City of Caldwell, Idaho

7th Annual Municipal Separate Storm Sewer (MS4) Report

NPDES Permit No. IDS-028118

October 2015 to December 2016

Submitted to

United States Environmental Protection Agency

Storm Water Program

Region 10, Seattle, Washington

&

Idaho Department of Environmental Quality

Boise Regional Office

Boise, Idaho

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Certification of Report

"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: _____ Date: 1/12/17

Garret Nancolas, Mayor, City of Caldwell

Background

On September 4, 2009, the EPA Office of Water and Watersheds issued NPDES permit IDS-028118 to the City of Caldwell for their MS4. The permit became effective October 15, 2009, and the permit would also expire at midnight October 14, 2014. The City of Caldwell is presently still operating under NPDES permit IDS-028118 because a replacement permit has not yet been issued by EPA. With the intent to continue to operate its municipal storm water system, the permittee City of Caldwell re-applied for a new permit in 2014, prior to the expiration of IDS-028118.

Introduction

The Storm Water Management Program (SWMP) is responsible for the following six areas of municipal storm water management:

1. Public Education and Outreach
2. Public Involvement/participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Storm Water Runoff Control
5. Post-Construction Storm Water Management in New Development and Redevelopment
6. Pollution Prevention and Good Housekeeping for Municipal Operations

This annual report discusses the permit requirements, the status of each of the abovementioned responsibilities, and the monitoring requirements. The requirements were phased in over a four year period, and all requirements were completed prior to the end of the permit cycle.

Please note that the annual report deadline in the permit was stated as "no later than March 15 of each year beginning in year 2011." However, Pioneer Irrigation District (PID) filed a petition for review of the permit. After reviewing PID's petition, EPA issued the November 18, 2009 notice which stated that the Permit would become fully effective and enforceable 33 days from the date of the notice. This notice changed the effective dates from October 15, 2009 to December 21, 2009. The permit dates have been adjusted to reflect this change in the start of the permit. Therefore, NPDES permit IDS-028118 actually expired December 21, 2014. The EPA approved an extension of IDS-028118 and re-adjusted the new end date of the annual reporting cycle to October 1, 2015. The City continues to operate under IDS-028118 and its requirements as it awaits a new permit.

Public Education and Outreach

Permit Requirements:

a) By December 21, 2011, the City must develop and implement an ongoing public education program to educate the community about the impacts of storm water discharges on local water bodies and the steps that citizens and business can take to reduce pollutants in storm water runoff.

b) By December 21, 2011 and at least twice per year thereafter, the City must distribute appropriate storm water educational materials to the target audience.

c) By December 21, 2011 and at least once per year thereafter, the City must update its storm water information webpage with appropriate educational information.

Program Implementation

a) The City remained a contributing member and participant in the Partners for Clean Water organization. In 2016 held a series of community trainings on green storm water practices. The highlight of the year was the 2016 Technical Stormwater Conference held on September 15, 2016 at the Owyhee hotel in downtown Boise. In addition, the Partners for Clean Water website provides a community calendar of clean water related events, as well as online newsletters, training videos, and public NPDES compliance documents. For more information on Partners for Clean Water upcoming events, go to http://www.partnersforcleanwater.org/eventstraining/calendar/.
During 2016, Partners for Clean Water sponsored an electronic sign letting the public know the importance of keeping the Boise River clean.

b) The City continues to house two Eddie-the-Trout display carts at public locations. The Partners for Clean Water's Eddy-the-Trout public information displays are located in the City's Development Services Building and the City Library. Both of these municipal facilities make environmental best practices information easily accessible to the public. The Eddy-the-Trout display features natural pest control methods, rather than the use of potentially harmful chemicals.

Photo courtesy of Caldwell Engineering Department

The City's Parks Department maintains multiple dog cleanup stations at most of the City parks and along the greenbelt. These stations with a message about preventing pollution make it easier for the public to clean up after their pets. The City Parks Department added three stations in the last year. This makes a total of 18 dog cleanup stations in the City.

c) The webpage for storm water was implemented on December 20, 2011. To inspect the site go to www.cityofcaldwell.org. Then choose Departments > Engineering > Storm Water. This webpage displays information on public involvement in cleaning up the community, public education on storm water issues, City storm water ordinances, and a contact number for reporting illicit discharges. This webpage is updated annually to include each new annual report.

