



*Butte-Silver Bow Planning Board*



July 10, 2015

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RE: June 2015 Monthly Report of Activities  
Butte Priority Soils Operable Unit  
Unilateral Administrative Order (UAO) – EPA Docket No. CERCLA-08-2011-0011

Ladies and Gentlemen:

Pursuant to Paragraph 42 of the above referenced Order, Butte-Silver Bow submits the attached Monthly Report for activities performed at the Silver Bow Creek/Butte Area Superfund Site, as part and on behalf of the Group 1 Respondents. This monthly report covers work activities for June 2015.

Please contact me (497-6264) if you have any questions about the information in the report or need additional information about Butte-Silver Bow's work activities. Thank you.

Sincerely,

Julia Crain  
Special Projects Planner  
Butte-Silver Bow Planning Department

Attachment: Monthly Report

CC: Loren Burmeister, AR Project Manager  
BSB Personnel  
E-Mail version sent to List-Serve

# Monthly Report – June 2015

## Butte Priority Soils Operable Unit

### Silver Bow Creek/Butte Area Superfund Site

#### Unilateral Administrative Order (EPA Docket No. CERCLA-08-2011-0011)

As directed by Paragraph No. 42 of the *Unilateral Administrative Order for Partial Remedial Design/Remedial Action Implementation and Certain Operation and Maintenance at the Butte Priority Soils Operable Unit/Butte Site (hereinafter, the Order)*, the City and County of Butte-Silver Bow provides this monthly report on work activities under the Order. The work activities described in this report are consistent with the directives contained in the Order/Remedial Action Work Plan, and cover those efforts performed by Butte-Silver Bow as part of the Group 1 Respondents, during June 2015.

## I. Operations and Maintenance Activities

### A. Source Areas/Butte Reclamation Evaluation System (BRES)

**Routine O&M.** In June of 2015, Source Area maintenance crews continued maintenance of sites throughout the Butte Hill. Crews completed routine O&M on sites including trash pickup and hauling, fence repairs, stormwater infrastructure cleanouts (sediment basins, culverts, inlets, etc.) and removing dead or decaying trees in various locations. In addition, crews completed work remaining from the 2014 field season. Specifically:

- Catch Basin 08 was cleaned 4 times throughout the month of June.
- Buffalo Gulch ditches were cleaned and sediment was removed.
- Rock lined concrete channel that reports to the pit was cleaned as well.
- The Kelley Ditches drop structure was cleaned out.
- North Main and Moulton Road culverts and ditches were cleaned.
- Bull Run Gulch sediment trap and ditch were cleaned out.
- A vehicular barrier at West Gagnon and Jackson/Washington was installed.
- A fence was removed at the Mountain Con
- Street Sand at the Bonanza was removed and hauled to the Repository.
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**BRES Corrective Action Plans (CAPs).** During June 2015, BSB completed all 2013 evals/2014 Field Work with the exception of the Rising Star, which requires a discussion on contending with land utilized as pasture.

**BRES 2015 Field Evaluations.** BSB initiated field evaluations June 24, 2015, after completing field training on June 23<sup>rd</sup>.

**Vegetation and Weed Controls.** BSB Weed Department staff continues to support BSB Reclamation Department's routine weed control, seeding and mowing obligations. Plans are now being finalized for weed control during the 2015 field season, with particular emphasis placed on 2014 BRES evaluation deficiencies. The BSB Weed Department will include the sterilization of all appropriate BRES Sites, including pathways, walking trails, stormwater structures, engineered soil caps, etc.

**Native Plants.** Montana Tech staff and BSB personnel have coordinated all plantings for 2015. Plantings will be placed at Caledonia Triangle and Scown Field, Missoula Ball Fields and the 11<sup>th</sup> Street Triangle. Montana Tech will complement trees and shrubs with smaller native grasses and flowers.

**Excavation Review and Oversight.** BSB personnel issued 23 Excavation and Dirt-Moving Permits during June of 2015; 6 permits were issued for properties in the BPSOU.

