

ROCKY FLATS STEWARDSHIP COUNCIL
Monday, October 29, 2018, 8:30 – 10:55 a.m.
Rocky Mountain Metropolitan Airport, Terminal Building, Mount Evans Room
11755 Airport Way, Broomfield, Colorado

Board members: Mark McGoff (Director, Arvada), Sandra McDonald (Alternate, Arvada) Cindy Domenico (Director, Boulder County), Summer Laws (Alternate, Boulder County), Lisa Morzel (Director, Boulder), Kim Groom (Alternate, Broomfield), David Allen (Alternate, Broomfield), Pat O’Connell (Alternate, Jefferson County), Joyce Downing (Director, Northglenn), Shelley Stanley (Alternate, Northglenn), Sandy Pennington (Alternate, Superior), Jan Kulmann (Director, Thornton), Emily Hunt (Alternate, Thornton), Cathy Shugarts (Alternate, Westminster), Jeannette Hillery (Director, League of Women Voters), Linda Porter (Alternate, League of Women Voters), Murph Widdowfield (Director, Rocky Flats Cold War Museum), Ken Freiberg (Alternate, Rocky Flats Cold War Museum), Roman Kohler (Director, Rocky Flats Homesteaders), Kathleen Bacheller (Alternate, Rocky Flats Homesteaders), Kim Griffiths

Stewardship Council staff and consultants: David Abelson (Executive Director), Barb Vander Wall (Seter & Vander Wall, P.C.), Rik Getty (Technical Program Manager), Sandy Thomas

Attendees: Ryan Hanson (Sen. Gardner), Gwen Hooten (DOE-LM), Vera Moritz (EPA), Lindsay Masters (CDPHE), George Squibb (Navarro), John Boylan (Navarro), Jody Nelson (Navarro), Bob Darr (Navarro), Jeremy Wehner (Navarro), Noelle Michel (Navarro), Laura Hubbard (Broomfield), Lindie Aragon (Westminster), Sophie Porcelli (Northglenn), Christine Hawley (WCRA), Carl Spreng, Bonnie Graham-Reed, John Reed, Marion Whitney, Lynn Segal, Linda Hladik, Carl Eklund, Sasha Stiles.

Convene/Agenda Review: Chair Joyce Downing opened the meeting at 8:30 a.m.

Public comment on Consent Agenda and Non-Agenda Items: None

Business Items:

Consent Agenda: Approval of Minutes, Checks and Contract Amendment: Jeannette Hillery moved to approve the minutes, checks, and contract amendment; Kim Griffiths seconded the motion. David Allen referred to the minutes regarding the soil samples on page 5. He requested that the term "geotechnical" replace the term "chemical.". The motion to approve the checks and contract amendment was 13-0 as presented. The minutes were approved 13-0 as amended.

Executive Director’s Report: David Abelson started by discussing DOE’s 2019 budget. He said that DOE’s Office of Legacy Management, the program office that manages Rocky Flats, received \$158,877,000 for fiscal year 2019. That amount matches the Administration’s request to Congress. By comparison, for fiscal year 2018 the Administration requested and Congress funded LM at \$154,606,000.

He next discussed the upcoming election, and the changes with Colorado Governor and Representative for the 2nd Congressional District. He does not know whether the changes in elected officials will affect current policy or politics, but over the next 6-9 months he will be watching that question closely for signs of change. He noted there will also be changes at the local government level that will change some of the designated elected officials at the Stewardship Council. He noted that Chris Hanson, Sandy Pennington and Cindy Domenico are term-limited.

Council Approval of 2019 Work Plan: The 2019 Work Plan was reviewed at the September 17, 2018, Stewardship Council meeting. Jeannette Hillery made a motion to accept the proposed 2019 Work Plan; Kim Griffiths seconded the motion. The motion was approved 13-0.

Council Approval of 2019 Budget: The 2019 budget was reviewed at the September 17, 2018, Board meeting. No changes were offered at that meeting. David Abelson explained that as part of the forthcoming change from Rik Getty to Melissa Weakley and the one-month overlap between the two, the budget contains an additional month of services for the Technical Program Manager.

Barb Vander Wall explained the budget review process. Prior to finalizing the budget, the Stewardship Council must hold a budget hearing and allow time for public comment. Following the public hearing, the Stewardship Council must approve the budget resolution, and approval must occur before the end of each year. She also noted that after the budget is approved, it is filed with the Division of Local Governments by the end of January. Barb reminded those in attendance that notice of the 2019 budget hearing was published in advance of this meeting, and that an official public hearing must be held before approval.

