DOCUMENTS RECEIVED at Butte CTEC:

2010

January – March

! Warm Springs Ponds Operable Unit Monthly Discharge Reports:

Jan	2010 (electronic)
Feb	2010 (electronic)
March	2010 (electronic)

! Butte Mine Flooding Operable Unit Monthly Reports:

Jan	2010
Feb	2010
March	2010

! Butte Mine Flooding Operable Unit 2009 Summary Report

! Clark Fork Watershed Education Program (CFWEP) Newsletter, Feb 2010 (electronic)

! Butte Natural Resource Council (BNRC) 2010 Grant Application Reminder

! Science, Society and Superfund - Pat Munday. Added a link on the CTEC website.

! Cut and Run: EPA Betrays Another Montana Town. A Tale of Butte, the Largest Superfund Site
in the United Stated. (August 2005) (electronic)

April – June

! Warm Springs Ponds Operable Unit Monthly Discharge Reports:

April	2010 (electronic)
May	2010 (electronic)
June	2010 (electronic)

! Warms Springs Pond Operable Unit Quarterly Report. (electronic) April 2010

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

Apr	2010
May	2010
June	2010

! Butte Mine Flooding Operable Unit Annual Report. Montana Bureau of Mines and Geology, May 2010.

! Clark Fork Watershed Education Program (CFWEP) Newsletter. Spring 2010 (electronic)

! Response Action Contract for Remedial, Enforcement Oversight, and Non-time Critical Removal Activities at Sites of Release or Threatened Release of Hazardous Substances in EPA Region VII. Data Usability Assessment Report 2009 Buffalo Gulch Stormwater Study. Environmental Protection Agency, April 2010.

! The Parrot Complex: A Drilling Investigation of Historic Mine Waste Left in Place; Tailings and Overburden Volumes, Leachability and Economic Feasibility for Recovery, and Water Quality Along the Upper Metro Storm Drain in Butte, Montana. Montana Bureau of Mines of Geology Open file report #590. February 2010.

! Environmental Protection Agency Bulletins for the Silver Bow Creek/Butte Area.
1. Residential Metals Abatement Program (RMAP). March 2010.
2. Contacts. April 2010.
3. Granite Mountain Memorial Area (GMMA). May 2010.
4. Cleanup Work 2010 and Beyond. June 2010.

! Five-Year Review of the Cleanup Work at the Anaconda Smelter Superfund Site Postcard. Environmental Protection Agency and Department of Environmental Quality, May 2010.

July-September

- Warm Springs Ponds Operable Unit Monthly Discharge Reports:

July	2010 (electronic)
August	2010 (electronic)
September	2010 (electronic)

- Butte Mine Flooding Operable Unit Monthly Reports: Montana Bureau of Mines and Geology
  - July 2010
  - August 2010
  - September 2010

- Environmental Protection Agency Bulletins for the Silver Bow Creek/Butte Area.
  # 5. Redevelopment and Institutional Controls. July 2010.
  # 6. Butte Reclamation Evaluation System - BRES. August 2010.

October-December

! Warm Springs Ponds Operable Unit Monthly Discharge Reports:
  - September 2010 (electronic)
  - October 2010 (electronic)
  - November 2010 (electronic)

! Butte Mine Flooding Operable Unit Monthly Reports: Montana Bureau of Mines and Geology
  - September 2010
  - October 2010
  - November 2010

! Warm Springs Ponds Operable Units of the Silver Bow Creek Area NPL Site, Document No. CERCLA-VIII-91-25- Second Quarter 2010 O& M Report. (electronic 10/20/2010)

! Aquifer Test Evaluation conducted on the Middle Gravel Unit of the Alluvial Aquifer in Upper Metro Drain Area, Butte, Montana. Montana Bureau of Mines of Geology open file report #592. Nicholas Tucci and Gary Icopini. July 2010.

! Draft Information Summary, Conceptual Model, and Groundwater Modeling Report: Butte Metro Sewer Treatment Plant Dewatering. Montana Pole and Treating Plant Site. Butte, MT. DEQ Contract No. 407026-Task Order No. 68. Prepared for DEQ remediation Division by Tetra Tech. September 7, 2010

! Draft design document Butte Treatment Lagoons (BTL) and West Camp Pump Station (WCP-1) Upgrades Design Report/Work Plan. ARCO. September 21, 2010. The report is open for review

! Final Metro Storm Drain (MSD) 2009 Tracer-Dilution Study Technical Memorandum. ARCO. Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. September 29, 2010.

! Final 2010 Metro Strom Drain (MSD) Mid-Level Aquifer Pumping Test Technical

Memorandum. ARCO. Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. December 8, 2010.

! Clark Fork Watershed Education Program (CFWEP) Newsletter. Fall 2010 (electronic)

! US EPA Third Five-Year Review Report for Silver Bow Creek/Butte Area Superfund Site. Public Comment Draft Report. December 2010
Volume 1: Site-Wide Review Summary
Volume 2: Stream Side Tailings Operable Unit
Volume 3: Mine Flooding Operable Unit
Volume 4: Warms Springs Ponds Active and Inactive Operable Units
Volume 5: Rocker Timber Framing and Treating Plant Operable Unit
Volume 6: Butte Priority Soils Operable Unit

! Environmental Protection Agency Bulletins for the Silver Bow Creek/Butte Area.
7. Butte Treatment Lagoons (Lower Area One), Butte Treatment Lagoons (BTL) and West Camp Pump Station Upgrades. October 6, 2010.
8. Butte USA Café, Butte Restoration Alliance. November 10, 2010.
9. 2010 Fall Superfund Work, December 1, 2010.
10. Five Year Review. December 22, 2010.

! The State of Montana Natural Resource Damage Program resolution, by the Upper Clark Fork River Basin 2010 Advisory Council, Long Range Restoration Priorities and Fund Allocation Guidance Plan. Open for public comment until November 30, 2010.

! Rhodia Semi-Annual Community Update #11, November 2010.

! MUST News, *Montana Storage Tank Program* Newsletter, DEQ, Fall 2010.

2011

January – March 2011

! Warm Springs Ponds Operable Unit Monthly Discharge Reports:

January 2011 (electronic)

February 2011 (electronic)

March 2011 (electronic)

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

January 2011

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March 2011

! Environmental Protection Agency Bulletins for the Silver Bow Creek/Butte Area.

11. Citizen's Technical Environmental Committee (CTEC) & Technical Assistance Grant (TAG). January 26, 2011.

12. Community Engagement & EPA's New Office. February 23, 2011.

! Department of Environmental Quality Bulletin for the Montana Pole and Treating Plant Superfund Site. Five-Year Review at Montana Pole. March 2011.

! Work Planned for 2011at the Anaconda Smelter Superfund Site newsletter. EPA, March 2011.

April – June 2011

! Warm Springs Ponds Operable Unit Monthly Discharge Reports:

April 2011 (electronic)

May 2011 (electronic)

June 2011 (electronic)

! Warms Springs Pond Operable Unit Quarterly Report. (electronic) April 2010

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

April 2011

May 2011

June 2011

! Butte Mine Flooding Operable Unit Annual Report. Montana Bureau of Mines and Geology, May 2011.

! Special Edition Superfund Issue. Mt Standard. May 15, 2011. (CTEC advertisement in this publication)

! The Montana Steward. Clark Fork Watershed Education Program (CFWEP) Newsletter. Spring 2011 (CTEC Advertisement in this publication)

! Environmental Protection Agency Bulletins for the Silver Bow Creek/Butte Area. # 13. 2010 Residential Metals Abatement Program Activities. April 6, 2011.

! Weed Workshop Symposium. April 15, 2011. Rick Douglass. Thornton Building, Butte.

! Rhodia Semi-Annual Community Update #12. May 2011.

! Department of Environment Quality, Montana Underground Storage Tank Program Newsletter. Spring 2011.

July – September

! Warm Springs Ponds Operable Unit Monthly Discharge Reports:

July	2011 (electronic)
August	2011 (electronic)
September	2011 (electronic)

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

July	2011
August	2011
September	2011

! U.S. Environmental Protection Agency, Revised Community Involvement Plan for Butte Priority Soils Operable Unit (BPSOU), Silver Bow Creek/Butte Area Superfund Site. EPA. November 2003.

! Five Year Review Report. Third Five Year Review Report for the Montana Pole and Treating Plant Site. Butte, Montana. Prepared by Montana Department of Environmental Quality and U.S. EPA Region 8. June 2011. Hard copy and DVD copy.

! Explanation of Significant Differences to the 2006 Butte Priority Soils Operable Unit Record of Decision. EPA. July 2011. Hard copy and DVD copy.

- U.S. EPA, Region 8. EPA Docket No. CERCLA-08-2011-0011. Administrative Order for Remedial Design/Remedial Action Implementation and Certain Operation and Maintenance at the BPSOU/Butte Site. July 2011.

- Environmental Protection Agency response letter to CTEC. This letter was in response to comments sent to the EPA by CTEC on the Five Year Review for the Silver Bow Creek/Butte Area Superfund Site, January 31, 2011. EPA letter July 18, 2011.

- Butte Silver Bow Creek/Butte Area NPL Site. BPSOU. Final Butte Treatment Lagoon (BTL) and West Camp Station (WCP-1) Upgrades Construction Phase I Construction Quality Assurance Plan. ARCO. August 5, 2011.

- 2011 Annual Drinking Water Quality Report. Butte-Silver Bow Department of Public Works Water Utility Division. August 2011.

- Environmental Protection Agency Bulletins for the Silver Bow Creek/Butte Area.
  # 14. 2011 Unilateral Administrative Order (UAO) and Work Plan August 10, 2011.

- Natural Resource Damage Program announcement for open public comment period for the "Long Rang Restoration Priorities and Fund Allocation Guidance Plan". The comment period is open until October 11, 2011.

- Butte Silver Bow Creek/Butte Area NPL Site, BPSOU. Draft Final Phase I Upgrades Dewatering Aeration Pilot Study Work Plan. ARCO. August 18, 2011. DVD only.

- Draft Final Butte Treatment Lagoons Water Management Contingency Operations Technical Report. ARCO. August 23, 2011. DVD only.

- CTEC, public question new EPA data. Butte Weekly. August 24, 2011.

- Response letter from Julie DalSoglio, EPA Montana Office Director. This letter was in response to comments sent to the EPA by CTEC concerning community engagement and outreach in the Butte area. CTEC letter dated April 25, 2011. EPA letter dated August 31, 2011.

- Butte Silver Bow Creek/Butte Area NPL Site. BPSOU. Draft Butte Treatment Lagoons and Lower

Area One Treatment System Control Theory Document – EPA Docket No. CERCLA 08-2011-0011. ARCO. September 6, 2011. DVD only.

! 2011 Cost Estimate for the Removal of the Parrot Tailings. Prepared for the Natural Resource Damage Program. September 2011. Hard Copy.

! Butte Silver Bow Creek/Butte Area NPL Site. BPSOU. Draft Final Metro Storm Drain (MSD) Sub-Drain High Flow and Low Flow Loading Study. Arco. September 19, 2011. DVD only.

! Environmental Protection Agency Bulletins for the Silver Bow Creek/Butte Area.
15. Silver Bow Creek/Butte Area Summer Summary 2011 September 21, 2011.

! Butte Silver Bow Creek/Butte Area NPL Site. BPSOU. Draft Final Metro Storm Drain (MSD) Discharge Line Modification and Maintenance Work Plan. Arco. September 27, 2011. DVD only.

! Montana Underground Storage Tank Program Newsletter. Must News. DEQ. Summer Issue 2011. Hard copy.

! Butte Silver Bow Creek/Butte Area NPL Site. BPSOU. Draft Butte Treatment Lagoons (BTL) and West Camp Pump Station (WCP-1) Upgrades Design Report/Work Plan- Addendum II – Instrumentation, Controls, and Monitoring Upgrades Design Review Submittal. Arco. September 30, 2011. DVD only.

October – December

! Warm Springs Ponds Operable Unit Monthly Discharge Reports:

October	2011 (electronic)
November	2011 (electronic)
December	2011 (electronic)

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

October 2011	
November	2011
December	2011

! The Montana Steward. Clark Fork Watershed Education Program (CFWEP) Newsletter. Fall 2011 (CTEC AD in this publication)

! Butte-Silver Bow comment letter to The Natural Resource Damage Program Trustee Council concerning the Upper Clark Fork River Basin Long Range Restoration Priorities and Fund Allocation Guidance Plan dated August 29, 2011. B-SB. October 5, 2011. Hard copy.

