



*Butte-Silver Bow Planning Board*



August 10, 2015

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RE: August 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 August 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 – August 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 August 2015.

## I. Operations and Maintenance Activities

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

**Routine O&M.** In August 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 started work from the 2014 BRES Evaluations. Specifically:

- BRES Site 71 – repaired barren areas, excavated areas with exposed mine waste and added lime rock, top soil and prepared for seed;
- BRES Site 5 – Repaired damaged fencing along walking trail;
- BRES Site 1625 - repaired two land slumps, added top soil and prepared for seed;
- BRES Site 172 - excavated for tree planting, removed mine waste and hauled to the repository, added top soil;
- BRES Site 78 – repaired barren areas, added top soil and prepared for seed;
- BRES Site 60 – repaired areas damaged by motorized vehicle travel, blocked future access with boulders;

**BRES Corrective Action Plans (CAPs).** BRES Field Evaluations were completed in July 2015. BSB GIS downloaded GIS features collected during the field evaluations of Quadrant 4. Upon completion of data quality assurance, a summary list of site evaluations will be prepared by the Reclamation Division for delivery to EPA and ARCO. This summary report will inform the development of site specific corrective action plans, including where necessary sampling and analysis and vegetation improvement plans. Corrective Action Plans will be developed upon completion of site visits by the Reclamation Division staff.

**Vegetation and Weed Controls.** BSB Weed Department staff continues to support BSB Reclamation Department's routine weed control, seeding and mowing obligations. The BSB Weed Department will include the sterilization of all appropriate BRES Sites, including pathways, walking trails, stormwater structures, engineered soil caps, etc, this season.

**Native Plants.** Montana Tech staff and BSB personnel have coordinated all plantings for 2015.

Plantings are designed for installation at Caledonia Triangle and Scown Field, Missoula Ball Fields and the 11<sup>th</sup> Street Triangle. Soil work is complete on all sites. Trees and plants will be installed at 11<sup>th</sup> Street this fall, with installation at Missoula Ball Fields and Caledonia Triangle for spring 2016. Montana Tech will complement trees and shrubs with smaller native grasses and flowers.

**Excavation Review and Oversight.** BSB personnel issued 28 Excavation and Dirt-Moving Permits during August of 2015; 9 permits were issued for properties located within the BPSOU.

- 418 W. Aluminum – Utility Repairs
- Summit & Main – Lot Leveling/Landscaping
- 525 Caledonia – Waterline Repair
- NW E Aluminum/Wyoming – Utility Repairs/Maintenance
- 301 W. Granite – Excavate for new Foundation
- 1000 Block of Arizona/Oregon – Utility Repairs/Maintenance
- 1100 Block Arizona/Oregon – Utility Repairs/Maintenance
- 500 – 700 Block Centennial – Utility Repairs/Maintenance

**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.

- Removed materials from and re-graded the lower deck of the repository and constructed a berm along the north boundary using a D7 dozer.

## **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:

- Removed sediment and debris from storm water ditch adjacent to the Anselmo mine yard and constructed a berm to direct storm water to the existing ditch.
- Constructed berms and swales north of Mandan Park to divert storm water to existing Kelley storm water ditches, capped the parking area with asphalt millings
- Removed sediment from traps and the fore bay at CB8 four times
- Cleaned algae and debris from the inlet screen at CB8 six times
- Removed sediment from the HDD at Webster Garfield
- Removed sediment from the HDD at Warren Avenue
- Removed sediment from the HDD at Montana Street
- Removed sediment from the HDD at Civic Center
- Installed curb and gutter on north Idaho Street between copper Street and quartz Street
- Installing curb and gutter along East Woolman Street from Main Street to Wyoming Street

**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.

**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 Draft Interim Plan is currently under development for submittal to EPA and DEQ within the quarter.

**Silver Bow Street Storm Water Improvements:** BSB completed installation of new pipe and inlets at Silver Bow Street in August 2015.

**George – Utah Street Storm Water Improvements:** BSB plans to mobilize stormwater improvements at the intersection of Utah and George Street in September 2015. Design work and proposed construction plans have been completed. The area has experienced chronic flooding in the past. New pipe and inlets will be installed. 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 at 90% completion for a storm water improvement project at the BSB Skateboard Park. A drain inlet within the park “bowl” was installed to alleviate the need to pump water from the facility after storm events. Design and construction is complete and an electrical service has been installed. The project will be finalized upon installation of a pump.

**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:

- 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.
- Worked with MBMG and DNRC on test well near St. Patrick’s cemetery.
- Added additional well testing (irrigation) requested through EPA on Reap property located in the Clark Tailings/Old Landfill CGWA.
- Continued transition work for Water Quality District.

