



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATERSHED MANAGEMENT

MS4 ANNUAL REPORT FORM FOR STORMWATER DISCHARGES FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4s)

Reporting Period

(Check appropriate block. Fill in the year for the reporting period you are submitting the report if not listed.)

- March 10, 2008 through March 9, 2009 (due June 9, 2009)
 March 10, 2009 through March 9, 2010 (due June 9, 2010)
 March 10, 2013 through March 9, 2014 (due June 9, 2014)

SECTION I – SMALL MS4 OPERATOR INFORMATION

1. Name of MS4 Permittee and NPDES Permit Number

Name: Denver Borough PAG: 133592 PAI: _____
Co-permittee : _____

2. Location

Municipality: Denver Borough County: Lancaster
Watershed Name(s): 7-J Conestoga River

3. Contact Person from the MS4

Name: Michael Hession Title: Borough Manager Phone: 717-336-2831
Fax: 717-336-7190 Email: MHession@denverboro.net

4. Permittee Mailing Address

Address: 501 Main Street
City: Denver State: PA Zip Code: 17517

5. MS4 Website (If applicable)

URL: www.denverboro.net

6. Permittee's Consultant/Engineer Information (If applicable)

Company Name: Hanover Engineering Associates, Inc.
Consultant/Engineer Name: Farley Fry Title: Senior Project Manager
Phone: 717-721-7444 Fax: 717-721-7447 Email: ffry@hanovereng.com
Address: 20-C Snyder Lane
City: Ephrata State: PA Zip Code: 17522

SECTION II – MCM INFORMATION

7A. Have you completed all required activities for? Year 1: Yes No
Year 2: Yes No
Year 3: Yes No
Year 4: Yes No
Year 5: Yes No

7B. Complete the following section for each watershed-based or Act 167 Storm Water Management Plan.

Watershed Plan Name Cocalico Creek Watershed Plan

Is this an Act 167 Plan? Yes No

 If yes, has DEP approved the plan? Yes No

 If yes, give date: May, 2003

Is the ordinance required by the plan enacted: Yes No

 If yes, give effective date: February 9, 2004

 If the ordinance is not enacted, please provide the anticipated enactment date _____
 and explain the status: _____

Watershed Plan Name _____

Is this an Act 167 Plan? Yes No

 If yes, has DEP approved the plan? Yes No

 If yes, give date: _____

Is the ordinance required by the plan enacted: Yes No

 If yes, give effective date: _____

 If the ordinance is not enacted, please provide the anticipated enactment date _____
 and explain the status: _____

Watershed Plan Name _____

Is this an Act 167 Plan? Yes No

 If yes, has DEP approved the plan? Yes No

 If yes, give date: _____

Is the ordinance required by the plan enacted: Yes No

 If yes, give effective date: _____

 If the ordinance is not enacted, please provide the anticipated enactment date _____
 and explain the status: _____

7C. Please provide current contact name and phone number information:

MCM #1

Public Education and Outreach on Storm Water Impacts

Name: Michael Hession

Phone: 717-336-2831

MCM #2

Public Involvement/Participation

Name: Michael Hession

Phone: 717-336-2831

MCM #3

Illicit Discharge Detection and Elimination (IDD&E)

Name: Michael Hession

Phone: 717-336-2831

MCM #4

Construction Site Storm Water Runoff Control

Name: Lancaster County Conservation District

Phone: 717-299-5361 Ext. 5

MCM #5

Post-Construction Storm Water Management in New Development and Redevelopment

Name: Michael Hession

Phone: 717-336-2831

MCM #6

Pollution Prevention/Good Housekeeping for Municipal Operations

Name: George Whetsel

Phone: 717-336-2831

MCM#1 - PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS — MINIMUM CONTROL MEASURE

8A. MS4s USING DEP PROTOCOL for this MCM

BMP: Update Target Audience Information (Have you reviewed your public education plan for accuracy and content and made any relevant changes regarding your target audiences and their communication channels? If so, include/attach your revised plan.)

Measurable goal for this BMP was met.

Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: During the 2013-2014 program year, the Borough of Denver reviewed and updated the Borough's Storm Water Public Education and Participation Plan by modifying the target audience and by developing the most effective means to distribute educational materials provided by PA DEP. The updates included a listing of all new target audiences in the Borough.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

8B. BMP: Continue public education and outreach. (What was accomplished during the past permit year regarding: Developer education/outreach? Storm water ad in local newspaper? Provide posters or other information to schools and businesses? Storm drain stenciling/markings? Maintain website links and provide website educational info? Educational information in your newsletter? Any other public education/outreach?)

Measurable goal for this BMP was met.

Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: During the reporting year, the Borough made available various storm water management information packets for developers, contractors, and residents to take and review when applying for either a Zoning Permit or a Construction Code Permit. Beginning in June, 2006, the Borough distributed copies of storm water management information to all property owners, developers, and contractors who applied for either a Zoning Permit or a Construction Code Permit in the Borough. The information included various brochures and pamphlets concerning storm water management.

The Borough also distributed a copy of the "When It Rains, It Drains" pamphlet to all new Borough residents in the Borough's Welcome Packet. The Borough also added a link to DEP's website on the Borough's new website page located at www.denverboro.net. The Borough included information concerning storm water management and the responsibility of the residents of the Borough in two (2) of the Borough's four (4) quarterly newsletters during the past year. In 2013 the Borough also partnered with the Cocalico Creek Watershed Association (CCWA) for education and outreach for the preservation, maintenance, and improvement of both water quality and quantity through the promotion of wise and prudent water use practices. Attached is a copy of a MS4 Educational Program that was held on June 13, 2013 at the Adamstown Area Library.

The Borough and the Shade Tree Commission staffed an information booth at the 2013 Denver Community Fair (September 10, 2013 - September 14, 2013) in which information concerning the roles of trees in stormwater management was discussed and distributed to people who attended the Denver Fair.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

MCM#1 (continued)

9. MS4s USING OWN PROTOCOL FOR THIS MCM

If you are implementing your own protocol, approved by the Department, describe the current status of this Minimum Control Measure. In the boxes below list all BMPs and measurable goals you identified on your NOI or application approved by DEP. If the goals were met, describe how they were met. If they were not met, describe the current status of each and when/how they will be met.

Goal #1

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

Goal #2

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

Goal #3

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

MCM#2 - PUBLIC INVOLVEMENT/PARTICIPATION — MINIMUM CONTROL MEASURE

10A. MS4s USING DEP PROTOCOL for this MCM

BMP: Update your Public Involvement and Participation Plan (PIPP). (Have you reviewed your PIPP for accuracy and content and made any relevant changes? If so, include/attach your revised PIPP.)

