper used to be mined, currently holds 50 billion gallons of contaminated water. It's hoped that the water, once treated, could be a new "headwaters" for a section of the Silver Bow Creek that remains unrestored. CreditJanie Osborne for The New York Times

Answers about the latest county-shops relocation issue are elusive SUSAN DUNLAP susan.dunlap@mtstandard.com Jun 26, 2018

At least one Butte-Silver Bow County commissioner wants answers to questions swirling around the relocation of the county's vehicle and mainte…

LOCALTOPICALBenevento: EPA head Scott Pruitt resignation won't affect Butte SUSAN DUNLAP and THE ASSOCIATED PRESS susan.dunlap@mtstandard.comJul 5, 2018
Doug Benevento, administrator for the Environmental Protection Agency's Region 8, said Thursday that the resignation of the EPA's top official…

LOCALEDITOR'S PICKCommunity members push back on EPA, want restored creek SUSAN DUNLAP susan.dunlap@mtstandard.com Jul 13, 2018
Sending storm water down Butte mine shafts is one idea that came up during a meeting with community members and federal and state officials Thursday.

LOCALMontana Resources could take tailings waste from the Butte Hill Superfund cleanup SUSAN DUNLAP susan.dunlap@mtstandard.com Jul 18, 2018
Tailings waste from the Butte Hill Superfund cleanup could land on Montana Resources property, said a federal official.

LOCALEDITOR'S PICKConstruction still hasn't started on Montana Pole Plant cleanup SUSAN DUNLAP susan.dunlap@mtstandard.com Jul 22, 2018
Reclamation work on the Montana Pole Plant has been delayed, at least in part, due to the acceleration of plans to clean up the Butte Hill, sa…

COLUMNISTSCONTRIBUTEDAI more accurate than animal testing for spotting toxic chemicals Thomas Hartung Johns Hopkins University Jul 25, 2018
(The Conversation is an independent and nonprofit source of news, analysis and commentary from academic experts.)

LOCALEDITOR'S PICKStudies to look at how contamination from mining, smelting might be impacting Butte's healthSUSAN DUNLAP susan.dunlap@mtstandard.comJul 25, 2018
A board of agency officials, Atlantic Richfield Company and volunteers are conducting a study over the next year to look at how lead contamina…

LOCALEDITOR'S PICKTOPICALAgreement reached on Anaconda Superfund cleanup SUSAN DUNLAP susan.dunlap@mtstandard.comJul 29, 2018
The parties to Anaconda's Superfund cleanup have reached an agreement in principle, the Environmental Protection Agency announced Sunday.

Anaconda crowd, hungry for Superfund details, gets only a few SUSAN DUNLAP susan.dunlap@mtstandard.com Jul 31, 2018

The negotiators to Anaconda's agreement on cleanup made their mission accomplished announcement before a frustrated crowd of about 50 resident…

Superfund 101 with Nora Saks June 29, 2018

Nora Saks is a journalist with Montana Public Radio, in this episode we talk about living in Butte and reporting on Superfund. Nora is currently working on a new podcast about Butte which you can find more info on. READ MORE

Superfund 101: Susan Dunlap June 26, 2018

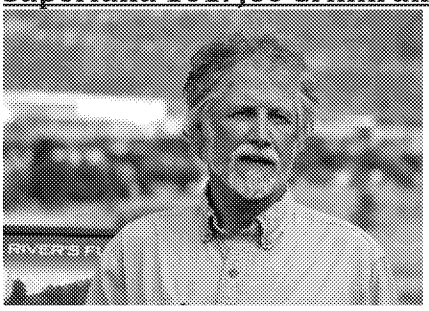
Susan Dunlap has been the environmental reporter for The Montana Standard since 2015, reporting on a wide range of issues affecting the ecosystems in southwest Montana. In this recording Susan talks about what brought her to Butte and how she approaches the story of this city's cleanup. READ MORE

Superfund 101: John Ray and The Health Study June 26, 2018

Dr. John Ray is a professor at Montana Tech and chairman of Citizens for Labor and Environmental Justice (CLEJ). In this recording, Dr. Ray gives his thoughts on the EPA

mandated health study and where he believes it falls short in determining the overall health of the community in Butte.READ MORE

Superfund 101: Joe Griffin and Stormwater Ponds May 30, 2018

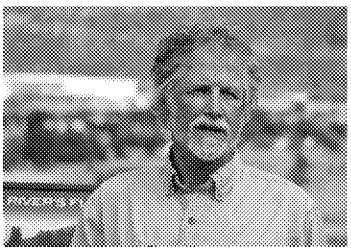


Stormwater is the biggest issue facing the Butte Priority Soils Operable Unit. Copper running off The Hill during spring melt and storm events contaminates water downstream of Butte, and even in low quantities can threaten aquatic life. Before these contaminates reach the restored Silver Bow Creek, they for the most part run into the historic channel running from Texas Avenue to the slag wall canyon near I-90. According to Joe, vegetated stormwater retention ponds in this area would greatly reduce the copper that enters the creek.READ MORE

Superfund 101: Northey Tretheway and The Restore Our Creek Coalition May 22, 2018

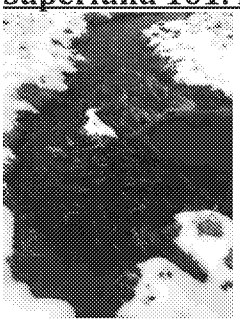
Northey Tretheway talks about what the Restore Our Creek Coalition has accomplished in it's short tenure as a community organization, and what they want to see out of the still secret Consent Decree negotiations: a restored Silver Bow Creek.