See CD 1 Appendix A: Public education

Public Involvement/Participation

Permit Requirements:

a) The City must comply with applicable State and local public notice requirements when implementing a public involvement/participation program.

b) The City must make all relevant SWMP documents and all Annual Reports required by this permit available to the public. By December 21, 2012, all SWMP documentation and Annual Reports must be posted online through its regularly maintained website.

c) The City must involve interested stakeholders in the development of the City's construction site runoff control program. The meeting schedule must be made known to the public, EPA and IDEQ through direct mail, email notification, and/or other locally appropriate means.

d) By December 21, 2011, and at least once a year thereafter, the City shall host a public meeting regarding the SWMP and progress to date.

e) At least once a year starting by December 21, 2009, the City shall organize, promote and participate in community Clean up Day(s)

f) By December 21, 2011, the City must organize and conduct a storm drain stenciling program. Within four years (by 12/21/13) of the effective date of the permit, at least 75% of storm drains throughout the City's jurisdiction must be stenciled.

Program Implementation

a) The City presently complies and will continue to comply with the public notice requirement when implementing a public involvement/participation program.
b) The City's Storm Water Public Involvement webpage includes contact information for the Storm Water Project Engineer, as well as each of the annual reports associated with NPDES permit IDS-028118 since 2009.
c) The City of Caldwell's Engineering Department did not hold any public meeting specifically to receive public comment on changes proposed to the City of Caldwell construction site runoff control program.

d) The City's Municipal Storm Water Management Manual was issued in 2009. During the past year, the City received no proposed changes to the Manual. Therefore, the City of Caldwell's Engineering Department did not hold a public meeting to address the development of or any proposed changes to the City of Caldwell Storm Water Management Plan this year.

See CD1 Appendix B: Caldwell Municipal Stormwater Management Manual

e) City of Caldwell staff helped to organize, promote, and participate in Boise River Sweep again this year. Boise River Sweep was held on September 10, 2016. The Lower Boise River Sweep had about 45 volunteers cleaned up the Boise River from Eagle to the mouth near Parma. Many of these volunteers cleaned up Caldwell's City greenbelt along the Boise River and the adjacent parks as part of the Boise River Sweep campaign. Approximately 8 cubic yards of trash was collected along the lower Boise River. This is an annual event, with the next Boise River Sweep scheduled for mid-September 2017.

See CD 1 Appendix C: Community Cleanup

f) The City's storm drain marking program has not marked any additional storm drains this year. However, a total of 2,217 storm drains have been marked since the beginning of the permit.

See CD 1 Appendix D: Storm Drain marking

Illicit Discharge Detection and Elimination (IDDE)

Permit Requirements:

a) By December 21, 2012, the City must develop and implement a plan to detect and eliminate illicit discharges into their MS4, including roadways and associated drainage facilities, ditches, pipes, culverts, catch basins, and retention ponds in the permit area. This plan must include written spill response procedures for detection, identification of the source, and removal of non-storm water discharges from the MS4. This plan must address illegal dumping into the MS4, and include training for City staff on how to respond to reports of illicit discharges. The City must develop an information management database system to track the activities and actions of the program.

b) By December 21, 2012, the City must effectively prohibit non-storm water discharges into the MS4 through an ordinance. The City must implement appropriate enforcement procedures and actions, including a written policy of enforcement escalation procedures for recalcitrant or repeat offenders.

c) Through the ordinance set forth in the above section b), the City must prohibit any of the non-storm water flows not meeting the requirements in the permit. The City must document to EPA in the Annual Report any existing local controls or conditions placed on the types of non-storm water discharges in the permit.

d) By December 21, 2012, the City must update and complete its comprehensive MS4 map. At a minimum, the map(s) must show jurisdictional boundaries: the location of all City-owned or operated storm sewers, culverts, ditches, and other conveyances: the location of all inlets and outfalls: points at which the City's MS4 is interconnected with other MS4s: names and locations of all waters that receive discharges from those outfalls: locations of all city-owned or operated facilities, including all maintenance/storage facilities, and city-owned or private snow disposal sites. Location of all outfalls must also be provided in latitude and longitude, and the diameter of all outfalls must be provided with the map. The map must be available in electronic or digital format as appropriate. A copy of the completed map (s), as both a report and as an electronic file via Arc GIS format, must be submitted to EPA and IDEQ as part of the corresponding Annual Report.

