Report for 2014, due April 1, 2015

US General Services Administration
Public Buildings Service
Rocky Mountain Region
Denver Federal Center

Check box if this is a new name, address, etc.

A. Permittee Information

Permittee:	United States General Services Administration Public Buildings Service	☐
Mailing Address:	DFC Service Center 1 Denver Federal Center Gate 2, Building 41, Dock E17A, Room 177 P.O. Box 25546 Denver, CO 80225-0546	☐
Responsible Official:	Stephanie Downs, Director, DFC Service Center	☐
Contact Phone Number:	(303) 236-2547	☐

Permit No.: COR-042004

Have any areas been added to the MS4 (annexation/other legal means)? ☐YES ☒NO
If YES, include an updated map.

Note: The acreage of the DFC was listed in the Statement of Basis/MS4 Permit, signed October 20, 2011, as "about 670 acres." Portions of the property were transferred to the City of Lakewood/St Anthony's Hospital in September 2007. Based on an exterior perimeter survey conducted August 17, 2012, the total acreage of the DFC is 611.5 acres.

B. Reporting Period: January 1 – December 31, 2014

C. Construction Program Contact

Have you assigned an appropriate contact person/work unit to address questions regarding your municipality's construction and post-construction requirements? ☒YES ☐NO

If Yes:	With regard to stormwater related construction and Post-construction issues: Bill Fieselman
Position/work group title:	Environmental Programs Group
Contact phone number:	(303) 236-2516
Email:	william.fieselman@gsa.gov

D. Inspection and Monitoring Results

BMP	Status Including Dates & Numeric Measures	Changes?
Sec. 1.3.3.2 - The monthly inspection results taken during the first permit year and the annual sampling results shall be reported in the MS4 Annual Report described in Part 3.3	The monthly inspection results (collected during the 1st year of this permit) showed that 5 of the 13 outfalls monitored discharge non-stormwater. Per permit requirements, DFC began monitoring these 5 outfalls for the constituents listed in Section 1.3.3.1 of the permit. Attachment 1 provides the results of this monitoring. GSA has also implemented monthly inspection of outfalls along the Agricultural Ditch were it passes through the DFC. Monitoring is ongoing but to date, there have been no observed discharges from these outfalls.	Yes

E. Implementation of Storm Water Management Plan

1. Implementation status of Storm Water Management Plan.

General Requirements

BMP	Status Including Dates & Numeric Measures	Changes?
Sec. 2.1.1 - The permittee must continue to develop, implement, and enforce a SWMP. The SWMP must include management practices, control techniques, system design, engineering methods, and other provisions the permittee or EPA determines appropriate for the control of pollutants in discharges from the MS4.	A new SWMP was developed. In July 2013 the SWMP was submitted to EPA for any input they may have on the document. Implementation of the SWMP continued while soliciting input. In March 2014, EPA provided minor comments on the SWMP and GSA modified the SWMP to address those comments. GSA continues to actively implement the SWMP.	No

BMP	Status Including Dates & Numeric Measures	Changes?
Sec. 2.1.2 - The permittee must fully implement the SWMP; including meeting its measurable goals. Implementation should take place in approximate equal intervals throughout the permit and progress will be tracked in the annual report (see Part 3.3).	GSA continues to actively implement all phases of the SWMP.	Yes
Sec. 2.1.3 - The SWMP must include each of the minimum control measures of Parts 2.2-2.7.	The new SWMP includes sections on each of the minimum control measures: Public Education and Outreach on Stormwater Impacts, Public Involvement and Participation, Illicit Discharge Detection and Elimination, Construction Site Stormwater Runoff Control, Post-construction Stormwater Management for New Development and Redevelopment, and Pollution Prevention and Good Housekeeping for Municipal Operations.	No
Sec. 2.1.4 - The permittee must conduct an annual review of the SWMP in conjunction with preparation of the annual report required under Part 3.3.	An annual review of the SWMP was conducted in 2014 and will be conducted annually for the remaining permit term.	No

Area #1. Public Education and Outreach on Stormwater Impacts

BMP	Status Including Dates & Numeric Measures	Changes?
Sec. 2.2.7.1 - A description of the methods, frequency, type, and target audience of stormwater outreach performed during the permit term.	Informational brochure updated & distributed to GSA & contract personnel involved in building & grounds management, operations & maintenance. Brochure is distributed annually. Target audience is the GSA employees and tenant agencies that occupy the DFC.	No

BMP	Status Including Dates & Numeric Measures	Changes?
Sec. 2.2.7.2 - A copy or representation of public outreach materials provided to the target audience(s).	See Attachment 2	No
Sec. 2.2.7.3 - An estimation of the number of people expected to be reached by the program over each year of the permit term.	Information is distributed via building managers, to the tenant agencies. The estimated daytime population of the DFC is 6,000.	No
Sec. 2.2.7.4 - The name or title of the person(s) responsible for coordination and implementation of the stormwater public education and outreach program.	Bill Fieselman,CPG DFC Environmental Programs Group.	No
Storm Drain Catch Basin Marking: Mark storm drain catch basins, as needed.	All storm drain catch basin marking was completed in 2008. Most are in good condition, and markers are continually replaced when they become weathered or damaged. The record of storm drain marker replacement is kept in the SWMP, Appendix C.	No

Area #2. Public Involvement and Participation

BMP	Status Including Dates & Numeric Measures	Changes?
Sec. 2.3.5.1 - Documentation of any events or other activities to clean up MS4 receiving waters.	See Attachment 3 Also, silt fence and straw wattle BMPs were placed along a portion of the Agricultural Ditch during a project conducted in 2011. These BMPs had been abandoned after completion of the project. During the 2014 reporting period all of the abandoned BMPs in this area were removed and miscellaneous trash picked up along this section of the ditch.	Yes
Sec. 2.3.5.2 - Documentation of any volunteer activities conducted to help actively engage residents and personnel at the Denver Federal Center in understanding water resources and how their activities can affect water quality.	During the summer months, GSA sponsors a Farmers Market on the DFC one day per week. The Farmers Market is open to the general public as well as all personnel working on the DFC. GSA has a booth at the Farmers Market, which is	No

BMP	Status Including Dates & Numeric Measures	Changes?
	staffed by volunteers, to disseminate pertinent information about the DFC to interested parties. The same information is distributed at the Farmers Market as that described in Section 2.2.7.1 above.	
Sec. 2.3.5.3 - The name or title of the person(s) responsible for coordination and implementation of the stormwater public education and outreach program.	Bill Fieselman,CPG DFC Environmental Programs Group	No
Storm Water Hotline: Maintain and update as necessary, the hotline material and procedures.	The hotline contact phone number has been added to the Stormwater brochure	No

Area #3. Illicit Discharge Detection and Elimination

BMP	Status Including Dates & Numeric Measures	Changes?
Sec. 2.4.10.1 - A description of the program used to detect and eliminate illicit discharges into the MS4; including procedures for detection, identification of sources, and removal of non-stormwater discharges from the storm sewer system.	The BMPs implemented to help detect and eliminate illicit discharges into the MS4 include: • Maintain existing storm sewer map. • Plug or reroute floor drains connected to the storm sewer as they are discovered. See Attachment 3. • Perform annual dry-weather screening survey on storm sewer outfalls for the presence of non-stormwater discharges. • Perform monthly screening survey of outfalls along the Agricultural Ditch for the presence of non-stormwater discharges. • Development of contract language prohibiting non-storm water discharges • Assess non-storm water discharges as they are discovered.	Yes

BMP	Status Including Dates & Numeric Measures	Changes?
Sec. 2.4.10.2 - A description of the location and method of dry weather screening performed.	The dry weather screening is performed by physically visiting each stormwater outfall where it discharges to McIntyre Gulch. The screening is normally conducted in August of each year, after a minimum of no measurable precipitation event 96 hours prior to the screening event. At each outfall, the discharge rate (if any) is measured and dissolved oxygen, conductivity, temperature, pH, salinity and turbidity are measured using portable field instrumentation. Attachment 4 - Dry Weather Screening Results, presents the results of this screening.	No
Sec. 2.4.10.3 - A description of illicit discharges located and all actions taken to eliminate sources of illicit discharges.	See Attachment 3. Also, DFC is in the process of evaluating the constant flow from two of the storm sewer outfalls. One is Outfall No. 02OUT1005C (Attachment 4). The flow has been traced upstream to an area on the west side of Building 20. This storm sewer line was video surveyed but proved to be inconclusive as flow was still observed at a point where the video camera could no longer advance up the line. It is believed that the storm sewer line may be encountering the groundwater table and the observed flow is actually groundwater. Investigation into this flow continues. The second incidence of constant flow from a storm sewer outfall is Outfall No. 02OUT1009C (Attachment 4). The majority of flow at this outfall is due to discharge from the onsite groundwater	No

BMP	Status Including Dates & Numeric Measures	Changes?
	treatment system (which is covered under a separate NPDES permit). However, it appears that there is more flow at the outfall than is being discharged by the treatment system. Again, it is believed that the storm sewer line may be encountering the groundwater table and the additional observed flow is comprised of groundwater. DFC is presently evaluating the difference between discharge from the treatment system and flow at the outfall to determine the source of the discrepancy. At this time there are no other known illicit discharges to the MS4.	
Sec. 2.4.10.4 - A description of training materials used and the frequency at which training was provided to the target audience(s) on how to respond to reports of illicit discharges.	Stormwater Management Training consists of a 1 hour video training session and is provided annually. See Attachment 5 for 2014 attendees. The training can be viewed at the web address shown on page 13 of this annual report.	No
Sec. 2.4.10.5 - A description or citation of the established ordinance or other regulatory mechanism used to prohibit illicit discharges into the MS4.	As negotiated between GSA and EPA in the new DFC permit (CO-R 042004), Section 2.4.2 of the permit states: "Effectively prohibit, through regulatory mechanisms available to GSA to prohibit illicit discharges and illegal dumping to the MS4 which includes, but is not limited to, notifying EPA and entering into a Federal Facility Compliance Agreements with the federal agencies." The purpose for this type of regulatory mechanism to prohibit illicit discharges into the MS4 is because GSA has no means of enacting enforcement actions on its tenants (i.e., other government agencies). If illicit discharges	No

BMP	Status Including Dates & Numeric Measures	Changes?
	are identified by GSA, the responsible party will be required (through contractual methods) to appropriately respond to the discharge. If that party does not respond, EPA will be notified.	
Sec. 2.4.10.6 - A copy or excerpt from the information management system used to track illicit discharges.	See Attachment 6 No illicit discharges occurred during the 2014 reporting period.	No
Sec. 2.4.10.7 - A description of the categories of non-stormwater discharges evaluated as potentially being significant contributors of pollutants to the MS4 and any local controls placed on these discharges.	Work on this requirement is ongoing. Also, see work described in Attachment 3.	Yes
Sec. 2.4.10.8 - A description of the schedule and/or progress in creating a complete storm sewer map in the Denver Federal Center GIS.	A complete storm sewer map was developed prior to 2014. However, parts of the map were contained in electronic CAD files and parts of the map are contained in electronic GIS files. In 2014, work was performed to merge these two sets of files into one GIS based storm sewer map for the entire facility. The GIS map has undergone numerous reviews and subsequent modifications. A final map is expected in early 2015. This map is a living document and is anticipated to be updated on a continuing basis.	Yes

Area #4. Construction Site Storm Water Control

BMP	Status Including Dates & Numeric Measures	Changes?
Sec. 2.5.9.1 - A description of construction activities which disturbed greater than or equal to 5,000 square feet of land at the DFC during the term of this permit.	During the 2014 term of this permit, only one construction activity took place on the DFC that disturbed greater than 5,000 square feet of land. It should be noted that the land was not "disturbed" as it would be during excavation and subsequent construction. Rather a 1.0 foot thick vegetated soil cap was placed over an existing soil surface in	Yes

BMP	Status Including Dates & Numeric Measures	Changes?
	the northwest corner of the DFC. The cap covered an approximately 441,000 square foot area and was the corrective measure required by the CDPHE for Investigation Area (IA) 08. This work will be documented in: *Corrective Measures Completion Report, IA08 Landfill Cap, Denver Federal Center, Denver, Colorado. Date Pending. Hudspeth & Associates, Inc.*	
Sec. 2.5.9.2 - A description or citation of the established ordinance or other regulatory mechanism used to require erosion and sediment controls.	The GSA Region 8 Stormwater Management Environmental Procedure (See Attachment 7) is included as a requirement in every DFC contract that has the potential to disturb greater than 5,000 square feet of land surface and impact stormwater runoff. The DFC Dig Permit procedure is required for all projects that disturb any amount of soil. As part of this Dig Permit procedure, appropriate erosion control BMPs are also required for soil disturbance of less than 5,000 square feet.	No
Sec. 2.5.9.3 - A description of the sanctions and enforcement mechanisms the DFC uses to ensure that construction activities disturbing equal to or greater than 5,000 square feet of land are in compliance with the terms of the CGP.	See Attachment 7 - GSA Region 8 Stormwater Management Environmental Procedure. Also, the stormwater runoff controls are included in the contract. For appropriate size contracts the contractor must apply for EPA Notice of Intent (NOI). If the contractor does not comply with contract requirements, a show cause letter or termination of the contract may take place.	No
Sec. 2.5.9.4 - A description of the procedures for site plan review, including the review of pre-	For projects disturbing greater than 5,000 square feet of land surface GSA requires that EISA requirements apply. The entire	No

BMP	Status Including Dates & Numeric Measures	Changes?
construction site plans, which incorporate consideration of potential water quality impacts and applicable contract language.	DFC stormwater flow regime has been modeled to assist with this. When contractors submit design documents to GSA, the design review incorporates evaluation of the MS4/stormwater design. For projects where the design exceeds GSA DFC in-house expertise, an independent third-party is contracted to review the design.	
Sec. 2.5.9.5 - A description of the procedures for receipt and consideration of information submitted by the public.	An emergency response hotline (303-236-2911) already exists at the DFC for reporting spills, security issues, or anything else deemed worthy of investigation. GSA EPG personnel educate DFC employees through use of the storm water brochure that the existing hotline can also be used for reporting situations of concern with respect to storm water management at the DFC. When a hotline call is received, security personnel are dispatched to investigate. In addition, security personnel will be instructed to contact GSA EPG personnel regarding any calls received to the hotline that pertain to environmental issues, such as dumping, erosion problems, leaking vehicles, etc. Each call to the hotline is documented and GSA EPG personnel will follow up on each call.	No
Sec. 2.5.9.6 - A description of the procedures for site inspection, including how sites will be prioritized for inspection, including documentation of the frequency of site inspections and methods for prioritizing site inspections.	GSA personnel have developed procedures to prioritize sites for inspection, and assign responsibility for inspections of construction sites to ensure that contractors are correctly and fully implementing the BMPs in their approved E&SC plans. It should be noted that there is usually not enough construction activity taking place at one time to warrant prioritizing their inspection. Rather, inspections	No

BMP	Status Including Dates & Numeric Measures	Changes?
	are performed on the one (or occasionally more than one) construction site(s), as necessary. All inspections are documented, and completed inspection forms are maintained so that they are readily available for review. The Construction Site Inspection Form is used to document inspections. Completed forms are maintained within the SWMP. Work is underway to incorporate the Stormwater electronic files into the SEMS.	
Sec. 2.5.9.7 - Documentation of annual training provided to contracting office representatives, regarding the maintenance and installation of BMPs for construction stormwater control and the terms of the construction stormwater permit.	See Attachment 5 Documentation of Annual Training.	No
Sec. 2.5.9.8 - The name or title of the person(s) responsible for coordination and implementation of the construction site runoff control program.	Bill Fieselman,CPG DFC Environmental Programs Group.	No