Measurable goal for this BMP was met. Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: During the 2013-2014 reporting year, the Borough of Denver reviewed the Public Information and Participation Plan (PIPP) for accuracy and content and made the necessary revisions to keep the Plan current. Attached is a copy of the revised PIPP.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

10B. BMP: Notify and solicit public input/involvement regarding implementation of your Storm Water Management Program. (How and when did you solicit public input/involvement? What were the results/accomplishments during the past permit year?)

Measurable goal for this BMP was met. Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: The Borough continued to educate and notify the community about the implementation of the Storm Water Management Program through the Borough's Zoning Permit and Construction Code Permit Application reviews. The community is aware of the Storm Water Management Program in the Borough and is becoming increasingly more knowledgeable as to their role in the successful implementation of the Program. The Borough continues to educate the community concerning the storm water management guidelines and regulations each time a property owner or resident inquires about a Zoning or Construction Code Permit.

The Borough also held a storm water management information meeting with storm water management consultants during the September 10, 2013 Denver Planning Commission meetings. The goal of these meetings was to discuss future changes to storm water management in the community.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

MCM#2 (continued)

11. MS4s USING OWN PROTOCOL FOR THIS MCM

If you are implementing your own protocol, approved by the Department, describe the current status of this Minimum Control Measure. In the boxes below list all BMPs and measurable goals you identified on your NOI or application approved by DEP. If the goals were met, describe how they were met. If they were not met, describe the current status of each and when/how they will be met.

Goal #1

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

Goal #2

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

Goal #3

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

MCM#3 - ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDD&E) — MINIMUM CONTROL MEASURE

12A. MS4s USING DEP PROTOCOL for this MCM

BMP: Map all outfalls and receiving water-bodies. (Is your map up-to-date and accurate? Have you mapped additional features that can assist your outfall screening program, such as inlets, piping and outfall drainage areas? If updated, please submit)

Measurable goal for this BMP was met. Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: **The Borough of Denver's Storm Sewer Location Map includes a listing of all outfalls and receiving water bodies in the Borough. The Map also includes the following additional features that can assist with the outfall screening program: inlets owned by the Borough, PennDOT, and private or Cocalico School District; manholes owned by the Borough, PennDOT, and private or Cocalico School District; outlets owned by the Borough, PennDOT, and private or Cocalico School District, all Borough outfalls, and storm water piping owned by the Borough, PennDOT, and private or Cocalico School District. The Borough's Storm Sewer Atlas map was updated in September, 2012 by Hanover Engineering Associates, Inc.**

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

12B. BMP Implement and enforce ordinance to satisfy this Minimum Control Measure. (How was ordinance implemented and enforced during the past permit year in order to meet the goals of this MCM?)

Measurable goal for this BMP was met. Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: **On February 9, 2004, Denver Borough Council adopted Ordinance No. 536 - Borough of Denver's Storm Water Management Ordinance. This Ordinance included the Act 167 regulations as well as provisions to implement and enforce the Illicit Discharge Detection and Elimination (IDD&E) Program. During Year 10, the Borough implemented and enforced the provision of Ordinance No. 536. The Borough continues to track projects that increased the amount of impervious surface on a parcel and enforced the regulations of the Ordinance through Zoning Permit reviews, Construction Permit reviews, and Subdivision and Land Development Application reviews.**

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

12C. BMP: Distribute IDD&E specific educational material. (What educational material was distributed to public employees, businesses and the general public concerning the hazards associated with illegal discharges and improper disposal of waste? Who received it? When?)

Measurable goal for this BMP was met. Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: **The Borough distributed a copy of the "When It Rains, It Drains" pamphlet to all new Borough residents in the Borough's Welcome Packet. Beginning in June, 2006, and continuing through the 2013-2014 year, the Borough distributed copies of storm water management information to all property owners, developers, and contractors who applied for either a Zoning Permit or a Construction Code Permit in the Borough. The information included various brochures and pamphlets concerning storm water management. Lastly, the Borough included articles concerning storm water management and the responsibility of the residents of the Borough in two (2) of the Borough's four (4) quarterly newsletters during the past year.**

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

MCM#3 (continued)

12D. BMP: Establish priority areas, conduct screening/sampling and take appropriate actions as needed.
(Describe how the priority area was established and which outfalls were selected for screening during the past permit year. Summarize the results of your outfall screening/sampling. Include properly completed illicit discharge field screening form for any problem outfall. Include the illicit discharge quarterly summary report form. Describe the corrective actions taken to eliminate any illicit discharges or connections.)

Number of outfalls in system:	<u>16</u>
Number of outfalls screened during the past permit year:	<u>16</u>
Number of screenings conducted during the past permit year:	<u>48</u>
Number of outfalls/screenings with dry weather flow during the past permit year:	<u>0</u>
Number of dry weather flows sampled during the past permit year:	<u>0</u>
Number of outfalls determined to have an illicit discharge or connection during past permit year:	<u>0</u>

Measurable goal for this BMP was met. Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: Based on the small number of outfalls in the Borough's system, Borough staff inspected all 16 outfalls in the Borough system during the past permit year during three (3) quarters. The results of the outfall screening was that all were functioning properly and there were no illicit discharge problems to report. Attached are copies of the illicit discharge quarterly summary report forms for each of the three (3) quarters. No corrective action is required at this time.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

MCM#3 (continued)

13. MS4s USING OWN PROTOCOL FOR THIS MCM

If you are implementing your own protocol, approved by the Department, describe the current status of this Minimum Control Measure. In the boxes below list all BMPs and measurable goals you identified on your NOI or application approved by DEP. If the goals were met, describe how they were met. If they were not met, describe the current status of each and when/how they will be met.

Goal #1

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

Goal #2

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

Goal #3

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

MCM#4 - CONSTRUCTION SITE STORM WATER RUNOFF CONTROL — MINIMUM CONTROL MEASURE

14A. MS4s USING DEP PROTOCOL for this MCM

BMP: Implement and enforce ordinance to satisfy this Minimum Control Measure. (How was ordinance implemented and enforced during the past permit year in order to meet the goals of this MCM?).

Measurable goal for this BMP was met. Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: On February 9, 2004, Denver Borough Council adopted Ordinance No. 536 - Borough of Denver's Storm Water Management Ordinance. Ordinance No. 536 includes provisions dealing with this minimum control measure. The Borough also renewed its Memorandum of Understanding between the Lancaster County Conservation District (LCCD) and the Borough of Denver to validate the linkage between the Borough and the LCCD as required by the Municipal Separate Storm Sewer System (MS4) wherein regulated MS4s are required to have a plan for construction site storm water runoff control.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

14B. BMP: Implement procedures for the review and enforcement of Erosion and Sediment (E&S) Control Plans. (Who reviewed E&S Control Plans during the past permit year? Did the MS4 permittee conduct any E&S site inspections? Briefly describe any enforcement activities undertaken by the MS4 permittee.)

