

# ROCKY FLATS SITE

## REGULATORY CONTACT RECORD

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**Purpose:** Soil Disturbance Review Plan—Roads maintenance, including grading the road to the former A-3 Pond to convert the road to two-track vehicle use.

**Contact Record Approval Date:** May 31, 2012

**Site Contact(s)/Affiliation(s):** Scott Surovchak, U.S. Department of Energy (DOE); Gwen Hooton, DOE; Rick DiSalvo, S.M. Stoller Corporation (Stoller); Kurt Franzen, Stoller; Linda Kaiser, Stoller

**Regulatory Contact(s)/Affiliation(s):** Carl Spreng, Colorado Department of Public Health and Environment (CDPHE); Vera Moritz, U.S. Environmental Protection Agency (EPA)

**Date of Consultation Meeting:** May 24, 2012

**Consultation Meeting Participants:** Carl Spreng, CDPHE; Scott Surovchak, DOE; Rick DiSalvo, Stoller

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**Discussion:** Routine maintenance and minor repairs to portions of the Central Operable Unit (OU) gravel roads are planned for mid-June 2012. As part of the project, the gravel road that leads to the former A-3 Pond will be converted from a truck access road to a two-track vehicle (e.g., an all-terrain vehicle) access road.

The dams for Pond A-3 and the Present Landfill (PLF) were breached as described in Contact Record 2011-07, “Soil Disturbance Review Plan—Pond A-3 and Present Landfill (PLF) Pond Dam Breach Project.” A truck-access gravel road will be maintained for the PLF area for inspection, monitoring, and maintenance of the PLF cover and the Present Landfill Seep Treatment System, but a two-track access road is all that is needed in the former A-3 Pond area for access to North Walnut Creek monitoring locations. That existing gravel road will be converted to a two-track road and will be revegetated and designated for two-track vehicle use. A portion of this road (on the hillside slope leading south to the former A-3 Pond) that was built up to accommodate trucks will be regraded to promote revegetation, to accommodate precipitation runoff, and to minimize the potential for erosion. The regrading will involve excavation deeper than 3 feet below the existing grade, and the surface will not be returned to the preexisting grade.

Two other gravel road sections that have centerline humps will be regraded to remove approximately 6 inches of soil that form the humps. This cut soil will be filled and graded into the road. This regrading will not return the surface of the centerline humps to the preexisting grade or higher.

This work is subject to the *Rocky Flats Legacy Management Agreement (RFLMA)*, Attachment 2, Institutional Controls (ICs) 2 and 3, which are provided in the following table.

IC 2	Excavation, drilling, and other intrusive activities below a depth of three feet are prohibited, without prior regulatory review and approval pursuant to the Soil Disturbance Review Plan in RFLMA Attachment 2.
	<p><b>Objective:</b> Prevent unacceptable exposure to residual subsurface contamination.</p> <p><b>Rationale:</b> Contaminated structures, such as building basements, exist in certain areas of the Central OU, and the Comprehensive Risk Assessment did not evaluate the risks posed by exposure to this residual contamination. Thus, this restriction eliminates the possibility of unacceptable exposures. Additionally, it prevents damage to subsurface engineered components of the remedy.</p>
IC 3	No grading, excavation, digging, tilling, or other disturbance of any kind of surface soils is permitted, except in accordance with an erosion control plan (including Surface Water Protection Plans submitted to EPA under the Clean Water Act) approved by CDPHE or EPA. Soil disturbance that will not restore the soil surface to preexisting grade or higher may not be performed without prior regulatory review and approval pursuant to the Soil Disturbance Review Plan in RFLMA Attachment 2.
	<p><b>Objective:</b> Prevent migration of residual surface soil contamination to surface water.</p> <p><b>Rationale:</b> Certain surface soil contaminants, notably plutonium-239/240, were identified in the fate and transport evaluation in the Remedial Investigation as having complete pathways to surface water if disturbed. This restriction minimizes the possibility of such disturbance and resultant impacts to surface water. Restoring the soil surface to preexisting grade maintains the current depth to subsurface contamination or contaminated structures.</p>

The required Soil Disturbance Review Plan is in Attachment 1. Figures 1 and 2 show the location of the areas to be graded described above.