Area #5. Post-Construction Storm Water Management for New Development and Redevelopment

BMP	Status Including Dates & Numeric Measures	Changes?
Sec. 2.6.9.1 - A description of the program to ensure that hydrologic endpoints are evaluated for new development and re-development projects as required in Part 2.6.1 and the mechanism used to review the adequacy of permanent stormwater control measures.	See Attachment 7 - GSA Region 8 Stormwater Management Environmental Procedure (Section 6.3).	No
Sec. 2.6.9.2 - A description of the review procedures and the assumptions provided to ensure the long-term operation and maintenance of permanent stormwater control measures, including an excerpt from any data management system that includes maintenance requirements and schedules for permanent stormwater control measures installed during the year.	See Attachment 7 - GSA Region 8 Stormwater Management Environmental Procedure (Section 6.3j).	No

BMP	Status Including Dates & Numeric Measures	Changes?
Sec. 2.6.9.3 - A description of the process used to ensure that all DFC contracts initiated after the effective date of the permit contain language which requires the installation of permanent stormwater control measures and an excerpt of applicable contract language.	When a GSA scope of work (SOW) is developed for a project, the Contracting Officer is required to attach all applicable procedures to the SOW. When the project is awarded; the SOW and all attachments become part of the contract requirements. For projects that disturb soil or in any way have the potential to impact stormwater discharge, the GSA Region 8 Stormwater Management Environmental Procedure (Attachment 7) is included. This process was initiated in 2010 and continues to be updated as needed (latest update is February 2011. Section 6.3 of the Stormwater Management Environmental Procedure discusses construction site stormwater design, runoff control and post construction stormwater management. GSA has no control over contracting performed by other agencies on the DFC.	No
Sec. 2.6.9.4 - A description of any activities to include requirements or planning for permanent stormwater control measures in the natural resource plan.	The DFC does not have a natural resource plan. It does have a sitewide Master Plan which has gone through NEPA review as an EA. This plan documents the future development of the site and includes stormwater control.	No
Sec. 2.6.9.5- -The name or title of the person(s) responsible for coordination and implementation of the post-construction stormwater management program.	Bill Fieselman,CPG DFC Environmental Programs Group	No

Area #6. Pollution Prevention/Good Housekeeping for Municipal Operations
Note: All best management practices covered in Area #6: Pollution Prevention/Good Housekeeping BMP's for Municipal Operations have been incorporated into the DFC Sustainability and Environmental Management System.

BMP	Status Including Dates & Numeric Measures	Changes?
Sec. 2.7.11.1 - A description of the contents and frequency of the training program (see Part 2.7.1) for municipal personnel and a list of the personnel or positions trained during the term of the permit.	The DFC Stormwater Management Training is provided via online video. See the web address shown on page 13 of this annual report. This training is required annually. See Attachment 5 Documentation of Annual Training.	Yes
Sec. 2.7.11.2 - A description of the evaluation performed on the street cleaning operations, catch basin cleaning operations, and street sanding/salt practices and any measures taken as a result of the evaluation to minimize negative impacts to water quality.	The DFC grounds maintenance contract was re-competed and awarded during the 2013 permit year. The new contract requires that the contractor: • Perform street sweeping of the entire DFC twice per year. • Clean out all storm water catch basins in need of cleaning once per year, with an option to perform a second cleaning per year if needed. • Conduct annual training amongst their employees for street sanding/de-icer application; and pesticide/herbicide application, and • Submit records of the street sweeping and catch basin cleaning events; and the street sanding/de-icer and pesticide/herbicide application training events, to the DFC Contracting Officers Representative (COR), who will provide them to the Environmental Programs Group (EPG) for inclusion in the SWMP and MS4 file documentation.	Yes
Sec. 2.7.11.3 - A description of how maintenance activities are tracked for permanent stormwater control measures.	See response to Section 2.7.11.2, above.	Yes
Hazardous Material Storage: Maintain existing procedures and update, as necessary thereby meeting all RCRA requirements. Evaluate program effectiveness and plan for the next term.	Maintained and Current. The DFC Hazardous Waste Program was audited by CDPHE in March 2014, with no violations found.	No

BMP	Status Including Dates & Numeric Measures	Changes?
Spill Response: Update and maintain both the SPCC plan and the Emergency Response Plan, as necessary. Evaluate program effectiveness and plan for the next term.	The RCRA Emergency Response Procedures document (for the hazardous waste storage areas) is scheduled to be updated in early 2015. The SPCC plan was last updated in November 2011.	No

Training video web address: http://www.gsa.gov/portal/content/114575#videoContainer (in the bottom 1/3rd of the page click on "Stormwater Training"

General Requirements

BMP	Status Including Dates & Numeric Measures	Changes?
3.1.1 - Not later than three years from the effective date of this permit, the permittee must develop a program to evaluate the water quality in McIntyre Gulch, as it both enters and leaves the DFC. This program shall at a minimum include evaluations of streambank stabilization, and water quality. The water quality monitoring program may include indicators such as chemical monitoring, assessment of macroinvertebrates or other aquatic life, or watershed assessment of river stability and sediment supply, provided that the monitoring program provides meaningful data to evaluate the effectiveness of the stormwater management program. The permittee is responsible for evaluating data for analysis of trends;	A work plan has been developed to evaluate the water quality in McIntyre Gulch, titled *McIntyre Gulch Surface Water Sediment Monitoring, Denver Federal Center, Denver, Colorado.*	Yes
3.1.2 - The permittee must send a description of the water quality monitoring program to EPA with the Annual Report for year 3 of this permit term. Programs will be assessed by EPA Region 8 to determine whether the program meets the goals of this permit and whether the data is being collected and reported in compliance with EPA test procedures approved under 40 CFR Part 136; and	See above status. The work plan described above was submitted to EPA on February 26, 2015 and is presently being reviewed by EPA. GSA expects to receive comments on this work plan in the near future. GSA will then address those comments, finalize the work plan and after receiving approval from EPA, begin implementation of the work plan.	Yes
3.1.3 - The permittee must develop a vision and/or design guidelines for McIntyre Gulch which define how it can be re-configured,	See Attachment 9.	Yes

BMP	Status Including Dates & Numeric Measures	Changes?
conserved, and managed as a high quality receiving water and as an amenity for the Denver Federal Center within 3 years of the effective date of this permit. This could include a vision for how to reconstruct channels to include meanders, drop structures, and to utilize and enhance the function of the existing wetlands. This could also include a vision of how to connect McIntyre Gulch to existing pedestrian corridors or to provide alternative access points so it could be utilized as a recreational amenity for the Denver Federal Center if so desired.		

2. Results

Results of information collected and analyzed, if any, during the reporting period:

See Attachments 1, 3 and 4.

3. Inspections and Enforcement

A summary of the number and nature of inspections and formal enforcement actions performed.

Area #4. Construction Site Storm Water Control BMPs: 28 DFC Excavation permits with storm water management requirements were issued in 2014. Excavation sites are inspected by EPG personnel or the Custodial Project Manager. When major soil (1+acre) disturbance occurs, a Storm Water Pollution Prevention Plan is required and a NOI filed with the EPA. No NOI's were filed during the 2014 reporting period.

Area #6. Pollution Prevention/Good Housekeeping BMPs: The CDPHE audited our Hazardous Waste program in March 2014. GSA received a certificate stating that no violations were found.

4. Proposed Changes to the Storm Water Management Plan.

Annual review of the DFC SEMS Environmental procedures in order to ensure that these align with SEMS requirements and our sustainability objectives. Our Stormwater BMPs form part of our SEMS requirements, goals and targets relating to stormwater leaving this facility, which are:

1. No non-stormwater discharges
2. Improvement in the quality of stormwater leaving this facility
3. Reduction in the volume of stormwater leaving this facility

Our updated Stormwater Management Plan (SWMP) was submitted to EPA in 2013 and was finalized in 2014.

Sale of 65 acres of DFC land for the St Anthony Hospital and RTD projects resulted in capping the storm sewer lines in those areas. However, the storm sewer line down Center Avenue from the old boundary to our new boundary has been retained, as it is one of the DFCs main storm sewer lines. The two catch basins located between the old and new boundary fences now fall under the jurisdiction of the City of Lakewood, introducing a potential for external party impact on the DFC stormwater.

5. **Activities for Next Reporting Cycle.** The next reporting cycle will be all of calendar year 2015 and the Annual Report will be due on April 1, 2016.

Area #1. Public Education and Outreach on Stormwater Impacts

- Educational Materials: Present annual storm water training to DFC building managers and project managers. The DFC Stormwater Management Training is provided via online video. This training video can be viewed at: http://www.gsa.gov/portal/content/114575#videoContainer (in the bottom 1/3rd of the page click on "Stormwater Training". This training is required annually. GSA is attempting to implement the requirement that all personnel obtaining a badge to enter the DFC will need to complete the DFC Stormwater Management Training.
- Distribute DFC Stormwater Informational brochure electronically to all building and project managers so they can forward on to their customers.
- In early 2015, GSA will provide and document training to all planning staff and contracting officers to learn about Low Impact Development (LID) practices, green infrastructure practices, and to communicate the expectations for meeting pre-development hydrology within the context of the Energy and Independence Security Act of 2007

Area #2. Public Involvement and Participation

- Storm Water Hotline: Maintain/update as necessary the hotline material/procedures. Evaluate program effectiveness and plan for next permit term.
- Employee Input into the Storm Water Program: GSA EPG will continue to review the Storm Water Management Plan and solicit comments from building and agency personnel for changes to the SWMP.

Area #3. Illicit Discharge Detection and Elimination

- Maintain Existing Storm Sewer Map: Annually review, to ensure that changes to the DFC Storm Sewer System are incorporated into the Storm Sewer map.
- Perform Annual Dry-Weather Survey on Storm Water Outfalls: Document dry weather inspections of all outfalls. Inspect all MS4 storm sewer outfalls existing as of the effective date of the new MS4 permit and determine if there is a discharge and estimate the flow during the inspections.
- Assess Non-Storm Water Discharges: Assess whether the SWMP will need to be modified to address any non-storm water discharge.

Area #4. Construction Site Storm Water Runoff Control

- Maintain Contract Language Requiring Proper Construction Site Waste Control and Disposal: Ensure implementation of any updates, following annual review of SEMS procedures and sustainability performance.
- Monitor Construction Site Inspection Procedures: Monitor, review and update if necessary, inspection procedures, records and any follow-up actions required.

Area #5. Post-Construction Stormwater Management for New Development and Redevelopment

- Contract Language Requiring Post-Construction Storm Water Management: Monitor the implementation of updates in contract language. Record reviews of project designs for conformance with criteria. Evaluate program effectiveness and plan for next permit term.

Area #6. Pollution Prevention and Good Housekeeping for Municipal Operations

- Storm Water Management Training: Conduct annual refresher training for DFC Operations & Maintenance personnel, maintaining written records of training material and attendance in accordance with SEMS requirements. All training materials will be made available on the GSA website. Evaluate program effectiveness and plan for next permit term.
- Landscaping and Lawn Care – Maintain and update existing program, as necessary. Evaluate program effectiveness and plan for next permit term.
- Road and Parking Lot Deicing – Maintain and update existing program, as necessary. Evaluate program effectiveness and plan for next permit term.
- Street and Parking Lot Sweeping – Maintain and update existing procedures as needed. Evaluate program effectiveness and plan for next permit term.
- Hazardous Material Storage - Maintain and update existing procedures as needed. Evaluate program effectiveness and plan for next permit term.
- Spill Response - Maintain and update existing procedures as needed. Evaluate program effectiveness and plan for next permit term.

Area #7. General Requirements

- Upon approval by EPA, GSA will implement the *McIntyre Gulch Surface Water Sediment Monitoring Work Plan*. The purpose of this work plan is to evaluate the water quality in McIntyre Gulch, as it both enters and leaves the DFC. This program will include evaluations of streambank stabilization, and water quality.

6. Notice of Program Element Operation by a Second Party

As of the date of this report, no other governmental entity is responsible for satisfying any part of these permit obligations.

F. Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Permittee (legally responsible person)		Title	Date Signed
Stephanie Downs	Stephanie Downs	Director, DFC Service Center	4-1-15

ATTACHMENT 1

Outfall Monitoring Analytical Results

Table 4-2

Field Measurements
August 2014
Denver Federal Center
Lakewood, Colorado

Site ID	Date	pH (S.U.)	SC (umhos/cm)	Temp (C)	DO (mg/L)	Eh (millivolts)	Turbidity (NTU)	Round
02OUT1001C	08/14/14	7.20	258	15.8	7.0	195.5	8.5	IA1614Q3
02OUT1005C	08/14/14	7.98	1,567	18.0	7.4	170.0	1.6	
02OUT1009C	08/14/14	7.93	1,748	18.4	6.6	149.0	1.1	
02OUT1011C	08/14/14	8.06	1,465	17.3	8.2	146.2	0.9	
04D04BH05A	08/11/14	7.30	2,320	17.0	6.0	145.1	124.6	
04D05BC02A	08/12/14	8.00	2,012	15.5	4.9	211.2	58.9	
04DIN04BH07A	08/12/14	8.85	1,566	18.8	6.5	176.2	200.0	
101SW01A	08/14/14	7.90	1,850	25.3	8.8	109.4	2.6	
1302BH42A	08/21/14	6.65	1,612	13.8	1.1	190.0	23.5	
1302BH42B	08/21/14	6.68	1,624	13.3	1.4	181.1	200.0	
1302BH44A	08/21/14	7.43	1,436	16.2	1.5	136.6	20.7	
1302BH44B	08/21/14	7.04	1,362	14.3	1.4	144.5	59.4	
1302BH45A	08/20/14	7.32	1,413	16.9	1.5	152.2	113.5	
1302BH45B	08/20/14	7.25	1,260	16.8	0.6	158.0	71.9	
14OUT3001C	08/14/14	7.99	1,521	17.9	7.8	176.3	8.8	
1603SP01	08/14/14	6.93	1,997	22.1	1.4	958.2	NM	
1901BH03A	08/13/14	7.12	1,373	15.6	4.7	189.3	200.0	
4F07BH22A	08/13/14	7.58	1,365	15.1	2.8	167.1	19.4	
903BH01A	08/12/14	8.03	1,882	14.6	3.1	198.4	15.8	
B04SW01	08/14/14	7.59	315	20.5	6.1	152.4	6.5	
B-2	08/11/14	7.63	1,484	16.3	2.1	81.9	127.0	
B-3	08/08/14	7.66	1,367	15.4	1.3	57.3	16.4	
B-6	08/08/14	9.43	1,039	17.0	2.1	18.0	14.3	
BBT9504	08/14/14	7.14	2,365	15.6	1.4	132.3	64.5	
C1-I2	08/18/14	10.47	809	13.7	2.0	-63.6	3.9	

GSA

Appendix I, Section 2: Table 1
Surface Water Analytical Results

August 2014
Denver Federal Center, Lakewood Colorado

Method	Parameter	Site ID / Date / Fraction / Units	02OUT1001C 8/14/2014 SA	02OUT1005C 8/14/2014 SA	02OUT1009C 8/14/2014 SA	02OUT1011C 8/14/2014 SA	14OUT3001C 8/14/2014 SA	—	—	—
EPA 8260B	1,1,1-Trichloroethane	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	1,1,2,2-Tetrachloroethane	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	1,1,2-Trichloroethane	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	1,1-Dichloroethane	T ug/L	<1 U	0.22 FJ	<1 U	<1 U	<1 U	-	-	-
	1,1-Dichloroethene	T ug/L	<1 U	0.4 FJ	<1 U	<1 U	<1 U	-	-	-
	1,2-Dichloroethane	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	1,2-Dichloropropane	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	1,3-Dichloropropene	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	2-Chloroethyl vinyl ether	T ug/L	<3 U	<3 U	<3 U	<3 U	<3 U	-	-	-
	Acrolein	T ug/L	<20 U	<20 U	<20 U	<20 U	<20 U	-	-	-
	Acrylonitrile	T ug/L	<20 U	<20 U	<20 U	<20 U	<20 U	-	-	-
	Benzene	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	Bromodichloromethane	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	Bromoform	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	Bromomethane	T ug/L	<2 U	<2 U	<2 U	<2 U	<2 U	-	-	-
	Carbon tetrachloride	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	Chlorobenzene	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	Chloroethane	T ug/L	<2 U	<2 U	<2 U	<2 U	<2 U	-	-	-
	Chloroform	T ug/L	<1 U	0.31 FJ	0.29 F	<1 U	0.22 FJ	-	-	-
	Chloromethane	T ug/L	<2 U	<2 U	<2 U	<2 U	<2 U	-	-	-
	Dibromochloromethane	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	Ethylbenzene	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	m,p-Xylene	T ug/L	<2 U	<2 U	<2 U	<2 U	<2 U	-	-	-

GSA

Results
A less than symbol, "<", indicates the concentration listed equates to the reporting limit for the specific sample, analytical method and analyte. A dash symbol(s), "–" indicates that groundwater from the well was not analyzed for the corresponding anlyte for the specific listed event.