! Butte Priority Soils Operable Unit. September 2011 Monthly Report of Activities. Unilateral Administrative Order-Docket No. CERCLA 08-2011-0011. ARCO October 10, 2011. Hard Copy.

! Butte Priority Soils Operable Unit (BPSOU) Updated Final Sediment Basins Work Plan and Agency Comments and Responses. ARCO. October 13, 2011. DVD only.

! Responses to EPA Comments on the Draft Final Third Cycle Best Management Practices (BMPs) Warren Avenue Hydrodynamics Device Work Plan, Atlantic Richfield Company, August 2011 – resubmitted by e-mail on September 16, 2011. ARCO. October 17, 2011. DVD only.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Final Work Plan for the Lower Area One (LAO) East End Culvert Removal. ARCO. October 25, 2011. Hard copy

! Draft final 2011 Blacktail Creek and Silver Bow Creek Aerial Thermal Imaging Survey Technical Memorandum. ARCO October 28, 2011. DVD only.

! Butte Priority Soils Operable Unit (BPSOU), Buffalo Gulch – Webster Garfield School Hydrodymanic Device Work Plan. ARCO November 3, 2011. DVD only.

! Butte Priority Soils Operable Unit. September/October 2011 Monthly Report of Activities. Unilateral Administrative Order (UAO) –EPA Docket No. CERCLA 08-2011-0011. Butte-Silver Bow (B-SB) Planning Department. November 8, 2011. Hard copy.

! Butte Priority Soils Operable Unit. Final Metro Storm Drain Sub-Drain High Flow and Low Flow Loading Study Work Plan. ARCO. November 9, 2011. DVD only.

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Order-Docket No. CERCLA 08-2011-0011. ARCO November 10, 2011. Hard copy.

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! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Final Third Cycle Best Management Practices (BMPs) Groundwater Investigation Work Plan. ARCO. November 23, 2011. Hard copy and DVD copy.

! Letter from the Butte Restoration Alliance to Julie DalSaglio, EPA Montana Office Director. The letter was concerning EPAs decision to sequester samples recovered during the drilling until ARCO has completed their test work. They asked that this material be shared in a timely manner so the BNRC and public can have access to information on all aspects of aquifer flow paths.

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! Environmental Protection Agency Bulletins for the Silver Bow Creek/Butte Area. # 16 2011 Winter Updates. November 28, 2011.

! Butte Priority Soils Operable Unit, Silver Bow Creek/Butte Area Superfund Site. Final Technical Memorandum. Technical Impracticability Evaluation for Alluvial Groundwater. EPA. February 2006. Hard Copy.

! Butte Priority Soils Operable Unit, Silver Bow Creek/Butte Area Superfund Site. Technical Issue discussion and response to comments received on the Draft Alluvial Groundwater Technical Impracticability Evaluation MAY 2006. EPA Hard Copy.

! Butte Priority Soils Operable Unit, Silver Bow Creek/Butte Area NPL Site. Draft Final Work Plan for the Lower Area One (LAO) Low Flow Channel Crossing Installation and Dike Culver Removal.

ARCO. November 30, 2011. Hard copy and DVD copy.

! Mt Standard Newspaper Article. A Plan for Parrott Tailings. Fitz Daily. December 1, 2011.

! Butte Priority Soils Operable Unit. November 2011 Monthly Report of Activities. Unilateral Administrative Order (UAO) –EPA Docket No. CERCLA 08-2011-0011. Butte-Silver Bow (B-SB) Planning Department. December 9, 2011. Hard copy. On EPA website.

! Butte Priority Soils Operable Unit. December 2011 Monthly Report of Activities. Unilateral Administrative Order-Docket No. CERCLA 08-2011-0011. ARCO December 10, 2100. Hard copy.

! Montana Underground Storage Tank Program Newsletter. Must News. DEQ. Fall and Winter Issues 2011. Hard Copy.

! Butte Priority Soils Operable Unit, Silver Bow Creek/Butte Area NPL Site. Final "Butte Treatment Lagoons (BTL) and Metro Storm Drain (MSD) Geotechnical Investigation Work Plan. ARCO. December 19, 2011. Hard copy and DVD copy.

2012

JANUARY – MARCH 2012

! Warm Springs Ponds Operable Unit Monthly Discharge Reports:

December	2011 (electronic)
January	2012 (electronic)
February	2012 (electronic)

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

December	2011
January	2012
February	2012

! Butte Priority Soils Operable Unit. Monthly Report of Activities. Unilateral Administrative Order (UAO) –EPA Docket No. CERCLA 08-2011-0011. Butte-Silver Bow (B-SB) Planning Department.

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December 2011

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! Butte Priority Soils Operable Unit. Monthly Report of Activities. Unilateral Administrative Order-Docket No. CERCLA 08-2011-0011. ARCO Hard Copy

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! Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Draft Final Butte Treatment Lagoons (BTL) CO2 Influent Addition and Effluent/Silver Bow Creek Monitoring Work Plan. ARCO. January 5, 2012. Hard copy.

! Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Final 2011 Radon Tracing Evaluation to Detect Upwelling Groundwater in Blacktail Creek and Silver Bow Creek During Base Flow Conditions. ARCO. January 24, 2012. Hard copy.

! Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Work Plan for the Lower Area One (LAO) Low Flow Channel Crossing Removal. ARCO. January 30, 2012. Hard copy.

! Remedial Action Contract for Remedial Enforcement Oversight, and Non-Time-Critical Removal Activities at Sites of Release or Threatened Release of Hazardous Substances in EPA Region 8. US EPA Contract Number EP-W-05-049. 2010 Groundwater Data Analysis Report BPSOU SBC/Butte Area NPL. Work Assignment Number 311-NGNG-0822. EPA (CDM). January 2012. Hard copy.

! Butte Priority Soils Operable Unit (BPSOU) Draft Final Lower Area One (LAO) Low Flow Channel Crossing Removal Work Plan. ARCO. January 31, 2012 Hard copy..

! Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Final Third Cycle Up-Front Best Management Practices (BMPs) Buffalo Gulch – Webster Garfield School Hydrodymamics Device Work Plan. ARCO. February 2012. Hard copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Final Butte Treatment Lagoons (BTL) CO2 Influent Addition and Effluent/Silver Bow Creek Monitoring Work Plan. ARCO. February 3, 2012. Hard copy.

- Environmental Protection Agency Bulletins for the Silver Bow Creek/Butte Area. # 17 West Camp Station and Hydraulic Devices. February 13, 2012. Hard copy.

- Responses to EPA Comments on the Draft Final Third Cycle Best Management Practices (BMPs) Buffalo Gulch-Webster Garfield School Hydrodynamic Device Work Plan (dated November 3, 2011) ARCO. February 17, 2012. Hard copy.

- Third Cycle Up-Front BMPS Hydrodynamic Devices Buffalo Gulch – Webster Garfield School. ARCO. February 17, 2012.

- Summary Report 2011. Water-Level Changes for Horseshoe Bend Flow, and Water Chemistry Data. Montana Bureau of Mines and Geology. February 33, 2012. Hard copy.

- Silver Bow Creek/Butte Area NPL Site BPSOU. Final Work Plan for the Lower Area One (LAO) Low Flow Channel Crossing Removal. ARCO. February 24, 2012 Hard copy.

- Stacie Barry dissertation. Coming to the Surface: The Environment, Health and Culture of Butte Montana. Electronic

- Butte-Silver Bow Health Department. Summary of Environmental Health Studies in Butte-Silver Bow. Stacie Barry, PHD. March 1, 2012. Hard copy

- Third Cycle Up-Front Best Management Practices (BMPs) Hydrodynamic Devices Anaconda Road. Located in Silver Bow County, Montana. ARCO. March 1, 2012. Hard copy.

- Third Cycle Up-Front Best Management Practices (BMPs) Anaconda Road Hydrodynamic Device Work Plan. ARCO. March 1, 2012. Hard copy.

- Silver Bow Creek/Butte Area NPL Site BPSOU. Draft BPSOU Silver Bow Creek Stream Bank Reclamation Project Construction Completion Report (CCR). ARCO(TREC). March 2012. Hard copy.

! Montana Department of Justice. Butte Natural Resource Damage Restoration Council (BNRC). Butte Area One Restoration Project Idea Submittal Form. Deadline for submittals April 20, 2012. Public workshops March 14 and March 20.

! Notes from February 29, 2012 Technical Work Group Meeting Column Testing of BPSOU Alluvial Material. Formation Environmental. March 13, 2012. Hard copy.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Draft final Metro Storm Drain (MSD) Discharge Line Modification and Maintenance Construction Completion Report (CCR).. ARCO. March 19, 2012. Hard copy..

! Work Plan Geochemical Analysis of Sonic Drilling Core Samples. BPSOU. Formation Environmental. March 23, 2012. Hard copy.

April – June 2012

! Warm Springs Ponds Operable Unit Monthly Discharge Reports:
March 2012 (electronic)
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! Butte Mine Flooding Operable Unit Monthly Reports: Montana Bureau of Mines and Geology
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! Butte Priority Soils Operable Unit. Monthly Report of Activities. Unilateral Administrative Order (UAO) – EPA Docket No. CERCLA 08-2011-0011. Butte-Silver Bow (B-SB) Planning Department. Electronic
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May 2012 (electronic)

! Butte Priority Soils Operable Unit. Monthly Report of Activities. Unilateral Administrative Order-Docket No. CERCLA 08-2011-0011. ARCO Hard Copy
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- Environmental Protection Agency Bulletin #18. Silver Bow Creek/Butte Area Residential Metals Program. April 2, 2012

- Butte Priority Soils Operable Unit. Revised Work Plan – West Camp Critical Water Level Review. MBMG for ARCO, EPA, MDEQ and MR. April 4, 2012. Hard Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Draft Final. Butte Treatment Lagoons (BTL) Access Crossings and North Access Road Improvement Work Plan. Revision 2. ARCO. April 6, 2012. Hard Copy.

- BPSOU/Butte Site Unilateral Administrative Order: CERCLA VIII-2011-011. Deliverables Schedule. ARCO to EPA. April 11, 2012. Hard Copy.

- Response Letter to Comments on Public Notice for Montana Resouces, Montana Polluntant Discharge Elimination System (MPDES) Permit No: MT 0000191. Mt. Dept of Environmental Quality to MR. April 12, 2012. Hard Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Draft Ground Water Study Plan for the Area between Lower Area One (LAO) and Metro Storm Drain (MSD) Capture Systems. ARCO. April 20, 2012. Hard Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. BPSOU 2012 Interim Groundwater Monitoring Plan. Required by the BPSOU/Butte Site Unilateral Administrative Order (UAO), CERCLA VIII-2011-011. ARCO. April 20, 2012. Hard Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Final Third Cycle Up-Front Best Management Practices (BMPs) Texas Avenue Hydrodymamic Device Work Plan. ARCO. April 25, 2012. Hard copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Draft Final. Third Cycle Best Management Practices (BMPs) Phase II Source Controls. Site 8S Idaho . ARCO. April 26, 2012. Hard and Electronic Copy.

- Rhodia Semi-Annual Community Update #13. May 2012. Hard Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Final. Butte Treatment Lagoons (BTL) Access Crossings and North Access Road Improvement Work Plan. ARCO. May 4, 2012. Hard and Electronic Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Draft Final. Butte Treatment Lagoons (BTL) and West Camp Pump Station (WCP-1) Upgrades Design Report/Work Plan. Addendum II – Instrumentation, Controls, and Monitoring Upgrades Design. ARCO. May 7, 2012. Hard and Electronic Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Draft Final. Operation, Maintenance, and Monitoring (O&M) Plan for Butte Priority Soils Operable Unit. Systems Control Theory Document. ARCO. May 7, 2012. Hard Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Third Cycle Up-Front BMPs, Geotechnical Investigation Findings for the Anaconda Road Hydrodymanics Device and Dewatering Requirements for the Anaconda Road Hydrodynamic Device Location. ARCO. May 8, 2012. Hard and Electronic Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. 2012 Interim Surface Water Monitoring Plan Location. ARCO. May 15, 2012. Hard Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Final. Addendum 1 to the Geochemical Analysis of Sonic Drilling Core Samples Work Plan. ARCO. May 16, 2012. Hard and Electronic Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Draft Final. Third Cycle Best Management Practices (BMPs) Phase II Source Controls Work Plan. ARCO. May 18, 2012. Hard and Electronic Copy.