CDPHE has reviewed information regarding the proposed soil disturbance and excavation and, after consultation with EPA, CDPHE has approved the proposed activity. CDPHE has determined that the proposed activity will not result in an unacceptable release or exposure to residual subsurface contamination, and will not damage any component of the remedy. CDPHE has also determined that the proposed project meets the rationale and objectives of IC 2 and IC 3.

DOE will not conduct the approved soil disturbance and excavation until 10 calendar days after this contact record is posted on the Rocky Flats website and notification of the posting is made to stakeholders in accordance with the RFLMA Public Involvement Plan.

**Closeout of Contact Record:** This contact record will be closed when the work is completed, post-construction erosion controls are in place, and seeding for revegetation has been performed.

**Resolution:** Carl Spreng, CDPHE, approved the soil disturbance and excavation work described in the Soil Disturbance Review Plan (Attachment 1).

**Contact Record Prepared by:** Rick DiSalvo

**Distribution:**

Carl Spreng, CDPHE  
 Scott Surovchak, DOE  
 Linda Kaiser, Stoller  
 Rocky Flats Contact Record File

## **Rocky Flats Legacy Management Agreement (RFLMA) Soil Disturbance Review Plan**

**Proposed Project:** Roads maintenance, including grading the road to the former A-3 Pond to convert the road to two-track vehicle use.

This Soil Disturbance Review Plan provides information required by RFLMA Attachment 2, “Legacy Management Requirements,” Section 4.1, regarding the work proposed by the U.S. Department of Energy (DOE).

For clarity in this Soil Disturbance Review Plan, the areas under discussion are identified on Figure 1 as Locations 1 and 2 (gravel road sections where centerline humps will be removed) and Location 3 (a gravel road that will be regraded and revegetated for two-track vehicle use). The locations are as follows:

- **Location 1:** Gravel road access to the Solar Ponds Plume Treatment System Interceptor Trench System collection sump and related equipment and the SPOUT sampling location.
- **Location 2:** Gravel road access from the east face of Pond A-4 Dam to the WALPOC sampling location.
- **Location 3:** Gravel road access from the south-facing hillside to the former Pond A-3 and Surface Water Configuration Adaptive Management Plan sampling location GS12.

Description of the proposed project, including the purpose, the location, and the lateral and vertical extent of excavation.

The purpose of the project is to perform routine maintenance of gravel roads and to revegetate and regrade a section of existing gravel road to convert it to two-track vehicle use. The work locations are shown in Figures 1 and 2. The maintenance will include removing approximately 6 inches of soil that form the centerline humps in the gravel roads at Locations 1 and 2 that could pose a vehicle safety hazard if not removed, and grading the removed material into the low spots adjacent to the humps. The gravel road in Location 3 was previously graded to accommodate truck use. One portion, on a hillside, has a horizontal “bench” profile that entails precipitation runoff and erosion control maintenance requirements. The removed soils will be placed and graded within the gravel road footprint. Regrading to remove the “bench” profile and revegetation will accommodate two-track vehicle use and improve the runoff characteristics in this area, thus minimizing the erosion potential and the need for erosion controls when the vegetation is established.

The planned location, lateral and vertical extent, and grade upon completion of the work are as described above and shown in Figures 1 and 2.

Information about any remaining subsurface structures in the vicinity of the proposed project.

There are no remaining subsurface structures in the vicinity of Locations 1, 2 or 3.

Information about any former Individual Hazardous Substance Sites (IHSSs), Potential Areas of Concern (PACs), or other known or potential soil or groundwater contamination in the vicinity of the proposed project.

**Location 1:** This location is not in the vicinity of any former IHSSs or PACs, but it is in the eastern area of the extent of the Solar Pond Plume (SPP), as shown on RFLMA Attachment 2, “Legacy Management Requirements,” Figure 2, “Composite Plume Map.” The SPP contains nitrate and uranium contamination at levels above RFLMA surface water standards, which are based on Colorado drinking water supply standards.

This road maintenance work will not involve any soil disturbance that would result in contact with groundwater that may be associated with the SPP.