Joyce Downing officially opened the hearing for the 2019 budget. She asked for public comments. There being no public comments, the budget hearing was then closed. Jeannette Hillery made a motion to accept the 2019 budget. The motion was seconded by Cindy Domenico. The motion to approve the 2019 budget, appropriate the funds, and adopt the budget resolution was approved 13-0.

DOE Quarterly Report: This report is for the second quarter 2018.

Surface Water, John Boylan (substituting for George Squibb)

John reported that routine surface water sampling in Woman Creek at GS59, downstream of the Original Landfill (OLF), showed mean concentrations for all analytes below applicable RFLMA water-quality standards. The Present Landfill (PLF) also showed concentrations for all analytes were below applicable RFLMA water-quality standards for the second quarter sampling. No RFLMA Point of Evaluation analyte concentrations were reportable during the second quarter of 2018. At the Point of Compliance monitoring, reportable 30-day average uranium concentrations were observed at WALPOC. The concentrations were reportable for February 11, 2018 through April 19, 2018 during winter/spring baseflow conditions. The 12-month rolling average uranium concentration has remained below the reportable level. All other RFLMA point of compliance analyte concentrations remained below reportable levels during the second quarter of 2018.

Shelley Stanley asked if a larger flume was put in place at GS59. George Squibb, who entered the meeting during the conversation, responded that the flume is the exact same size at 3-feet deep with an 18-inch throat. GS59 has been dry for the last month and a half.

Public Comment: None

Groundwater Monitoring and Operations, John Boylan

John provided an overview of the groundwater monitoring system. The ten Resource Conservation and Recovery Act (RCRA) wells are monitored quarterly to evaluate potential impacts from the OLF and PLF.

Nine Area of Concern (AOC) wells and one Surface Water Support location are monitored semiannually. The AOC wells are located in drainages downstream of contaminant plumes and are evaluated for plumes discharging to surface water. Twenty-seven Sentinel wells are monitored semiannually; these wells are located downgradient of treatment systems, near edges of plumes, and in drainages to look for plumes migrating to surface water and treatment system problems. Forty-two Evaluation wells are monitored biennially within plumes, near source areas, and interior of Central Operable Unit (COU) to evaluate whether monitoring of an area or plume can cease. Seven treatment system locations are monitored semiannually and two are monitored quarterly.

John reported that this quarter was a heavy sampling period with all wells, including the biennial Evaluation wells, being monitored. The results were generally consistent with previous data with the exception of AOC well 10304. At this well, which monitors groundwater downgradient of 903 Pad/Ryan's Pit Plume, there was elevated trichloroethene (TCE) in the second quarter sample (26 ug/L; RFLMA standard is 2.5 ug/L.) If TCE is above 2.5 ug/L in the sample collected in the fourth quarter 2018, it will be reportable for TCE. TCE was reportable from the fourth quarter of 2015 through the second quarter of 2017. The result in the fourth quarter 2017 was 2.3ug/L. Wet conditions were predicted to cause this, and it may still reflect waning effects of a very wet spring 2015.

The groundwater treatment systems continue to remove contaminants with the East Trenches Plume Treatment System (ETPTS) effluent below applicable standards. This applies to water from Mound Site Plume Collection System (MSPCS) as well as East Trenches Plume groundwater. The Solar Ponds Plume Treatment System (SPPTS) effluent was below applicable RFLMA standards for nitrate. Uranium concentrations were reduced but were above the RFLMA target. Data will be evaluated and discussed as part of the 2018 annual report. MSPCS and ETPTS received routine maintenance. At SPPTS, routine maintenance was performed. A new valve on the effluent line was added to simplify maintenance. An effluent pump in the nitrate treatment component was replaced with a higher flow model. The subcontracted uranium treatment evaluation was completed. The associated test infrastructure was removed, and DOE is considering a path forward. Routine maintenance at all systems included annual inspection of solar/battery facilities. Items were replaced as needed.