- Comments of the Atlantic Richfield Company on 2010 Groundwater Data Analysis Report, Butte Priority Soils Operable Unit Silver Bow Creek/Butte Area NPL Site. Prepared for EPA Region 8 by CDM Federal Programs Corporation. ARCO. May 21, 2012. Hard Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. 2012 New Well Monitoring Results. ARCO. May 22, 2012. Electronic Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Monitoring results of the new monitoring wells installed during December 2011/January 2012. Excel Spreadsheet. ARCO. May 22, 2012

- Letter from Butte-Silver Bow Health Department to Air Resources Management Bureau. Request for Additional Air Quality Monitoring and Sampling Stations; Butte-Silver Bow. May 24, 2012. Hard Copy.

- Cancer Incidence in Silver Bow County, Montana, and the United States. Mt Cancer Surveillance & Epidemiology Program. DPHHS. Helena. May 31, 2012. Electronic Copy.

- Clark Fork Watershed Education Program (CFWEP). Montana Steward. Riparian Restoration. Vol 2 Issue 1. Spring/Summer 2012.

- Notice from Butte Silverbow Water Department Tier 2 Public Notification-Failure to Filter Water. PWISD: MT 0000170. June 1, 2012. Hard Copy.

- Geotechnical Report. Texas Avenue Hydrodynamic Device Geotechnical Investigation. Prepared by Pioneer Technical for ARCO & WWC Engineering. Project 16059. June 2012. Hard and Electronic Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Final Third Cycle Up-Front Best Management Practices (BMPs) Texas Avenue Hydrodymamics Device. ARCO. June 2012. Hard Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Final Third Cycle Up-Front Best Management Practices (BMPs) Anaconda Road Hydrodymamics Device Work Plan (2). ARCO. June 2012. Hard Copy.

- Environmental Protection Agency-Mt Department of Environmental Quality Agency Assignments and Contact Information. EPA/DEQ. June 2012. E-mail.

- Letter from Mt DEQ to Clark Fork Coalition and CTEC. Tentative Determination and Public Notice for Montana Resources, Montana Pollutant Discharge Elimination System (MPDES) Permit No: MT0000191. June 8, 2012. Hard Copy.

- Response to EPA Comments on ARCO Draft Final Third Cycle Up-Front Best Management Practices (BMPs) Anaconda Road Hydrodynamic Device Work Plan (dated March 2012). ARCO. June 11, 2012. Hard Copy.

- Butte Priority Soils Operable Unit (BPSOU) Unilateral Administrative Order (UAO). Docket No. CERCLA 08-2011-011. Change of Project Manager. Lindy Hanson will replace H.P. (Trey) Harbert, effective immediately. ARCO. June 15, 2012. Hard Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Final. Third Cycle Best Management Practices (BMPs) Phase II Source Controls. Site 8S Idaho . ARCO. June 15, 2012. Hard copy.

- Response letter from Julie DalSoglio, EPA to CTEC letter dated May 21, 2012. Long Term Water Quality Trends at Lower Area One (LAO). June 21, 2012. Hard Copy.

- Silver Bow Creek/Butte Area NPL Site Butte Priority Soils Operable Unit. Draft Final. 2011 Metro Storm Drain (MSD) Sub-drain Loading Study Interim Technical Memorandum. ARCO. June 29, 2012. Hard and Electronic Copy.

July-September 2012

! Unilateral Administrative Order Monthly Report of Activities - **ARCO**

June	2012 (hard) Electronic on EPA website
July	2012 (hard)
August	2012 (hard)

! Unilateral Administrative Order Monthly Report of Activities - **Butte-Silver Bow**

June	2012 (electronic) (Downloaded from EPA website)
July	2012 (electronic)
August	2012 (electronic)

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

June	2012 (electronic) (Downloaded from EPA website)
July	2012 (electronic)
August	2012 (electronic)

! Warm Springs Ponds Operable Unit Monthly Discharge Reports:

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July	2012 (electronic)
August	2012 (electronic)

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

June	2012 (hard)
July	2012 (hard)
August	2012 (hard)

! Butte Priority Soils Operable Unit (BPSOU) Final. 2012 Addendum 1 to the Geochemical Analysis of Sonic Drilling Core Samples Work Plan. Atlantic Richfield Company, July 3, 2012. Hard copy and DVD.

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- Geochemical and Hydrogeologic Investigation of Groundwater Impacted by Wastes Left in Place in the Butte Priority Soils Operable Unit Butte, MT. MBMG Open-File Report 613. May 2012.

- Responses to Final State Comments on The Butte Priority Soils Operable Unit (BPSOU) Geochemical Analysis of Sonic Drilling Core Samples. Atlantic Richfield Company, July 24, 2012 Hard copy only.

- Responses to EPA Comments on AR's Draft Final Third Cycle Best Management Practices (BMPs) Texas Avenue Hydrodynamics Device Work Plan, Atlantic Richfield Company, July 27, 2012 Hard copy only.

- Butte Priority Soils Operable Unit (BPSOU) Final. Third Cycle Best Management Practices (BMPs) Warren Avenue Hydrodynamics Devices, located in Silber Bow County, Montana. Atlantic Richfield Company, July 2012 Hard copy only.

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Draft Final – Quarterly Operations and Maintenance Report Butte Treatment Lagoons (BTL) - Third Quarter 2015. Atlantic Richfield Company. November 12, 2015. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Final – Operations Guide for Butte Treatment Lagoons (BTL) Lower Area One (LAO) Groundwater Treatment System. Atlantic Richfield Company. November 19, 2015. 6 page letter and DVD. No report.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Final – Wetland Demonstration Area Construction Completion Report (CCR). Prepared by Pioneer for Atlantic Richfield Company. November 17, 2015. Cover sheet and approval letter to report only. Draft approved.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Final. Quarterly Operation and Maintenance Report – Butte Treatment Lagoon System – Third Quarter 2015. Atlantic Richfield Company. December 2, 2015. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Final. Quarterly Operation and Maintenance Report – Butte Treatment Lagoon System – Second Quarter 2015. Atlantic Richfield Company. December 4, 2015. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.

Draft Final Data Summary Report. Base Flow and Wet Weather Data January 2013- December 2013. Atlantic Richfield Company. December 2015. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Addendum: Draft Final Data Summary Report. Butte Hill Diagnostic and Hydrodynamic Device Data January 2013- December 2013. Atlantic Richfield Company. December 2015. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Final Data Summary Report. Base Flow and Wet Weather Data January 2014- December 2014. Atlantic Richfield Company. December 2015. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Addendum: Draft Final Data Summary Report. Butte Hill Diagnostic and Hydrodynamic Device Data January 2014- December 2014. Atlantic Richfield Company. December 2015. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Final 2015/2016 BPSOU Ambient Particle Monitoring Plan. Prepared by TREC for Atlantic Richfield Company. December 2015. Hard copy only.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Final. 2015 Butte Mine Waste Repository Operation and Maintenance Manual. Atlantic Richfield Company and Butte Silver Bow. December 2, 2015. New Cover sheet only. Draft approved with no changes. DVD.

! Superfund Advisory and Redevelopment Trust (SARTA) 2016 Project Application. Meeting December 8, 2015. BSB website.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Final Revised. 2015 Metro Storm Drain Groundwater Management Report. Atlantic Richfield Company. December 10, 2015. Hard copy and DVD.

2016

January - March 2016

! Unilateral Administrative Order Monthly Report of Activities - **ARCO**

December 2016 (hard) (Downloaded from EPA website)

January 2016 (hard)

February 2016 (hard)

! Unilateral Administrative Order Monthly Report of Activities - **Butte-Silver Bow**

December 2016 (hard) (Downloaded from EPA website)

January 2016 (electronic)

February 2016 (electronic)

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

December 2016 (hard) (Downloaded from EPA website)

January 2016 (electronic)

February 2016 (electronic)

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

December 2016 (hard)

January 2016 (hard)

February 2016 (hard)

! Natural Resource Damage Program Butte Area One – Draft Restoration Plan Amendment – Parrot Tailings Waste Removal December 31, 2015 NRDP@MT.gov. Online

! Restore Our Creek Public Forum Announcement - January 19, 2016 – Hard copy.

! Butte Natural Resource Damage Program Meeting Agenda - January 14, 2016 – Electronic and hard copy.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Final Interim Surface Water Monitoring Plan. Prepared by TREC for Atlantic Richfield Company.

February 2016. Hard copy and DVD w/Appendix A.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Final 2015 Butte Hill Diagnostic Surface Water Monitoring Plan. Prepared by TREC for Atlantic Richfield Company. Report May 2015. Revised February 2016. Hard copy only.

! Butte Mine Flooding Operable Unit.. Annual Report - 2014. Water-Level Monitoring and Water-Quality Sampling 2014 Consent Decree Update. Butte, Montana 1982-2014. Prepared for the Department of Environmental Quality, Remediation Division and the US EPA Region 8 – Montana Bureau of Mines and Geology Nichola Tucci and Terence Duaime. Open File Report #661. Report May 2015. Letter dated Feb 23, 2106.Hard copy.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Final Metro Storm Drain (MSD) Pump Station Upgrades Construction Completion Report (CCS). Atlantic Richfield Company. February 26, 2016. Hard copy and DVD.

! Silver Bow Creek Headwaters Coalition LLC Lawsuit against the State of Montana. Coalition members Sister Mary Jo McDonald, Ron Davis and Fritz Daly. Written by Fritz Daly. February 2016. Hard copy.

! The Berkeley Pit – an Ecological Time Bomb Preface. Written by Fritz Daly. February 2016. Hard copy.

! Superfund Advisory and Redevelopment Trust Authority (SARTA) 2016 Project Application. Projects applications are due by March 15, 2016. Hard copy and BSB website.

! Residential Metals Abatement Program. 2015 Construction Completion Report. Work Performed Under EPA Order During the 2015 Construction Season. January 1, 2015 through December 31, 2015. Butte-Silver Bow Health Department. February 2015. Hard copy and BSB website.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Final Revised Technical Memorandum: Percolation Evaluation for Upper Metro Storm Drain (MSD) Buried Tailings, Diggings East Tailings, Diggings East Tailings, and Northside Tailings Areas. Prepared by Formation for Atlantic Richfield Company. March 2016. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Final – Lexington Mine Site Remedial Action Work Plan Final Design Report (RAWP/FDR). Atlantic Richfield Company. March 2016. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Final. Quarterly Operation and Maintenance Report Butte Treatment Lagoons System – Fourth Quarter 2015. Atlantic Richfield Company. March 8, 2016. Hard copy and DVD.

! Upper Clark Fork Remediation and Restoration Advisory Council. Meeting Agenda – February 17, 2016 - Deer Lodge. Natural Resource Damage Program. Public comment on Proposed Revision for SSTOU/SBC Excess Remediation Funds open comment until March 14, 2016 NRDP@MT.gov. Hard copy.

! Natural Resource Damage Program Open Comment Notice. Public comment on Proposed Revision for SSTOU/SBC Excess Remediation Funds open comment until March 14, 2016 NRDP@MT.gov. Hard copy.

! Butte Mine Flooding Operable Unit: 2015 Summary Report. Summary of 2015 Water-Level Changes, Horseshoe Bend Flows, and Water-chemistry Data for the BMFOU. Letter dated March 21, 2106. Montana Bureau of Mines and Geology. Hard Copy.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Final. Annual Operation and Maintenance Report Butte Treatment Lagoons System - 2015. Atlantic Richfield Company. March 29, 2016. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Data Summary Report. Interim Ground Water Monitoring 2015. Prepared by TREC for Atlantic Richfield Company. March 31, 2016. Hard copy and DVD w/ field notes.

! Butte Citizens for Preservation and Revitalization. Spring 2016 Newsletter - CTEC Storm Water Flyer Insert included in newsletter. March 31, 2016. Hard copy.