**Location 2:** This location is just east of former IHSS 142.4—Pond A-4, and is not in any former IHSS or PAC.

**Location 3:** This location is just north of former IHSS 142.3—Pond A-3, and is not in any former IHSS or PAC.

As part of the *RCRA Facility Investigation—Remedial Investigation/Corrective Measures Study—Feasibility Study Report for the Rocky Flats Environmental Technology Site (RI/FS)*, Exposure Units (EUs) were evaluated and documented in Appendix A of the RI/FS, “Comprehensive Risk Assessment” (CRA). Locations 1, 2, and 3 are in the Upper Walnut Drainage EU.

The results of the CRA for the Upper Walnut Drainage EU are in Volume 7 of Appendix A. Benzo(a)pyrene was identified as the only contaminant of concern (COC) for surface soil/surface sediment in this EU. No COCs were identified for subsurface soil. Benzo(a)pyrene was not directly associated with any Rocky Flats site historical source areas but could be associated with vehicle traffic, paving, or pavement degradation prior to closure. The calculated lifetime excess cancer risk for the surface exposure scenario for the wildlife refuge worker for benzo(a)pyrene in the CRA is  $1 \times 10^{-6}$ .

This characterization information is sufficient for DOE to implement appropriate worker health and safety controls for the soil disturbance. Disturbed soils will be regraded in the work area shown in Figure 1 and Figure 2.

The potential for soil migration during and after construction work will be mitigated by implementation of the CDPHE- and EPA-approved *Erosion Control Plan for Rocky Flats Property Central Operable Unit*, DOE-LM/1497-2007, July 2007 (ECP). The ECP includes requirements for stormwater control, best management practices, and revegetation.

The work will not intercept the water table. For Locations 1 and 2, which will remain gravel roads, changes to surface water runoff will be negligible. For Location 3, revegetation and regrading are expected to reduce impacts of runoff.