e) By December 21, 2012, the City must begin an ongoing education program to inform users of the MS4, especially public employees, businesses, and the general public of

hazards associated with illegal discharges and improper disposal of waste. This program must be conducted in concert with the public education requirement.

f) By December 21, 2012, the City must begin dry weather field screening for non-storm water flows from all storm water outfalls. By December 21, 2014, at least 20% of the City's outfalls within the City Limits must be screened for dry weather flows. The screening should include field tests of selected parameters as indicators of discharge sources. The City must investigate any illicit discharge within fifteen days of its detection, and must take action to eliminate the source of the discharge within 45 days of the detection.

g) By December 21, 2012, the City must inventory all industrial facilities that discharge directly to the City's MS4 within the permit area and submit this inventory as part of the corresponding Annual Report. This inventory must include the names and address of the facility and the location of its outfall.

Program Implementation

a) The City of Caldwell IDDE program is managed by the Storm Water Project Engineer (SWPE). The SWPE has trained the City's Engineering, Fire, Parks, Police, Street, Water, and Wastewater Department staff to recognize and report suspected illicit discharges to the Engineering Department for investigation. This allows an additional set of on-the-ground City employees to be alert to the condition of the MS4 throughout the year and in multiple locations at any given time. In addition, members of the City of Caldwell community may contact the SWPE to report suspected illicit discharges (hotline information is on the Storm Water webpage of City website). Each suspected illicit discharge is investigated within 2 weeks of the finding. The SWPE will fill out an Illicit Discharge Incident Tracking Sheet for recording purposes and take necessary action to end the discharge. In addition, the SWPE has developed a Storm Water Pollution Prevention & Spill Response Plan for specific use by the City's Street Department.

See CD1 Appendix E: Citizen Stormwater Hotline; Storm Water Pollution Prevention & Spill Response Plan

b) The City has passed the Stormwater Management and Discharge Control Ordinance (City Code Chapter 13 Article 1) to make discharges to the City's stormwater systems that are not covered in our MS4 a violation.

c) The City has passed the Stormwater Management and Discharge Control Ordinance (City Code Chapter 13 Article 1) to make discharges to the City's storm water systems that are not covered in our MS4 a violation. City crews have been trained to recognize and report any illicit discharge that they observe to the storm water engineer. The City Engineering Department has an incident reporting form to be filled out on all reported illicit discharges and the SWPE investigates any reported activity and recommends action.

d) The City has developed a current ArcGIS storm drain map of the City of Caldwell. This map is continually being upgraded to reflect the additional requirements under the permit. The outfall diameters are being verified when they are inspected for dry weather flows. Since the permit went into effect the City has incorporated over 280 additional acres (138 acres added in the last year). A DVD copy of the current City's storm water map is attached to this report.

See CD 1 Appendix F: Stormwater Map

e) The City joined Partners for Clean Water for a regional approach to public education. The Partners for Clean Water website has information to the public awareness of the effects of storm water pollution. This will increase the volume of publicity available to inform the public about storm water.

f) Each year the Storm Water Project Engineer coordinates inspection of 20% of the MS4 outfalls by performing dry weather monitoring. The City staff is using software called Enterprise as a recording form and a tracking system for dry weather screening of storm water outfalls. They have completed 70 field visits at this time. This equals 20% of the current outfalls. The status of this item has not changed in the last year.

g) The City has a working inventory of all industrial facilities that discharge directly to the Caldwell's MS4.