APRIL - JUNE 2016

! Unilateral Administrative Order Monthly Report of Activities - **Butte-Silver Bow**

March	2016 (hard) (Downloaded from EPA website)
April	2016 (electronic)
May	2016 (electronic)

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

March	2016 (hard) (Downloaded from EPA website)
April	2016 (electronic)
May	2016 (electronic)

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

March	2016 (hard)
April	2016 (hard)
May	2016 (hard)

! Final Grove Creek and Silver Bow Creek Floodplain Mapping Near the Montana Pole Treatment Plant Butte, Montana. Prepared for the Montana Department of Environmental Quality by Tetra Tech. January 2016. DVD only.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Data Summary Report. Interim Ground Water Monitoring 2015. Prepared for Atlantic Richfield Company by TREC. March 31, 2016. Hard copy.

! Montana Pole and Treating Plant Site. Newsletter. Mt Dept of Environmental Quality. April 2016. Hard copy.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Data Summary Report. Butte Hill Diagnostic Data January 2015-December 2015. Atlantic Richfield Company. April 8, 2016. Hard copy and DVD w/ Appendices.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Data Summary Report. Normal Flow and Wet Weather January 2015-December 2015. Atlantic Richfield Company. April 8, 2016. Hard copy and DVD w/ Appendices.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Final Metro Storm Drain (MSD) Pump Station Upgrades Construction Completion Report (CCS). Atlantic Richfield Company. April 12, 2016. Hard copy and DVD.

! The Berkeley Pit – An Ecological Time Bomb. 2016. Fritz Daily. Hard Copy.

! Silver Bow Creek Headwaters Coalition LLC Lawsuit against the State of Montana. 2016 Fritz Daily. Hard Copy. 2016

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Final. Missoula Gulch Catch Basins (CB-1, CB-8, and CB-9) Operation and Maintenance Plan. Atlantic Richfield Company. April 13, 2016. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Final Revised 2010 Metro Storm Drain (MSD) Sub-Drain Phase I, II, III Isolation Test Technical Memorandum. Atlantic Richfield Company. April 26, 2016. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Final 2015/2016 BPSOU Ambient Particulate Monitoring Plan. Atlantic Richfield Company prepared by TREC. December 2015 revised April 26, 2016. Hard copy.

! Solvay USA, former Rhodia phosphorus plant, located 7 miles west of Butte. Semi-Annual Community Update. May 2016. Hard copy.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Draft Final Revised Comprehensive Metro Storm Drain (MSD) Loading Study Technical Memorandum. Atlantic Richfield Company. May 3, 2016. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.
Final Revised Blacktail Creek and Silver Bow Creek Radon Tracing and Thermal Imaging Survey Technical Memorandum. Atlantic Richfield Company. May 10, 2016. Hard copy and DVD.

! Upper Clark Fork Remediation and Restoration Advisory Council. Meeting Agenda – May 17, 2016 - Deer Lodge. Natural Resource Damage Program. Mt Dept of Justice. Hard copy.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Draft Quality Management Plan (QMP). Prepared for Atlantic Richfield Company by TREC. May 26, 2016. Hard copy.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Draft Final Butte Treatment Lagoons (BTL) Groundwater Treatment Routine Operations, Maintenance, and Monitoring (OM&M) Plan. Atlantic Richfield Company. May 27, 2016. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Final – Lexington Mine Site Remedial Action Work Plan Final Design Report (RAWP/FDR). Atlantic Richfield Company. May 2016. Hard copy and DVD.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Draft 2016 BPSOU Diagnostic Surface Water Monitoring Plan. Prepared for Atlantic Richfield Company by TREC. May 2016. Hard copy.

! Butte Arts Monthly. Imagine Butte Resource Center. Circumference, a representation of the surface conditions at the Northside Tailings site. Article displays and presentations about the Butte area Superfund cleanup. June 2016. Hard copy.

! 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 2016. Atlantic Richfield Company. June 9, 2016. Hard copy.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Long Term Groundwater Monitoring Network Technical Memorandum. Atlantic Richfield Company. June 20, 2016. Hard copy.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit.

Draft Final Butte Reduction Works (BRW) Capture Effectiveness Monitoring Technical Memorandum. Atlantic Richfield Company. June 21, 2016. Hard copy.

July - September 2016

DOCUMENTS RECEIVED THIS PERIOD:

! Unilateral Administrative Order Monthly Report of Activities - **Butte-Silver Bow**

June	2016 (hard) (Downloaded from EPA website)
July	2016 (electronic)
August	2016 (electronic)

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

June	2016 (hard) (Downloaded from EPA website)
July	2016 (electronic)
August	2016 (electronic)

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

June	2016 (hard)
July	2016 (hard)
August	2016 (hard)

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Draft Technical Memorandum Long-term Groundwater Monitoring Network. Atlantic Richfield Company by TREC. June 21, 2016. Hard copy.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Final Long-term Groundwater Monitoring Plan (GWMP). Atlantic Richfield Company. July 11, 2016. Hard copy of letter only.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Draft Data Management Plan. Atlantic Richfield Company by TREC. July 12, 2016. Hard copy.

! Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Draft Technical Memorandum Alluvial Groundwater Technical Impracticability Zone Boundary Adjustment. Atlantic Richfield Company by TREC. July 11, 2016. Hard copy.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Draft Final Bonanza Sampling Work Plan. Atlantic Richfield Company. August 16, 2016. Hard copy and DVD.

- Butte Mine Flooding Operable Unit. Water-Level Monitoring and Water Quality Sampling, 2015 Consent Decree Update, Butte, Montana 1982-2015.Prepared for the Environmental Protection Agency and Montana Department of Environmental Quality by The Montana Bureau of Mines and Geology. April 2016. Letter dated September 20, 2016. Hard copy and DVD

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Web Based Data Access. Butte Surface Water and Ground Water data at https://etl.treccorp.com. Username "Guest" Password "bpsou" Atlantic Richfield Company. August 15, 2016. Hard copy letter only.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Draft Final. Quarterly Operations and Maintenance Report Butte Treatment Lagoon System – Second Quarter 2016. Atlantic Richfield Company. September 9, 2016. Hard copy.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Response letter from the Environmental Protection Agency to CTEC's August 18, 2016 letter. September 13, 2016. Hard copy letter only.

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. Final Fourth-Five-Year Review Report. Environmental Protection Agency EPA ID# MTD980502777. Report Dated January 2016. Signature by Martin Hestmark, Assistance Regional Administrator, EPA, August 30, 2016. Hard copy with electronic version and the EPA website. https://semspub.epa.gov/work/08/1551629.pdf

- Silver Bow Creek/Butte Area NPL Site. Butte Priority Soils Operable Unit. 2008 to 2013 Surface Water Characterization Report. Prepared for the Environmental Protection Agency and Montana Department of Environmental Quality. September 2016. Hard copy with electronic version and the EPA website. https://semspub.epa.gov/work/08/1551616.pdf

MEDIA

Mt Standard Articles

Last chance to comment on EPA's five-year review is Tuesday

Top of Form

Bottom of Form

June 30, 2015 12:00 am • Susan Dunlap, Mt Standard

Clark Fork River cleanup brings new life to headwaters

Guest View: Public deserves full participation in five-year Superfund cleanup review

Top of Form

Bottom of Form

July 13, 2015 4:00 pm

Vincent, Sesso back Parrot tailings' removal

Top of Form

Bottom of Form

July 16, 2015 6:30 pm • Mike Smith, Mt Standard

Parrot tailings: EPA resists calls to remove mine waste in center of Butte

July 18, 2015 5:45 pm • SUSAN DUNLAP for the Missoulian

Special Report: Timeout Tuesday: Really old photos from the Parrot Mine

July 28, 2015 10:00 am

2015: Clean of lower creek completed

DEQ's cleanup of lower Silver Bow Creek completed.

July 19, 2015 12:00 am • Susan Dunlap, Montana Standard

Deep in the heart of Butte: A special report

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July 19, 2015 9:30 pm • Susan Dunlap, Mt Standard

Question of the week: Do you think the state, ARCO, EPA and Butte-Silver Bow should agree to remove the Parrot Tailings as part of a negotiated Superfund consent decree?

Vote at www.mtstandard.com.

poll results: 519 voted yes; 98 voted no.

Standard opinion: Clean up the Parrot, and open up Superfund talks

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July 26, 2015 2:00 pm

Tech student creating new technology to put unmanned boat on the Berkeley Pit Top of

FormBottom of Form

July 28, 2015 9:30 pm • Susan Dunlap, Mt Standard

Eight families slated to get new wood stoves Top of Form

Bottom of Form

July 30, 2015 8:00 pm • Susan Dunlap Mt Standard

Gov. Bullock celebrates the cleanup of Silver Bow Creek Top of Form

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August 05, 2015 9:45 pm • **Susan Dunlap, Mt Standard**

Guest View: Parrot Tailings removal: Will EPA listen to citizens, local government?

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August 12, 2015 12:00 am

Guest View: Opinion: The River of Lost Souls: A lesson for EPA in Butte

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August 16, 2015 12:00 am

Weighing in: County taking unified stand on contaminated tailings Top of Form

Bottom of Form

August 16, 2015 8:15 am • Mike Smith, Mt Standard

Colorado spill a blip in legacy of leaking abandoned mines Top of Form

Bottom of Form

August 16, 2015 12:00 pm • MATTHEW BROWN, MICHAEL BIESECKER and P. SOLOMON BANDA Associated Press

FAQ: Does Butte have higher cancer rate?Top of Form

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Karen Sullivan is Butte-Silver Bow Health Officer and Director of the Health Department.
August 17, 2015 8:30 pm

Local coalition prevails over state: Call it "Silver Bow Creek," not "Metro Storm Drain"

Top of Form

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August 23, 2015 12:00 am • Susan Dunlap susan.dunlap@mtstandard.com

Guest View: Butte stormwater: Why won't EPA follow its own advice?Top of Form

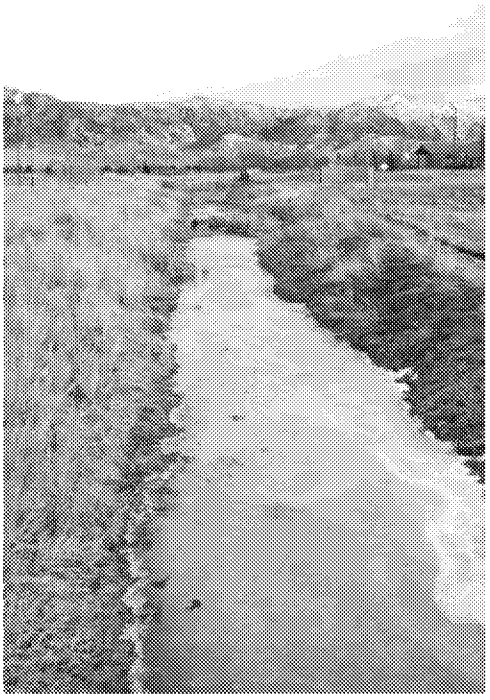
Bottom of Form

August 30, 2015 12:15 am • By David Williams and Joe Griffin

The Montana Standard

Sesso provides report from the consent-decree negotiations

DECEMBER 13, 2015 12:00 AM • BY JON SESSO



The Silver Bow Creek remediation and restoration projects in the heart of town have sparked a renewed public conversation about the environmental cleanup in Butte. Through news articles, editorials/letters, town gatherings and emails, interested citizens are stepping up to express ideas, suggestions, and constructive criticism about the projects.

As Butte-Silver Bow's Superfund Coordinator and on behalf of many others, I'd like to express appreciation for the input. Believe me, we are listening. Your input has value and does indeed influence the process.

I'd like to address an aspect of the Superfund process that has been a source of concern we have heard from many fellow residents: Those confidential negotiations on the Butte Consent Decree which are kept private pursuant to a federal court order. I'd like to provide you with information that can be shared with the public, starting with this report, to give all stakeholders a better sense of the key issues that need to be resolved. Nothing in this article should be read to reflect the view of one party over another.

Some background into the CD talks might be helpful. A Consent Decree is a legal document that formalizes a settlement agreement reached among the participants, which in this case are the United States including EPA, the State of Montana, and the Potentially Responsible Parties –

The MONTANA STANDARD

Local government mute at consent decree table

DECEMBER 17, 2015 12:15 AM

When Hamlet responds to Polonius's question as to what he is reading by saying only words, words, words, Hamlet could have been describing reading Jon Sesso's lengthy piece on the current Superfund consent decree negotiations. Sesso's comments fail to respond to public concerns. Public objection to the consent decree centers on the arbitrary imperviousness of the process to public influence before a decision is made. Only public input prior to a decision can have any efficacy. Mr. Sesso fails to grasp that point. The public participation of which Mr. Sesso glowingly speaks is after the fact, after decisions have been made, when the public has little chance of impacting the decision. Sesso's piece adds nothing to the discussion other than a reiteration of the already known and misleadingly substitutes volume for substance.