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Sample Fraction Type
T - Total D - Dissolved
See Table A-7 and A-19 of SOP #15

Data Qualifiers
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See Table 9-1 of QAPP

Appendix I, Section 2: Table 1
Surface Water Analytical Results

August 2014
Denver Federal Center, Lakewood Colorado

Method	Parameter	Site ID / Date / Fraction / Units	02OUT1001C 8/14/2014 SA	02OUT1005C 8/14/2014 SA	02OUT1009C 8/14/2014 SA	02OUT1011C 8/14/2014 SA	14OUT3001C 8/14/2014 SA	—	—	—
EPA 8260B	Methylene chloride	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	o-Xylene	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	Tetrachloroethene	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	Toluene	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	Total Xylene	T ug/L	<2.2 U	<2.2 U	<2.2 U	<2.2 U	<2.2 U	-	-	-
	trans-1,2-Dichloroethene	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	Trichloroethene	T ug/L	<1 U	0.28 FJ	<1 U	<1 U	<1 U	-	-	-
	Vinyl chloride	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-

GSA

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See Table 9-1 of QAPP

Appendix I, Section 2: Table 2
Surface Water Analytical Results

August 2014
Denver Federal Center, Lakewood Colorado

Method	Parameter	Site ID / Date / Fraction / Units	02OUT1001C 8/14/2014 SA	02OUT1005C 8/14/2014 SA	02OUT1009C 8/14/2014 SA	02OUT1011C 8/14/2014 SA	14OUT3001C 8/14/2014 SA	—	—	—
EPA 8270C	1,2,4-Trichlorobenzene	T ug/L	<4 U	<4.1 U	<4 U	<4.1 U	<4.3 U	-	-	-
	1,2-Dichlorobenzene	T ug/L	<1 U	<1 U	<1 U	<1 U	<1.1 U	-	-	-
	1,2-Diphenylhydrazine	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	1,3-Dichlorobenzene	T ug/L	<1 U	<1 U	<1 U	<1 U	<1.1 U	-	-	-
	1,4-Dichlorobenzene	T ug/L	<1 U	<1 U	<1 U	<1 U	<1.1 U	-	-	-
	1,4-Dioxane	T ug/L	<3 U	<3.1 U	<3 U	<3.1 U	<3.2 U	-	-	-
	2,4,6-Trichlorophenol	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	2,4-Dichlorophenol	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	2,4-Dimethylphenol	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	2,4-Dinitrophenol	T ug/L	<30 U	<31 U	<30 U	<31 U	<32 U	-	-	-
	2,4-Dinitrotoluene	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	2,6-Dinitrotoluene	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	2-Chloronaphthalene	T ug/L	<4 U	<4.1 U	<4 U	<4.1 U	<4.3 U	-	-	-
	2-Chlorophenol	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	2-Nitrophenol	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	3,3-Dichlorobenzidine	T ug/L	<10 UJ	<10 UJ	<10 UJ	<10 UJ	<11 UJ	-	-	-
	4,6-Dinitro-2-methylphenol	T ug/L	<50 U	<52 U	<51 U	<51 U	<54 U	-	-	-
	4-Bromophenyl phenyl ether	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	4-Chloro-3-methylphenol	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	4-Chlorophenyl phenyl ether	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	4-Nitrophenol	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	Benzidine	T ug/L	<100 U	<100 U	<100 U	<100 U	<110 U	-	-	-
	Bis(2-chloroethoxy)methane	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-

GSA

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See Table 9-1 of QAPP

Appendix I, Section 2: Table 2
Surface Water Analytical Results

August 2014
Denver Federal Center, Lakewood Colorado

Method	Parameter	Site ID / Date / Fraction / Units	02OUT1001C 8/14/2014 SA	02OUT1005C 8/14/2014 SA	02OUT1009C 8/14/2014 SA	02OUT1011C 8/14/2014 SA	14OUT3001C 8/14/2014 SA	—	—	—
EPA 8270C	Bis(2-chloroethyl)ether	T ug/L	<1 U	<1 U	<1 U	<1 U	<1.1 U	-	-	-
	Bis(2-ethylhexyl)phthalate	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	Butyl benzyl phthalate	T ug/L	<4 U	<4.1 U	<4 U	<4.1 U	<4.3 U	-	-	-
	Dichlorodiisopropyl ether	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	Diethylphthalate	T ug/L	<4 U	<4.1 U	<4 U	<4.1 U	<4.3 U	-	-	-
	Di-n-Butyl phthalate	T ug/L	<4 U	<4.1 U	<4 U	<4.1 U	<4.3 U	-	-	-
	Di-n-Octyl phthalate	T ug/L	<4 U	<4.1 U	<4 U	<4.1 U	<4.3 U	-	-	-
	Hexachlorobenzene	T ug/L	<1 U	<1 U	<1 U	<1 U	<1.1 U	-	-	-
	Hexachlorobutadiene	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	Hexachlorocyclopentadiene	T ug/L	<3 U	<3.1 U	<3 U	<3.1 U	<3.2 U	-	-	-
	Hexachloroethane	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	Isophorone	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	Nitrobenzene	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	N-Nitrosodimethylamine	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	N-Nitrosodi-n-propylamine	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	N-Nitrosodiphenylamine	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-
	Phenol	T ug/L	<10 U	<10 U	<10 U	<10 U	<11 U	-	-	-

GSA

Results
A less than symbol, "<", indicates the concentration listed equates to the reporting limit for the specific sample, analytical method and analyte. A dash symbol(s), "–" indicates that groundwater from the well was not analyzed for the corresponding anlyte for the specific listed event.

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See Table 9-1 of QAPP

Appendix I, Section 2: Table 3
Surface Water Analytical Results

August 2014
Denver Federal Center, Lakewood Colorado

Method	Parameter	Site ID / Date / Fraction / Units	02OUT1001C 8/14/2014 SA	02OUT1005C 8/14/2014 SA	02OUT1009C 8/14/2014 SA	02OUT1011C 8/14/2014 SA	14OUT3001C 8/14/2014 SA	—	—	—
EPA 8270C-SIM	Acenaphthene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Acenaphthylene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Anthracene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Benzo(a)anthracene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Benzo(a)pyrene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Benzo(b)fluoranthene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Benzo(g,h,i)perylene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Benzo(k)fluoranthene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Chrysene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Dibenz(a,h)anthracene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Fluoranthene	T ug/L	0.016 FJ	<0.1 U	0.024 FJ	0.01 FJ	<0.1 U	-	-	-
	Fluorene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Indeno(1,2,3-cd)pyrene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Naphthalene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Phenanthrene	T ug/L	<0.1 U	0.017 FJ	<0.1 UJ	<0.1 U	<0.1 U	-	-	-
	Pyrene	T ug/L	0.011 FJ	<0.1 U	0.016 FJ	<0.1 U	<0.1 U	-	-	-

GSA

Results
A less than symbol, "<", indicates the concentration listed equates to the reporting limit for the specific sample, analytical method and analyte. A dash symbol(s), "–" indicates that groundwater from the well was not analyzed for the corresponding anlyte for the specific listed event.

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See Table 9-1 of QAPP

Appendix I, Section 2: Table 3
Surface Water Analytical Results

August 2014
Denver Federal Center, Lakewood Colorado

Method	Parameter	Site ID / Date / Fraction / Units	02OUT1001C 8/14/2014 SA	02OUT1005C 8/14/2014 SA	02OUT1009C 8/14/2014 SA	02OUT1011C 8/14/2014 SA	14OUT3001C 8/14/2014 SA	—	—	—
EPA 8270C-SIM	Acenaphthene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Acenaphthylene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Anthracene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Benzo(a)anthracene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Benzo(a)pyrene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Benzo(b)fluoranthene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Benzo(g,h,i)perylene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Benzo(k)fluoranthene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Chrysene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Dibenz(a,h)anthracene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Fluoranthene	T ug/L	0.016 FJ	<0.1 U	0.024 FJ	0.01 FJ	<0.1 U	-	-	-
	Fluorene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Indeno(1,2,3-cd)pyrene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Naphthalene	T ug/L	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	-	-	-
	Phenanthrene	T ug/L	<0.1 U	0.017 FJ	<0.1 UJ	<0.1 U	<0.1 U	-	-	-
	Pyrene	T ug/L	0.011 FJ	<0.1 U	0.016 FJ	<0.1 U	<0.1 U	-	-	-

GSA

Results
A less than symbol, "<", indicates the concentration listed equates to the reporting limit for the specific sample, analytical method and analyte. A dash symbol(s), "–" indicates that groundwater from the well was not analyzed for the corresponding anlyte for the specific listed event.

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See Table 9-1 of QAPP

Appendix I, Section 2: Table 6
Surface Water Analytical Results

August 2014
Denver Federal Center, Lakewood Colorado

Method	Parameter	Site ID / Date / Fraction / Units	02OUT1001C 8/14/2014 SA	02OUT1005C 8/14/2014 SA	02OUT1009C 8/14/2014 SA	02OUT1011C 8/14/2014 SA	14OUT3001C 8/14/2014 SA	—	—	—
EPA 8081A	a-Chlordane	T ug/L	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.053 U	-	-	-
	Aldrin	T ug/L	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.053 U	-	-	-
	alpha-Hexachlorocyclohexane	T ug/L	<0.05 UJ	<0.05 UJ	<0.05 UJ	<0.05 UJ	<0.053 UJ	-	-	-
	beta-Hexachlorocyclohexane	T ug/L	<0.05 UJ	<0.05 UJ	<0.05 UJ	<0.05 UJ	<0.053 UJ	-	-	-
	delta-Hexachlorocyclohexane	T ug/L	<0.05 UJ	<0.05 UJ	<0.05 UJ	<0.05 UJ	<0.053 UJ	-	-	-
	Dichlorodiphenyldichloroethane	T ug/L	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.053 U	-	-	-
	Dichlorodiphenyldichloroethylene	T ug/L	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.053 U	-	-	-
	Dichlorodiphenyltrichloroethane	T ug/L	<0.05 UJ	<0.05 UJ	<0.05 UJ	<0.05 UJ	<0.053 UJ	-	-	-
	Dieldrin	T ug/L	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.053 U	-	-	-
	Endosulfan I	T ug/L	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.053 U	-	-	-
	Endosulfan II	T ug/L	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.053 U	-	-	-
	Endosulfan sulfate	T ug/L	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.053 U	-	-	-
	Endrin	T ug/L	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.053 U	-	-	-
	Endrin aldehyde	T ug/L	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.053 U	-	-	-
	g-Chlordane	T ug/L	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.053 U	-	-	-
	Heptachlor	T ug/L	<0.05 UJ	<0.05 UJ	<0.05 UJ	<0.05 UJ	<0.053 UJ	-	-	-
	Heptachlor epoxide	T ug/L	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.053 U	-	-	-
	Lindane	T ug/L	<0.05 UJ	<0.05 UJ	<0.05 UJ	<0.05 UJ	<0.053 UJ	-	-	-
	Toxaphene	T ug/L	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2.1 UJ	-	-	-
EPA 8321A HERB	Pentachlorophenol	T ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	-	-	-

GSA

Results
A less than symbol, "<", indicates the concentration listed equates to the reporting limit for the specific sample, analytical method and analyte. A dash symbol(s), "--" indicates that groundwater from the well was not analyzed for the corresponding anlyte for the specific listed event.

Sample Type
DS - DI H2O (Diff Sample) RB - Rinse Blank
FB - Field Blank SA - Env. Sample
FD - Field Replicate (Dup) TB - Trip Blank
PE - Performance Eval.

Sample Fraction Type
T - Total D - Dissolved

See Table A-7 and A-19 of SOP #15

Data Qualifiers
F - Conc est. (Lab) FJ - Conc est. (Both)
J - Conc est. (Val.) R - Data rejected
U - Not detected
UJ - Not detected/Est.

See Table 9-1 of QAPP

Appendix I, Section 2: Table 7
Surface Water Analytical Results

August 2014
Denver Federal Center, Lakewood Colorado

Method	Parameter	Site ID / Date / Fraction / Units	02OUT1001C 8/14/2014 SA	02OUT1005C 8/14/2014 SA	02OUT1009C 8/14/2014 SA	02OUT1011C 8/14/2014 SA	14OUT3001C 8/14/2014 SA	—	—	—
EPA 8082	Aroclor 1016	T ug/L	<1 U	<1 U	<1 U	<1 U	<1.1 U	-	-	-
	Aroclor 1221	T ug/L	<1 U	<1 U	<1 U	<1 U	<1.1 U	-	-	-
	Aroclor 1232	T ug/L	<1 U	<1 U	<1 U	<1 U	<1.1 U	-	-	-
	Aroclor 1242	T ug/L	<1 U	<1 U	<1 U	<1 U	<1.1 U	-	-	-
	Aroclor 1248	T ug/L	<1 U	<1 U	<1 U	<1 U	<1.1 U	-	-	-
	Aroclor 1254	T ug/L	<1 U	<1 U	<1 U	<1 U	<1.1 U	-	-	-
	Aroclor 1260	T ug/L	<1 U	<1 U	<1 U	<1 U	<1.1 U	-	-	-

GSA

Results
A less than symbol, "<", indicates the concentration listed equates to the reporting limit for the specific sample, analytical method and analyte. A dash symbol(s), "–" indicates that groundwater from the well was not analyzed for the corresponding anlyte for the specific listed event.