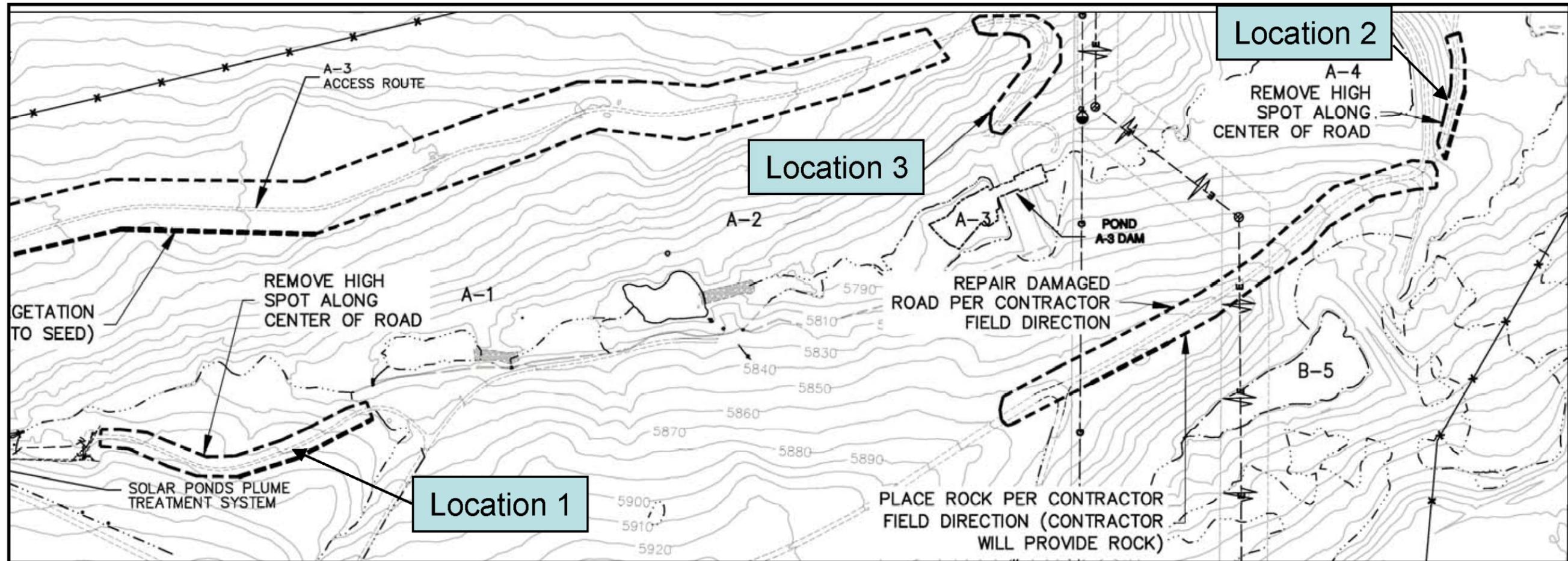
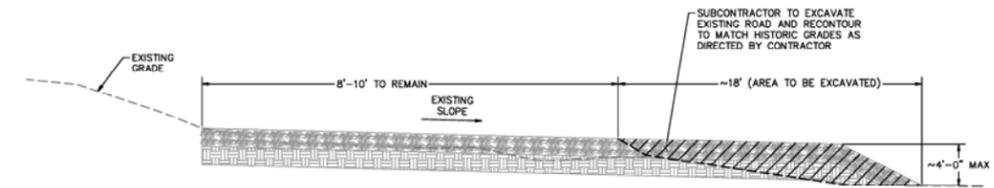
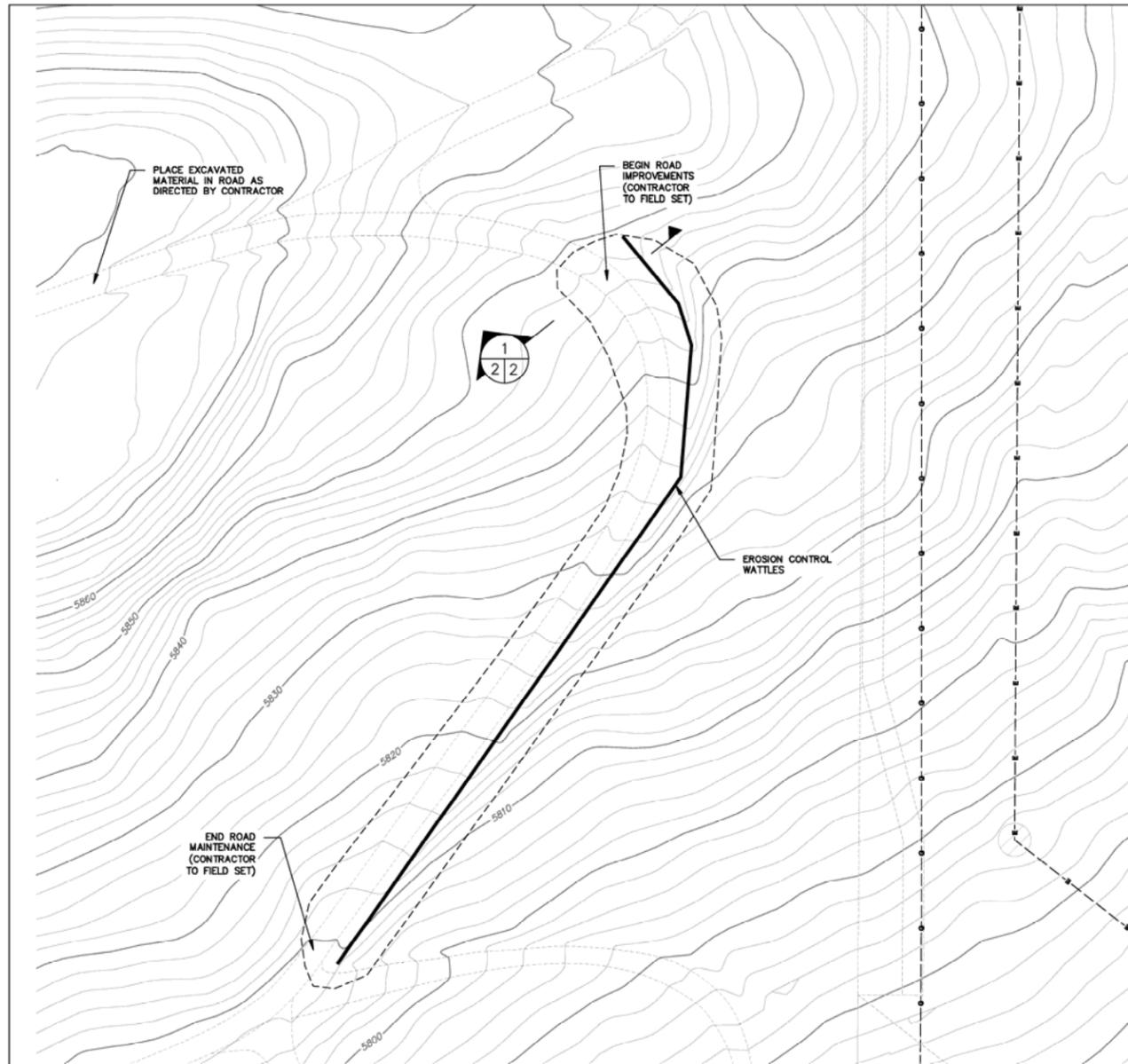
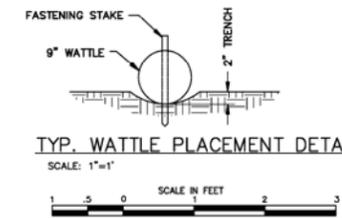