Why isn't local government leading the charge for greater openness and public accountability? Why isn't local government demanding the public be a participant before a decision is reached? Why is local government defending this flawed consent decree process? Part of the reason is the Settlement Agreement between Butte and ARCO that Mr. Sesso promoted. The Agreement sorely hinders local government. Local government seems to be always missing the boat on Superfund. Why isn't local government challenging the EPA's intransigence, arrogance and isolation?

At the consent decree table today we have a local government that is mute, MDEQ that is ignored by EPA, and EPA which refuses to reconsider its failed remedies for Butte. Based on all available evidence, what the consent decree will do is set in stone the existing failed remedy

The MONTANA STANDARD

Grab the controller: Push to open consent decree talks

DECEMBER 20, 2015 12:15 AM

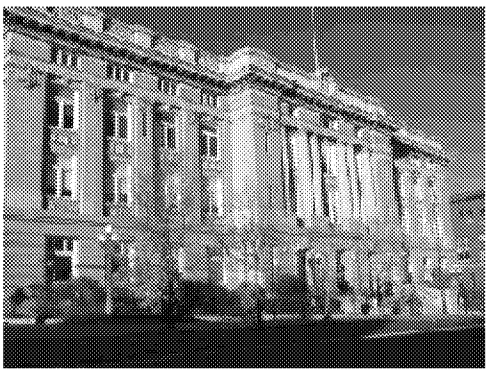
All I want for Christmas are consent decree negotiations open to the public, and comprehensive Superfund remedies. This time of year reminds me of the time when I gave my two young boys the video game SimCity, a game of a simulated city where you would pick various components and aspects for the development of your dream city. You had to be careful in selecting your land use, facilities and infrastructure all while taking care not to introduce inherent problems. These decisions needed to be the foremost priority, prior to the placement of various niceties. My obsession with the game resulted in voiced complaints of DAD! from the boy's wishing to play their game as I obsessively clicked commands.

The parallels of this game to Superfund planning and expedited cleanup (Ha-Ha - Ho-Ho) are evident. The game accelerated time so you watched your early ill-advised decisions come back to bite you in your proverbial rear end. Natural disasters, environmental problems and even a giant lizard would show up from the east. The Godzilla monster wreaking havoc seems possible now in Butte considering there is life in the Berkeley Pit.

In our very real city we are allowing corporations and agencies to push all the buttons without us holding the controller. The closed door negotiations are only benefiting the big organization that have the benefit of a larger-than-life presence as they trample the little citizen under their large lizard feet. So forget the vegetable soup of Superfund acronyms, the diversion tactics and the broken promises of listened to public participation. The time is now to grab the controller, contact every politician (local, state and federal) and demand that your voice be heard

The MONTANA STANDARD

County expenditures on festivals irk some commissioners



DECEMBER 23, 2015 11:00 PM • SUSAN DUNLAP
SUSAN.DUNLAP@MTSTANDARD.COM

Butte-Silver Bow commissioners expressed concern over the amount of public money spent on Evel Knievel Days last summer after hearing a presentation Wednesday night from Parks and Recreation director J.P. Gallagher.

Through in-kind support, the county provided Evel Knievel Days with $96,117 worth of aid. That is nearly twice what the county provided the event in 2014. It's also more than three times what the county gave the Montana Folk Festival this year through in-kind support, Gallagher said.

In-kind contributions include everything from summer labor and additional police patrols to equipment, barricades and dirt hauling.

Gallagher said the difference was due to miscommunication between Knievel Days coordinators and the county. The county's two top Parks and Recreation employees responsible for the festivals both left last summer in the middle of the festival season. That loss led to last-minute confusion within the department, Gallagher told the Standard.

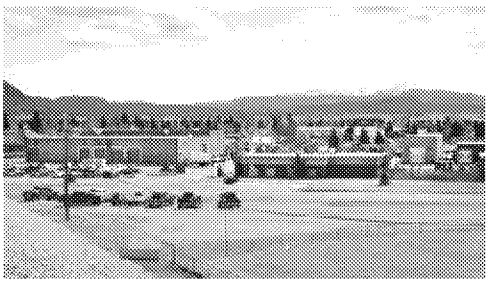
"Going forward, we're going to make sure the county isn't caught off guard," Gallagher said.

Gallagher told the commissioners the miscommunication led the Knievel festival coordinators to believe the county could do more than was possible. Most of the additional expense was for dirt hauled to East Park Street.

"This one line item is high," Gallagher told commissioners. "We'll make

The MONTANA STANDARD

State plans to dump Parrot tailings into the Berkeley Pit



DECEMBER 29, 2015 8:54 PM • DAVID MCCUMBER
DAVID.MCCUMBER@MTSTANDARD.COM

The state's plan to remove the Parrot tailings calls for dumping approximately 270,000 cubic yards of waste rock into the Berkeley Pit, cleanup officials disclosed at a meeting Tuesday night.

Jim Ford, project manager for the Natural Resources Damage Program, said the state initially looked at trucking the waste to a repository north of the pit, but the repository's limited capacity and the more than 2 miles trucks would have to travel on North Main Street were major disadvantages. If the state were limited to using trucks of a size that could travel on city streets, the waste would require 22,000 such trips.

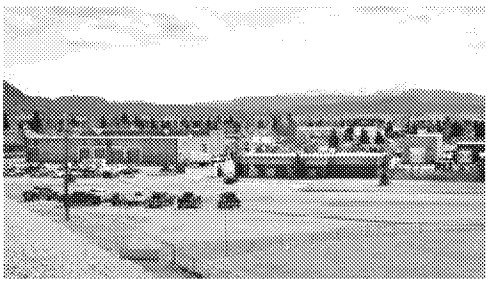
The broad outlines of the state's plan for the Parrot removal were presented at a meeting of the Butte Natural Resource Damage Restoration Council at the Butte Archives Tuesday night. The plan will be officially released for public review on Thursday.

Harley Harris, the program manager and chief legal counsel for the state NRDP, said that in the months since Gov. Steve Bullock committed the state to act unilaterally to remove the Parrot tailings — which the EPA maintains can be left as "waste in place" — the agency's staff has worked "night and day" to develop the plan. "We're very happy with how things are moving," he said. "The governor has said he wants dirt moving next summer and that's an ambitious goal, but I'm happy to say we're on track."

The material dumped into the pit would constitute only 1/700th of the current volume of water in the pit, and would not significantly change either the chemistry or the volume of the pit's contents. The state plan

The MONTANA STANDARD

State plans to dump Parrot tailings into the Berkeley Pit



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The MONTANA STANDARD

30 years on the river: Clark Fork Coalition observes anniversary with new projects

DECEMBER 05, 2015 10:45 PM • ROB CHANEY FOR THE MONTANA STANDARD

MISSOULA — Ronald Reagan was in the White House, men wore frighteningly short shorts, and Missoulians threw everything from crap to concrete in the Clark Fork River when a new organization decided some changes needed to happen.

"The film of the year was 'Back to the Future,'" recalled Peter Nielsen, who once wore some of those shorts and helped found what became the Clark Fork Coalition after watching a new load of riprap get tipped onto the banks beside the Higgins Avenue Bridge. "The Frenchtown paper mill's discharge permit really galvanized everyone. They were dumping 20 million gallons of wastewater into the river every day. Sometimes it seems it really is 'Back to the Future' — we're still fighting that doggone permit today. It just won't go away."

But since 1985, the list of things that have gone away — or come back — at the urging of the Clark Fork Coalition is balanced only by the things it still plans to do.

Milltown Dam and its reservoir of century-old arsenic and lead tailings have been replaced by a restored river confluence and extensive state park complex. Riprap and raw sewage no longer routinely wind up in the river. But more water does, thanks to agreements with irrigators and landowners along the Blackfoot, Bitterroot and Clark Fork to preserve more in-stream flow.

While the Clark Fork Coalition and Milltown Dam have seemed synonymous for the past two decades, the organization has always taken a wider perspective, according to current executive director Karen

The Montana Standard

ARCO sues residents of Opportunity, Crackerville in fight over cleanup

DECEMBER 28, 2015 10:15 PM • DAVID MCCUMBER
DAVID.MCCUMBER@MTSTANDARD.COM

The Atlantic Richfield Co. has counter-sued 97 residents of the Opportunity and Crackerville areas, claiming the residents' long legal fight for cleanup of smelter waste contamination on their land is "improper" and will "interfere with the environmental remedies" specified by the Environmental Protection Agency.

The residents sued ARCO in 2008 claiming negligence, public nuisance, trespass, liability for an abnormally dangerous activity, constructive fraud, unjust enrichment, and wrongful occupation of real property. They sought damages for the cost of restoring their properties to their original uncontaminated state.

In 2013, ARCO sought summary judgment on the claims, arguing that they were barred by the statute of limitations. Silver Bow County District Court Judge Brad Newman agreed, tossing out all the claims on that basis.

But in September of 2015, the Montana Supreme Court reinstated many of the plaintiffs' claims and returned the case to Newman's court for trial.

That decision seems to have spurred ARCO to try to move at least part of the fight to federal court with the new suit, which seeks to have the residents' plan for restoring their properties declared impermissible under Superfund law.

"EPA has supervised the cleanup ... for over thirty years," ARCO said in the lawsuit. "During this period, EPA has carefully selected appropriate

The MONTANA STANDARD

EPA's social-media strategy broke the law, federal report says

DECEMBER 17, 2015 10:45 PM • SUSAN DUNLAP SUSAN.DUNLAP@MTSTANDARD.COM

The Environmental Protection Agency is under fire again over the Clean Water Act rule — this time for using what a federal watchdog called "propaganda" to push the controversial rule.

In a report released this week, the U.S. Government Accountability Office said the EPA violated federal law when it sent out messages through social media regarding the Clean Water Act rule. The rule, which went into effect in August in most states, is controversial.

The congressional watchdog's 26-page report, published Monday, said the EPA's use of an online social media platform called Thunderclap "constitutes covert propaganda" and violates a prohibition on publicity or propaganda by a federal agency.

The Government Accountability Office, a nonpartisan group that works for Congress, stated in its report that the EPA reached 1.8 million users through the innovative platform Thunderclap. The EPA said it sent out the message through Thunderclap to clarify issues surrounding the rule and correct misinformation.

But according to the report, the EPA failed to disclose it was the source of the information in the Thunderclap message.

In an emailed statement to the Standard, the EPA Washington D.C. office said the agency disagrees with the report. The statement said EPA uses social media "just like all other organizations to stay connected and inform people." The agency said its social media activity directed the recipient to a general webpage about the Clean Water Act rule.

But the congressional watchdog said the EPA presented a message designed to be shared by others that supports EPA's efforts, refers to the EPA in the third person, and concealed the fact that EPA crafted the message.

The Montana Standard

County spends ARCO money without oversight board

NOVEMBER 15, 2014 3:00 AM • BY MIKE SMITH
MIKE.SMITH@MTSTANDARD.COM

Butte-Silver Bow has spent nearly $400,000 in settlement money from the Atlantic Richfield Co. without having a separate governing board to oversee such expenditures as called for in a 2012 legal pact.

Another $150,000 from the nearly $15 million "Redevelopment Trust Account" is earmarked for specific purposes in the new Butte-Silver Bow budget, even though the county is just now creating the governing board.

The settlement agreement signed in November 2012, which is tied to past mine pollution, says a governing authority was to be established "promptly" after ARCO deposited money into the trust account. That occurred in March 2013 – about 17 months ago.

County officials say the expenditures were allowable because they clearly fit within six designated uses for the trust funds, including redevelopment of mine-waste areas, health initiatives and festivals.

Officials say the legal pact and fund were designed to give Butte-Silver Bow a financial means for redeveloping areas polluted by mine waste and enhancing and diversifying its economy in a post-mine heyday era.

About half the money spent so far – $200,000 –- has gone to the Montana Folk Festival, Evel Knievel Days and An Ri Ra Irish Festival. Other money has been used to excavate "dirty dirt," buy a miniature bulldozer and pay for a study on Butte's air quality, among other things.