Sample Type
DS - DI H2O (Diff Sample) RB - Rinse Blank
FB - Field Blank SA - Env. Sample
FD - Field Replicate (Dup) TB - Trip Blank
PE - Performance Eval.

Sample Fraction Type
T - Total D - Dissolved

See Table A-7 and A-19 of SOP #15

Data Qualifiers
F - Conc est. (Lab) FJ - Conc est. (Both)
J - Conc est. (Val.) R - Data rejected
U - Not detected
UJ - Not detected/Est.

See Table 9-1 of QAPP

Appendix I, Section 2: Table 9
Surface Water Analytical Results

August 2014
Denver Federal Center, Lakewood Colorado

Method	Parameter	Site ID / Date / Fraction / Units	02OUT1001C 8/14/2014 SA	02OUT1005C 8/14/2014 SA	02OUT1009C 8/14/2014 SA	02OUT1011C 8/14/2014 SA	14OUT3001C 8/14/2014 SA	—	—	—
EPA 6020	Antimony	T ug/L	4.3	<2 U	<2 U	<2 U	<2 U	-	-	-
	Arsenic	T ug/L	0.56 F	<5 U	<5 U	<5 U	<5 U	-	-	-
	Beryllium	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	Cadmium	T ug/L	0.49 F	<1 U	<1 U	<1 U	<1 U	-	-	-
	Chromium	T ug/L	<2 U	<2 U	<2 U	<2 U	<2 U	-	-	-
	Copper	T ug/L	36	5.1	0.89 F	1 F	5	-	-	-
	Lead	T ug/L	4.3	<1 U	<1 U	<1 U	0.24 F	-	-	-
	Nickel	T ug/L	1.2 F	0.56 F	0.64 F	0.49 F	0.69 F	-	-	-
	Selenium	T ug/L	<5 U	2.3 F	8	13	2.1 F	-	-	-
	Silver	T ug/L	0.038 F	<5 U	<5 U	<5 U	<5 U	-	-	-
	Thallium	T ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	-	-	-
	Zinc	T ug/L	660	56	<10 U	<10 U	94	-	-	-
EPA 7470A	Mercury	T ug/L	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	-	-	-

Results
A less than symbol, "<", indicates the concentration listed equates to the reporting limit for the specific sample, analytical method and analyte. A dash symbol(s), "--" indicates that groundwater from the well was not analyzed for the corresponding anlyte for the specific listed event.

Sample Type
DS - DI H2O (Diff Sample) RB - Rinse Blank
FB - Field Blank SA - Env. Sample
FD - Field Replicate (Dup) TB - Trip Blank
PE - Performance Eval.

Sample Fraction Type
T - Total D - Dissolved
See Table A-7 and A-19 of SOP #15

Data Qualifiers
F - Conc est. (Lab) FJ - Conc est. (Both)
J - Conc est. (Val.) R - Data rejected
U - Not detected
UJ - Not detected/Est.

See Table 9-1 of QAPP

Appendix I, Section 2: Table 10
Surface Water Analytical Results

August 2014
Denver Federal Center, Lakewood Colorado

Method	Parameter	Site ID / Date / Fraction / Units	02OUT1001C 8/14/2014 SA	02OUT1005C 8/14/2014 SA	02OUT1009C 8/14/2014 SA	02OUT1011C 8/14/2014 SA	14OUT3001C 8/14/2014 SA	—	—	—
EPA 365.1	ortho-phosphate	T ug/L	17 F	8.7 F	56	<50 U	21 F	-	-	-
SM 2340C	Hardness	T ug/L	110000	420000	520000	380000	420000	-	-	-
SM 2540D	Total Suspended Solids	T ug/L	9600	<4000 U	<4000 U	1200 F	5600	-	-	-

GSA

Results
A less than symbol, "<", indicates the concentration listed equates to the reporting limit for the specific sample, analytical method and analyte. A dash symbol(s), "--" indicates that groundwater from the well was not analyzed for the corresponding anlyte for the specific listed event.

Sample Type
DS - DI H2O (Diff Sample) RB - Rinse Blank
FB - Field Blank SA - Env. Sample
FD - Field Replicate (Dup) TB - Trip Blank
PE - Performance Eval.

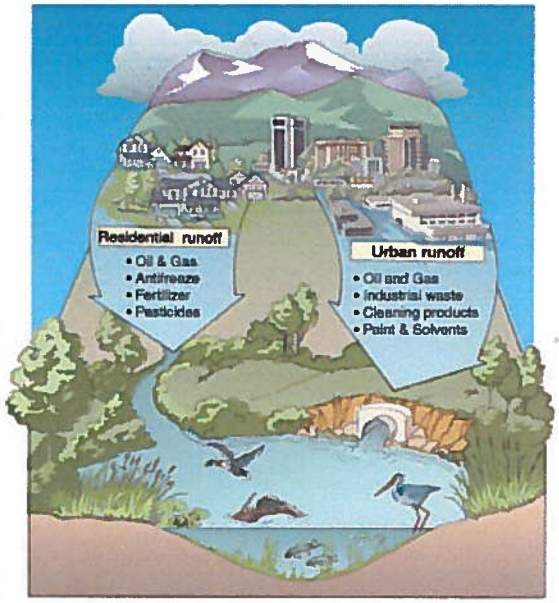
Sample Fraction Type
T - Total D - Dissolved
See Table A-7 and A-19 of SOP #15

Data Qualifiers
F - Conc est. (Lab) FJ - Conc est. (Both)
J - Conc est. (Val.) R - Data rejected
U - Not detected
UJ - Not detected/Est.

See Table 9-1 of QAPP

ATTACHMENT 2

Stormwater Information Brochure



Remember:

Only Rain Goes Down The Drain

Where Storm Water Goes After the Curb Inlet

Revised 4/20/2012

U.S. General Services Administration
Public Building Services

DFC Environmental
Programs Group
Building 41, Room 240
PO Box 25546
Denver, CO 80225-0546

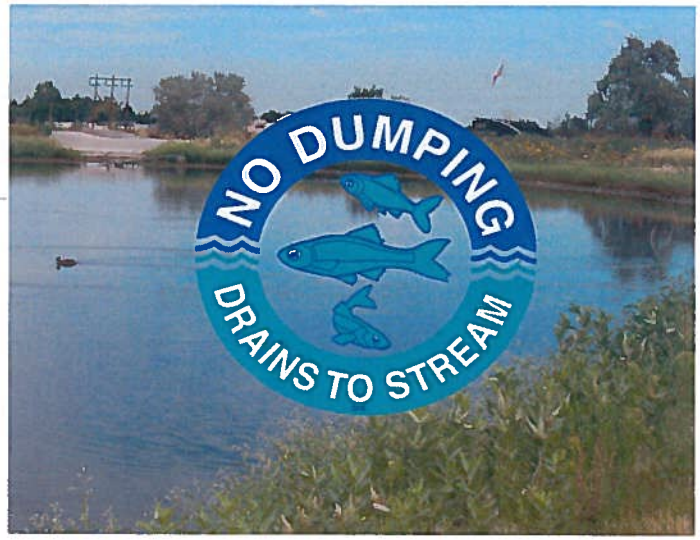
Emergency Hotline:
303-236-2911
For More Information:
John Kleinschmidt
303-236-2858
Bill Fieselman
303-236-2516

GSA U.S. General Services Administration

Protecting Storm Water

at the

Denver Federal Center



Denver Federal Center Storm Water Program

Rainwater flows over parking lots, lawns, sidewalks, picking up debris, chemicals, dirt, and other pollutants. Storm water can flow into a storm drain system or directly into a lake or stream. Anything that enters a storm sewer system flows untreated into water bodies we use for swimming, fishing, and drinking. Polluted runoff* is the nation's greatest threat to clean water.

McIntyre Gulch flows across the Denver Federal Center (DFC) and converges with Lakewood Gulch and then flows into the Platte River. Wildlife use McIntyre Gulch, the Agricultural Ditch, Downing Reservoir and a storm water pond on the DFC as water sources. Downstream, the Platte River supports fisheries, and other community uses.

*Polluted runoff is precipitation that captures pollution from agricultural lands, urban streets, parking lots and suburban lawns, and transports it to rivers, lakes, or oceans.

The DFC's storm drain system collects rain and snow melt from drain inlets and flows directly into McIntyre Gulch. Any DFC contaminants that enter the Gulch and the Platte River compromise water, wildlife, fish and downstream water supplies. Care must be taken to ensure that DFC runoff does not degrade water quality.

The DFC has an EPA Municipal Separate Storm Sewer System (MS4) permit to discharge storm water into McIntyre Gulch. A storm water management plan outlines what measures the DFC will take to protect storm water quality and comply with the permit requirements.

The DFC has implemented a storm water management plan, which includes an active construction site inspection program, to ensure that storm drains are protected from construction sediments. The DFC has also placed distinct markers near storm drains on the campus to increase public awareness of the storm drain system and its direct connection to McIntyre Gulch and the Platte River.

Water pollution is often unintentional. It's caused by things we do everyday at work, at home, and at play.

Water Pollution Facts:

- A pint of used motor oil can expand over an acre of water surface.
- A gallon of gasoline can contaminate 750,000 gallons of water.
- Antifreeze is poisonous to wildlife and contains heavy metals.
- Trash can plug storm drains and endanger fish and other wildlife.

How You Can Help:

- Check vehicles for leaks & spills. Make repairs as soon as possible.
-Clean up spilled fluids with absorbent material, don't rinse spills into a nearby storm drain.
- Clean paint brushes in a sink, not outdoors.
- Properly dispose of excess paints through a household hazardous waste collection program.

U.S. General Services Administration

Emergency Hotline:
303-236-2911
For More Information:
John Kleinschmidt
303-236-2858
Bill Fieselman
303-236-2516

ATTACHMENT 3

Documentation of Any Events or Other Activities to Clean Up MS4 Receiving Waters

Two events occurred during the reporting period to help clean up the MS4 receiving waters.

1) During a June 2013 thunderstorm, the DFC received very heavy precipitation. This precipitation event overwhelmed the Building 56 roof drains and storm sewer system and consequently backed up water through interior floor drains and flooded portions of the building.

In response, a project was undertaken to trace all interior drains to determine if they were connected to the storm sewer system or the sanitary sewer system. This work is documented in:

Buildings 45 and 56 Sewer Line Investigation, Denver Federal Center, Lakewood, Colorado, URS Corp., February 28, 2014 (Draft). Section 3.2.

A project was planned and contracted in 2014 and will be implemented in 2015 to correct where drains were found to be improperly connected. The drain lines will be reconfigured, where necessary, to connect to the appropriate storm, or sanitary, system.

2) A RCRA Facility Investigation (RFI) work plan for the interior of Buildings 55, 56 and 67 in Investigation Area (IA) 04A was prepared in 2014. One of the tasks included in this work plan is to evaluate building interior drains to determine if they are connected to the storm sewer system or the sanitary sewer system. This work is documented in:

Investigation Area 04A, Interior Phase I Work Plan, DFC Buildings 55, 56 and 67, Denver Federal Center, Lakewood, Colorado, URS Corp., June 2014 (Draft Final).

This work will be implemented in 2015.

Attachment 4

Dry Weather Screening Results

McIntyre Gulch Storm Sewer Outfalls - Denver Federal Center: Annual Dry Weather Survey - September 2014

Last Precipitation - 9/22/14

Outfall no.	Physical location	Year	Survey date	Avg Flow Rate gals/min	Dissolved O2 mg/l	Conductivity mS/cm	Temperature (degrees C)	PH	Salinity %	TDS g/L	ORP mV	Turbidity	Comments	Reference Photo
mid-stream	McIntyre Gulch where it leaves the DFC on the east side. Measurement taken from mid-stream.	2014	9/26/2014	NA	6.53	0.472	17.71	7.86	NA	0.413	109	0.0		
14OUT3001C	Inlet to Downing Reservoir at southwest corner of reservoir	2014	9/26/2014	<0.5	7.19	2.36	19.81	8.01	NA	1.51	65	14.4		Outfall-14OUT3001C
02OUT9016C	North bank of McIntyre Gulch, inside of the fence just before it goes under Kipling St	2014	9/26/2014										This is a seep not an outfall. This location is not longer monitored.	
02OUT1005C	North bank of McIntyre Gulch, halfway between Kipling St & Main Avenue crossing	2014	9/26/2014	8.5	4.91	2.24	17.82	7.89	NA	1.43	77	0.0		Outfall-02OUT1005C
02OUT1003C	North bank of McIntyre Gulch, west of Main St bridge, south end of 3rd St projection	2014	9/26/2014										Outfall destroyed. See note *1 below.	
02OUT1001C	North bank of McIntyre Gulch, west of Agricultural Ditch aqueduct, 42" diameter concrete pipe	2014	9/26/2014	trickle	4.8	0.851	16.21	8.21	NA	0.545	90	0.0		Outfall-02OUT1001C
02OUT1011C	Outfall is in the north wing wall of the 5th St bridge (Bridge to Nowhere), west side of bridge, north bank of McIntyre Gulch, 42" diameter pipe	2014	9/26/2014	<1.0	4.25	1.9	16.82	7.85	NA	1.22	102	0.0		Outfall-02OUT1011C
02OUT9008C	Inside of north box culvert under 5th St bridge (Bridge to Nowhere), north wall	2014	9/26/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	No flow	Outfall-02OUT9008C
02OUT1009C	North bank of McIntyre Gulch, south end of 6th St projection, 48" diameter pipe	2014	9/26/2014	15	3.84	2.05	17.73	7.84	NA	1.31	109	0.0	This is the discharge outfall for the Bldg 52 groundwater treatment system. Daily Average Flow Rate of discharge on 9/26/14 - 7.86 gpm	Outfall-02OUT1009C
02OUT1017C	Southwest corner of intersection of 7th St bridge and McIntyre Gulch, south side of gulch. Drains marshy area along west side of 7th St, north of Bldg 710	2014	9/26/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	No flow	Outfall-02OUT1017C
09OUT0003C	South bank of McIntyre Gulch, north of the northwest corner of Bldg 710	2014	9/26/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	No flow	Outfall-02OUT0003C
12OUT1001C	North side of McIntyre Gulch between Joppa and BLM storage yards, north of the northeast corner of Bldg 810.	2014	9/26/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	No flow	Outfall-12SOUT1001C
02OUT1014C	Outfall is north of Door N-28 of Bldg 810.	2014	9/26/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	Outfall discharges the stormwater retention basin located between Door N-28 and McIntyre Gulch. The stormwater retention basin does not dischage unless water is deep enough in the basin to reach the drain, approximately 18-inches deep.	Outfall-02OUT1014C
02OUT1013C	Outfall is north of Door N-25 Of Bldg 810, at the waters edge.	2014	9/26/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	Outfall dischage is at the same level as the water in McIntyre Gulch, therefore it is not possible to determine if flow is discharging from the outfall. The outfall is connected to a manhole 29 ft. to the southwest. The manhole is subsequently connected, via underground pipe, to a manhole approximately 20 feet north of the emergency generator structure on the north side of Bldg 810 (see outfall 02OUT1015C comments).	Outfall-02OUT1013C and Manhole-02OUT1013C
02OUT1015C	Directly north of Door N-15 of Bldg 810 and generator bldg.	2014	9/26/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	Manhole has a trickle in it. Flow enters the manhole from the south, makes a 90° turn to the east and exits the manhole to the east. The flow travels 306ft east in an underground pipe, to another manhole. Flow then exits this manhole to the northeast and dischages to outfall 02OUT1013C Flow exiting the 02OUT1015C manhole does not discharge directly to an outfall on McIntyre Gulch (see comments for outfall 02OUT1013C).	Manhole-02OUT1015C
02OUT9002F	Directly north of Doors N-9 and N-10 of Bldg 810.	2014	9/26/2014	NA	NA	NA	NA	NA	NA	NA	NA		Outfall dischage is at the same level as the water in McIntyre Gulch, therefore it is not possible to determine if flow is discharging from the outfall. There is no manhole between outfall and Bldg 810.	Outfall-02OUT9002F
Outfall Door N-5 N-7	Outfall directly north from a point halfway between Door N-5 and N-7 of Bldg 810.	2014	9/26/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	No flow	Outfall-Door N-5 N-7
02OUT1016C	Directly north of of a point halfway between Door N-3 and N-5 of Bldg 810.	2014	9/26/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	Manhole between outfall and Bldg 810 also dry (manhole is 14 ft north of the north edge of the pavement).	Outfall-02OUT1016C and Manhole-02OUT1016C
mid-stream	McIntyre Gulch where it enters the DFC on the west side. Measurement taken from mid-stream.	2014	9/26/2014	NA	6.74	0.493	17.75	7.88	NA	0.321	113	0.0		

*1 - During the summer of 2011, the banks of McIntyre Gulch were reconfigured where the gulch crosses Main Ave. This work was performed as part of the DFC-wide Utilitity Infrastructure Project (UIP). During this work, Outfall No. 02OUT1003C was destroyed. It is believed that this outfall was part of the old DFC storm sewer system and was no longer operational. Therefore, it was not replaced. Flow had not been noted at this outfall during the Annual Dry Weather Survey since Jully of 2007.