Figure 1. Road Maintenance Locations



1  
2 2  
A-3 ROAD-SECTION  
N.T.S.

NOTE:  
EXCAVATE SPOILS TO SUBGRADE AND  
SPREAD OVER EXISTING ROAD AS  
DIRECTED BY CONTRACTOR



POND A-3 ACCESS: PLAN  
SCALE IN FEET  
30 15 0 30 60 90  
CONTOUR INTERVAL = 2 FEET

REVISION NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	PROJECT NO.	APPROVAL
U.S. DEPARTMENT OF ENERGY GRAND JUNCTION, COLORADO		Work Performed by <b>S.M. Stoller Corporation</b> Under DCE Contract No. DE-AM01-07LM00060				
PROJECT LOCATION ROCKY FLATS SITE GOLDEN, COLORADO		APPROVALS S. PITTON 5/30/12 S. PITTON 5/30/12		ROAD MAINTENANCE - 2012		
PROJECT NUMBER A-3		PROJECT START 5/29/12		A-3 ROAD MAINTENANCE SITE PLAN AND DETAILS		
PROJECT LEAD D. McLAUGHLIN 5/30/12		PROJECT END L. KAISER 5/30/12		PROJECT NO. LTS-111-0056-23-001D		
SITE MANAGER/LEAD L. KAISER 5/30/12		DRAWING NO. 508988-R00-C01-D+		SHEET 2 OF 2		

Figure 2. Road to Former Pond A-3

# ROCKY FLATS SITE REGULATORY CONTACT RECORD

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**Purpose:** Improving treatment at the East Trenches Plume Treatment System (ETPTS) by adding an air stripper component

**Contact Record Approval Date:** October 25, 2012

**Site Contact(s)/Affiliation(s):** Scott Surovchak, U.S. Department of Energy (DOE); John Boylan, Rick DiSalvo, Linda Kaiser, S.M. Stoller Corporation (Stoller)

**Regulatory Contact(s)/Affiliation(s):** Carl Spreng, Colorado Department of Public Health and Environment (CDPHE); Vera Moritz, U.S. Environmental Protection Agency (EPA)

**Date of Consultation Meeting:** October 16, 2012

**Consultation Meeting Participants:** Carl Spreng, CDPHE; Vera Moritz, EPA; Scott Surovchak, DOE; John Boylan, Rick DiSalvo, Linda Kaiser, George Squibb, Stoller

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**Introduction:** Treatment of contaminated groundwater by the ETPTS results in the removal of the vast majority of the of volatile organic compound (VOC) contamination load from the influent groundwater. But treatment typically does not result in complete removal of VOCs and a few VOCs remain in the ETPTS effluent at levels above Rocky Flats Cleanup Agreement (RFLMA) surface water standards in RFLMA Attachment 2, Legacy Management Requirements, Table 1, Surface Water Standards.

The RFLMA Project Coordinators began consulting in June 2010 regarding possible improvements to the VOC removal capability of the ETPTS and the Mound Site Plume Treatment System (MSPTS), which also had effluent concentrations of a few VOCs above RFLMA surface water standards. RFLMA Contact Records (CRs) 2010-07 and 2011-11 document the outcome of consultation regarding the actions to be taken to reduce VOCs at the MSPTS, which were to install a small solar powered air stripper in the effluent manhole and gather performance data that could be used to optimize its effectiveness.