The MONTANA STANDARD

Knowing his song: Butte's Joe Griffin takes on the EPA

NOVEMBER 15, 2015 12:00 AM

Joe Griffin, Butte hydrogeologist recently retired from the Montana Department of Environmental Quality, spent a quarter of a century working on the Butte and Anaconda Superfund sites. He was the longtime project officer for Butte Priority Soils, the part of the Superfund that comprises a significant part of Butte Hill – including toxic mine waste and groundwater long contaminated by those wastes.

Now a private citizen, Griffin on Friday exercised his private-citizen rights by sending a letter to EPA Administrator Gina McCarthy decrying the federal agency's astonishing mismanagement of the Butte Superfund site.

This was not just any letter. It was an absolute corker – a cogent, dispassionate, ruthlessly organized and unerringly accurate eight-page indictment of the EPA's work in Butte.

With characteristic puckishness, Griffin started with a Bob Dylan quote: "I'll know my song well before I start singin'."

Joe Griffin knows his song, and he has now courageously decided to sing it as loudly as he can.

He makes points that we have been making consistently on this page in recent months – and more:

- The "waste in place" remedy devised by the EPA is jeopardizing the long-term viability of the recently cleaned-up lower Silver Bow Creek;
- That remedy will pass on to Butte-Silver Bow a good portion of long-term liability for mining impacts;

The Montana Standard

Bullock noncommittal on opening Superfund talks

NOVEMBER 17, 2015 6:15 PM • MIKE SMITH
MIKE.SMITH@MTSTANDARD.COM

Gov. Steve Bullock suggested Tuesday that opening Butte Superfund negotiations to the public would take court action that could further delay a final agreement — but added that he will be discussing the possibility further.

"There is certainly frustrations with the speed it has gone and that the court has ordered it (talks) to be private," Bullock told reporters in Butte on Tuesday.

"But by the same token, I just think we have to balance that with won't having to go back to court," he said. "I don't want to continue to delay it by any means. But I'll certainly have discussions back in my office about the question the gentleman posed."

The question was raised by Jim McDonald, one of many who listened to Bullock speak at a luncheon of the Butte-Silver Bow Democrats Burros Club at the Butte Country Club. He said many in Butte are frustrated that negotiations on a final "consent decree" on remedies for mine pollution on the Butte Hill are going on with no public input or oversight.

They are being conducted in secret because of a federal court confidentiality order — in effect since 2002 — and are intended to produce an agreement that sets in stone what must be done by each party to help clean up Butte mining pollution. The negotiations involve the EPA, the state government, Butte-Silver Bow and the Atlantic Richfield Co.

Bullock said last month the ongoing negotiations should not preclude removal of the Parrot mine tailings from central Butte and the state plans

The Montana Standard

EPA needs a history lesson, and administrator with courage

NOVEMBER 29, 2015 12:30 AM

On September 7, 2001 – four days before the cataclysm that was 9/11 – EPA Administrator Christine Todd Whitman was a long way from her Washington office.

In fact she was in Libby, Montana, where she stood in front of a packed town hall and did two things.

She apologized for EPA's earlier mismanagement of the asbestos problem in Libby. And then she swore the agency would make things right.

She said she was there to ensure the cleanup was "done right and done thoroughly – and we're not going to leave until it is."

The apology wasn't a small thing. Two decades before, at a time when something called the Grace Commission – presided over by J. Peter Grace, a chemical-products billionaire – was helping the new Reagan Administration "get government off the backs of business," EPA buried a report detailing the toxicity of the dust in Libby that came from Grace's own vermiculite mine. The reality of the situation in Libby would not surface again until late 1999, when the Seattle Post-Intelligencer revealed that hundreds had already died from asbestos-related disease in the little northwest Montana town – and that thousands more were at risk.

The promise to make things right was even more significant than the apology. An emergency response team had arrived in Libby three days after the P-I's story appeared. And the agency, due primarily to courageous leadership at the on-scene coordinator level, is still there 15 years later, only recently negotiating an exit strategy.

The MONTANA STANDARD

Creek cleanup: Transparency integral throughout negotiations

NOVEMBER 30, 2015 12:00 AM

As members of the Silver Bow Creek Headwaters Coalition we recently received a favorable decision from Judge Brad Newman on the name of Silver Bow Creek flowing through Butte.

Most importantly he declared Silver Bow Creek to be a watercourse (a creek), and not a sewer. With all the recent discussion on the issue, we would like to offer our thoughts on the issue and where we as a community and a state go from here.

Butte residents deserve to have a quality cleaned and restored meandering creek flowing through the middle of the town. The creek should be constructed to where the children of Butte can play and fish and the adults of the community can enjoy the amenities of the cleanup and restoration as well. It should be cleaned and restored to the same quality standard as the creek from Butte to the Warm Springs Ponds. Nothing less should ever be accepted!

As proven in our recent successful lawsuit, if you have good input and good information, you make good decisions; if you have poor information and poor input, you make poor decisions. Open the "closed-door" consent decree negotiations and make the current plans for removing the Parrot Tailings to the residents of Butte a transparent process. After all, who has more to gain or lose in this process than the residents of Butte? Transparency must be an integral part of any plan and public participation is paramount throughout the decision-making process.

Judge Brad Newman wrote in our recent successful Lawsuit against the State of Montana: "This litigation seeks to ensure that the State of Montana and its agencies follow the law."

The MONTANA STANDARD

Perils of the pit: 342 geese dead after fateful landing 20 years ago

NOVEMBER 16, 2015 12:00 AM • SUSAN DUNLAP
SUSAN.DUNLAP@MTSTANDARD.COM

Perhaps a defining moment for the Berkeley Pit came 20 years ago on Nov. 14, 1995, when 342 snow geese were found dead floating on the surface of its toxic water.

Although the pit, which opened in 1955, had been slowly filling with contaminated, acidic water since the mine closed in 1983, the story of those dead birds came to symbolize the environmental degradation that had been wrought due to mining.

Those 342 dead geese caught the attention of the nation.

It most certainly caught the attention of Butte.

Ted Duaime, hydrologist for the Montana Bureau of Mines and Geology, remembers that fateful day. He was one of the first people to discover the dead birds.

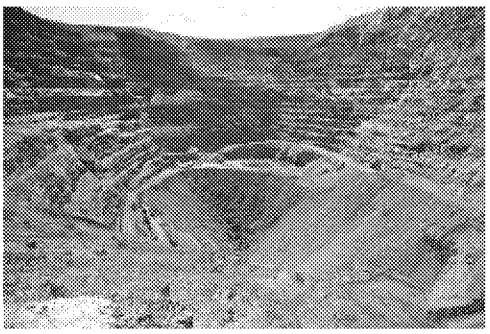
Duaime said he and a few of his staff were collecting pit water in large quantities for MSE Technology Applications, an engineering services company in Butte, in the days leading up to the snow geese's fateful visit. The men pulled up each day in an old Army truck to pump the water into the back of the truck. Duaime said the water was for treatability studies.

Duaime said that in the days before, the weather turned cloudy and overcast. A winter storm had blown in. That storm led the birds to land on the pit's water, presumably to wait out the falling snow.

"It was not uncommon to see waterfowl land in the pit with no apparent problems. These were caught overnight. It wasn't the best decision they

The MONTANA STANDARD

Ray of hope: Closing Golden Sunlight could develop new mine



NOVEMBER 26, 2015 11:00 PM • SUSAN DUNLAP
SUSAN.DUNLAP@MTSTANDARD.COM

As Whitehall braces for the layoffs coming from Golden Sunlight Mine, a ray of hope may be in store.

The mine is putting in a permit for a new gold mine three-quarters of a mile from the existing open pit gold mine, which is northeast of Whitehall.

Dan Banghart, manager for Golden Sunlight, said this week the new mine would be an expansion of the old mine and it would use the same mill to process the ore.

Banghart said the new mine will have a new name: The Bonnie Project. Banghart said it is being named for Bonnie Blair, a speed skater who was the first American woman to win five gold medals at the Olympics when she competed in 1994. Until 2010, she was also the only American to hold six medals at any winter Olympic sport. Apolo Ohno, also a speed skater, surpassed her record in Vancouver, British Columbia, in 2010.

Banghart said the company wanted to name the mine after Blair because she at one time trained in Butte.

Banghart said he doesn't know how many people the new mine — if it is permitted by the Montana Department of Environmental Quality — would employ.

"We're still putting together those numbers," Banghart said.

But it could give hope to the 135 Golden Sunlight employees facing unemployment starting Tuesday.

The MONTANA STANDARD

Gov. Bullock, stand by your commitment to clean up Parrot waste

OCTOBER 05, 2015 12:00 AM

Memo to: Steve Bullock, Helena, MT

cc: Gina McCarthy, EPA Headquarters, Washington, D.C.

re: Nation's largest Superfund site: Bad science, secret negotiations, and enough is enough

Governor Bullock, as you explore whether the state has the resources – and the gumption – to remove the Parrot corridor mine waste and turn the heart of Butte into a center of hope instead of an example of governmental apathy and neglect, there are some things you need to know.

1. "Restore Our Creek" is not now a fringe-y organization with no visible political support. Thursday night, some 600 of Butte's most prominent business leaders got together at the 104th annual Chamber of Commerce dinner – and roared their approval of the recent court decision against the state – your state – forcing the area that bureaucrats had named the "Metro Storm Drain" to be officially known as Silver Bow Creek – which, historically, it was. The Chamber crowd also bought "Restore our Creek" T-shirts, took placards to place in their business windows, donated money to aid the restoration movement, and filled out forms to be sent – ah, to you – urging action. Hardly a bunch of raving eco-hippies, would you say, governor?

2. EPA seems to be between Montana bosses right now. Coincidence? We don't think so. But as long as the feds cling to their "waste in place" mantra, literally selling Butte down the creek on the basis of soundly discredited "science," it's incumbent on the state – your state – to do the right thing for Butte. That means acting unilaterally to clean up the creek. We were glad to see on Friday your spokesman's quote that you are

The MONTANA STANDARD

Governor wants 'to see some dirt moving' at Parrot by next summer

OCTOBER 20, 2015 10:15 PM • DAVID MCCUMBER
DAVID.MCCUMBER@MTSTANDARD.COM

Gov. Steve Bullock wants "to see some dirt moving" by next summer in a cleanup of Butte's Parrot tailings, to be done "separately and independently" by the state.

"We will get this done, and we're not going to wait for the finalization of the consent decree to get it moving," he said in an interview with The Standard this week.

"As we look at Silver Bow Creek and downstream, it's critically important that we get these tailings removed," Bullock said. "That's the reason we're going forward."

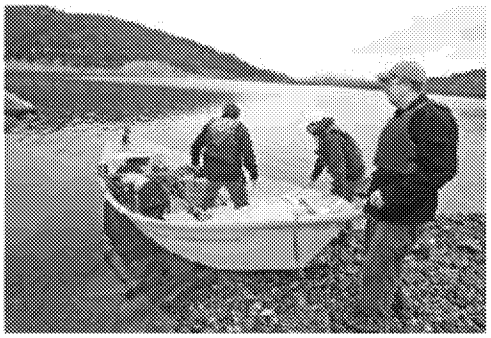
He has asked the state's Natural Resources Damage Program to issue a request for qualifications, a preliminary step toward picking a contractor to perform the removal, and added that "we're working with Butte-Silver Bow in terms of their machine shops that have to be moved."

The consent-decree negotiations, which are being conducted in secret because of a federal court confidentiality order, are intended to produce an agreement that sets in stone what must be done by each party to help clean up Butte mining pollution. The negotiations involve the EPA, the state government, Butte-Silver Bow and ARCO.

For years, the state has contended that mining and smelting waste in the Parrot corridor, an area once known as the Metro Storm Drain but now referred to by law as Silver Bow Creek (which once ran there), must be removed. But the EPA has disagreed, saying that despite a plume of contaminated groundwater, the tailings will not threaten Silver Bow Creek

The Montana Standard

Researchers test 'drone' for Berkeley Pit



OCTOBER 20, 2015 6:30 PM

From left, researchers Gary Icopini, Montana Bureau of Mines and Geology, Montana Tech master's electrical engineering student Abdullah Alangari and Professor Bryce Hill board the retrofitted boat to test the motorized sampling apparatus in the depths of Silver Lake Tuesday morning. The boat will act like a drone once it's launched in the Berkeley Pit water.