### **D. GIS Activities**

Primary work in the reporting period included:

- **Maps**
  - The Residential Metals and Abatement Program’s CLAPAP (Clap) database was reviewed. Several program queries used to generate statistical reports required some language updates in order to make operational. Data entry errors were examined. Lists of Sampled and Abated properties were converted and exported in a file format suitable for use with Arc GIS. Attribute joins were completed with cadastral line work to produce a layer of spatially referenced polygons. Maps featuring these select parcels were printed for examination by Residential Metals staff. Google compatible Kml files of sampled parcels were exported, and written to CD for staff evaluation. Other BRES themed data sets were also exported in Kml format for uploading to Residential Metals staff work stations.
  - Final edits on the ongoing Original Mine Yard Irrigation System map were completed and plotted for review. Work involved several small line deletions to accurately represent the current underground sprinkling system in operation at the Original.
  - An export file of existing source areas was created and emailed to Pioneer Technical GIS staff.
  - An export file of our “Controlled Ground Water Zones” was requested by Montana Bureau of Mines and Geology (MBMG) agent, Mr. Ted Duime. An ESRI Shapefile was emailed to MBMG GIS staff.
  - A plot of Stope Book Index Maps was plotted and Reclamation Division staff took time to answer research related questions.
  - Noticeable changes in residential yards required the creation of hard copy GPS Hazards \ Shaft reference maps for select Centerville (11 E Buffalo Street) and Midtown (103 W Gold Street) locations. A depression mapped near a potential underground mine workings at 11 E Buffalo Street was excavated, and identified as a possible mine waste dump, rather than a mine shaft location. The point was located, and added to our Hazards \ Shafts database. GPS Hazard \ Shafts maps were plotted for reference use during field evaluations in the 1900 block of Grand Avenue and the 100 block of W Broadway Street.

- Property ownership in the vicinity of Mandan Park was reviewed with Reclamation Division staff. Storm Water run-off and trespass road use, has created erosion problems in the area.
- **BRES Program**
  - 2015 Butte Reclamation Evaluation System (BRES) was discussed with ARCO and Environmental Protection Agency (EPA) representatives to review current protocols.
  - The Storm Water base layer is in the process of being updated with features collected in the 2015 Butte Reclamation Evaluation System (BRES) Quad Four (4) Filed Evaluation. Additional edits will be completed using protocols defined in a recent Storm Water Operations and Maintenance (O&M) Plan review.
- **Revegetation**
  - Tree Pod maps plotted and updated with irrigation information by field going personnel were analyzed. Additional GPS collection \ location work will be required to complete accurate representations and maps of irrigation systems in the pod areas.
  - A 2014 Google Earth image of the Eleventh Street Triangle was copied and a large scale plot created for reference with the irrigation system completion project.
  - A natural gas line in the immediate vicinity of a new tree pod being planned east of Jim Scown field was marked during a utility locate called in by the Reclamation Division. This line was GPS collected, differentially corrected, and will be available for reference use in the final layout and design of the new tree pod polygons.

## 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 projects completed
- Re-insulating properties previously abated
- Paint inspections
- Residential soil/basement sampling
- Residential attic sampling
- Residential interior dust sampling
- Provide use of HEPA vacuums
- Provide blood lead sampling through WIC clinic and establish database for blood lead results

### **Projects in Progress** (August 2015)

901 W. Broadway – Soil  
 19/21 Gagnon – Soil  
 405 W. Quartz – Basement  
 1029 Placer – Attic  
 135 W. Daly – Attic  
 1608 First – Attic

3132 Keokuk – Attic

**Projects Completed:** (August 2015)

11 Buffalo – Soil  
709 N. Wyoming – Soil  
1005 W. Broadway – Soil  
450 N. Idaho – Soil  
Mercury St. Lot behind 213 Curtis – Soil  
965 N. Main – Soil  
1112 Waukesha – Attic  
3246 Kennedy – Attic  
1009 Caledonia – Attic  
2412 Harvard – Attic  
735 9<sup>th</sup> – Attic  
632 S. Dakota – Attic  
815 Dexter – Attic  
530 N. Franklin – Attic  
1910 Yale – Attic

**Upcoming projects:**

1402 Porphyry – Attic  
301 W. Park – Attic  
115 Minah – Attic  
1039 Iowa – Attic  
411 W. Park – Attic  
210 W. Woolman – Attic  
917 W. Quartz - Attic  
1211 W. Gold - Soil  
122 Minah – Soil  
815 Dexter – Soil  
821 Dexter – Soil  
Alabama St. Lot (815 Dexter) – Soil  
530 N. Franklin – Soil  
620 S. Montana – Soil  
118 Minah – Soil  
831 W. Granite – Soil  
1029 Placer – Soil

**Projects Completed to date (2015) – 85**  
**Properties Sampled to date (2015) – 217**

**III. Other Activities**

None this month.