See CD 1 Appendix G: List of Industries connected to the City of Caldwell MS4

Construction Site Storm Water Runoff Control

Permit Requirements:

a) By December 21, 2012, the City must implement and enforce a program to reduce pollutants in any storm water runoff to the MS4 from construction activities resulting in land disturbance of greater than or equal to one acre. This program must also include controls for pollutants in such storm water discharges from activities disturbing less than one acre, if that construction activity is part of a larger common plan of development or sale that disturbs one acre or more.

b) The City must provide appropriate information to representatives of proposed new development and redevelopment construction projects concerning the NPDES General Permit for Storm Water Discharges for Construction Activity in Idaho.

c) By December 21, 2012, the City must adopt an ordinance or other regulatory mechanism to the extent allowable under state or local law that requires all construction site operators to practice appropriate erosion, sediment and waste control. This ordinance or regulatory mechanism must include sanctions to ensure compliance.

d) By December 21, 2012, the City must publish and distribute requirements for construction site operators to implement appropriate erosion and sediment controls BMPs and to control waste (such as discharged building supplies, concrete truck washout, chemicals, litter and sanitary waste at a construction site) that may cause adverse impacts to water quality.

e) By December 21, 2012, the City must develop procedures for reviewing all pre-construction site plans for potential water quality impacts, including erosion and sediment controls, control of other wastes, and any other impacts according to the requirements of the law, ordinance, or other enforceable mechanism created to comply with adopted storm water runoff ordinances. These procedures must include provisions for receipt and consideration of information submitted by the public.

f) By December 21, 2012, the City must implement a program to receive, track, and review information submitted by the public regarding construction site erosion and sediment control complaints.

g) By December 21, 2012, the City must develop and implement procedures for site inspection and enforcement of control measures established as required by ordinances and including a written policy of enforcement escalation procedures for recalcitrant or repeat offenders. By December 21, 2012, the City must inspect all construction sites in the permit area disturbing five acres or more for appropriate erosion/sediment/waste control practices at least once per construction season. By December 21, 2012, the City must also develop a written policy identifying how construction sites disturbing less than five acres will be prioritized for inspection.

h) The City must comply with the Construction General Permit and all relevant local requirements for erosion, sediment and onsite materials control on public construction projects. The City must ensure that all contractors working on behalf of the City are complying with the Construction General Permit and all relevant local requirements for erosion, sediment, and onsite materials control on construction projects. The City must incorporate specific language in all contracts ensuring appropriate storm water management on all public construction projects.

Program Implementation

a) On December 3, 2012, Caldwell City Council passed a construction activities ordinance for projects disturbing greater or equal to one acre (See City Code Chapter 4 Article 19: Erosion and Sediment Control/Grading). Construction activities are monitored until the Notice of Termination (NOT) has been filed on a project.

   Each year, the City calls upon the consulting firm of Brown and Caldwell to present a training session on the duties of an inspector on a SWPPP inspection. This class was attended by the City's Engineering Department inspectors and staff engineers. The inspectors use the model inspection report developed by EPA. Starting December 21, 2012 the NPDES General Permit gave the City authority to start the inspection and management of all projects that disturb an acre or more.

   The City of Caldwell SWPPP inspectors inspected 39 different construction sites a total of 3,050 times this past year.

b) The City maintains a web site that allows developers to view and print the current construction activities ordinance.

c) The abovementioned construction activity ordinance (City Code Chapter 4 Article 19: Erosion and Sediment Control/Grading) requires operators to implement appropriate

erosion, sediment and waste control. This ordinance also contains penalties for non-compliance.

d) Rather than the City publishing and distributing a set of BMPs, the City adopted as part of their construction activity ordinance, The Idaho Construction Site Erosion and Sediment Control Field Guide. This guide is a product of a partnership of many organizations coordinated by the Idaho Small Business Development Center. This will allow a more uniform approach for the developers in the valley.
e) The City requires that any project that files a Notice of Intent (NOI) must submit a copy of the SWPPP for review by the Engineering Department. A City inspector is then assigned to the project until a NOT is issued.
f) The City's Storm Water webpage includes a hotline to report illicit discharges as well as construction site erosion and sediment control complaints, as the hotline is a direct contact to the SWPE. In addition, the City has adopted the Enterprise software which includes a citizen call program for storage of information submitted by the public on any given project. City personnel can then link the call to any facility in the system.
g) The present new-construction activity pace is such that City personnel can allow the inspectors to conduct site visits to all the current projects. This includes projects which are greater than 1 acre in size.
h) The City requires that the contractors file a NOI with EPA on all projects that meet the requirements of projects which will disturb more than one acre of land.