- 9 S. Idaho
- 1120 W. Granite
- 945 Lexington Ave
- 300 Block of Quartz
- 600 S. Main
- 1000 Steele

**Institutional Controls (ICs).** Butte-Silver Bow continues to manage its responsibilities to the Institutional Controls Program. Butte-Silver Bow is working with permit recipients to educate the permit holders on BMPs, stormwater controls, sediment controls, excavation of hazardous waste, and access to the Mine Waste Repository. B-SB personnel continue to work closely with local utility companies (NWE, telephone, cable and others) to coordinate Street Opening permits, Excavation & Dirt-Moving permits and others.

**Mine Waste Repository Maintenance.** The Mine Waste Repository continued operation with all active dumping directed to the lower, eastern bench which continues to be monitored and maintained on a regular basis.

### **B. Storm Water Operations and Maintenance Activities**

During the reporting period, standard and routine work activities were performed. Crews were out inspecting and monitoring various facilities, and completed several cleanouts within the BPSOU site as needed. Typical maintenance activities include:

- Removing debris as necessary (in inlets, pipes, and other conveyances).
- Removing sediment and cleaning catch basins after storm events.
- Repairing and in some case rebuilding/replacing damaged catch basins and lateral pipes.
- Cleaning out and maintaining Hydrodynamic devices (HDDs) and other Superfund structures after storm events.
- Eliminating illicit connections (as identified in investigation work).
- Inspecting facilities to identify maintenance needs (video, dye tracers, etc.)
- Conducting Superfund Storm Water Structure O&M Activities.
- Construction projects as identified by BSB Public Works staff and/or required by the agencies.

**Kaw Avenue/Front Street Storm Water Project:** BSB is currently processing the CCR for the Kaw Avenue storm water project to re-route BSB infrastructure and eliminate open ditches along BNSF property. WET, BNSF, AR, and EPA conducted a final site walkthrough on October 30, 2014 and a list of final punch list tasks was developed, which were completed by Wasley Excavation November 2014.

**Superfund Storm Water Structures Operations and Maintenance Plan:** Per requirements from EPA, BSB and its consultant WET are working on revisions to the Superfund Storm Water O&M Plan and associated reporting. Multiple working meetings have been conducted with discussions on how to incorporate maintenance needs/requirements on BRES sites and parts of the municipal system. A preliminary discussion is planned for BSB's May construction update meeting.

**Silver Bow Street Storm Water Improvements:** BSB is working on a storm water improvement project on Silver Bow Street. The area has experienced chronic flooding in the past. New pipe and inlets will be installed. Design work has been completed. Construction has not been scheduled.

**George – Utah Street Storm Water Improvements:** BSB is working on a storm water improvement project near the intersection of Utah and George Street. The area has experienced chronic flooding in the past. New pipe and inlets will be installed. Design work and proposed construction plans have been completed. Construction has not been scheduled. This project may need to be coordinated with potential restoration work proposed by NRDP.

**Skateboard Park Storm Water Improvements:** BSB is working on a storm water improvement project at the BSB Skateboard Park located off Continental Drive and Second Street. The skateboard park does not have an outlet; as a result, the park must be frequently pumped out after storm events. This project will design an outlet from the park to the BSB storm water system. Design work is in progress. Construction has not yet been scheduled.

**MPDES Storm Water Permit Assistance & Monitoring – MS4: MPDES Storm Water Permit Assistance & Monitoring – MS4:** Butte-Silver Bow and its consultants continue to implement requirements of its Municipal Separate Storm Sewer System (MS4) permit. The MS4 permit requires the BSB develop a Storm Water Management Program (SWMP) that addresses six control measures: public education, public involvement, illicit discharge detection and elimination (IDDE), construction site storm water control, post-construction site storm water control, and pollution prevention/good housekeeping. Activities completed under each control measure are detailed below:

- CFWEP and Imagine Butte Resource Center have co-sponsored a project to bring awareness to storm water's impact on Silver Bow Creek. Local artists have selected an Uptown storm drain and have painted murals around the stormwater inlets to ensure the public realizes waste flows directly to the creek.
- BSB completed the annual MS4 report as required in Section I under Part IV. Monitoring, Recording and Reporting Requirements for the General Permit.
- Butte-Silver Bow Public Works and its consultants provide engineering support and assistance in reviewing storm water design plans for proposed developments in Butte, as required by the City-County Storm Water Ordinance. Assistance regarding storm water requirements was provided to potential developers as requested.
- MDEQ has decided to administratively extend the existing MS4 permit for the years 2015-2016 while a working group conducts meetings develops new permit requirements. BSB and its consultant WET have participated in multiple permittee-stakeholder meetings on this topic and will take part in the working group meetings.

- BSB began meeting with the other MS4 Cities to develop a MS4 permit that is acceptable to the cities and DEQ.

**Street/Snow Maintenance Plan** – Per EPA request, BSB has revised its street and snow maintenance plan. BSB awaits EPA comments on this plan.

### **C. Water Quality District Activities**

- On-site wastewater work has continued throughout this period and well as review of subdivisions involving Sanitation in Subdivision Act.
- Initial talks began internally at the health department when the WQD moves under new supervision associated with re-organization of Superfund activities.

### **D. GIS Activities**

Primary work in the reporting period included:

- **Maps**
  - Work Plan Evaluation field visits in Butte Reclamation Evaluation System (BRES) Quadrants Two (2) and Three (3) with Mr. Greene, and Reclamation Division personnel, included hard copy maps. Individual hard copy of all sites to be visited were printed at 8.5 x 11 for reference use. A review of the digitally shared field form was conducted. Finalization of all components is expected this week in anticipation of the June 22, 2015 kick off. A larger, display size map of all BRES Sites, in the four (4) quadrants, ranging from Walkerville, MT to the Clark Mill Site on Timber Butte was also provided to Reclamation staff for review.
  - A GPS inventory of irrigation system components in the Original Mine Yard was completed. A draft map was plotted for review. The construction of additional map features may be required before finalization of a suitable site map. A thorough examination of this data has yet to be conducted. Heads up digitizing of irrigation lines in the Original Mine Yard, using recently GPS collected point features, was completed and a draft map prepared for review.
  - Pioneer Technical GIS staff requested and received, with the draft status data caveat, the point features which comprise our GPS Hazards and Shafts theme. Pioneer has been doing some work on the Western Montana Mental Health project on E Copper Street which includes two (2) mapped shaft locations.
  - A map of the 2700 block of Argyle Street was laid out and plotted for a potential field subsidence investigation. An opening on the Cripple Lode, west, northwest slope of Missoula Gulch, and in the vicinity of other documented Hazards and Shafts, was GPS located and incorporated into existing GIS databases. A map of the area using an available mid 1990's Black and White aerial was created. A demolished house, recollected on site by attending Silver Bow County personnel, and in close proximity to the subsidence, is visible on the photography. A reported subsidence in the near the intersection of Continental Drive and Ottawa Street, and maps or information regarding a long designated un reclaimed area near the intersection of Noyes Street and Utah Avenue. Vacant, Butte-Silver Bow owned parcels in the vicinity of Colorado and W Mercury Streets were examined by the Reclamation Division for the existence of known hazards or shafts. The GPS collection of hazards on W Daly Street and E Park Street were completed and site maps plotted. The 400 E Park Street location will be reviewed for accuracy with the return of the Reclamation Division.