The MSPTS air stripper consists of a sump pump to pump effluent water through commercially available engineered spray nozzles within the MSPTS effluent manhole allowing the VOCs to volatilize into the air in the manhole headspace.

The MSPTS air stripper was installed in early 2011 and its performance and optimization data are being reported in the RFLMA quarterly and annual reports of site surveillance and maintenance activities. The MSPTS air stripper is performing well and optimization is continuing. Appendix F in the *Annual Report of Site Surveillance and Maintenance Activities at the Rocky Flats Site, Calendar Year 2011* (2011 Annual Report) is a paper by John Boylan presented at the Waste Management 2012 Conference, titled “Solar-Powered Air Stripping at the Rocky Flats Site, Colorado”, which summarizes the features and performance testing of the MSPTS air stripper. The 2011 Annual Report is available on the Rocky Flats public website.

**Discussion:** Based on the positive results of the MSPTS air stripper performance, DOE will install a solar powered air stripper at the ETPTS similar to the air stripper at the MSPTS, but it will be installed in the ETPTS influent manhole. This will provide a reduction in the influent groundwater VOC concentrations that are subsequently treated by the ETPTS zero valent iron (ZVI) treatment media, which would potentially allow the current volume of ZVI media to provide adequate VOC treatment so that the effluent concentration are below RFLMA standards.

The PV system for the ETPTS air stripper will be a modular design, intended to be placed on (rather than excavated into) the ground surface near the influent manhole, so construction will involve little soil disturbance. At present, it is believed that the PV system installation will not involve any soil disturbance that would require a RFLMA Soil Disturbance Review Plan (SDRP), as provided in RFLMA Attachment 2, section 4.1. If this turns out not to be the case as the PV system is designed, another CR for the SDRP will be prepared.

Based on DOE's evaluation of the ETPTS influent VOC concentration and flow rate the amount and type of VOCs that will be volatilized to the air by the air stripper meets the Colorado Air Quality Control Regulations permitting exemption criteria.

Data will be collected to help optimize the effectiveness of the air stripping. If these efforts lead to the conclusion that this air stripper does not perform satisfactorily as anticipated based on experience with the MSPTS air stripper to date, the RFLMA Parties will consult on the feasibility of other approaches, such as moving the air stripper to the ETPTS effluent manhole to treat effluent water.

Performance and optimization data for the ETPTS air stripper will be reported in RFLMA quarterly and annual reports of site surveillance and maintenance activities.

**Closeout of Contact Record:** This CR will be closed when the ETPTS air stripper and PV system installation work is completed allowing performance testing and optimization to begin.

**Resolution:** Carl Spreng, CDPHE, approved this CR.

**Contact Record Prepared by:** Rick DiSalvo, John Boylan

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**Distribution:**

Carl Spreng, CDPHE

Scott Surovchak, DOE

Linda Kaiser, Stoller

Rocky Flats Contact Record File

**ROCKY FLATS SITE  
REGULATORY CONTACT RECORD**

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**Purpose:** Minor Modification of *Rocky Flats Legacy Management Agreement* (RFLMA) Attachment 1, "Site Map," and of RFLMA Attachment 2, "Legacy Management Requirements"

**Contact Record Approval Date:** December 7, 2012

**Site Contact(s)/Affiliation(s):** Scott Surovchak, U.S. Department of Energy (DOE); John Boylan, Rick DiSalvo, Linda Kaiser, S.M. Stoller Corporation (Stoller)

**Regulatory Contact(s)/Affiliation(s):** Carl Spreng, Colorado Department of Public Health and Environment (CDPHE); Vera Moritz, U.S. Environmental Protection Agency (EPA)

**Date of Consultation Meeting:** October 16, 2012

**Consultation Meeting Participants:** Carl Spreng, CDPHE; Vera Moritz, EPA; Scott Surovchak, DOE; John Boylan, Rick DiSalvo, Linda Kaiser, George Squibb, Stoller

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**Introduction:** The RFLMA parties agree that RFLMA Attachments 1 and 2 should be modified to reflect changes since the last modifications to these attachments were approved in September 2011. These changes are:

- Completion of breaching the Present Landfill Pond and Pond A-3 dams, resulting in a change to several map figures to show the new surface water configuration as wetlands
- Completion of the installation of the new flumes for surface water monitoring locations WOMPOC and WALPOC and notification to CDPHE and EPA to complete the requirements for these locations to become new Points of Compliance (POCs)
- Completion of the third 5-year review, which necessitates clarifying the scheduling for subsequent reviews
- Deletion of specific vegetation inspections at the landfills as recommended in the third 5-year review
- Recent changes to Regulation #31, "Basic Standards and Methodologies for Surface Water" (5 CCR 1002-31) (Reg. #31) which require updates to RFLMA Attachment 2, Table 1, "Surface Water Standards".