Lisa Morzel asked if other elements were looked for in groundwater at AOC well 10304. John responded that he was not certain. David Allen asked if DOE continued to take surface water samples from the Woman Creek location near AOC well 10304. John stated that samples were last taken in the fourth quarter of 2017. No surface water samples have been taken from that location since. Shelley Stanley asked what the subcontractors studying uranium treatment at the SPPTS evaluated. John responded that they evaluated numerous approaches including ion exchange resin, electro coagulation, and phosphorus additives, testing approaches both upstream and downstream of the lagoon. Shelley asked if the report will be available to the Stewardship Council. John responded that he did not know.

Public Comment: None

Site Operations, Jeremy Wehner

Jeremy reported that the RFLMA annual inspection was conducted on April 5, 2018. The scope includes inspection of the site and monitoring for evidence of significant erosion and violation of institutional controls. DOE verified that the restrictive notice for the COU remains in the Administrative Record and on file with Jefferson County. No evidence of institutional or physical controls violations were found. Debris and trash were picked up or subsequently removed. A couple of areas showed minor

depressions, but none required immediate action. The quarterly inspection of signs was completed on May 21; no problems were observed with the signs.

At the OLF, three monthly inspections were completed. One weather related inspection was completed. Some minor erosion occurred, and maintenance was completed. Eight settlement monuments were surveyed on June 7, and vertical settling at each monument was within limits. At Seep 10 siphon, approximately 475,000 gallons were diverted by the end of June. Seep 2/3 collector pipe was maintained. At the groundwater intercept wells, 166,000 gallons were diverted by the end of May. As part of the OLF monthly inspections, the East Subsurface Drain was inspected. The temporary groundwater intercept system was restarted for the spring and summer, but because of generator maintenance, it was not operated in June.

At the PLF, a combined quarterly and weather-related inspection was done. The PLF is in good condition, and no maintenance was required. At former building areas 371/374, 771, 881, and 991, a weather-related inspection was conducted following a rain event. A second quarter inspection was conducted for erosion and subsidence. No new issues were found.

At the North Walnut Creek Slump, a geotechnical data report was completed, and a geotechnical evaluation was started. Data was collected from fifteen piezometers and three inclinometers. Slump monitoring points were surveyed in April, May and June. The month-to-month movement accelerated between May 1 and June 7 readings with vertical movements ranging from 0.14 foot to 0.44 foot for the period. The crack was bladed, filled, and tamped in July to limit direct water infiltration. No maintenance was conducted on the roads. Repair and maintenance of site roads are being planned for fall to include grading, scarifying as necessary, moisture condition, compact, and repair damaged sections. Imported road base will be used as necessary.

Lisa Morzel asked where the depressions were located. Jeremy responded they are at former Building 371. Sandy Pennington asked where the seep comes from. Jeremy responded that the water infiltrates on the pediment and generally travels west to east, but near the OLF hillside some of the groundwater travels south and is collected by gravel bedding from an old stormwater line that was terminated near Seep 10 at closure. The remainder of that trench to the east of Seep 10 was backfilled with clay at closure, so the water in the bedding comes to the surface. Groundwater flow also comes to Seep 2/3 from the pediment.

David Allen requested confirmation that the water collected in the pipes at the groundwater intercept was pumped out, and that the water at Seep 10 was from groundwater collected in gravel around the pipe. Shelley Stanley asked when the diversion of the 475,000 gal. of water started. Jeremy stated it started around April 20th. Sandy Pennington asked where she could find the analysis of the contaminants. Jeremy stated there was no analysis of that water at that location. Jeremy stated that the water at Seep 10 and Seep 2/3 already comes to the surface, but it is now captured and diverted in the pipe instead of traveling along the ground surface.

Lisa Morzel and David Allen both asked that with the water traveling from west to east, from the perimeter channel to Woman Creek, what is the comparison of the water going in to the water coming out. Jeremy responded that there is no testing of that, that data from the wells show VOCs well below standard. David Allen stated that this is an opportunity for creating additional data points to at least reconfirm data and test Seep 10 before it moves downstream.

Lisa Morzel asked why chemical analysis is not being done, that the community is concerned about safety, and that DOE should be doing everything it can to reassure the public. Cindy Domenico stated that it would be nice to have scientific double checks. Kim Griffiths asked what is the mechanism to request additional testing.

Kim Groom asked why the DOE does not conduct Seep 10 testing. Jeremy responded that there is no scientific reason to do so. The concentrations in the wells currently monitoring the OLF show nothing or significantly below base measurements both historically and more recently. David Allen stated that based on natural flow, there is 500,000 gallons of water in this area, which is a big difference from the closing date of Rocky Flats. The additional water presents a good opportunity to conduct more testing.