Attachment 5

Documentation of Annual Training

DFC MS4 Permit Training

2014 STORMWATER MANAGEMENT TRAINING

ATTENDEE LIST

Timestamp	I watched all four parts of the Storm Water Management Training Video	Username
11/19/2014 14:06:37	Yes	mike.alley@gsa.gov
11/19/2014 14:18:16	Yes	adam.rankin@gsa.gov
11/19/2014 14:18:33	Yes	adam.rankin@gsa.gov
11/19/2014 15:37:58	Yes	shawn.mccoy@gsa.gov
11/19/2014 15:49:22	Yes	lance.thompson@gsa.gov
11/19/2014 16:02:05	Yes	harvey.wong@gsa.gov
11/19/2014 17:54:39	Yes	margaret.daulton@gsa.gov
11/20/2014 10:15:35	Yes	daniel.zigich@gsa.gov
11/20/2014 15:28:30	Yes	bruced.johnson@gsa.gov
11/21/2014 9:10:17	Yes	patrick.campbell@gsa.gov
11/21/2014 9:37:26	Yes	charlie.carruth@gsa.gov
11/21/2014 16:26:27	Yes	jamie.perdomo@gsa.gov
11/23/2014 18:55:20	Yes	john.kleinschmidt@gsa.gov
11/24/2014 7:51:58	Yes	dana.denning@gsa.gov
11/24/2014 12:56:56	Yes	charles.rienhardt@gsa.gov
12/1/2014 10:43:37	Yes	jeffrey.engelstad@gsa.gov
12/5/2014 14:11:18	Yes	michael.alosi@gsa.gov
12/10/2014 6:03:56	Yes	dana.denning@gsa.gov
12/10/2014 9:16:44	Yes	william.fieselman@gsa.gov
12/11/2014 5:42:31	Yes	adam.rankin@gsa.gov
12/17/2014 9:16:25	Yes	loran.bartow@gsa.gov
12/22/2014 9:47:23	Yes	paige.jacques@gsa.gov
12/29/2014 9:31:17	Yes	gary.sebastian@gsa.gov
12/30/2014 12:34:37	Yes	nicci.pagano@gsa.gov
12/30/2014 14:12:59	Yes	nicolas.retzlaff@gsa.gov
12/31/2014 16:37:44	Yes	john.huebner@gsa.gov
1/2/2015 14:16:05	Yes	carlos.valenzuela@gsa.gov
1/5/2015 9:42:34	Yes	clayton.kagarise@gsa.gov
1/8/2015 12:55:44	Yes	robert.kirkpatrick@gsa.gov

ATTACHMENT 6

Home Page from the Information Management System

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R8 SEMS

The purpose of a Sustainability & Environmental Management System (SEMS) is to assure and assist existing environmental and sustainability programs to stay current with federal requirements, to assess that the programs are in compliance through audits, documentation are in place, records maintained, and that adequate training occurs. The SEMS tracks sustainability objectives and environmental compliance.

The Region 8 program started in 2003 at the Denver Federal Center as part of a 1999 Executive Order. As the program grew, all aspects encompassing the facility that could have an impact on the environment were incorporated into the management system, including but not limited to:

- energy
- water
- storm water
- indoor air quality
- waste reduction

Once the first complete cycle of the program was completed the system moved into its next phase, which was regional expansion. The regional roll-out began in 2008 and implementation is currently underway.

- Region 8's SEMS public page
- Central Office Insite SEMS page

If you have any questions related to Region 8's SEMS program, please contact Robert Melvin or Lisa Haskins.

If your question is specific to the DFC, please contact Charlie Rienhardt or John Kleinschmidt.

Last Reviewed 2014-12-10

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CONTACTS

Jessica Higgins
(303) 236-2324
jessica.higgins@gsa.gov
View Contact Details

Robert Melvin
(303) 236-2743
robert.melvin@gsa.gov
View Contact Details

Lisa Haskins
(303) 236-2414
lisa.haskins@gsa.gov
View Contact Details

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Environmental Programs Group

In the 1990's, the Region 8 General Service Administation (GSA) established the Environmental Programs Group (EPG) to focus on environmental concerns at the Denver Federal Center (DFC) and to comply with the Colorado Consent Orders issued towards the GSA at the DFC. In addition to work at the DFC, the EPG offers a wide range of environmental services to the rest of GSA across Region 8 from evaluating of property for possible purchases, through remediation efforts if needed.

The purpose of this page:

(1) GSA DFC is a Gold Leader member of the CDPHE Environmental Leadership Program (ELP) since 2012. Requirements to maintain our membership include:

Must have in place a fully operational, facility-specific Environmental Management System (EMS) with goals.

Must meet the beyond-compliance requirements for the Gold tier.

No serious violations for three years, criminal for five years.

(2) An EMS is a set of processes and practices that enable an organization to reduce its environmental impacts and increase its operating efficiency. This page is here to aid and assist the EPG in meeting its goals and objectives.

Environmental Tools and Databases

EPG DFC Dig Permit Spreadsheet database - This is a Google Doc, you may need permission from file owner to access this file.

CONTACTS

Michael Gasser
(303) 236-2791
michael.gasser@gsa.gov
View Contact Details

John Kleinschmidt
(303) 236-2858
john.kleinschmidt@gsa.gov
View Contact Details

Robert Melvin
(303) 236-2743
robert.melvin@gsa.gov
View Contact Details

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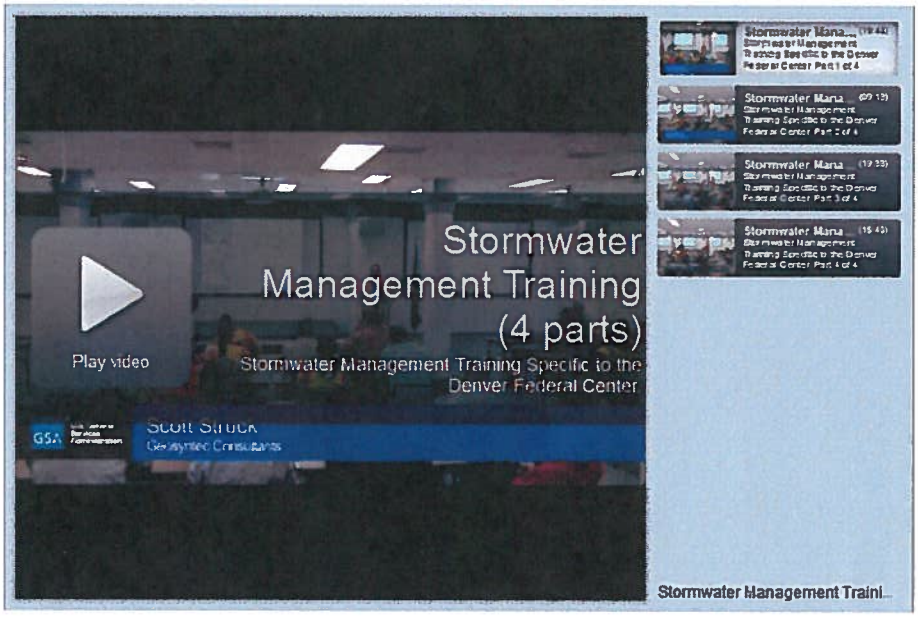
Storm Water Management

EMS procedures and training ensure that storm drains are protected from construction sediment. GSA project managers and their contractors are trained on storm water best management practices. View the following videos to learn more about stormwater management.



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Site Selection & Property Evaluation
Soil Disturbing Activities & Site Remediation
Storm Water & Wetland Management
Sustainability Measures Through Certification
Waste Reduction & Recycling
Water Management & Protection

Storm Water & Wetland Management

Urban storm water runoff is one of the leading causes of pollution in rivers and lakes. In fields and forests, rain is absorbed by soil or taken up in tree or plant roots. In developed area, rainwater travels across paved areas and accumulates pollutants such as oil and grease, chemicals, nutrients, metals, and bacteria which are then carried to gutters, gullies and storm-sewer systems. Heavy precipitation or snow melt may cause sewer overflow which, in turn may lead to contamination of water sources with untreated human and industrial waste, toxic materials, and other debris.

This page offers links and procedures to ensure that:

- Storm drains are protected from contamination and construction sediment
- Awareness, training and education
- Storm water best management practices

Agency clients at the Denver Federal Center can count on the GSA to implement programs that remediate and abate storm water runoff. GSA implemented a construction site inspection program to reduce sediment discharge to storm water. GSA has also placed distinct markers near storm drains to increase public awareness of potential discharges to McIntyre Gulch and the Platte River. Master site plan for the DFC (PDF 893KB)

Observance	When
World Wetlands Day	February 2
International Day of Action for Rivers	March 14
World Water Day	March 22
Earth Day	April 22
National Wilderness Month	September
National Estuaries Day	September 24
World Rivers Day	Last Sunday in September

Sustainability and Environmental Management Program

	Improve storm water quality
Objectives	Comply with the US EPA Region 8 National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharge from Federal Facility Municipal Storm Sewer System
Targets	Eliminate all non-storm water discharge from the storm water system

Federal, State, and Local Policy and Regulations

Clean Water Act; EPA page (external link)
Energy Independence and Security Act (EISA) of 2007, Sec. 438. Storm water runoff requirements for Federal development projects (external link)

Education and Outreach

EPA Nonpoint Source Outreach Toolbox (external link)
EPA Stormwater Outreach Materials and Reference Documents (external link)

Stormwater Training

Last Reviewed 2015-03-17

CONTACTS

John Kleinschmidt
(303) 236-2858
john kleinschmidt@gsa.gov
View Contact Details

William Fieselman
(303) 236-2516
william fieselman@gsa.gov
View Contact Details

Lisa Haskins
(303) 236-2414
lisa haskins@gsa.gov
View Contact Details

Additional Resources

- EPA Stormwater and National Pollutant Discharge Elimination System (NPDES) Program - Office of Wastewater Management (OWM) (external link)
- EPA Stormwater Management for Federal Facilities, under Section 438 of EISA (external link)
- EPA's Electronic Notice of Intent (eNOI) (external link)
- FedCenter.gov-Stormwater (external link)
- US Army Corps of Engineers ENG Form 4345, video of application process (external link)

Procedures and DFC MS4 Records

File Name	Format	Size	Date Revised
Stormwater Management	PDF	422KB	07/06/2012
Wetlands and Streams	PDF	317KB	02/25/2013
DFC MS4 Annual Report 2013 Submittal	PDF	11.3MB	04/04/2014
DFC Storm Water Management Plan 07-24-2013	PDF	1.9MB	07/24/2013

Attachment 7

GSA Region 8 Stormwater Management Environmental Procedure

1.0 Purpose & Scope

The purpose of this procedure is to protect the Nation's waterways and wetland areas, into which storm sewers ultimately drain. This is achieved by requiring the use of protective measures, to prevent contaminated storm water or other types of water, which may contain chemicals, silts or soils generated during projects from entering waterways and wetland areas.

2.0 Activities & Departments Affected

2.1 Every person entering a GSA facility owned and/or operated by GSA (e.g. DFC Campus) has the potential to impact the Storm Sewer System.

2.2 This procedure is to be followed by all personnel conducting landscaping, site demolition, building construction, maintenance, remediation, underground line repair/replacement and/or intrusive subsurface activities at a GSA facility owned and/or operated by GSA.

3.0 Exclusions

Magnesium chloride used in snow removal activities.

4.0 Forms Used & Permits Required: (include reporting requirements)

☐ **Federal and State Forms and Permits**:

PERMIT / FORM / REPORT	SUBMITTED TO: FEDERAL OR STATE AGENCY	SUBMITTAL FREQUENCE
Municipal Separate Storm Sewer System (MS4) Permit[(1)]	U.S. Environmental Protection Agency (EPA) and/or appropriate state agency	5 years; facility specific
Stormwater Management Plan	EPA and/or appropriate state agency	As needed
MS4 Annual Report	EPA and/or appropriate state agency	annual
Notice of Intent as spelled out by MS4	EPA and/or appropriate state agency	As needed

(1) The GSA Denver Federal Center (DFC) Campus has a small Municipal Separate Storm Sewer System (MS4) Permit, issued by the U.S. Environmental Protection Agency (EPA) under the National Pollution Discharge Elimination System (NPDES), as a requirement of the Clean Water Act, Section 402(p)(2). This requires that no liquid, other than stormwater, may be discharged directly to a storm sewer. Therefore, any activity which may impact water quality entering the storm sewer system or where other types of water must be diverted from the storm sewer system is addressed in this procedure.

☐ **In-house GSA Region 8 and Contractor Forms**:

- Excavation Permit Request Form (*GSA Region 8 Excavation 'Dig' Permit Environmental Procedure*)
- Environmental Programs Group Storm Water Inspection form (Attachment C)

5.0 Acronyms, Abbreviations, and Definitions

Acronyms	Meaning
CDPHE	Colorado Department of Public Health and Environment
CO	Contracting Officer
COR	Contracting Officer Representative
DFC	Denver Federal Center
EO	Executive Order
EPA	U.S. Environmental Protection Agency
EPG	Environmental Programs Group of GSA, PBS, Region 8
GSA	U.S. General Services Administration
MS4	Municipal Separate Storm Sewer System
NPDES	National Pollution Discharge Elimination System
NOI	Notice of Intent
RCRA	Resource Conservation & Recovery Act
RFI	RCRA Facility Investigation
SEMS	Sustainability & Environmental Management System
SPCC	Spill Prevention Control & Countermeasures

Definitions:
Municipal Separate Storm Sewer Systems (MS4s): May be required to obtain authorization to discharge stormwater (EPA); EPA requires that the DFC have an MS4.