Measurable goal for this BMP was met. Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: As per the provisions in the Memorandum of Understanding between the Lancaster County Conservation District (LCCD) and the Borough of Denver, the LCCD reviewed all erosion and sediment pollution control plans in the Borough of Denver during the past year. The E&S review conducted by the LCCD includes both site inspections and summary reports for the E&S Plan. The LCCD did not undertake any enforcement activities during the past year.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

14C. BMP: Provide education and outreach for developers and builders. (What educational/outreach materials were distributed to developers/builders during the past permit year?)

Measurable goal for this BMP was met. Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: During the reporting year, the Borough made available various storm water management information packets for developers, contractors, and residents to take and review when applying for either a zoning or construction code permit. Beginning in June, 2006, the Borough attached copies of storm water management information to all Zoning Permit and Construction Code Permit applications. The information included various brochures and information concerning storm water management.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

MCM#4 (continued)

14D. **BMP: Require construction site operators to control waste at the construction site.** (What was done in the past permit year to require construction site operators to control wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary wastes?)

Measurable goal for this BMP was met. Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: The Borough, through site inspections by Borough staff including the Zoning Officer, the Code Enforcement Officer, the Borough Engineer, and the Construction Code Official, along with inspections by staff from the LCCD, monitored the activities of construction site operators to control wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary wastes.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

14E. **BMP: Implement procedures for the receipt and consideration of information submitted by the public.** (Summarize any information or complaints received from the public during the past permit year concerning construction site storm water runoff. Briefly describe how you responded to any such information/complaints?)

Measurable goal for this BMP was met. Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: The Borough did not receive any complaints during the past year regarding construction site storm water runoff.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

MCM#4 (continued)

15. MS4s USING OWN PROTOCOL FOR THIS MCM

If you are implementing your own protocol, approved by the Department, describe the current status of this Minimum Control Measure. In the boxes below list all BMPs and measurable goals you identified on your NOI or application approved by DEP. If the goals were met, describe how they were met. If they were not met, describe the current status of each and when/how they will be met.

Goal #1

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

Goal #2

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

Goal #3

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

MCM#5 - POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT — MINIMUM CONTROL MEASURE

16A. MS4s USING DEP PROTOCOL for this MCM

BMP: Implement and enforce ordinance to satisfy this Minimum Control Measure. (How was ordinance implemented and enforced during the past permit year in order to meet the goals of this MCM?)

Measurable goal for this BMP was met. Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: On February 9, 2004, Denver Borough Council adopted Ordinance No. 536 - Borough of Denver's Storm Water Management Ordinance. Ordinance No. 536 includes provisions dealing with this minimum control measure. During the past year, the Borough has enforced the provisions of this Ordinance through site inspections and monitoring completed by the Borough Engineer, the Zoning Officer, and the Code Enforcement Officer.

The Borough also renewed the Memorandum of Understanding between the Lancaster County Conservation District and the Borough of Denver to validate the linkage between the Borough and the LCCD as required by the Municipal Separate Storm Sewer System (MS4) wherein regulated MS4s are required to have a plan for construction site storm water runoff control. Attached is a copy of the memorandum of Understanding as well as a summary of activities report for the Chapter 102 and NPDES Programs for Denver Borough during 2013.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

16B. BMP: Ensure that all Post-Construction Storm Water Management (PCSWM) BMPs in new or re-development areas are built as designed, and operated and maintained properly. (Summarize how the MS4 permittee accomplished this during the past permit year. Include a list of all applicable PCSWM BMPs.)

Measurable goal for this BMP was met. Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: The Borough currently has the following BMPs constructed in the Borough:

Borough of Denver Municipal Building - subsurface seepage bed - 501 Main Street

Denver Self Storage - Bioretention trench and detention basin - 300 block of Locust Street.

Denver Cold Storage - Swale and detention basin - 300 Washington Street.

Leid, Lorah, Company - Pervious paving - 117 North 6th Street.

Emory Weaver Subdivision Plan - Leach ring system (10 rings) - 620 Main Street.

Weaver Martin Home Construction - Seepage Pits (3) and downspout connections - 630 North 5th Street.

Denver Park Annex - Underground seepage bed - 801 Main Street.

Denver Elementary School - Storm water pipe and detention basin - 600 South 4th Street.

Cocalico High School - Storm water pipe and detention basin - 800 South 4th Street.

The Borough, through inspections and seasonal site visits conducted by the Borough Engineer, Zoning Officer, and/or the Code Enforcement Officer, will continue to ensure that all post-construction BMPs are built as designed and operated and maintained properly.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

MCM#5 (continued)

17. MS4s USING OWN PROTOCOL FOR THIS MCM

If you are implementing your own protocol, approved by the Department, describe the current status of this Minimum Control Measure. In the boxes below list all BMPs and measurable goals you identified on your NOI or application approved by DEP. If the goals were met, describe how they were met. If they were not met, describe the current status of each and when/how they will be met.

Goal #1

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

Goal #2

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

Goal #3

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

**MCM#6 - POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS —
MINIMUM CONTROL MEASURE**

18A. MS4s USING DEP PROTOCOL for this MCM

BMP: Implement an operation, maintenance, inspection and repair program for all municipally owned storm water facilities. (Describe how your program was implemented during the past permit year. Include your written Operation & Maintenance (O&M) plan, if not previously submitted.)

Measurable goal for this BMP was met.

Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: During Year 10, the Borough of Denver implemented the operation, maintenance, inspection, and repair program for all municipal owned storm water facilities. Implementation included the inspection of all Borough facilities and repairs made as necessary as well as the continuation of the Borough's street sweeping program. The inspection of the Borough owned facilities was completed by Department of Public Works' staff.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

18B. BMP: Implement a pollution prevention/operation and maintenance program for all municipal vehicle/equipment operation, maintenance, fueling, and washing activities. (Describe how your program was implemented during the past permit year. Include your written pollution prevention/O&M plan, if not previously submitted.)

Measurable goal for this BMP was met.

Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: The Borough of Denver implemented the established pollution prevention program for municipal vehicle operation, maintenance, fueling, and washing. The pollution prevention program previously was summarized in the 2012-2013 MS4 Report.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

18C. BMP: Conduct BMP 18A and 18B training for appropriate municipal employees. (Who was trained? When was the training conducted? What was the subject matter?)