George responded that per RFLMA the surface water is monitored in Woman Creek downstream of the OLF at GS59.

Following further discussion of various ways to communicate with DOE regarding the members' concerns, the members agreed to address this issue at the appropriate time in the meeting.

Public Comment: None

Ecology, Jody Nelson

Jody stated that the following activities were completed: weed mapping, spot control of small weed infestations, wetland water level monitoring, nest box surveys, prairie dog survey, installation of tree cages around woody plants, and providing assistance to the USFWS with Preble's mouse trapping efforts.

Jeannette Hillery asked if any Preble's mice were found. Jody said none were found.

Public Comment: Lynn Segal asked about the prairie dog colony, and whether there are any prairie dogs in the COU. Jody said there are none.

New Member Interviews and Selection: The Board interviewed the following three candidates for the two non-governmental seats on the Stewardship Council. The following is a summary of that discussion.

Murph Widdowfield, President of the Rocky Flats Cold War Museum: Murph started by explain that the Cold War Museum was founded in 2001 to save the history of Rocky Flats and to collect artifacts (which are now in storage.) He stated that the members of the Cold War Museum have a very strong foundation on the history of the site, cleanup, and monitoring activities. The Cold War Museum is committed to tell the complete story of Rocky Flats. The Board members of the Cold War Museum give talks and programs each year to schools and civic groups about Rocky Flats and the museum development. They want to monitor Rocky Flats long-term stewardship issues that arise on the Stewardship Council and also provide information to the public through on-line resources and personal outreach.

Kim Griffiths: Kim was appointed to a one-year term starting at the February 2018 meeting. She stated she is a local resident with a distinct and important voice on the Stewardship Council. She has distributed a survey in surrounding neighborhoods to obtain opinions of Rocky Flats neighbors regarding the opening of the wildlife refuge. She has attended the Rocky Mountain Greenway open house to learn

more about their project. She feels she has learned much this first year and would like to continue to serve on the Stewardship Council.

Sasha Stiles: Sasha is a physician living in Superior. She stated that her expertise in the healthcare profession would be helpful to the Stewardship Council regarding potential future impact of any remaining contamination. She stated that as a medical scientist, her expertise would help the Stewardship Council interpret the epidemiological data, reports, and other information that will impact the community's health as it pertains to the mission of the Stewardship Council.

Stewardship Council members present then voted on their top two selections for non-governmental Stewardship Council seats. The results were:

Rocky Flats Cold War Museum, 8
Kim Griffiths, 9
Sasha Stiles, 3

The Rocky Flats Cold War Museum and Kim Griffiths were appointed to two-year terms.

Board Roundtable: Jeanette Hillary reminded everyone to vote on November 6th. Sandy Pennington and Cindy Domenico expressed their gratitude for their time serving on the Stewardship Council. Lisa Morzel commented that Boulder has been asked by some residents to withdraw from FLAP and to get its money back. Cindy Domenico stated that the FLAP message has to get out early and the story must be better told.

Kim Griffiths and Murph Widdowfield thanked the governments for their continued support. Roman Kohler informed the Board that Prudential Insurance presented its pension plan fund to the former RF employees. 41% of workers took a lump sum payout instead of an annuity.

Big Picture: Stewardship Council members continued their previous discussion regarding how to approach DOE with the members' concerns at the OLF, particularly regarding what some perceive as a lack of ongoing comprehensive testing by DOE. The members asked that the Stewardship Council, as the Local stakeholder Organization for Rocky Flats, forward their concerns to DOE. David said he would draft a letter for approval at the February 2019 meeting.

Lisa Morzel expressed concern about the financial health and future of the Rocky Flats Cold War Museum. She believes that there should be an in-depth discussion regarding the Museum. Sandy Pennington discussed that the CU archives has artifacts safely stored and the Cold War Museum may ask them to store its artifacts. Several Stewardship Council members discussed their concerns as to the safety and quality of the artifacts. In response to members' comments, Murph Widdowfield stated that his board is aware that the federal government will not assist with the establishment of a cold war museum. He is aware of other museums, first funded by the government, that must now seek private funding. Murph stated that he has contacted CU as well as a number of other institutions and agencies. Presently, the Cold War Museum board has a business plan with a goal of raising \$6 million.

The meeting was adjourned at 10:55 a.m.

Prepared by Sandy Thomas