National Pollutant Discharge Elimination System (NPDES) Stormwater Program: Regulates stormwater discharges from three potential sources: municipal separate storm sewer systems (MS4s), construction activities, and industrial activities (EPA).

Outfall: The mouth of a drain or sewer

Predevelopment Hydrology: The runoff volume, rate, temperature, and duration of flow that typically existed on the site before human-induced land disturbance occurred (EISA).

6.0 Procedure

State Specific Procedures & Requirements [refer to individual State Legal Reviews for details on Statues, Laws, and Rules]: Most states administer their own stormwater programs.

STATE	REQUIREMENTS / PROCEDURES
Colorado	In Colorado, the Stormwater Management Program is regulated by the EPA and the State. Water Quality is regulated by the Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Division. The program is referred to as the Colorado Discharge Permit System (CDPS) for non-federal property instead of NPDES. State stormwater requirements are mirrored after the federal NPDES program, requiring that stormwater be treated to the maximum extent practicable (MEP). CDPS requires that all construction sites disturbing more than one-acre, and all designated Municipal Separate Storm Sewer Systems (MS4s) to obtain permit coverage. Each permitted MS4 will be

STATE	REQUIREMENTS / PROCEDURES
	responsible for establishing a Stormwater Management Program (SWMP) under either the Phase I, or under Phase II of the CDPS. Additional permitting requirements may be required at the county and municipal level. No numeric requirements for stormwater pollutant removal have been established at the state level, but many stringent regional and municipal regulations are in place. Many municipalities reference the suggested requirements in the Denver Urban Drainage and Flood Control Manual, which was originally developed for the Denver metro area.
Montana	In Montana, the Montana Department of Environmental Quality (MDEQ) is authorized to administer the National Pollutant Discharge Elimination System (NPDES) Program through the Montana Pollutant Discharge Elimination System (MPDES) Program. Permits are developed and issued under: • Phase I of the NPDES storm water program applies to construction activities affecting more than 5 acres. • Phase II of the NPDES storm water program covered smaller construction activities disturbing between 1 and 5 acres. [Administrative Rules of Montana (ARM), Title 17, Chapter 30, Subchapters 11, 12, and 13].
North Dakota	The North Dakota Department of Health & Environmental Division of Water Quality (DHEWQ) is responsible for administering the state's National Pollution Discharge Elimination System (NPDES) Storm Water Program. North Dakota's stormwater program is closely modeled after the federal NPDES program. At the state level, all construction sites disturbing more than one acre, many industrial sites, and all designated Municipal Separate Storm Sewer Systems (MS4s) are required to obtain and meet the requirements of NPDES permit coverage. In addition to state, regional, and local regulations there are a number of established and proposed TMDLs impacting North Dakota's watersheds, which often impact stormwater treatment requirements. To ensure compliance with all applicable stormwater regulations, the municipality where the project is to take place needs to be contacted.
South Dakota	The South Dakota Department of Environment & Natural Resources (DENR) is responsible for administering the state's Stormwater Management Program. South Dakota's stormwater program is closely modeled after the federal National Pollution Discharge Elimination System (NPDES) program, which requires stormwater be treated to the maximum extent practicable. This program establishes permitting requirements for construction sites disturbing more than one acre, industrial sites, and Municipal Separate Storm Sewer Systems (MS4s). All MS4s should currently be permitted, or in the permit process. Each permitted MS4 will be responsible for establishing a Stormwater Management Program (SWMP). Be advised that there may be additional permitting requirements at the county and municipal level.
Utah	The Storm Water Program is regulated by the Utah Department of Environmental Quality (UTDEQ) through the Division of Water Quality. The Utah storm water program is closely modeled after the federal National Pollution Discharge Elimination System (NPDES) program. The Utah DEQ water program establishes permitting requirements for construction sites disturbing more than one acre, industrial sites, and Municipal Separate Storm Sewer Systems (MS4s). Each permitted MS4 will be responsible for establishing a Storm Water Management Program (SWMP). Be advised that there may be additional permitting requirements at the county and municipal level, especially where TMDLs are in place. Utah does have a Storm Water Advisory Committee. The Advisory Committee

STATE	REQUIREMENTS / PROCEDURES
	serves as an agent to address a variety of stormwater issues statewide, including implementation of Phase I and II regulations.
Wyoming	The Wyoming Department of Environmental Quality (DEQ) regulates the state's Wyoming Pollutant Discharge Elimination System (WYPDES) Storm Water Program. Wyoming's stormwater program is closely modeled after the federal National Pollution Discharge Elimination System (NPDES) program, which requires stormwater be treated to the maximum extent practicable (MEP). Numeric treatment requirements specific to stormwater have not been established at the state level, but water quality parameters will be established on a site-by-site basis when the risk of contamination is present. Wyoming's stormwater program establishes permitting requirements for construction sites disturbing more than one acre, industrial sites, and Municipal Separate Storm Sewer Systems (MS4s). All MS4s should currently be permitted, or in the permit process. Each permitted MS4 will be responsible for establishing a Stormwater Management Program (SWMP). • **Large construction permit** - surface disturbance of 5 acres or more • **Small construction permit** - disturbance of at least 1 acre, but less than 5 A Guide to Temporary Erosion-Control Measures for Contractors, Designers and Inspectors Erosion and Sedimentation Control Plans, and BMP Fact Sheets Wyoming water quality regulations require that when discharging stormwater to a live water body (such as lakes, streams, and rivers), levels of turbidity may not increase by more then 10-15 NTU's over background levels. When discharging to non-live waterways, the state's goal is to reduce sediment loads in order to avoid aesthetic and habitat degradation.

(StormwaterAuthority.org; http://204.202.251.206/)

Standardized Procedure:

6.0 Stormwater Regulations & Contracting

- Comply with all federal regulations, and where applicable state regulations and local ordinances. Where required obtain permits and comply with reporting requirements.
- Follow requirements set forth in any Municipal Separate Storm Sewer System (MS4) permit that may exist, issued by the State and/or EPA where required. The Denver Federal Center (DFC) has its own MS4 permit, follow this permit at the DFC.
- The Property Manager or Contracting Officer will incorporate language requiring adherence to all Stormwater environmental requirements into all GSA contracts where the potential exists to impact the Storm Sewer System.
- GSA Project Managers and Contracting Officer Representatives (CORs) are responsible for overseeing contractors' performance and compliance.
- The signature of the COR or Project Manager on the Receiving Report contained in

the contract file, implies that all contract requirements relating to this Stormwater Environmental Procedure have been met.

6.1 Stormwater Awareness & Training

- Contractors are responsible for knowing that only rainwater may go down a stormwater sewer drain. Contractors will train their staff in Stormwater compliance measures, required by law, their contracts and defined by this GSA, SEMS Environmental Procedure.
- CORs are responsible for overseeing that this has been completed and is effective.
- The SEMS Project Team is responsible for disseminating Stormwater Awareness information throughout GSA Region 8:

posters	training modules	newsletters
brochures	huddle topics	presentations

- The Storm Water Manager or Building Manager is responsible for placing curb markers beside each storm drain catch basin.
- The SEMS Action Team Lead for Stormwater is responsible for reviewing, updating, reporting and implementing, at least annually, all federal, state and local regulatory requirements.
- The EPG and Stormwater Program Manager will ensure that the DFC Storm Sewer System Map is current, showing the location of all outfalls.

6.3 Construction Site Stormwater Design, Runoff Control and Post Construction Stormwater Management

a. Project Managers or Contractors will assess proposed new projects for their potential to impact stormwater, whether by soil disturbance or discharge.

Employ design and construction strategies that reduce stormwater runoff and discharges of polluted site water runoff (Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings [Federal Leadership in High Performance and Sustainable Buildings Memorandum of Understanding, January 2006; "High Performance and Sustainable Buildings Guidance", Interagency Sustainability Working Group (ISWG), Dec. 2008]; GSA Region 8 Sustainability Requirements for High Performance Green Buildings - New Construction, Major Renovations & Existing Buildings Environmental Procedure).

Federal agencies are instructed to "*use site planning, design, construction, and maintenance strategies for the property to maintain or restore, to the maximum extent technically feasible, the predevelopment hydrology of the property with regard to the temperature, rate,*" for any project with a footprint that exceeds 5,000 square feet; approximately 71 feet by 71 feet (Section 438 of Energy Independence and Security Act of 2007 (EISA); EPA, Technical Guidance on Implementing the Stormwater

Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act, EPA 841-B-09-001, December 2009). Promote the use of decentralized stormwater management design strategies to maintain or restore site hydrology to pre-development conditions and promote water-efficient landscaping and irrigation strategies.

If stormwater impact potential exists, appropriate contracting documents need to address this concern, as ensured by the Project Manager or Contracting Officer:

- The Scope of Work, for construction projects
- The Performance Work Statement, for service contracts, such as the Grounds Maintenance and Snow Removal contract.

If needed, this information will be placed into any Change Request for Modification, if a contract needs modified.

b. Project Managers will include an Erosion Control Plan where storm drains could be impacted. This plan is required for DFC projects and may be applicable for Leadership in Energy & Environmental Design (LEED) projects. An Erosion Control Plan is part of the DFC Excavation Permit commonly called the DFC Dig Permit, and is required for DFC projects: See *GSA Region 8 Excavation 'Dig' Permit Environmental Procedure*:

c. The GSA Project Manager is responsible for the following aspects, relating to the DFC Dig Permit:
   - Submitting a completed Excavation Permit Request Form (see *GSA Region 8 Excavation 'Dig' Permit Environmental Procedure*) to the EPG DFC Dig Permit coordinator, prior to the disturbance of any earth.
   - Conveying the information in the DFC Dig Permit to the contractor performing the excavation work and all other parties who may be involved with the excavation.
   - Delivering a copy of the DFC Dig Permit to the Contracting Officer, for the Contracting Project files.

d. The EPG DFC Dig Permit coordinator will research and assess the potential for soil and groundwater contamination and then prepare the permit, detailing the depth to water and any necessary precautions. The permit is assigned a number, logged in the database, filed and a copy is provided to the GSA Project Manager.

e. Once it is determined that a project will disturb soils of any amount, the Contractor is required to initiate precautionary measures, as detailed in the Erosion Control Plan, to prevent discharge of potentially contaminated storm water or other non-storm related waters directly into a storm drain. Precautionary measures include, but are not limited to, the installation of silt fencing, absorbent material such as fiber rolls, straw bales, gravel bags (see examples at the EPA "National Menu of Stormwater Best Management Practices" website; Attachment B).

Projects involving soil disturbance of one acre or more require that the Contractor

prepare a stormwater management plan and submit the Notice of Intent (NOI) form to the EPA. Additionally, the Contractor will submi EPA NPDES Form 3510-9 to the EPA and a Storm Water Management Plan (SWMP) to the Project Manager or EPG at the GSA. The Contractor must comply with the NOI requirements, including the Stormwater Prevention Plan, for the duration of the project. The contractor is required to submit the NOI number to the SEMS Project Team for recording. The EPG or COR will conduct and record inspections of these projects on a regular basis.

Upon completion of the project, the Contractor will request a Notice of Termination (NOT) inspection. The COR or an agreed upon 3rd party will inspect for the NOT and check whether or not the SWMP and NOI requirements have been met. Once the inspection is complete and the NOT is approved, the Contractor will submit a Notice of Intent to the EPA and COR, if necessary.

f. Discharged water shall be directed away from all curbs and other areas where storm drains may exist.

g. Discharging non-storm water to lawn areas, open areas, or into a Baker tank truck, is considered acceptable practice. However, the Contractor must install protection around all of the storm drains which could be impacted.

h. GSA Project Managers will maintain oversight and conduct weekly inspections on any project requiring storm drain protection measures, to check the integrity of the protective measures and to ensure at the completion of the project that any observable material is removed from the storm drain area. Inspections are documented on the EPG, Excavation Permit: Excavation Inspection Report form (see *GSA Region 8 Excavation 'Dig' Permit Environmental Procedure*).

i. Upon completion of the project requiring the discharge of water, storm drain protection should be removed by the Contractor and it should be noted in the project file.

j. Contractors are required to adhere to the project design criteria as established in the design documents for the control, retention and detention of post construction runoff during storms and the removal of suspended solids from runoff.

6.4 Accidental and Deliberate Discharge Detection and Elimination:

a. Contract language will dictate the preventive measures required to be implemented by Contractors working at GSA facilities in order to avoid non-storm water discharges entering the storm sewer system. This will be ensured by the Project Manager or Contracting Office.

b. The Contractor is responsible for ensuring that their personnel are appropriately trained and compliant with these requirements. GSA Project Managers and CORs are responsible for monitoring contractors' performance and compliance.

c. Prevention of discharges:
   - Deliberate dumping into the stormwater system is illegal under the Federal Clean Water Act and is punishable by law.
   - The Building Manager, or assigned Contractor or individual inspects every mechanical room of all buildings monthly. If any spills or discharges are discovered, the Building Manager is notified and then the EPG is notified of any problems or potential problems.
   - Security measures are maintained at federal facilities. This reduces the potential for accidental or deliberate spills.

d. Contractors are governed by the Green Buildings and Grounds Maintenance elements of the SEMS, thereby reducing the use of hazardous chemicals which can impact the Storm Sewers.

e. Detection measures for non-stormwater discharges are performed:
   - By being observant;
   - Upon receipt of information from anyone at a federal facility reporting an observation or something suspicion;
   - As a result of a reported spill;
   - Where an MS4 permit or a Consent Order is in place, such as at the DFC: quarterly surface water sampling is performed as part of the Long Term Monitoring Program, and
     - Stormwater outfalls are inspected annually, during dry weather, for the presence of non stormwater discharges

f. Response to Accidental / illegal release:
   In the event of a non-stormwater (i.e., solvents, fuels, lubricants, dirt/sediment from a construction project, etc.) release indoors or outdoors into a Storm Sewer system notify the Building Manager or Supervisor. This material is not permitted to enter a storm drain.

   At the DFC if no supervisor can be found, then call 303-236-2911. The Environmental Procedure for Spill Response is followed for a non-stormwater release into a Storm Sewer system.

   The level of response varies according to toxicity. GSA CORs, Project Managers, Building and Property Managers all carry the Emergency Spill Cards, with contact details. The Spill Prevention Control and Countermeasure (SPCC) Plan is followed.