Measurable goal for this BMP was met.

Measurable goal for this BMP was not met.

Describe how goal was met; or if not met, give an explanation and proposed corrective actions: The Department of Public Works staff was trained during the last permit year on the Borough's operation, maintenance, and repair program for all municipal owned storm water management facilities and on the pollution prevention/operation and maintenance program for all municipal vehicle equipment operation, maintenance, fueling, and washing activities. This training was conducted by the Department Supervisor and incorporated into the daily work activities of the Department.

The Borough Manager also attended the following MS4 training programs during the past year:

* South Central Pennsylvania MS4 Phase II Community Forum – Managing Stormwater Collectively, Locally, and Efficiently, March 14, 2013, Lancaster County Farm and Home Center.

* Lancaster County Planning Commission Water Resources Forum, April 16, 2013, Lancaster County Government Center.

* Cocalico Creek Watershed Stormwater Update Forum, May 14, 2013, Ephrata Borough Municipal Building.

* MS4 Permit Requirements: Putting the Pieces Together. January 27, 2014, Lancaster County Farm and Home Center.

Is this BMP appropriate to meet your identified measurable goal? Yes No. If No, please provide additional information on other BMP(s) that would meet the goal.

MCM#6 (continued)

19. **MS4s USING OWN PROTOCOL FOR THIS MCM**

If you are implementing your own protocol approved by the Department, describe the current status of this Minimum Control Measure. In the boxes below list all BMPs and measurable goals you identified on your NOI or application approved by DEP. If the goals were met, describe how they were met. If they were not met, describe the current status of each and when/how they will be met.

Goal #1

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

Goal #2

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

Goal #3

List/Describe BMPs and measurable goal (Approved by DEP):

Describe how measurable goal was met:

If not met, describe reason(s), current status, plans and schedule for meeting the goal:

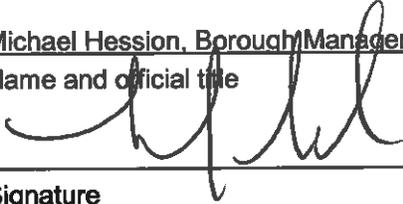
SECTION III - CERTIFICATION

CERTIFICATION STATEMENT

I certify under penalty of law that 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.

Michael Hession, Borough Manager/Secretary

Name and official title



Signature

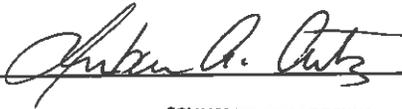
June 6, 2014

Date

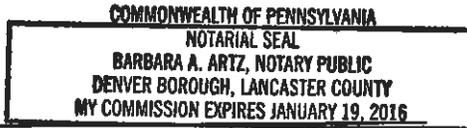
Sworn and subscribed to before me, this 6th day of June, 2014

Barbara A. Artz

Notary Public



My commission expires



(Notary Public Seal and Stamp)

SECTION IV – SPECIAL ADDENDUM REPORT FOR MS4S DISCHARGING INTO THE CHESAPEAKE BAY WATERSHED

Reporting Period

(Check appropriate block. Fill in the year for the reporting period you are submitting the report if not listed.)

- March 10, 2008 through March 9, 2009 (due June 9, 2009)
- March 10, 2009 through March 9, 2010 (due June 9, 2010)
- March 10, 2013 through March 9, 2014 (due June 9, 2014)

1. Name: Denver Borough PAG: 133592 PAI: _____
Name of Contact Person: Michael Hession Telephone Number: 717-336-2831

GEOGRAPHIC LOCATION

2. **State Hydrologic Unit Code** – Provide the Hydrologic Unit Code(s) of the watershed(s) to which the MS4 discharges its storm water. This information is available at EPA's 'Surf Your Watershed' Website at <http://cfpub.epa.gov/surf/state.cfm?statepostal=PA>
List Hydrologic Unit Code(s): 02050306 _____

URBAN STORM WATER BEST MANAGEMENT PRACTICES

3. **Structural BMPs** – List the permanent structural BMPs installed in the MS4, the number of acres that drain to each BMP, the name of the water body that receives discharges from the BMP, how often each BMP is inspected or maintained (quarterly, annually, etc.), and the name of the person or organization responsible for inspection and maintenance of the BMP.

Structural BMP	Drainage Area	Name of Receiving Water Body	Inspection/Maintenance Frequency	Name of Responsible Person or Organization
N/A				

PUBLIC EDUCATION COMPONENT

Who	How Large Audience	How Audience Receives Information	What Organizations They Belong To	Strategies to Distribute Education Materials
Municipal Employees	Administration - 3 Public Works - 5 Recreation - 2	Borough Newsletter Paycheck Stubs Personnel Policy Manual/Employee Orientation Denver Borough website Distribution at Municipal Building Staff meetings	Teamsters Union CCWA	Include information with paycheck stubs Include on website. Include in newsletter. Include information in orientation and with Policy Manual. Stress concepts at staff meetings.
Residents	3,861 Approximately 1,800	Ephrata Review Shopping News Denver Express Adamstown Grapevine Adamstown Area Library Ephrata Public Library Trinity United Methodist Church FUEL Denver Bible Church St. John's UCC OMPH Denver Welcome Packet	CCWA	Include regular information highlights in newsletter, articles in paper, and on web site. Include with new water/sewer cards. Provide information for display at local libraries and for inclusion in church bulletins. Also include information in Welcome Packets.

Who	How Large Audience	How Audience Receives Information	What Organizations They Belong To	Strategies to Distribute Education Materials
Schools	Elementary Middle School Cocalico High School	Quarterly Newsletters Assemblies monthly. Random visits for guest speakers.	Junior Achievement Boy Scouts/Girl Scouts 4-H All in list	Include on website. Include in newsletter.
Businesses	75	Shopping News Ephrata Review Lancaster Newspapers Reading Eagle/Times Chamber of Commerce Denver Borough	Chamber of Commerce Rotary Merchants Association	Submit information for use.
Developers/ Contractors	40 work in area 25 for permits	Municipal Building Website Trade newletters Lancaster, Reading, Ephrata, Shopping News	Chamber of Commerce Building trades Merchants Association	Submit information for use.



Lancaster County Conservation District

1383 Arcadia Road, Room 200 • Lancaster, Pennsylvania 17601-3149

Telephone (717) 299-5361 Ext. 5 • FAX (717) 299-9459

www.lancasterconservation.org

To: Lancaster County Township and Borough Managers
From: Donald R. McNutt, Administrator
Date: March 13, 2013
Re: 2013/2014 Memorandum of Understanding

GENERAL BOROUGH
MAR 15 2013
RECORDS

The following is a Memorandum of Understanding (MOU) between the Lancaster County Conservation District (LCCD) and your municipality. This MOU indicates both parties' responsibilities between our agencies. The MOU will also serve as a document to validate the linkage between your municipality and LCCD as required by the Municipal Separate Storm Sewer System (MS4) protocol. This MOU requires action by your municipal board and will remain valid through March 15, 2014. The MOU is intended to be reviewed and renewed on an annual basis and is an attempt to better serve you.