Superfund 101: Joe Griffin and the Sub Drain May 15, 2018



Joe Griffin returns to the KBMF studio to talk about contamination sources near Silver Bow Creek and the processes with which they are currently dealt with. The sub drain underneath the historic creek channel from Texas Avenue to the slag wall canyon has been the subject of much scrutiny, but Joe says the question is not *if* the drain is working, but is it working well enough?

Superfund 101: Evan Norman and CFWEP's Beaver Mimicry Project May 14, 2018



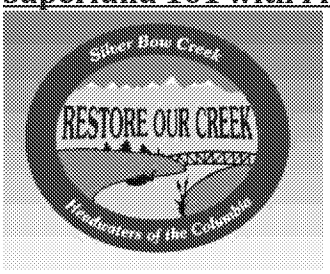
Evan Norman with the Clark Fork Watershed Education Program Talks about the benefits that beaver dams have on streams and CFWEP's attempt to mimic these effects in the watershed around Butte. Find out more by visiting the beaver mimicry site here.

Superfund 101: Pat Cunneen and the Parrot Tailings May 14, 2018

Pat Cunneen, environmental scientist for the Butte Natural Resource Damage Restoration Council, dives deep into the Parrot Tailings in this two part series for Superfund 101. In

Part 1, we talk about the history of the site from a smelter in the late 1800's, to it's present day use as baseball field and home to the Butte Silver Bow county shops. In Part 2, Pat explains why the tailings need to go and the plan for removal.

Superfund 101 with Fritz Daly May 08, 2018



Fritz Daly has been in the thick of Butte's environmental issues for the last 40 years. Many credit his unrelenting watchfulness with changing how the community interacts with policy makers and responsible parties. In this episode of Superfund 101, Fritz lays out why paying attention to how Butte has been treated in the past will have an effect on the quality of cleanup we recieve in the future.

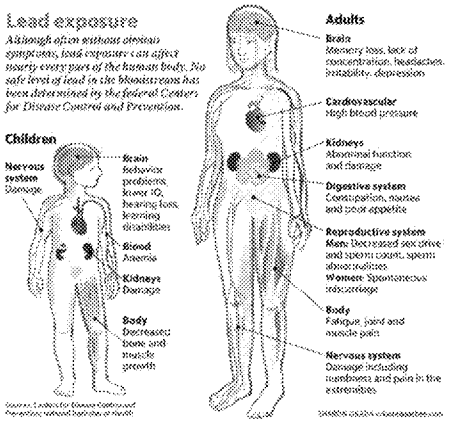
Superfund 101 with Robert Pal April 12, 2018

Dr. Robert Pal is the Director of Restoration at Montana Tech in the Chemistry and Biology department. Originally from Hungary, Dr. Pal has an extensive background in ecology, biology, botany and phytosociology (the study of plant communities). Since coming to Butte, Robert has worked closely with the BNRC and Butte-Silver Bow County to develop restoration plans and seed mixtures in what he calls the "novel landscape" here on the Butte hill.

Superfund 101 with Mark Thompson April 11, 2018

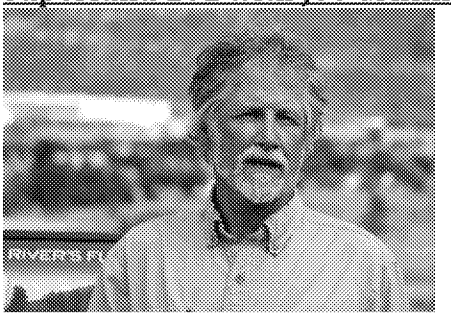
Mark Thompson is Montana Resources' Vice President of Environmental Affairs. In this episode he discusses current mining operations in the Continental Pit and how Montana Resources and BP/ARCO interact with Superfund operations in the the Butte Mine Flooding Operable Unit. Mark also walks us through an outline of the proposed pumping and treating of contaminated water from the Berkeley Pit and the Yankee Doodle Tailings Pond.

Superfund 101 with Katie Hailer February 28, 2018



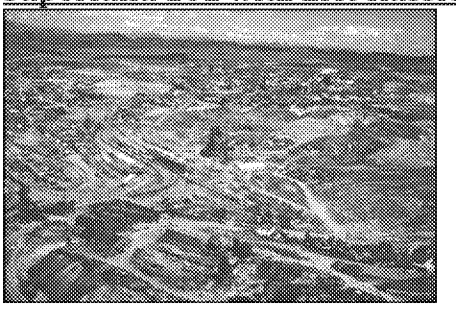
KBMF environmental reporter Ted McDermott talks to Dr. Katie Hailer about a recent study she authored entitled *Assessing Human Metal Accumulation near an Urban Superfund Site*. Dr. Hailer is a professor of Organic Chemistry at Montana Tech, in her paper she studied lead levels in the blood and hair of Butte residents compared to those of Bozeman.

Superfund 101 with Joe Griffin February 26, 2018



Joe griffin is a retired hydro-geologist and member of Citizens Technical Environmental Committee (CTEC). Since retiring from the Montana Department of Environmental Quality (DEQ) Joe has worked to monitor and chart data concerning contaminants in Silver Bow and Blacktail Creeks. Joe's work is primarily concerned with the water data from Butte Area 1, or upper Silver Bow Creek and the alluvial aquifer near the soon to be removed Parrot Tailings.

Superfund 101 with Eric Hassler February 12, 2018



Eric Hassler is the Superfund Operations and Maintenance Manager for Butte Silver Bow. Eric oversees all city duties related to Superfund and in this three part series on Superfund 101 we talk about the Residential Metals Abatement Program (RMAP), the Butte Reclamation Evaluation System (BRES) and stormwater operations in the Butte Priority Soils Operable Unit.