7.0 Records Management

The EPG are responsible for retaining the completed:
- DFC Excavation Permit Documents
- Inspection forms

- GSA Staff Training records
- Copies of completed NOI forms
- Storm Water Management Plan
- EPA NPDES Form 3510-9
- Notice of Termination

8.0 References

EPA, Technical Guidance on Implementing the Stormwater Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act, EPA 841-B-09-001, December 2009

Executive Order 13423 (Federal Register, Vol. 72, No. 17): "Strengthening Federal Environmental, Energy, and Transportation Management", signed by President George W. Bush on 24 January 2007

Executive Order 13514 (Federal Register, Vol. 74, No. 194): "Federal Leadership in Environmental, Energy, and Economic Performance", signed by President Barack Obama on 5 October 2009

Federal Leadership in High Performance and Sustainable Buildings Memorandum of Understanding, January 2006

H.R. 6--110th Congress [Public Law 110–140]: Energy Independence and Security Act (EISA) of 2007, Dec. 19, 2007

Interagency Sustainability Working Group (ISWG), as a subcommittee of the Steering Committee established by EO 13423, "High Performance and Sustainable Buildings Guidance", Final (12/1/08)

9.0 Appendices

Attachment A: Flowchart

Attachment B: Table 1: Examples of Control Measures and Table 2: Maintenance for Control Measures

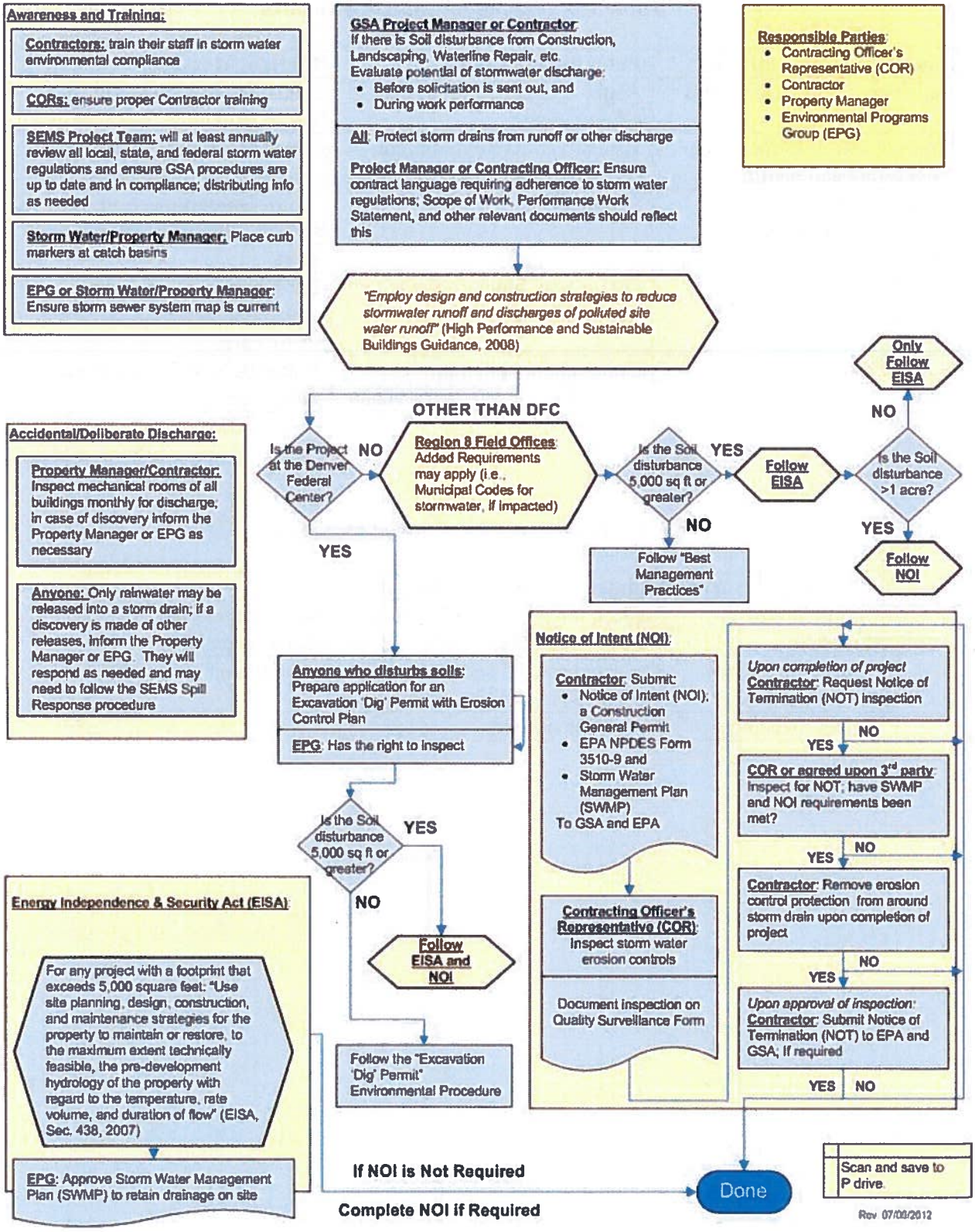
Attachment C: Construction Site Inspection Form

Document Control Information:	**Approved & Dated:**
Stormwater Management *"Month-Date-Year"*.doc	RJM 07/06/2012

Document Revision and Update:		
Revision Date	**Nature of Revision**	**Revision made by:**
11/29/2005	Working Draft	Elizabeth B. Roberts
03/13/2006	Original Release	Elizabeth B. Roberts

Revision Date	Nature of Revision	Revision made by:
09/14/2007	Updated - New Regulations	Sue Grant
7/21/2008	Updated	Sue Grant & Robert Melvin
10/10/2009	Add ISO 14001 Document Controls,	Robert Melvin
01/25/2010 to 10/18/2010	Add state regulations, add Flowchart, outline Region 8 requirements, and update to address new federal regulations (i.e. EISA Section 438).	Robert Melvin, William Fieselman
07/06/2012	Rewrite to incorporate MS4 permit requirements, reassess EISA Section 438, emphasize Roles and Responsibilities in section 6, update flowchart	John Kleinschmidt, William Fieselman, Nick Gutschow, Robert Melvin

ATTACHMENT A: Stormwater Flowchart



ATTACHMENT B
Table 1: Examples of Control Measures

Source Area or Activity	Potential Pollutants	Control Measures
Pavement removal activities	Asphalt, concrete, sediment, oil and grease	Storm Drain protection: silt fence, fiber rolls, straw bales
Grading activities including stockpiling and hauling	Asphalt, concrete, sediment, oil and grease	Storm Drain protection: fiber rolls and / or straw bales
Underground utility earthwork activities/ remediation	Sediment	Storm Drain protection: silt fence / fiber rolls / straw bales
Vehicle and equipment use, storage and maintenance	Oil, grease, fuels, coolants, detergents and sediment	Earthen berms, drip pans, absorbent materials, covering, straw bales
Solid Waste	Construction and domestic waste (floatables), and leachate	Water-tight and/or covered dumpsters

Table 2: Maintenance for Control Measures

Control Measure	Maintenance/Repair Measures
Storm Drain Protection	Replace torn/damaged filtering or absorbent materials, remove accumulated sediment, and adjust as necessary.
Fiber rolls / straw bales, silt fences	Replace damaged sections, remove accumulated sediment and debris, re-position as necessary.
Street Sweeping	Perform as needed.

ATTACHMENT C: Construction Site Inspection Form

	OVERALL CONDITION (Good, Fair, Poor)	NEED REPAIR? (Yes, No)	COMMENTS
STRUCTURAL MEASURES			
Sediment Containment Systems			
Hay Bale Barriers			
Silt Fence Barriers			
Rock Barriers			
Inserts			
Vehicle Tracking Pad			
***NON-STRUCTURAL MEASURES* and/or Swales**			
Diversion Dikes and/or Swales			
Slope Drains			
Temporary Vegetation			
Perennial Vegetation			
Mulch and/or BFM Protection			
Soil Binder Protection			
Hillside RECPs			
Drainage Channel TRMs			
Riprap and/or Gabions			

Will existing BMPs need to be modified or removed or additional BMPs installed? Y/N
If Yes, list the action items to be completed on the following table.

ACTIONS TO BE COMPLETED	DATE COMPLETED

Weather information since the last inspection was held.

EVENT	DATE BEGAN	DURATION (Hours)	AMOUNT (Inches)

Are uncontrolled releases of mud or muddy water from the site and/or deposits of sediment evident? Y/N
If yes, where and what corrective actions are to occur?

Are non compliance incidents evident? Y/N
If yes, describe:

Additional Comments:

Signature:_____

Adapted from Denver Federal Center, Draft 1 Storm Water Management Plan Chapter 5, May 2005

ATTACHMENT 8

Storm Sewer Inlet Inspection Record

SUBMITTAL

SCHEDULE FOR THE INSPECTION OF STORMWATER FEATURES

CONTRACT C.5.4.19.4.d and e

Storm Sewer Inlet Inspections

1 message

York, Cinde <Cinde.York@davey.com> Tue, Jan 21, 2014 at 12:57 PM
To: "bruced.johnson@gsa.gov" <bruced.johnson@gsa.gov>
Cc: "william.fieselman@gsa.gov" <william.fieselman@gsa.gov>, "Sharkey, Kevin" <Kevin.Sharkey@davey.com>

Bruce,

Attached is the inspection form from our storm sewer inlet inspections. I apologize for not sending you a schedule of when we begin this process. I simply began the process and forgot that I was supposed to inform you prior. Inspections began on 1/06/14 and were completed on 1/17/14.

This should take care of the following submittals:

C.5.4.19.4.e

C.5.4.19.4.c

Best Regards,

Cinde York

Quality Control Inspector/ACM

The Davey Tree Expert Company

One Denver Federal Center Bldg 45, E-1

Lakewood, CO 80225

PO Box 260608

Denver, CO 80226

Cinde.York@davey.com

Cell: 719-499-3799

DFC Storm Sewer Inlet Inspections 2014.pdf
2758K

WaterInlet#	Sediment (Y/N)	Sed.Depth	Sed.Type	InletType	Comments
1001	No	—	—	Curb Grate	
1002	Not Found	—	—	—	
1003	No	—	—	Curb Grate	
1004	Yes	1'2"	H^2O	Grate	
1005	No	—	—	Curb Grate	
1006	Yes	1/2"	Soot Pine Needles	Grate	
1007	Yes	2"	Soot	Curb Grate	
1008	Yes	3ft	H^2O	Curb Grate	
1009	No	—	—	Curb Grate	
1010	Yes	1"	Rocks Leaves	Curb Grate	
1011	Yes	1"	Leaves	Curb Grate	
1012	Yes	2"	Leaves	Curb Grate	
1013	No	—	—	Curb Grate	
1014	No	—	—	Grate	
1015	Yes	3"	Soot Leaves	Curb Grate	
1016	Yes	2"	Leaves	Curb Grate	
1017	Yes	1/4"	Leaves	Grate	
1018	Yes	2"	Leaves	Curb Grate	
1019	No	—	—	Grate	
1020	Yes	5"	H^2O Soot	Grate	
1021	Yes	1/4"	Dirt Leaves	Grate	
1022	Yes	3"	Leaves	Curb Grate	
1023	Yes	3"	Leaves	Curb Grate	
1024	No	—	—	Grate	
1025	Yes	2"	Leaves	Curb Grate	
1026	Yes	1ft.	Leaves	Curb Grate	
1027	Yes	1"	H^2O	Curb Grate	
1028	Yes	2"	Leaves	Curb Grate	
1029	Yes	5"	Soot Leaves	Curb Grate	
1030	Yes	1"	Soot Leaves	Curb Grate	
1031	Yes	4"	Soot H^2O		
1032	Yes	1"	H^2O Soot	Curb Grate	
1033	Yes	4"	Leaves	Curb Grate	
1034	Yes	4"	Leaves	Grate	
1035	Not Found				
1036	Yes	3"	Leaves	Curb Grate	
1037	Yes	3"	Leaves	Curb Grate	
1038	Yes	8"	H^2O	Curb Grate	
1039	Yes	1ft	H^2O	Grate	
1040	Yes	5"	H^2O	Curb Grate	
1041	Yes	4"	H^2O Soot	Curb Grate	
1042	Yes	5"	Soot	Curb Grate	
1043	Yes	1"	Rock Soot	Grate	
1044	Yes	5"	H^2O	Grate	
1045	Not Found				
1046	Not Found	(Roof top)?			

WaterInlet#	Sediment (Y/N)	Sed.Depth	Sed.Type	InletType	Comments
1047	YES	4"	H_2O SOOT	GRATE	
1048	YES	1"	H_2O, SOOT LEAVES	Curb GRATE	
1049	YES	1"	H_2O, SOOT LEAVES	Curb Grate	
1050	YES	2"	H^2O	Curb Grate	
1051	YES	7"	H^2O	GRATE	
1052	YES	3"	H^2O SOOT	GRATE	
1053	YES	1"	H^2O	GRATE	
1054	YES	1"	H^2O	GRATE	
1055	YES	3"	H_2O, SOOT LEAVES	Curb GRATE	
1056	YES	3"	H^2O	CurbGRATE	
1057	YES	4"	H^2O	CurbGRATE	
1058	YES	4"	H^2O	CurbGRATE	
1059	YES	5"	LEAVES	CurbGRATE	
1060	YES	4"	LEAVES	CurbGRATE	METAL BACKING IS ON DRAIN IS BROKEN.
1061	NO	—	—	GRATE	
1062	NO	—	—	GRATE	
1063	YES	9"	H^2O, SOOT	Curb GRATE	
2001	YES	6"	H^2O SOOT	Grate	
2002	NO				
2003	YES	1 ft.	LEAVES	Curb/Grate	
2004	YES	1ft	LEAVES	Curb/Grate	
2005	YES	1ft	H^2O SOOT	Grate	
2006	YES	2"	LEAVES	Curb/Grate	
2007	YES	3"	LEAVES	Grate	
2008	YES	4"	SOOT LEAVES	Grate	
2009	YES	4"	LEAVES	Curb/Grate	
20010	YES	8"	LEAVES	Curb/Grate	
2011	YES	5"	H_2O, SOOT LEAVES	GRATE	
2012	YES	5"	LEAVES	GuobGRATE	
2013	YES	9"	SOOT H^2O	GRATE	
2014	YES	3"	LEAVES	Curb/Grate	
2015	YES	2"	LEAVES	Curb/Grate	
2016	YES	1/2"	LEAVES	Curb/Grate	
2017	YES	1"	SOOT	Grate	
2018	YES	1"	SOOT	Grate	
2019	YES	1/2"	SOOT	Grate	
2020	YES	2"	LEAVES	Curb Grate	
2021	YES	2"	LEAVES	Curb Grate	
2022	YES	3"	LEAVES	Curb Grate	
2023	YES	3"	LEAVES	Curb Grate	
2024	YES	1/2"	SOOT	Grate	
2025	YES	7"	H^2O	Grate	
2026	YES	3"	SOOT	Grate	
2027	YES	1"	LEAVES	Curb Grate	
2028	YES	2"	LEAVES	Curb Grate	
2029	YES	7"	LEAVES	Grate	