Changes to note in the 2013/2014 MOU are:

- Programmatic language changes to E&S plan review time frames. Per the policy requirements by the Governor's office for multiple state agency approved permits ("Permit Decision Guarantee" and "Permit Review Process"), plan and permit review time frames are now established by these policies. A priority ranking has also been established by these policies and dictates the order in which projects are reviewed by our office.
- The District will continue to discuss coordination efforts with municipalities and interested parties to better determine how we can help meet municipal MS-4 requirements through our delegation responsibilities.

If your municipality would like to receive correspondence via email instead of standard mail from our E&S Department, please contact Roberta Hartz at (717) 299-5361 x 113 to be added to our email list.

From time to time, you may have other agricultural related concerns in your municipality that are *not* identified within the MOU. I have included a list of contact agencies/people that can assist you with these concerns.

If you have questions in regard to this MOU, please contact me as soon as possible at (717) 299-5361 ext 115. A signed copy is requested and should be returned to the District, attention Roberta Hartz as soon as possible. **Please keep a copy for your records.**

Enclosures:

MOU

Agricultural Issues Contact Information

2013/2014 MEMORANDUM OF UNDERSTANDING
Between the
Lancaster County Conservation District
and the
DENVER BOROUGH, Lancaster County, PA

STATEMENT OF PURPOSE

This Memorandum has been prepared jointly and agreed upon by each party for the following purposes:

To serve as a joint commitment by the signatory parties to control accelerated erosion and to minimize sediment pollution to the waters of the Commonwealth which may result from the conduct of earthmoving activities in DENVER BOROUGH.

To serve as a basis for stating the role of each party in administering the provisions of DENVER BOROUGH's Erosion and Sediment Control Ordinance or Ordinance which contains Erosion and Sediment Control Provisions:

Ordinance Name Storm Water Management Ordinance and Ordinance # 536.

- I. In carrying out the intent of this memorandum, the Lancaster County Conservation District (District) shall:**
- A. Receive all erosion and sediment control plans (E&S Plan) as required under Ordinance # _____ and complete an initial review of the E&S Plan within time frames established under the District's delegation agreement with DEP. Subsequent review time frames are also established by the delegation agreement.
 - B. Within ten (10) working days of completion of review, notify the consultant, the applicant, and the municipality of all E&S Plan approvals, deficiencies, and all determinations that an E&S Plan cannot be approved upon completion of the third review because of inadequate information and/or a failure of the applicant to develop an E&S Plan in compliance with the provisions of the ordinance and in compliance with Chapter 102.
 - C. Upon request, provide all applicants with a Department of Environmental Protection (DEP) Erosion and Sediment Pollution Control Program Manual and related forms, worksheets, checklists, etc. necessary to successfully prepare an E&S Plan.
 - D. In accordance with a routine inspection schedule contained in the delegation agreement, and/or upon the request of the municipality, and /or upon the receipt of request from a third party, inspect ongoing earth disturbance projects and complete a standard DEP site inspection report. In conjunction with this responsibility, the District shall, to the limit of the District's resources,:

1. Advise the municipality of all third party complaints within 10 calendar days of their receipt.
 2. Provide a copy of all inspection reports to the responsible party(s) and municipality within 10 calendar days of the inspection.
- E. Serve as the repository for all E&S Plans, complaints, inspection reports, correspondence, etc. that involve earth disturbance activities. All such information shall be contained in a filing system which shall be available for inspection by the municipal officials for a time frame that is consistent with the DEP Records Retention Policy.
- F. As part of and as stated in a Delegation Agreement with the DEP, the District shall administer and implement the Commonwealth's Erosion, Sediment, and Stormwater Control Program and through the Delegation with DEP and this MOU shall assist (name of municipality) in maintaining compliance with the Minimum Control Measure (MCM) #4 of **DENVER BOROUGH'S** NPDES Municipal Separate Stormsewer System (MS4) permit.
- G. Conduct inspections in response to complaints regarding agricultural earth disturbance activities, including agricultural plowing and tilling or animal heavy use areas. Copies of the inspection report will be supplied to the municipality within ten (10) days of completion.
- H. Upon receiving a request from the municipal officials, and after appropriate municipal representatives have received the required training, the District will provide technical assistance and financial support, to the limit of its allocation approved by the State Conservation Commission, for projects qualifying for the Dirt and Gravel Roads Program. The District will provide the municipality with this service by way of an agreement with the municipality.
- I. As part of a Delegation Agreement with DEP, the District will annually monitor for compliance with the conservation plan 10% of the land in Lancaster County that has been identified as "active" and is permitted by DEP to receive land application of Bio-Solids. The District will respond to Bio-Solid complaints. The District will respond to complaints regarding Bio-Solids.
- J. As part of a Delegation Agreement with the State Conservation Commission, the District will review all nutrient management plans submitted under Act 38 (PA Nutrient Management Act), approve those plans that meet Act 38 standards and monitor implementation of these plans. In addition, the District will provide information on federal nutrient management initiatives or confined animal feeding operation (CAFO) regulations. The District will upon request evaluate and determine if an individual operation is subject to Act 38.
- K. Upon written request by a landowner or operator, the District will provide conservation planning technical assistance to farm owners and or operators, to the limit of the District's resources. Within the limits of our allocations, the District will provide cost share assistance to eligible landowners or operators.

- L. As part of a Delegation Agreement with the DEP to administer certain provisions of the Dam Safety and Encroachments Act and the Chapter 105 (Dam Safety and Waterway Management) rules and regulations promulgated thereunder, the District will:
 - a. Provide information and written materials to the general public and industry.
 - b. Educate the public and industry concerning permits and other requirements of the Act.
 - c. Issue General Permits for qualified activities.
- M. As part of a Delegation Agreement with the DEP and at the request of the County Commissioners, the District's Watershed Specialist will assist municipal officials and citizen groups to form watershed associations for the purpose of addressing local water resource issues on a watershed basis. The Watershed Specialist will also be available to assist municipal planners that wish to incorporate a watershed focus into zoning and land planning.
- N. The District will, in a timely manner, provide municipalities with current information relating to changes in regulations, program requirements, or permits for those program areas that are discussed in this Memorandum of Understanding.