Several items in RFLMA Attachment 2 will also be updated or clarified as part of the modification as editorial changes.

Pursuant to RFLMA paragraph 66, DOE and CDPHE do not consider these items to constitute a significant change from existing requirements of RFLMA, and this contact record provides public notice of the proposed minor modifications. DOE will submit the modifications to CDPHE and EPA for review and approval pursuant to RFLMA paragraph 65.

The specific minor modifications are described in more detail below.

**Discussion:** The RFLMA Attachment 1 map and several RFLMA Attachment 2 subsections, tables, and figures will be modified. Text to be deleted is shown in single-line strikethrough, and new text is in bold. Modifications to tables and figures are summarized.

### *RFLMA Attachment 1*

RFLMA Attachment 1, “Site Map,” will reflect the Present Landfill Pond and Pond A-3 dam breach by changing the footprint and the map features to indicate areas as “wetland/marsh.” Also, “McCaslin Road” and “Indiana St.” labels will replace “County Highway 5” labels to be consistent with road signs.

### *RFLMA Attachment 2*

#### 1. Section 5.1, “Monitoring Surface Water”

Points of Compliance (POCs): Located in Woman and Walnut Creeks. These locations are used to demonstrate compliance with the surface-water standards in Table 1. ~~POC monitoring locations WALPOC and WOMPOC require construction of a new flume in Walnut Creek and a new flume in Woman Creek at the locations shown on Figure 1 and described in Table 2. After each new flume and associated sampling equipment is installed and tested for proper operation, DOE shall notify CDPHE and EPA that construction is complete. WALPOC and WOMPOC will replace GS08 and GS11 on the date of the DOE notification for that location. WOMPOC will replace GS31 on the date of the DOE notification for that location.~~ **WALPOC, which replaced former POCs GS08 and GS11 on September 28, 2011 and WOMPOC, which replaced former POC GS31 on September 9, 2011,** will also replace GS03 and GS01 respectively upon DOE notification to EPA and CDPHE certifying that WALPOC and WOMPOC have been functioning as POCs for at least two years. EPA or CDPHE may extend the two-year period by requiring DOE to submit a modification to this attachment in accordance with RFLMA paragraph 65 if either determines that such modification is necessary to ensure protection of human health and the environment . . .

Consistent with the above, in Table 2, “Water Monitoring Locations and Sampling Criteria,” the rows for locations GS08, GS11, and GS31 will be deleted. Also, in Figure 1, “Water Monitoring at Rocky Flats: RFLMA,” locations GS08, GS11, and GS31 will be deleted.

#### 2. Section 5.3.7, “Ecological Sampling”

~~The Ecological Risk Assessment determined that residual contamination does not represent a significant risk of adverse ecological effects. The CAD/ROD, however, requires that specific additional sampling be conducted to reduce the uncertainties determined in the Ecological Risk Assessment. Additional ecological sampling listed in Table 5 was completed and approved by CDPHE on April 2, 2008.~~

The subsection header will be deleted, and Table 5, “Ecological Sampling,” will also be deleted because no longer needed.

#### 3. Section 7.3, “CERCLA 5-Year Review”

A statutory 5-year review is required under CERCLA for the Central OU because the selected remedy will result in hazardous substances, pollutants or contaminants remaining above levels that allow for unrestricted use and unlimited exposure. DOE will prepare the 5-year review **report** consistent with EPA-OSWER Directive 9355.7-03B-P (or subsequent EPA directives), as applicable to Rocky Flats. DOE will submit the 5-year review **report** to EPA ~~by August 1, 2007~~ **upon a mutually agreeable schedule determined by the RFLMA Project Coordinators in accordance with the consultative process in RFLMA paragraph 11**, so as to allow for EPA ~~approval by September 17, 2007~~ **concurrency within five years of the preceding 5-year review report** ~~prepare subsequent reviews at five-year intervals from the aforementioned date, until such time as EPA determines that CERCLA periodic reviews are no longer required . . .~~