- The vacant lot is to the south east of the noted Moonlight South Shaft, and the entire area appears to a low spot. This area brought up discussions about the historic location of the famed Neversweat Mine, rumored to overlook or be in the vicinity of the Moonlight Mine. A 1916 Sanborn map, showing the mine location, was registered to an August 1955 aerial photograph. Buildings polygons were used as the link to align the images. According to our analysis, the whole show was engulfed by the northwest wall of the Berkeley Pit.
- Several As –Built files of Reclamation work were received from TREC and downloaded to the GIS File Server to be quality assured in future weeks. Additional Reclamation theme work was plotting hard copy BRES Quadrant Four (4) maps, a project map of a special fertilizer application on the Alice Knob, an image export file of BRES Quadrant Three (3) emailed to Project Manager Greene,
- **BRES Program**
  - BRES field evaluations were initiated June 24th. A preliminary field session was completed in advance of the official training to test using Arc GIS Online, and the database field evaluation form in the field. Tests were successful and the initial evaluations revealed enhanced precision in identifying trigger items on BRES Sites. In addition, hard copy Erosion, Vegetation, and Storm water maps were plotted as an additional resource for field going personnel. Training was completed in a classroom setting and training with iPads was completed in the vicinity of the Colorado Smelter Site (BRES Site No. 150). Field Evaluators who had been with the program during previous evaluations liked the new system, and were eager to offer feedback on the new approach. The glare on the screens in the bright sunlight was an immediate difficulty, but adjustments were made.
- **Revegetation**
  - Differing versions of Tree Pod maps were created. A vicinity map showing the location of all currently mapped, and planted pods from the Texas Avenue site to the former Walkerville Ball Field, east of the Sherman School was plotted. An additional, detailed ten (10) map series emphasizing the individual, or tight clusters of polygons with trees is also available for field going personnel. Large scale Tree Pod maps were laid out, plotted and given to field going Reclamation Division summer help

## **II. Residential Metals Abatement Program**

There are a number of standard work activities that are on-going and addressed each month, including the following:

- Identifying soil, attic and cap protection projects.
- Data base and GIS tracking system; progress and annual reports
- Completion statements and deed attachments for 2013 projects
- Re-insulating properties previously abated
- Paint inspections
- Residential soil/basement sampling
- Residential attic sampling
- Residential interior dust sampling
- Continuing lead education; extensive meeting with EPA and John Ray on enhancing the Community Outreach portion of the RMAP

- Provide use of HEPA vacuums
- Provide blood lead sampling through WIC clinic and establish database for blood lead results

**Projects in Progress** (June 2015)

56 Missoula – Soil	1225 W. Copper – Attic
340 E. Mercury – Soil	411 W. Copper – Attic
522 W. Silver – Soil	849 Hornet – Attic
61 W. Center – Soil	1211 W. Gold – Attic
1242 E. Second – Soil	1121 W. Silver – Attic
631 Placer – Soil	606 S. Crystal – Attic
1252 Aluminum – Soil	932 Zarelda – Attic
1130 Missouri – Soil	2025 Argyle – Attic
2007 Walnut – Attic	2830 Moulton - Attic

**Projects Completed:** (June 2015)

56 Missoula – Soil	1225 W. Copper – Attic
340 E. Mercury – Soil	411 W. Copper – Attic
522 W. Silver – Soil	849 Hornet – Attic
61 W. Center – Soil	1211 W. Gold – Attic
1242 E. Second – Soil	1121 W. Silver – Attic
631 Placer – Soil	606 S. Crystal – Attic
1252 Aluminum – Soil	932 Zarelda – Attic
1130 Missouri - Soil	2025 Argyle – Attic
2007 Walnut – Attic	2830 Moulton - Attic

**Upcoming projects:**

817 W. Diamond – Attic	735 9 <sup>th</sup> Street - Attic
1814 Thornton – Attic	1130 Missouri – Attic
1941 grand – Attic	965 N. Main – Soil
518 N. Henry – Attic	901 W. Copper – Soil
1132 W. Woolman – Attic	19/21 Gagnon – Soil
405 W. Quartz – Attic	1005 W. Broadway - Soil

**Projects Completed to date (2015) – 60**

**Properties Sampled to date (2015) – 152**

### **III. Other Activities**

None this month.