II. In carrying out the intent of this Memorandum, DENVER BOROUGH shall:

- A. Notify the District within 5 days of receipt of an application for a permit involving earth disturbance activities consisting of 1 acre or more, pursuant to Chapter 102.42.
- B. Pursuant to Chapter 102.43, DENVER BOROUGH shall not issue building or other permit or approval to those proposing or conducting earth disturbance activities requiring a Department permit until the Department or District has issued the E&S or individual NPDES Permit or approved coverage under a general NPDES Permit for Stormwater Discharges Associated with Construction Activities under Chapter 102.5.
- C. Shall provide instructions to have the E&S Plans submitted to the District and forward all questions pertaining to the preparation of E&S Plans and Applications and tracking forms to the District.
- D. Forward all third party complaints about ongoing earth disturbance projects to the District for their inspection.
- E. Upon notification by the District, withhold any building, grading, or other permits that apply as specified in the ordinance or Chapter 102.43, when and where it has been determined that an applicant has failed to secure E&S Plan approval from the District.
- F. Contact the District seeking services of the Ombudsman to assist with ordinance review and/or potential conflict resolution resulting from the interface of production agriculture and urban constituents.

- G. Disseminate natural resource conservation information and written materials to the general public
- H. Seek assistance from the District when natural resource protection concerns arise in your municipality.
- I. Encourage and support appropriate local watershed activities and will invite the District's Watershed Specialist to participate with watershed-related projects and planning activities.
- J. Inform permit applicants of new or updated permit requirements or program information as the District provides such information.
- K. Consult with the District before referring to or assigning responsibilities to the District.
- L. Chapter 102.4 requires all farming operations that disturb over 5,000 sq ft to have a Conservation Plan or Ag E&S plan. This also includes no-till as an earth disturbing practice. Along with the conservation plans, the Commonwealth also requires farmers to have a Manure Management Plan, Chapter 91.36, developed for every farm that produces or applies manure on their ground, no limit on size or scope of operation. Once farm size reaches certain thresholds based on livestock, further requirement for nutrient management may be required (such as Act 38 or CAFO). These plans must be available upon request for review from the landowner/operator on site. The District highly recommends that **DENVER BOROUGH** require development of these plans before building permits for agricultural operations are approved.
- M. Rely upon the Commonwealth's Erosion, Sediment, and Stormwater Control program through this MOU to comply with MCM #4 of **DENVER BOROUGH's** NPDES MS4 program.

III. This Memorandum of Understanding shall become effective immediately. It shall be reviewed annually, as the need arises by either or both parties, and may be amended by mutual consent of both parties. This MOU may be terminated at any time, by either party, following a 60 day written notice to the other party.

FOR **DENVER BOROUGH**



 (NAME)
 Walter V. Fink

Borough Council President

 (TITLE)
 March 25, 2013

 (DATE)

FOR LANCASTER COUNTY CONSERVATION DISTRICT



 (CHAIRMAN)

 March 13, 2013

 (DATE)

COMMON COMPLAINT CONTACTS LIST

What the Lancaster County Conservation District is Responsible for:

- | | |
|---|--|
| <p>1) Biosolids Application to Farmland Complaints
Kevin Seibert, Agriculture Compliance Coordinator
(717) 299-5361 Ext. 125
(If unavailable, see "Other Organizations")</p> <p>2) Excessive Soil Erosion from Ag Operations
Kevin Seibert, Agricultural Compliance Coordinator
(717) 299-5361, Ext. 125</p> <p>3) Excessive Soil Erosion from Construction Sites
Rebecca Buchanan, E&S Program Manager
(717) 299-5361, Ext. 141</p> <p>4) Manure Complaints
Kevin Seibert, Agriculture Compliance Coordinator
(717) 299-5361, Ext. 125
(If unavailable, see "Other Organizations")</p> | <p>5) Act 38 Nutrient Management Law Compliance Complaints
Jeff Hill, Agriculture Program Manager
(717) 299-5361, Ext. 143</p> <p>6) Fly Related Complaints
Shelly Dehoff
Pennsylvania Agriculture Ombudsman Program
(717) 299-5361 x149
(717) 880-0848
shelly.dehoff@gmail.com
OR
Kevin Seibert, Agriculture Compliance Coordinator
(717) 299-5361 Ext. 125</p> |
|---|--|

What Other Organizations are Responsible for:

- | | |
|---|---|
| <p>Stormwater Complaints (Vary from case to case)</p> <ol style="list-style-type: none">1. Local (Borough or Township)2. Lancaster County Planning Commission
Dean Severson (717) 299-83333. Pennsylvania Department of Transportation
(717) 299-7621 <p>Noxious Weed Complaints
PA Dept of Agriculture Region VI Office
Wilber Mountain 717-772-5209</p> <p>Dead Animal (Mortality) Disposal Complaints
PA Dept of Agriculture Region VI Office
Joyce McLaughlin (717) 783-8300
Fax: 717-787-1868</p> <p>Pesticide Application Complaints
PA Dept of Agriculture Region VI Office
Joe Uran (717) 772-5212
Hypersensitivity Registry Forms
Patricia Rigg (717) 787-4392</p> <p>Stream & Wetland Encroachment Complaints
PA Dept of Environmental Protection
Jeff Minski (717) 705-4709</p> | <p>Biosolids Application to Farmland Complaints
PA Dept of Environmental Protection
Eric Laur, Soil Scientist
(717) 507-4773</p> <p>Manure or Other Contaminant Complaints
PA Dept of Environmental Protection
Deborah Miller (717) 705-4780
e-mail – debomiller@state.pa.us
And/Or
PA Fish and Boat Commission
Lancaster Co. Office (Lititz)
(717) 626-0228</p> <p>Manure Odor Complaints
PA Dept of Environmental Protection
Jeff Minski
717-705-4709
OR
State Conservation Commission
Karl Diamond
717-705-3895</p> |
|---|---|



Lancaster County Conservation District
 1383 Arcadia Road, Room 200 • Lancaster, Pennsylvania 17601-3149
 Telephone (717) 299-5361 Ext. 5 • FAX (717) 299-9459
 www.lancasterconservation.org

RECEIVED ON
 MAY 07 2014
 DENVER BOROUGH

Memo

To: Denver Borough Municipal Officials
From: Lancaster County Conservation District- Erosion & Sediment Control Department
Date: May 6, 2014
Re: Summary of Activities for the Chapter 102 and NPDES Programs for Denver Borough

Municipal Officials:

In response to requirements set forth by your MS-4 Permit and through your MOU with our office, the Lancaster County Conservation District is providing a report of activities for the 2013 calendar year. The following information is being provided for your use.