The MONTANA STANDARD

Hold EPA accountable with unrelenting, massive public pressure

OCTOBER 22, 2015 12:15 AM • BY JOHN RAY

While recent attention has rightly been focused on the removal of the Parrot Tailings complex in Butte, the EPA's ossified recalcitrance to seriously consider removal, even in the face of overwhelming scientific evidence that warrants such removal, is only one part of Butte's Superfund problem.

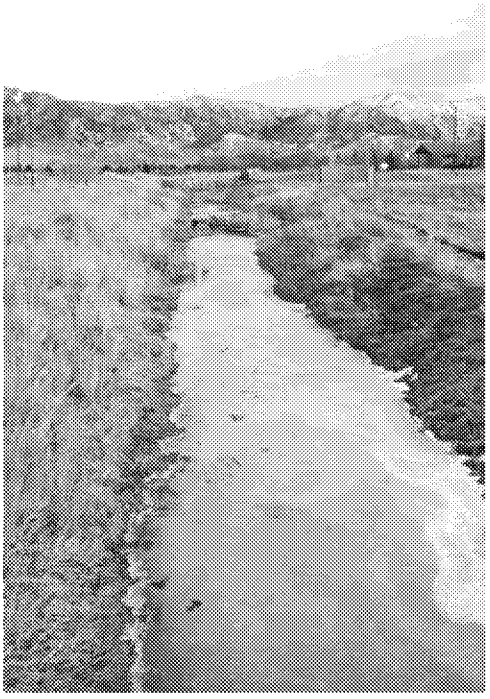
The EPA refuses to enforce storm water runoff controls, the EPA continues to support a toxic waste capping system in Butte that regularly fails, the EPA continues to allow highly toxic dioxin to remain at the Montana Pole Plant, and the EPA continues to rely on an untested and untried remedy for the Berkeley Pit which is fast reaching critical water level. In terms of process, the EPA refuses to "allow" for meaningful public input into Superfund decision making, even though such input is mandated by the EPA's own policy and is a requirement of democratic decision making. Negotiations are held in secret with the public having to beg the EPA for information. Issues related to environmental justice are routinely dismissed by EPA although EPA has a mandate to promote environmental justice.

EPA's intractability in the face of overwhelming public concern is too but a symptom of a larger problem in a democracy such as ours—how do citizens hold a non-elected bureaucracy accountable to the public? Technically, this is called the principal/agent problem. For example, I

The Montana Standard

Judge: State must pay $170,000 in legal fees over Silver Bow Creek lawsuit

OCTOBER 23, 2015 10:30 PM • MIKE SMITH
MIKE.SMITH@MTSTANDARD.COM



The state of Montana must pay more than $170,000 in legal fees and expenses to the attorney who represented three Butte residents in their successful lawsuit over the name of Silver Bow Creek.

Butte District Judge Brad Newman also said in an order this week it is unlawful for the state "and its agencies or its representatives to publish or otherwise promote any portion of Silver Bow Creek as being named anything other than 'Silver Bow Creek.'"

The order follows a ruling Newman issued in late August saying the polluted channel running from Texas Avenue to the confluence of Blacktail Creek in Butte is not the "Metro Storm Drain" as the state maintained.

Former Butte lawmaker Fritz Daily, radio station owner and broadcaster Ron Davis, and Sister Mary Jo McDonald filed a lawsuit four years ago saying the channel's only and proper name is Silver Bow Creek. If it is legally known as that, they believe it is the state's responsibility to make it a free-flowing creek again.

Newman noted numerous arguments made by the state in his August ruling but sided with none of them. He also awarded attorney fees and expenses of $170,739, something agreed to by lawyers for the state.

The MONTANA STANDARD

Berkeley Pit water may not become Silver Bow Creek for another 25 years

OCTOBER 24, 2015 10:15 PM • SUSAN DUNLAP
SUSAN.DUNLAP@MTSTANDARD.COM

Silver Bow Creek may be spared the stigma of receiving treated Berkeley Pit water for at least another 25 years.

That's because the dark pool of dirty water slowly growing in the Berkeley Pit has acquired a heretofore unknown future fate.

Montana Resources manager of environmental affairs Mark Thompson said the mine intends to use the treated Berkeley Pit water and incorporate it into their mining operation when the lime treatment process begins.

That treatment process is now slated to begin in 2023, according to Pit Watch, the group that monitors the pit.

When 2023 comes around, the pit's water will be treated with lime in settling pools at the Horseshoe Bend Water Treatment plant, which sits near the pit's banks in the former McQueen neighborhood. The expectation has long been that once the pit's water starts getting pumped to the treatment plant, the discharge water from that plant would be sent to flow into Silver Bow Creek.

But with MR's expectation to absorb the approximate 2.5 million gallons of treated pit water a day into their mill process, that puts the plan for the pit's discharge water to go into Silver Bow Creek in a far distant future. By conservative estimates, MR anticipates continuing to mine the Continental Pit until 2040, according to Thompson.

Putting off sending the treated discharge that will come from the most visibly contaminated water in the state into Silver Bow Creek could be

The Montana Standard

Can tainted drain become a creek? Activists say yes

OCTOBER 24, 2015 10:15 PM • SUSAN DUNLAP
SUSAN.DUNLAP@MTSTANDARD.COM

As the rising cry of "Restore Our Creek" gathers momentum in Butte, making believers out of a growing number of citizens, one question begs to be answered: Can upper Silver Bow Creek be restored into a meandering, free-flowing stream? Can it become a clean watercourse running through the middle of the most damaged mining town in Montana?

It's a question that comes with no easy answers.

But to imagine Silver Bow Creek — a waterway once so severely polluted long-time residents say it used to run red — being turned into a showplace of what Superfund cleanup might look like in America is a dream many could get behind. Increasingly, many are.

As support grows, the story of the creek's future takes on the overtones of a classic American movie plot: A runner falls and is injured. With the crowd cheering, the battered runner gets back up and — against incredible odds — makes it to the finish line.

It's a timeless American story. It's heartwarming. Will it become, for Butte, heartbreaking?

Despite the growing force of the movement to restore the creek, how the one-and-a-half mile stretch from Texas Avenue to South Montana Street can be turned into a peaceful, pristine creek is a question no one has clear answers to. What is hydrologically possible? What would be the price tag on such work?

Before the dream can be turned into something concrete, there's a lot to consider.

The current channel, built in a straight line in the 1930s by the county with

The Montana Standard

Governor's commitment to Butte cleanup is right thing to do

OCTOBER 25, 2015 12:00 AM

Gov. Steve Bullock understands that the perfect is the enemy of the good. And that some progress is better than no progress.

The governor's commitment last week to The Standard that the state will remove the Parrot tailings is impossible to construe as anything but a positive step.

But it is by no means the last step necessary to rid a key watercourse in the heart of Butte of mining pollution.

The governor's move is a moral victory for the citizens of Butte who have fought long and hard for fair treatment by the staggering alphabet soup of agencies, sub-agencies and jurisdictions within the Superfund. More, it represents a welcome, long-awaited breakthrough from the previous bureaucratic inertia and entropy.

But it is a victory that by itself will not make the waters of Silver Bow Creek run clean.

West of Harrison Avenue lie three large tailings deposits – the Northside Tailings, the Diggings East, and the Blacktail Berm. In order for the upper reaches of Silver Bow Creek to be free of contaminated soils, all of those must be removed. The governor's plan strictly deals with the tailings east of Harrison Avenue, at the current site of the county shops and baseball fields behind the Civic Center – where the Parrot Smelter was located.

But action is better than stasis and a partial fix is far better than no fix. In fact, much of the cleanup protocol that is in the process of being developed for the Parrot tailings – the methodology, the haul route, the eventual repository for the waste material – will not have to be

The MONTANA STANDARD

Applicants asking $488,000 for small restoration projects in Butte

NOVEMBER 04, 2015 6:00 PM • SUSAN DUNLAP
SUSAN.DUNLAP@MTSTANDARD.COM

Ten applicants are asking for $488,000 from the state advisory council that oversees grant money for small restoration projects for Butte.

The Butte Natural Resource Damage Council has approximately $1 million to spend on small projects that restore or replace the lost resource of Silver Bow Creek due to more than 100 years of mining activity.

The council will make its recommendations for the fall applicants by mid-December. Gov. Steve Bullock has the final say on the grant applications. The money will be dispersed in the winter of 2016.

Here are the applicants and their projects:

- Montana State University professor Bradford Watson — $100,000 to test soil at the Bonanza Dump (near West Elementary School) and then redesign the site to create an officially sanctioned USA Bicycle Motocross racing course, community park and an outdoor trail system.
- Montana Tech professor Paul Conrad — $80,000 to plant trees on the Butte Hill and Tech campus to prevent soil erosion and tailings leaching into the streams
- Tech professor Alysia Cox — $77,000 to create an article and a children's book to better educate children on the complex nature of Butte's water resources
- Tech professor Courtney Young — $61,000 to develop a process to recover zinc, copper, pig iron and glass from slag located on the Butte Hill.
- Tech professor Grant Mitman — $49,000 to identify hardy moss

The MONTANA STANDARD

County seeks grant to help with abandoned mine upgrades

OCTOBER 14, 2015 4:45 PM • SUSAN DUNLAP SUSAN.DUNLAP@MTSTANDARD.COM

It takes a village to clean up an abandoned mine site southwest of Butte.

Beal Mountain Mine, at the headwaters of German Gulch, south of Fairmont Hot Springs, requires upgrades and improvements. Butte-Silver Bow County stepped in to help the Forest Service and Department of Environmental Quality by applying for a $50,000 grant to design and analyze upgrades for the site. The site has a water treatment plant that is cleaning the water coming from the former gold mine.

The 300-acre site was owned by Pegasus Gold from 1988 to 1998. Pegasus Gold went bankrupt in 1998. The Beaverhead-Deerlodge National Forest is overseeing the cleanup, which began in 2003.

The open pit mine used heap leaching, which uses a cyanide-based solution to dissolve gold out of the ore. The technique is now banned in Montana.

The water treatment plant filters the water coming from the leach pad to remove the cyanide. The filtering process produces water that meets water quality standards and that clean water is piped into the gulch. The return water, which does not meet standards, is sent back into the leach pad and is refiltered through the system, said Autumn Coleman, abandoned mines program manager for DEQ.

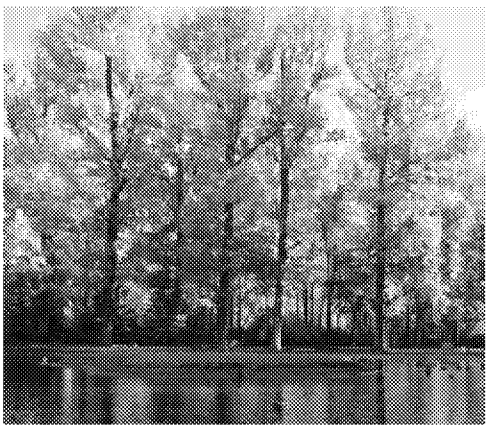
Mary Beth Marks, the Forest Service's onsite coordinator for the site, said the current treatment system is producing too much calcium sulfate, which is gypsum. The gypsum clogs the membranes of the treatment plant.

"It's a maintenance headache," Coleman said.

The other aspect of the grant is to enable DEQ to hire a contractor to evaluate the existing structure at the treatment plant. Parts of the

The MONTANA STANDARD

Duck pond and connecting trail at Anaconda's Washoe Park complete



OCTOBER 05, 2015 7:30 PM • SUSAN DUNLAP
SUSAN.DUNLAP@MTSTANDARD.COM

ANACONDA -- The blacktop is so new it still looks wet.

That didn't stop Leroy Fitzgerald from taking a walk Monday morning on the connecting trail that runs beside Warm Springs Creek to Washoe Park in Anaconda.

But the best part of the newly completed work at Washoe Park has to be the duck pond. This time of year with the leaves in the cottonwoods — some of which are more than 100 years old — turning yellow, the ducks quacking, the geese honking, and the early morning light twinkling through the treetops, hitting the clear water in the pond just right, the newly improved pond is attracting visitors.