See CD 1 Appendix H: Construction Site Storm Water Runoff Control

Post-Construction Storm Water Management in New Development and Redevelopment

Permit Requirements:

a) By December 21, 2013, the City must implement and enforce a program to address post-construction storm water runoff from new development and redevelopment projects that disturb one acre and that result in discharge into the City's MS4 system. The program must ensure that controls are enacted that will prevent or minimize water quality impacts from newly developed or redeveloped areas.

b) By December 21, 2013, the City must adopt an ordinance to address post-construction runoff from new development or redevelopment projects.

c) By December 20, 2014 the City must ensure proper long term operation and maintenance of all permanent storm water management controls for newly developed project areas greater that one acre discharging into its MS4 area.

d) By December 20, 2014 the City must develop and implement a process for pre-construction plan review and inspection of permanent storm management control to ensure proper installation and appropriate long-term operation and maintenance.

e) By December 21, 2013, and at least once per year thereafter, the City must educate the development community about appropriate design, operation, and maintenance of storm retention facilities and vegetative practices to address post-construction storm water runoff from new development and redevelopment within the City's jurisdiction.

Program Implementation

a) The Caldwell Municipal Stormwater Management Manual was first adopted in 1996. The Caldwell Municipal Stormwater Management Manual addresses stormwater discharge on any project that adds over 1,000 square feet of impervious surface.
b) The Caldwell Municipal Stormwater Management Manual was first adopted in 1996. The latest version was adopted in July 2009. This manual addresses the stormwater discharge from new development and redevelopment.

See CD 1 Appendix B - Caldwell Municipal Stormwater Management Manual

c) At this time, the long term operation and maintenance of the newer developments are the responsibility of the private developers. The City's Street Department has a policy and procedure for inspecting and cleaning out catch basins in the older sections of town. A total of 1,255 were inspected and cleaned last year. A total of 54 sand and grease traps were inspected and cleaned. The City's street sweepers have swept 5,416 miles of city streets last year. The Street Department spent 32 man hours on snow removal and 1,305.75 man-hours on spreading 1,703 yards of sand.

See CD 1 Appendix I - Catch Basin Cleaning Record

d) Prior to obtaining building permit, the developer must submit storm water plans and calculations for approval to the Building Department. City inspectors ensure that site construction matches the approved plans for construction. Builders on individual lots in an approved subdivision are not required to submit a stormwater calculation if the original subdivision stormwater plans includes runoff from individual lots.

e) City staff has been working with Partners for Clean Water to create educational opportunities on design, operation, and maintenance of storm retention facilities and vegetative practices for the development community.

Pollution Prevention and Good Housekeeping for Municipal Operations

Permit Requirements:

a) By December 21, 2013 the City must develop and implement an operation and maintenance program intended to prevent or reduce pollutant runoff from municipal operations. This program must address municipal activities occurring within the permit area with the potential for negative storm water related water quality impacts, including: the use of sand and road deicers, fleet maintenance and vehicle washing operations, street cleaning and maintenance, grounds/park and open space maintenance operations, building maintenance, solid waste transfer activities, water treatment plant operations, storm sewer system maintenance, municipal golf course maintenance, and snow disposal site operations and maintenance.

b) By December 21, 2013 and once a year thereafter, the City must develop and conduct appropriate training for municipal employees relative to best maintenance practices for protection of water quality. This training must be conducted at least once per year and address the activities in item a) above.

c) By December 21, 2013 the City must prepare and implement storm water pollution prevention plans for the City fleet maintenance/street department site and waste water treatment plant.

Program Implementation

a) The City owns and operates a municipal street sweeper cleanout station, with the addition of a second bay in 2013. This station will allow the City's street sweepers to discharge their loads. All waste water from cleanup is conveyed to the municipal sanitary sewer system. All of the solid waste collected is drained and transported to an approved landfill site. This station also has a 26 x 60 foot pressure wash bay for cleaning even the largest city vehicles. The Street Department operates one vacuum truck to clean catch basins throughout the City and 4 sweeper trucks for gutter cleaning.

b) Last year, the SWPE held a series of trainings for City staff with primary duties which require working outdoors. The training covered background information on stormwater runoff. Trainees watched the Storm Watch DVD and took a quiz. A total of 143 City employees participated.