Total of:

E&S Plans Reviewed 0
General Permits filed 0
Individual Permits filed 0
Complaints received 0
Inspections performed..... 0
Enforcement Actions Taken 0

If you need additional information, you may contact the E&S Department at (717) 299-5361 ext 5.

Yours for a better environment,

Nathaniel Kurtz
 E & S Department Manager

Generational Stewardship; A Conservation Legacy

**Denver Borough's Storm Water Management Public Involvement and Participation Plan
(Revised 2013-2014)**

Agencies/Organizations

Denver Borough Planning Commission
Denver Storm Water Task Force
Denver Borough Businesses (see attached list)
Cocalico School District
Cocalico Creek Watershed Association
Lancaster County Planning Commission
Lancaster County Conservation District
Hanover Engineering Associates, Inc.
Rettew, Inc.
Denver Fire Company
East Cocalico Police Department

Borough Staff/Elected Officials

Borough Council Chairperson – Planning and Building Committee
Borough Manager
Director of Public Works

Local Developers and Builders

Balton Construction, Inc.
Berks Construction, Inc.
Hess Home Builders
Kreiser Construction
Donald Sensenig
Cocalico Builders, Ltd.
Cozy Home Builders
Latshaw Brothers
Burkholder Paving
LGH Construction, Inc.
E.H. Hertzog Construction, Inc.
E.F. Martzall, Inc.

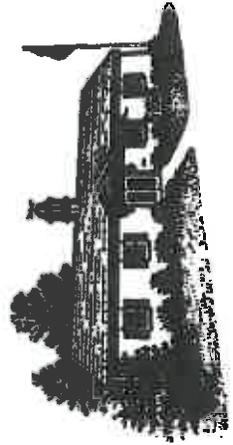


“So What is the Big Deal about Stormwater?”

Adamstown Area Library

June 13th at 6:30 pm

Speaker Jay Snyder, past president of the Cocalico Creek Watershed Assoc., will present a family friendly program where you can learn about the water cycle, annual rainfall & where it goes vs. where it needs to go. Jay will also discuss the difference between Penn’s Woods & Urban/Suburban Water Management. Join Jay for a short walk with your family to visit a local stream.



**Borough
of
Denver**



Sponsors of the Municipal Separate Storm Sewer System Education (MS4)

Denver Borough 2014 Business Directory

Banks

Ephrata National Bank
1 Main Street
Denver, PA 17517
336-4928

Fulton Bank
335 Main Street
Denver, PA 17517
336-5588

Barber Shops/Beauty Salons

Country Hair Studio
322 Main Street
Denver, PA 17517
336-4500

Hair Works Salon
401 Walnut Street
Denver, PA 17517
336-4714

Mindi Stoner Electrologist
539 Elm Street
Denver, PA 17517
336-0600

Nic's Barber Shop
344 Main Street
Denver, PA 17517
336-2296

Salon MJM
354 Main Street
Denver, PA 17517
335-2323

R. Snyder's Beauty Shop
35 Bon View Drive
Denver, PA 17517
336-2010

Youphoria, LLC
293 Beech Street
Denver, PA 17517
826-7397

Commercial/Retail

Anderson Pharmacy
334 Main Street
Denver, PA 17517
336-2292

J. Einwechter Imagery
308 Washington Street
Denver, PA 17517

Windstream Communications
231 Main Street
Denver, PA 17517
800-347-1991

Denver Beer Distributor
4 Main Street
Denver, PA 17517
336-2277

Denver Meats, Inc.
350 Railroad Street
Denver, PA 17517
336-6577

Little Creek Lawn Care
115 Main Street
Denver, PA 17517
336-5858

Denver Planning Mill
129 Walnut Street
Denver, PA 17517
336-2281

Denver Supply
25 Main Street
Denver, PA 17517
336-2151

Denver House
240 Main Street
Denver, PA 17517
336-6355

The Key Antiques
340 Main Street
Denver, PA 17517
335-2699

The Cocalico Cat & Gingham Dog
Animal Hospital LLC
Denver, PA 17517
336-8387

FruitTastic
100 Monroe Street
Denver, PA 17517
336-3001

Messner's Tin Shop
316 Franklin Street
Denver, PA 17517
336-6295

Sandoe Auto Parts (NAPA)
4th and Locust Street
Denver, PA 17517
336-2811

Turkey Hill Minit Market
300 Main Street
Denver, PA 17517
336-4723

Kohi's Laundry
Saylor & Saylor Enterprises, LLC
300 Railroad Street
Denver, PA 17517
215-257-7335