Elmer Chiddix, who said he's lived in Anaconda since 1947, was out walking his dog, Mandy, a long-haired mini dachshund, Monday morning along the edge of the duck pond. Chiddix said he comes out to walk in the park every day, and he's happy to see Washoe Park improved.

"Love it," he said.

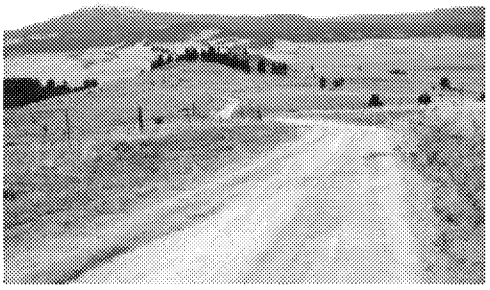
The improved trail connects Washoe Park to the North Cable Road pump house, where a bridge is expected by this time next year to cross the creek and provide access to the Hefner's Dam Nature Area. Currently, there is no access to the nature area.

"This (will) open up a natural area and really kind of adds a natural environment to the park complex," project manager Mark Sweeney said.

Fitzgerald said he saw a deer while he ambled along the trail.

The MONTANA STANDARD

Forest Service approves routes for Highland Mine ore hauling



OCTOBER 09, 2015 10:15 PM • SUSAN DUNLAP
SUSAN.DUNLAP@MTSTANDARD.COM

Hauling ore from the Highland Mine just got one step closer to reality.

Beaverhead-Deerlodge National Forest announced its decision Friday to allow Butte Highland Joint Venture to use either the Highland Road west or Highland Road north/Roosevelt Drive to haul unprocessed ore to a transfer station. The decision came more than two months after it was expected.

Butte district ranger Dave Sabo said the Forest Service decided during its review of the draft version, held over the summer, that Sabo needed to do an analysis on moving the Continental Divide trail before the final decision could be reached. U.S. Fish and Wildlife Service analyzed the area to ensure that habitat for lynx and grizzly bear would not be adversely affected by moving the trail. The State Historical Preservation Society also analyzed the area for sensitive historical sites and gave its approval, Sabo said.

The decision provides alternatives to BHJV. It will be up to the mine to decide which route it wants to use or if it wants to take advantage of both roads.

How the underground gold mine in the Highland Mountains, a small range of mountains south of Butte, would get its ore to a processing plant has been a question since 2013. While the mine is on private property, both roads leading to it are forest service roads. Roosevelt Drive is a county-owned road along the paved portion of it. Once it turns to gravel, it turns into a forest road.

The Montana Standard

Montana EPA job open after director takes new post

OCTOBER 02, 2015 3:43 PM • SUSAN DUNLAP SUSAN.DUNLAP@MTSTANDARD.COM

Changes have recently been made in the Environmental Protection Agency's top position in Montana.

Julie DalSoglio, the director of Montana's EPA office, accepted a new position within EPA effective August 18.

In her new job, an advisory position, she will focus on community work and international affairs. She will continue to be based out of the Helena office.

DalSoglio became director of Montana's EPA office after serving as its deputy director. She replaced John Wardell as director after his untimely death in 2010.

Richard Mylot, public affairs specialist for EPA's Region 8 office, based in Denver, confirmed the change. He said EPA is looking to replace DalSoglio. No time frame has been set for when a new person will take the position.

In the meantime, Deb Thomas, the EPA Region 8 deputy regional administrator, is serving as the acting director for the Montana office. Thomas is based in Denver.

EPA is divided into regional offices, which then oversee individual state offices. Denver is the regional office that oversees Montana's EPA office and all of Montana's Superfund work.

A call to DalSoglio on Thursday was not returned.

The MONTANA STANDARD

State looking into moving contaminated tailings in Butte

OCTOBER 01, 2015 3:11 PM • SUSAN DUNLAP
SUSAN.DUNLAP@MTSTANDARD.COM

The state is taking steps this week toward possibly removing an underground mining and smelting waste deep in the heart of Butte.

The Natural Resource Damage Program, a state agency, sent a request to a list of contractors asking for design engineering qualifications to remove the Parrot tailings.

Located about 50 feet below Butte-Silver Bow's county shops and the Civic Center ball field, the tailings are mine waste left from smelting copper at that site more than 100 years ago. They have long been at the center of a fight between the state and the Environmental Protection Agency. The state argues that if left in place, the tailings will pollute Silver Bow Creek because groundwater contaminated by the waste is headed toward the creek. EPA says a capture system currently in place, a slotted pipe located about five feet below the surface, is preventing the plume of poisoned water from moving further toward the creek.

A request for qualifications from contractors is a preliminary step. It's a way for the state to see who has done work of a similar nature before and who might be qualified for a future project. Such a request occurs before a request for proposals.

When a construction project is about to begin that involves the public's money, all state, federal and local agencies must send a request for proposals to allow a competitive bid process among private contractors.

Gov. Steve Bullock was not available for comment on Thursday about the NRD's email request sent to contractors or what it might mean for Butte.

The Montana Standard

Two towns, one story, and finding hope: Butte and Ambler, Pennsylvania

OCTOBER 17, 2015 10:30 PM • SUSAN DUNLAP
SUSAN.DUNLAP@MTSTANDARD.COM

The story of a town grieving the loss of its industry and fatigued from years of Superfund cleanup might, surprisingly, inspire Butte.

That's because it's the story of a town called Ambler, Pennsylvania, about 20 miles north of Philadelphia. Ambler has much in common with Butte, even though it's about 2,200 miles away.

Despite the similarities, there's an important difference between the two towns, and that's what University of Philadelphia associate professor Frances Barg talked about recently before about 50 people at the Mining City Center, 400 W. Park St.

Barg said that about five years ago a resident of Ambler contacted the University of Pennsylvania asking for help.

The resident wanted to better understand the risks involved in living in a Superfund site. A former plant in Ambler turned asbestos into various products, including roofing tiles, years ago, then closed for good. But for around 100 years, the plant was a thriving operation, and mill workers lived in housing built all around the factory, Barg said. Piles of asbestos, locally referred to as "the White Mountains," bordered a playground. Barg recounted stories she heard from Ambler residents of children once sledding down those asbestos piles. At that time, no one knew there were health risks.

Asbestos can lead, decades after the exposure, to mesothelioma, a

The MONTANA STANDARD

EPA's five-year environmental review for Butte behind schedule

SEPTEMBER 30, 2015 11:36 AM • SUSAN DUNLAP
SUSAN.DUNLAP@MTSTANDARD.COM

The Environmental Protection Agency's five-year environmental review for Butte, originally due out in September, is behind schedule.

Butte Hill program manager Nikia Greene said it's taken longer than he expected to get the work done and go through the comments. The new expected publication date is set for mid-November.

Greene said a public meeting in Butte to address concerns will be held when the review comes out.

"As the (remedial project manager), if there's new information or input the community has, they can bring that to me; I'm going to evaluate it and look into it. I'm available all the time for those concerns," Greene said.

Critics of the five-year review process say a range of issues, such as the Parrot tailings contaminated area and Silver Bow Creek's water quality standards after storms, need to be addressed. EPA previously told the Standard the five-year review is a chance to look at sites already cleaned up that need improvement.

Rain storms cause contaminated water to run off the Butte Hill into Silver Bow Creek. During those storms, the creek cannot meet water quality standards.

The Parrot tailings, an underground plume of contamination near the Butte Civic Center, has long had people and some agencies concerned. While some want the tailings removed, the EPA has, so far, not supported removal.

The Montana Standard

Standard environmental reporter wins awards

SEPTEMBER 30, 2015 12:45 PM

The Montana Standard's environmental issues reporter Susan Dunlap won three awards this month.

Dunlap received a first-place award from the New Mexico Press Association's 2015 Better Newspaper Contest for her environmental reporting while a reporter at the Silver City Sun-News.

That story was about a contentious diversion and storage project planned for the Gila (pronounced hee-la) River, a tributary of the Colorado River that flows through two southwestern New Mexico counties. The planned construction project has been a flash point issue for years for both New Mexico ranchers, who say a diversion is necessary, and environmentalists, who argue conservation efforts would be both more effective and less costly in drought-stricken New Mexico.

Dunlap worked for the Silver City Sun-News in 2014, when she wrote the story. Silver City, an old mining town, is about 100 miles northwest of El Paso, Texas.

The story that won top prize in the Division II class was titled, "Interstate Stream Commission decides to divert the Gila River."

The association received over 1,500 entries for all categories.

Earlier in September, Dunlap was recognized by the nonprofit Society of Environmental Journalists with a grant of $3,500 for an investigation into western Montana's toxic mining legacy. The grant, provided by the Fund for Environmental Journalism, will help support four proposed stories on Superfund issues in Butte and Anaconda.

Dunlap was also chosen this month to receive an all-expenses paid trip to

The MONTANA STANDARD

Time to influence Butte consent decree is now

DECEMBER 04, 2015 12:30 AM

If angels were to govern men, neither external nor internal controls on government would be necessary. In framing a government which is to be administered by men over men, the great difficulty lies in this: you must first enable the government to control the governed; and in the next place oblige it to control itself. A dependence on the people is, no doubt, the primary control on the government. (Federalist 51, James Madison, 1788)

Secret consent decree decisions are now being made by the EPA that will greatly affect Butte's future without the public's knowledge or participation. These consent decree negotiations will lead to a binding legal agreement that will forever "set in stone" Butte's Superfund cleanup. The courts typically defer to the EPA when it comes to negotiating consent decrees. Courts rarely are substantively involved in consent decree specifics and are concerned only with the process not the outcome. Once approved by the court, changing a consent decree is almost impossible. Butte's citizens barely know that these negotiations are occurring and information about what is taking place has been kept out of the public's hands by EPA. The time to influence this consent decree is NOW, before it goes to court for approval.

Secret negotiations are the enemy of democracy. If government is to be representative of and accountable to the people, the people need to know

The MONTANA STANDARD

Group looks to spend only interest on $14M fund

DECEMBER 09, 2015 8:00 PM • SUSAN DUNLAP
SUSAN.DUNLAP@MTSTANDARD.COM

The public board taxed with oversight of approximately $14 million slated for projects to improve Butte will spend only the annual interest generated by the money.

The $14 million the Superfund Advisory and Redevelopment Trust Authority oversees came from an allocation agreement between Butte-Silver Bow County and Atlantic Richfield Company. ARCO is the primary responsible party in the Butte Superfund cleanup, and the money is part of ARCO's compensation to Butte for damage caused by mining.

The pact and fund were designed to give Butte-Silver Bow a financial means for redeveloping areas polluted by mine waste and diversifying its economy.

The board, whose 11 members were selected by Chief Executive Matt Vincent in February, discussed on Tuesday how future projects presented for funding will be judged.

The group plans to avoid spending down the principal on the $14 million, which is invested in an interest-bearing account. Board president Bill Joyce said the board expects to allocate $250,000 in 2016 on project proposals. That will equal the interest the $14 million is expected to accrue next year.

"What we were thinking, this is our first go-around," Joyce said. "We want to see how it works out."

The group also laid out a timeline for accepting proposals.

The MONTANA STANDARD

A refreshing, important — and insufficient — report

DECEMBER 13, 2015 12:00 AM

On this page you'll find an unusual — even unprecedented — article.

It is a report to the public from the parties negotiating the Butte Priority Soils Consent Decree.

The reason that's unusual is that the negotiations are being held in secret — shielded from the public by a federal-court order of confidentiality which has been in effect for nearly 15 years.

We find that order entirely objectionable and inappropriate to the public interest. Among those who are in effect negotiating a large part of Butte's future are the federal government in the form of the Environmental Protection Agency; the state of Montana, represented by two agencies — the Department of Environmental Quality and the Natural Resource Damage Program, a division of the Department of Justice—; and the county-municipal government Butte-Silver Bow.

We believe that fact — plus the undeniable impact of the decisions being negotiated on the current and future citizens of Butte — means the negotiations should be conducted in public, not in secret.

Nevertheless, this report is constructive, refreshing, and welcome.

Drafted by Jon Sesso, who has more hats than a haberdasher — he's a state senator, Senate Minority Leader, Butte-Silver Bow Planning Director, and the county's Superfund coordinator — the report was vetted by all the participants in the negotiations.

Even that process was not an easy one — getting all parties to agree on anything is an accomplishment — but it also means that the result, written

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