4. Table 1, “Surface Water Standards,” (RFLMA standards) are remedy performance standards derived from and based on standards promulgated by the Colorado Water Quality Control Commission (WQCC). The WQCC recently approved changes to the standards for some volatile organic compounds in Reg. #31, which are also RFLMA standards. Table 1 will be modified to delete the current standards and replace them with the new Reg. #31 standards, as follows:

Analyte	Current RFLMA standard (mg/L)	New RFLMA Standard (mg/L)
Acrylamide	7.80E-6	2.20E-5
Carbon tetrachloride	2.30E-4	4.30E-4
1,2-dichloroethene ( <i>cis</i> )	7.00E-2	1.40E-2 to 7.00E-2
1,4-dioxane	3.20E-3	3.50E-4
Hexachloroethane	4.00E-4	5.00E-4
Nitrobenzene	3.50E-3	1.40E-2
Pentachlorophenol	2.70E-4	8.00E-5
Tetrachloroethene	6.90E-4	5.00E-3

Table 1 footnotes will be modified as follows:

- [c] and [h]: Deleted because the footnotes referenced Temporary Modifications that expired at the end of 2009. Both footnotes will be marked “Reserved.”
- [e]: Revised to clarify that the WQCC-promulgated standard for unionized ammonia applies to Segment 4a only.
- [i]: Clarified that nitrate and nitrite standards are “as nitrogen.”
- [m]: Deleted because the footnote refers to the March 22, 2012, effective date for the current RFLMA standard for 1,4-dioxane (3.20E-3 mg/L). The footnote will be marked as “Reserved.”
- [n]: Added 1,2-dichloroethene (*cis*) to specify that the higher number in the range is to be used as the applicable or corresponding Table 1 standard in the flowcharts shown in RFLMA, Attachment 2, Figures 7 through 11. Arsenic is currently the only Table 1 analyte in footnote [n] based on a Reg. #31 standard that is a range of values.

5. Table 3, “Present and Original Landfill Inspection and Maintenance Requirements,” will be modified to remove landfill-specific vegetation and inspection requirements as recommended in the third 5-year review report. Landfill vegetation meets success criteria, and it will be monitored and managed under the site-wide vegetation and revegetation plans. Table 3 will also be modified

to change the Present Landfill reference from “pond monitoring” to “downstream monitoring” because the Present Landfill Pond dam was breached in 2012.

Minor modifications to the Original Landfill and Present Landfill monitoring and maintenance plans will also be proposed to update the vegetation monitoring requirements. The outcome of RFLMA party consultation regarding the proposed modifications to these plans will be included in separate contact records.

6. Figure 1 will be modified to reflect the Present Landfill Pond and Pond A-3 dam breach by changing the footprint and the map features to indicate areas as “wetland/marsh.” Also, the surface water sampling locations currently marked as Pond A4, Pond B5, and Pond C2 on Figure 1 and currently listed the same way in Table 2 will be changed to match their location codes in the soil/water database, which are “A4 Pond,” “B5 Pond,” and “C2 Pond,” This change is to avoid any confusion in matching the location to the monitoring data in the quarterly and annual reports of surveillance and maintenance activities.
7. Figure 4, “Subsurface Features – Representative Pits and Trenches,” will be modified to reflect the Present Landfill Pond and Pond A-3 dam breach by changing the footprint and the map features to indicate areas as “wetland/marsh.” Also, the Original Landfill and the Present Landfill locations will be added to Figure 4 for clarity because their locations are not currently depicted on any RFLMA maps. The figure title will be changed to “Subsurface Features – Pits, Trenches, and Closed Landfills.”

**Closeout of Contact Record:** This contact record will be closed when the minor modifications to RFLMA Attachment 1 and RFLMA Attachment 2 are approved.

**Resolution:** Carl Spreng, CDPHE, approved this contact record.

**Contact Record Prepared by:** Rick DiSalvo

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**Distribution:**

Carl Spreng, CDPHE  
Scott Surovchak, DOE  
Linda Kaiser, Stoller  
Rocky Flats Contact Record File