See CD 1 Appendix J: Municipal Stormwater Training

c) A new street department maintenance building was erected in 2012. The new maintenance building site has on site retention facilities that do not connect to the City's storm water system.

The City of Caldwell Waste Water Treatment Plant was previously operated by a private company under contract with the City. The contract was terminated in September 2012 and the City has assumed responsibility for the treatment plant operation. The Waste Water Treatment Plant storm water facilities presently operate with on-site retention facilities that do not connect to the City's separate storm water system.

Discharges to Water Quality-Impaired Receiving Waters

Permit Requirements:

a) The City must conduct storm water discharge monitoring starting December 21, 2012.

b) The City must determine whether storm water discharges from any part of the MS4 contribute pollutants of concern, either directly or indirectly, to the Boise River and associated tributaries. Pollutants of concern are total phosphorus, sediment, and E. coli.

c) The City's Annual Report must include a description of how the activities of each of the minimum control measures are targeted by the City to control the discharge of pollutants of concern, and ensure to the maximum extent practice that the MS4 discharges will not cause or contribute to the excursion above the applicable Idaho water quality standards. This discussion must specifically identify how the City will evaluate and measure the effectiveness of the SWMP to control the discharge of pollutants of concern. For those activities identified requiring multiple years to develop and implement, the City must provide updates on progress to date. The City must submit this description of the SWMP implementation to EPA and IDEQ as part of the first Annual Report and update it annually in subsequent Annual Reports.

Program Implementation

a) The City of Caldwell submitted a Monitoring Plan and Quality Assurance Plan in December 2010. Storm water discharge monitoring began on June 6, 2011. The current monitoring locations for the MS4 permit are:
   1. Boise River - sampling site is the storm drain manhole at 10th Ave and the east bound freeway entrance
   2. Indian Creek - sampling site is the outfall pipe on 12th Ave Indian Creek Bridge
   3. Mason Creek - sampling site is a pond 0.3 mile west of Ward Road on Skyway Drive.

   A fourth site also for Mason Creek is located at the corner of Tamworth Drive and Wilderness Drive and is a detention pond. This year only four sampling events were gathered due to lack of storm events that meet criteria. Two events were sampled within the same quarter because of a low number of precipitation events that met the criteria during the different quarters. Unfortunately, the weather turned cold and the precipitation turned into snow preventing any additional samples from being gathered

for the year. The results of monitoring for the pollutions of concerns are listed in the annual report.

See CD 1 Appendix K: Monitoring Plan and Quality Assurance Plan, Monitoring Results

b) The City is a member of the Lower Boise Watershed Council. The Council holds monthly meetings with Idaho Department of Environmental Quality (DEQ). These meetings are to work on TMDLs for the Lower Boise River on the pollutions of concern. The City is actively involved in the Council and City of Caldwell personnel have served in leadership roles on the Council at various times throughout the lifetime of NPDES Permit IDS-028118.

c) The City of Caldwell staff searched for methods to expand the Public Education and Outreach segment of its permit by joining with Partners for Clean Water. This increase in funding has helped increase the number of people the message will reach. Also, the City of Caldwell staff across Public Works is trained on illicit discharge detection. The outfall monitoring conducted by the SWPE and Engineering Department staff has not uncovered any illicit discharges during 2016. The City continues to promote public awareness though its activities with Partners for Clean Water. Besides this, the City of Caldwell staff has implemented a construction site storm water runoff control program and the City's trained staff conducts inspections as required under the ordinance. Finally, City engineering staff continues to inspect Post-Construction storm water management facilities at new development and re-development sites.

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Appendix A – Public Education

Appendix B – Caldwell Municipal Stormwater Management Manual

Appendix C – Community Cleanup

Appendix D – Storm Drain Marking

Appendix E – Discharge Incident Tracking Sheet; Storm Water Pollution Prevention & Spill Response Plan

Appendix F – Stormwater Map

Appendix G – List of Industries Connected to City of Caldwell MS4

Appendix H – Construction Site Stormwater Runoff Control

Appendix I - Catch Basin Cleanout Record

Appendix J - Municipal Stormwater Training

Appendix K - Monitoring Plan and Quality Assurance Plan - Monitoring Results