WaterInlet#	Sediment (Y/N)	Sed.Depth	Sed.Type	InletType	Comments
2030	YES	1"	LEAVES	Grate	
2031	YES	3"	LEAVES	Curb Grate	
2032	YES	4"	LEAVES	Curb Grate	
2033	YES	5"	LEAVES	Curb Grate	
2034	YES	1ft	H^2O	Grate	
2035	NO	-	-	Curb Grate	
2036	YES	5"	H^2O, LEAVES Dirt	Grate	Drain is clogged. (~~curbside~~ MAIN ST West OF STAND ALONE Guard shack
2037	NO	-	-	GRATE	
2038	YES	1"	H^2O, Mud, Rocks	GRATE	
2039	YES	4"	H^2O, LEAVES Dirt	Curb	
2040	YES	2"	H^2O, LEAVES Dirt	Curb	
2041	YES	1'4"	LEAVES	Curb	
2042	YES	3"	H^2O	Curb/Grate	Very Deep. Appx. 15' (CURBSIDE SE of W side of 1ST ST Bldg 20
2043	YES	2"	LEAVES	Curb/Grate	
2044	YES	TOO DEEP TO MEASURE	H^2O	GRATE	
2045	YES	2"	LEAVES	Curb/Grate	
2046	YES	4"	LEAVES	Curb/Grate	
2047	YES	1"	LEAVES	Curb/Grate	
2048	YES	1"	LEAVES	Curb/Grate	
2049	YES	2"	LEAVES	Curb/Grate	
2050	YES	1"	LEAVES	Curb/Grate	
2051	YES	2"	LEAVES	Curb/Grate	
2052	YES	5"	LEAVES, Trash	Curb/Grate	
2053	YES	4"	H^2O, LEAVES, Mud	Grate	
2054	YES	2"	H^2O, Needles, LEAVES, PODS	Curb/Grate	
2055	YES	1"	LEAVES, PODS	Curb/Grate	
2056	YES	1"	DIRT	~~BAR~~ GRATE	
2057	NO	-	-	Curb/Grate	
2058	YES	2"	LEAVES	Curb Grate	
2059	YES	2"	LEAVES	Curb/Grate	
2060	YES	5ft.	H^2O	Curb/Grate	Drain is clogged (S side center at 2ND ~~S side~~ CONCRETE shut
2061	NOT FOUND				
2062	NOT FOUND				
2063	YES	1/4"	LEAVES	Grate	
2064	YES	1'6"	Dirt	Grate	Grate was covered with felt. (open area SE corner 3rd+Center
2065	YES	1"	SOOT, LEAVES	Grate	
2066	YES	1"	SOOT, LEAVES	Grate	
2067	YES	4"	H^2O, SOOT	Grate	
2068	NO	-	-	Curb Grate	
2069	YES	~~1/2~~ 1"	LEAVES, DEBRIS	Grate	
2070	YES	1/2	LEAVES	Grate	
2071	YES	1 1/2	LEAVES, ~~SOOT~~	Grate	
2072	YES	3"	LEAVES SOOT	Grate	
2073	YES	1"	LEAVES	Curb/Grate	
2074	NO	-	-	Curb GRATE	
2075	YES	1"	LEAVES	Curb GRATE	

WaterInlet#	Sediment (Y/N)	Sed.Depth	Sed.Type	InletType	Comments
2076	YES	1"	SOOT H^2O	Curb Grate	
2077	YES	2"	LEAVES	Curb/Grate	
2078	YES	1"	LEAVES	Curb/Grate	
2079	YES	2"	LEAVES	Curb/Grate	
2080	YES	3"	LEAVES	Grate	
2081	YES	2"	LEAVES, PODS	Curb/Grate	
2082	YES	3"	LEAVES, PODS	Curb/Grate	
2083	YES	3"	LEAVES	Curb/Grate	
2084	YES	2"	LEAVES	Curb/Grate	
2085	YES	1"	H^2O	Curb/Grate	
2086	YES	4"	LEAVES, DIRT	Curb/Grate	
2087	YES	2"	H^2O	Grate	
2088	YES	5"	H^2O, LEAVES	Grate	
2089	YES	1/2"	H^2O	Grate	
2090	NO			Grate	
2091	YES	5"	H^2O, LEAVES MUD		
2092	YES	2"	LEAVES	Curb	
2093	NOT ON MAP				
2094	YES	2"	H^2O, LEAVES MUD	Curb	
2095	YES	3"	LEAVES MUD	Curb/Grate	
2096	YES	2"	LEAVES MUD	GRATE	Curb broken above grate
2097	YES	3"	LEAVES, MUD	Curb/GRATE	
2098	NO	—	—		
2099	NO	—	—		
2100	YES	1 1/2"	PEBBLES, LEAVES	Grate	
2101	YES	1/2"	LEAVES	Curb/Grate	
3001	YES	1"	SOOT	Curb Grate	
3002	YES	1"	SOOT	Curb Grate	
3003	YES	1"	LEAVES	Curb Grate	
3004	YES	2"	H^2O LEAVES	Curb Grate	
3005	YES	3"	SOOT	Curb Inlet	
3006	YES	1"	LEAVES	Curb Inlet	
3007	YES	3"	LEAVES	Curb Grate	
3008	YES	3"	SOOT LEAVES	Curb Grate	
3009	NO	—	—	Curb Grate	
3010	YES	4"	LEAVES	Curb Grate	
3011	NO	—	—	Grate	
3012	YES	5"	SOOT	Grate	
3013	NO	—	—	Curb Grate	
3014	YES	3"	LEAVES	Curb Grate	
3015	YES	5"	H^2O	Grate	
3016	YES	5"	SOOT H^2O	Curb Grate	
3017	YES	1/2	SOOT	Curb Grate	
3018	NO	—	—	Curb Grate	
3019	NO	—	—	Curb Grate	
3020	YES	3"	SOOT	Grate	

WaterInlet#	Sediment (Y/N)	Sed.Depth	Sed.Type	InletType	Comments
3021	YES	3"	SOOT	GRATE	
3022	YES	4"	SOOT	Grate	
3023	YES	1"	LEAVES	Curb Grate	
3024	YES	1"	LEAVES	Curb Grate	
3025	NO	—	—	GRATE	
3026	YES	1"	H^2O	GRATE	
3027	NO	—	—	Curb GRATE	
3028	NO	—	—	Curb Grate	
3029	YES	2"	SOOT LEAVES	Curb Grate	
3030	YES	2"	LEAVES	Curb Grate	
3031	YES	3"	LEAVES	Curb Grate	
3032	YES	3"	LEAVES	Curb Grate	
3033	NO	—	—	Curb Grate	
3034	YES	1"	LEAVES	Curb Grate	
3035	YES	2"	LEAVES	Curb INLET	
3036	YES	2"	H^2O LEAVES	Curb INLET	
3037	YES	4"	LEAVES	CURB INLET	
3038	NO	—	—	Curb INLET	
3039	NO	—	—	Curb Grate	
3040	NO	—	—	Curb Grate	
3041	NO	—	—	Curb GRATE	
3042	YES	2"	H^2O SOOT	Grate	
3043	NO	—	—	Curb GRATE	
4001	YES	2"	SOOT LEAVES	Curb Grate	Concrete around drain is broken
4002	YES	8"	H^2O	GRATE	
4003	YES	1 ft	H^2O	GRATE	
4004	YES	1 ft.	H^2O, SOOT LEAVES	GRATE	
4005	YES	9"	H^2O	GRATE	
4006	YES	3"	SOOT LEAVES	Curb Grate	
4007	YES	2"	LEAVES	Curb Grate	
4008	NO	—	—	Curb Grate	
4009	NO	—	—	Curb GRATE	
4010	NO	—	—	GRATE	
4011	NO	—	—	Grate	
4012	NO	—	—	Curb Grate	
4013	YES	1"	LEAVES	Curb Grate	
4014	YES	1 ft	H^2O SOOT	GRATE	
4015	NO	—	—	Curb Grate	
4016	YES	1"	LEAVES	Curb GRATE	
4017	YES	2"	SOOT LEAVES	Curb Grate	
4018	YES	2"	LEAVES	Grate	
4019	YES	3"	LEAVES	GRATE	
4020	NO	—	—	GRATE	
4021	YES	1"	H^2O	GRATE	
4022	YES	1"	H^2O	GRATE	
4023	NO	—	—	GRATE	

WaterInlet#	Sediment (Y/N)	Sed.Depth	Sed.Type	InletType	Comments
4024	No	-	-	Grate	
4025	No	-	-	Grate	
4026	Yes	8"	H^2O	Curb Grate	
4027	Yes	8"	H^2O	Curb Grate	
4028	Yes	1"	H^2O	Grate	
4029	Yes	8"	H^2O	Curb Grate	
4030	Yes	2"	Leaves	Grate	
4031	Yes	1"	Leaves	Curb Grate	
4032	Yes	1"	Leaves	Curb Grate	
4033	Yes	5"	H^2O	Curb Grate	
4034	Yes	4"	Soot, H^2O Leaves		
4035	Yes	3"	Soot	Grate	
4036	Yes	1"	Leaves	Grate	
4037	Yes	1"	Leaves	Curb Grate	
4038	Yes	6"	H^2O Soot	Grate	
4039	Yes	5"	Mud	Grate	
4040	Yes	1"	Mud	Grate	
4041	Yes	1"	H^2O	Grate	
4042	No	-	-	Grate	
4043	Yes	4"	Soot	Grate	
4044	Yes	3"	Soot Leaves	Curb Grate	
4045	Yes	3"	Leaves	Curb Grate	
4046	No	-	-	Grate	
4047	Yes	3"	Leaves	Curb Grate	
4048	Yes	2"	Soot	Grate	
4049	Yes	1"	Soot	Curb Grate	
4050	Yes	1 ft	~~H^2O~~ Leaves ~~Soot~~	Curb Grate	
4051	Yes	4"	Soot Leaves	~~Curb~~ Grate	
4052	Yes	3"	Leaves	Curb Grate	
4053	Yes	2"	Leaves	Curb Grate	
4054	Yes	2"	Soot Leaves	Grate	
4055	No	-	-	Grate	
4056	Yes	1"	Leaves	Grate	
4057	Yes	3"	Leaves	Curb Grate	
4058	Yes	1"	Leaves/Soot	Curb Grate	
4059	Yes	1/2"	Leaves	Curb Grate	
4060	NO	-	-	Grate	
4061	Yes	2"	Leaves	Curb Grate	
4062	Yes	3"	Leaves	Curb Grate	
4063	Yes	2"	Leaves	Curb Grate	
4064	Yes	2"	H^2O	Grate	
4065	Yes	2"	Leaves	Curb Grate	
4066	Yes	1"	Soot	Grate	
4067	Yes	6"	Leaves	Curb Grate	
4068	Yes	6"	Leaves	Curb Grate	
4069	Yes	3"	Leaves	Curb Grate	

WaterInlet#	Sediment (Y/N)	Sed.Depth	Sed.Type	InletType	Comments
5000	Not Found	ou	Map		
5001	NA	—	—	Curb Inlet	
5002	No	—	—	Curb Inlet	
5003	NO-	—	—	Curb Inlet	
5004	NO	—	—	Curb Inlet	
5005	NO	—	—	Grate	
5006	Yes	2"	Soot	Curb Inlet	
5007	Yes	4"	Soot	Grate	
5008	Yes	1'6"	H_2O	Curb Inlet	
5009	Yes	1"	H_2O Leaves	Curb Inlet	
5010	No	—	—	Grate	
5011	Yes	2"	Soot H_2O	Grate	
5012	Yes	3"	Soot Leaves	Grate	

ATTACHMENT 9

GSA Vision for McIntyre Gulch within the Denver Federal Center

GSA Vision for McIntyre Gulch within the Denver Federal Center

The Denver Federal Center (DFC) is authorized by Permit No.: CO-R 042004 (effective date October 20, 2011), to discharge from all municipal separate storm sewer outfalls within the boundaries of the facility. This permit was issued by the U.S. Environmental Protection Agency under the National Pollutant Discharge Elimination System.

Section 3.1.3 of this permit requires the following: "The permittee must develop a vision and/or design guidelines for McIntyre Gulch which define how it can be re-configured, conserved, and managed as a high quality receiving water and as an amenity for the Denver Federal Center within 3 years of the effective date of this permit. This could include a vision for how to reconstruct channels to include meanders, drop structures, and to utilize and enhance the function of the existing wetlands. This could also include a vision of how to connect McIntyre Gulch to existing pedestrian corridors or to provide alternative access points so it could be utilized as a recreational amenity for the Denver Federal Center if so desired."

In response to this requirement the following vision for McIntyre Gulch within the DFC has been developed.

McIntyre Gulch flows west to east for approximately 5,220 feet through the southern portion of the DFC. The present status of and vision for the gulch, starting at the west boundary of the DFC and progressing east, is as follows:

West Boundary to Eighth Street. In 2011 this entire upper reach of McIntyre Gulch was the focus of the McIntyre Gulch Channel Improvement Project. The purpose of the project was to improve flood conveyance and channel and bank stabilization. Bank stabilization was necessary to halt bank erosion and protect existing infrastructure on both the north and south banks of the upper reach of the channel within the DFC. Grade control structures were installed to decrease flow velocity, thereby reducing further down cutting of the channel bottom and bank erosion. Culvert improvements at Eighth Street were included to ensure safe passage of flood-stage waters. The project was performed under an Individual Permit for impacts to jurisdictional waters of the U.S., including wetlands. The permit under the Corps File Number is NWO-2010-307-DEN.

No additional work is envisioned for this section of McIntyre Gulch.

Eighth Street to Seventh Street. Downstream of the culvert improvements at Eighth Street described above, this section of McIntyre Gulch has received no reconstruction or enhancement. Contained within this reach of the gulch is an area of naturally occurring wetlands. These wetlands have been classified jurisdictional and are viewed as a very important natural amenity to the DFC.

The DFC vision for this reach of the gulch is to keep these wetlands fully functional and flourishing and will commit the resources necessary to accomplish this.

No other modifications to this reach of the gulch are envisioned.

Seventh Street to Main Avenue. This section of the McIntyre Gulch channel has received no reconstruction or enhancement since the facility was constructed in the early 1940's.

Areas adjacent to the channel on both the north and south side of the gulch have exerienced earthwork and landscaping. On the north side of the gulch landscaping has been installed for aesthetic purposes and a concrete walking path has been installed for the use of the DFC tenants. Also on the north side of the gulch an exterior sculpture was installed in 2014 as part of GSA's Art in Architecture Program. However, none of the work on the north side of the gulch was performed for stormwater management or channel enhancement purposes.

In 1993, a stormwater retention basin was excavated on the south side McIntyre Gulch to retain and ensure safe passage of potential flood-stage waters. This retention basin was designed to capture and retain flood water overtopping the channel bank. There was/is no direct connection from the channel to the retention basin or from the retention basin back into the channel. The gulch channel was not modified as part of this work.

Also at the time of the retention basin excavation, a bridge was constructed over the gulch to allow vehicular access to the undeveloped southern portion of the DFC. The McIntyre Gulch channel flows through a concrete box culvert constructed under this bridge.

At the east end of this section, as part of the McIntyre Gulch Channel Improvement Project in 2011 (see description of West Boundary to Eighth Street section above), culvert improvements at Main Street were constructed to ensure safe passage of flood-stage waters.

No additional work is envisioned for this section of McIntyre Gulch. However, GSA is open to proposals from the Urban Drainage and Flood Control District (UDFCD) or the City of Lakewood for future flood conveyance and channel and bank stabilization projects.

Main Avenue to East Boundary. This section of the McIntyre Gulch channel also has received no reconstruction or enhancement since the facility was constructed in the early 1940's.

Areas adjacent to the channel on both the north and south side of the gulch have experienced minor landscaping and facility maintenance work but none of the work was performed for stormwater management or channel enhancement purposes. There are no walking paths or other tenant amenities along this section.

At the west end of this section, as part of the McIntyre Gulch Channel Improvement Project in 2011 (see description of West Boundary to Eighth Street section above), culvert improvements at Main Street were constructed to ensure safe passage of flood-stage waters.

No additional work is envisioned for this section of McIntyre Gulch. However, GSA is open to proposals from the Urban Drainage and Flood Control District (UDFCD) or the City of Lakewood for future flood conveyance and channel and bank stabilization projects.