Klassie Kakes and Katering
219 Fausnacht Drive
Denver, PA 17517
336-4677

Weaver Health Foods
108 South 6th Street
Denver, PA 17517
336-2263

Burkholder's Ever-Green Farm, Inc.
705 Franklin Street
Denver, PA 17517
336-5444

Melissa Hess Design Consultant
10 Hawthorne Drive
Denver, PA 17517
335-3424

Contractors/Construction

Purcell Construction Co.
560 North 5th Street
Denver, PA 17517
336-7400

Reamstown Excavating, Inc.
560 North 5th Street
Denver, PA 17517
336-3925

Cocalico Plumbing and Heating
27 North 4th Street
Denver, PA 17517
335-3454

Heck Construction Co.
143 Main Street
Denver, PA 17517
336-1020

Jason Simmons Floor Installations
42 Sunrise Circle
Denver, PA 17517
335-3239

CJ Diirner and Sons, Inc.
PO Box 401
Ephrata, PA 17522
717-721-9091

Ken Zeiset Home Imp.
516 Pine Street
Denver, PA 17517
335-3317

Fichthorn Electric
310 Railroad Street
Denver, PA 17517
335-3738

Remodeling Solutions, Inc.
901 Sycamore Drive
Denver, PA 17517
717-283-7691

GKM Electric
291 Beech Street
Denver, PA 17517
336-1005

Mr. Electric
200 Main Street
Denver, PA 17517
335-0557

TJ Electric
200 Main Street
Denver, PA 17517
721-6992

Climate Control Heating & Air, LLC
700 Main Street
Denver, PA 17517
484-797-6915

Cornerstone Home Inspections, LLC
747 Oak Street
Denver, PA 17517
610-678-2946

Edmonds Cable Services
93 Monroe Street
Denver, PA 17517

Daycare

Cocalico Care Center
South 4th and Lancaster Ave.
Denver, PA 17517
336-4007

Kiddie Korner Nursery School
357 Walnut Street
Denver, PA 17517
336-7975

Florists/Flowers

Ephrata Flower Shop, Inc
621 Pine Street
Denver, PA 17517
336-3344

Garages/Mechanics

Ben's Truck Repair
560 North 5th Street
Denver, PA 17517
336-5700

Green Lawn Garage, Inc.
39 East Lancaster Avenue
Denver, PA 17517
336-6693

Mike's Towing
307 Washington St.
Denver, PA 17517
336-6310

Hertzog's Garage
2 Main Street
Denver, PA 17517
336-8288

Kohl's Custom's & Classics
340 Madison Street
Denver, PA 17517
336-5813

Industry

Ephrata Precision Parts
P.O. Box 323
Denver, PA 17517
336-2814

F & M Hat Company
103 Walnut Street
Denver, PA 17517
336-5505

Gehman Feed Mill
44 North 3rd Street
Denver, PA 17517
336-5585

Gem Ceramic Mold Co.
393 Locust Street
Denver, PA 17517
336-2798

Henry Schein, Inc.
41 Weaver Road
Denver, PA 17517
335-7230

Hope Hosiery Mill
205 Washington Street
Denver, PA 17517
336-4545

Kalas Manufacturing, Inc.
25 Main Street
Denver, PA 17517
336-5575

Ultimate Apparel, Inc.
P.O. Box 286
Denver, PA 17517
336-7594

Direct Wire and Cable, Inc.
412 Oak Street
Denver, PA 17517
336-2842

Denver Cold Storage
300 Washington Street
Denver, PA 17517
336-3900

Denver Self Storage
383 Locust Street
Denver, PA 17517
336-7058

Weaver Industries, Inc.
425 South 4th Street
Denver, PA 17517
336-7507

Custom Fab, Inc.
541 N 4th Street
Denver, PA 17517

Health/Medical

Cocalico Christian Home
316 North 5th Street
Denver, PA 17517
335-0608

Cocalico Dental Offices
601 North 6th Street
Denver, PA 17517
336-2807

Denver Nursing Home
400 Lancaster Avenue
Stevens, PA 17578
336-3878

Zimmerman Chiropractic
809 North 6th Street
Denver, PA 17517
336-2234

Professional Services

Harding-Yost Insurance
352 Main Street
Denver, PA 17517
336-2231

Nye Solutions
104 Fausnacht Drive
Denver, PA 17517
335-3288

Chris Harnish Painting
417 Walnut Street
Denver, PA 17517
336-5671

Leid, Lorah, and Co., CPA
117 North 6th Street
Denver, PA 17517
336-2891

James K. Noel, Esq.
McNees, Wallace & Nurick
28 North 6th Street
Denver, PA 17517
336-2880

Roseboro-Stradling Funeral Home
533 Walnut Street
Denver, PA 17517
336-6531

U.S. Post Office
101 Snyder Street
Denver, PA 17517
336-2230

Farlow Enterprises
121 Bon View Drive
Denver, PA 17517
336-3194

Life Change Ministry International
308 Washington Street
Denver, PA 17517
336-5437

Rodgers Wildlife Taxidermy
702 N 6th Street
Denver, PA 17517
519-9789

Restaurants

Courtyard Café on Main
349 Main Street
Denver, PA 17517
336-0556

DiBlasi's Sandwich Shop
328 Main Street
Denver, PA 17517
336-6100

CK Grill & BBQ
323 Main Street
Denver, PA 17517

La Cucina
336 Main Street
Denver, PA
336-3004

Recreation

KB Gymnastics
Denver Recreation Center
900 Spruce Street
Denver, PA 17517
336-4960

Bars/Social Clubs

Orioles Nest #54
207 Main Street
Denver, PA 17517
336-9939

Denver House
240 Main Street
Denver, PA 17517
336-6355

Government/Institutions/Churches

Borough of Denver
501 Main Street
Denver, PA 17517
336-2831

State Rep. Mindy Fee (R-37)
503 Main Street
Denver, PA 17517
336-2199

Horizons of Northeast Lancaster County
505 Main Street
Denver, PA 17517
335-2336

Denver Bible Church
235 Main Street
Denver, PA 17517
336-2473

Trinity United Methodist Church
420 Main Street
Denver, PA 17517
336-6903

Denver Mennonite Church
95 Monroe Street
Denver, PA 17517
336-7316

Faith United Evangelical Lutheran Church
357 Walnut Street
Denver, PA 17517
336-2141

St. John's United Church of Christ
South 4th Street and Lancaster Avenue
Denver, PA 17517
336-7600

Faith Mennonite Fellowship Church
335 N. Line Road
Stevens, PA 17578
336-3970

Cocalico School District
Administration
800 South 4th Street
P.O. Box 800
Denver, PA 17517-0800
336-1413

Cocalico High School
Grades: 9th through 12th
810 South 4th Street
P.O. Box 800
Denver, PA 17517-0800
336-1423

Cocalico Middle School
Grades: 6th through 8th
650 South 4th Street
P.O. Box 800
Denver, PA 17517-0800
336-1471

Denver Elementary School
Grades: Kindergarten through 5th
700 South 4th Street
P.O. Box 800
Denver, PA 17517-0800
336-1501



Borough of Denver

September 10, 2013

TO: Fred Wagaman, Chairperson, Denver Borough Planning Commission
FROM: Michael Hession, Borough Manager
SUBJECT: Agenda Items for the September 10, 2013 Planning Commission Meeting

Denver Borough respectfully requests that the Planning Commission include the following items on your September 10th meeting agenda:

1. Approval of the August 13, 2013 Meeting Minutes.
2. Review and discussion concerning Denver Borough's Draft #2 Storm Water Management Ordinance. Farley Fry and Jennifer Prunoske from Hanover Engineering will facilitate the discussion with the Planning Commission.
3. Discussion concerning proposed revisions to the Borough's Zoning Ordinance – Industrial District to consider expanding the adaptive reuse of older, industrial buildings.
4. New business.

In the interim, if you have any questions, do not hesitate to contact me at 336-2831.

Enclosures

c: Borough Council (w/o enclosures)
Frank Behlau, Lancaster County Planning Commission
Brad Stewart, Lancaster County Planning Commission

Denver Borough Planning Commission Meeting: September 10, 2013

Attendees:

Christi Purcell
Fred Wagaman
Leann Williams

Frank Behlau (LCPC)
Mike Hession (Denver Borough
Manager)
Farley Fry (Hanover
Engineering)
Jennifer Prunoske (Hanover
Engineering)

The meeting was called to order at 7:03 PM.

The minutes from the August meeting were approved as written.

Item 2; A review of Denver Borough's Draft #2 Storm water Management with Farley Fry and Jennifer Prunoske from Hanover Engineering.

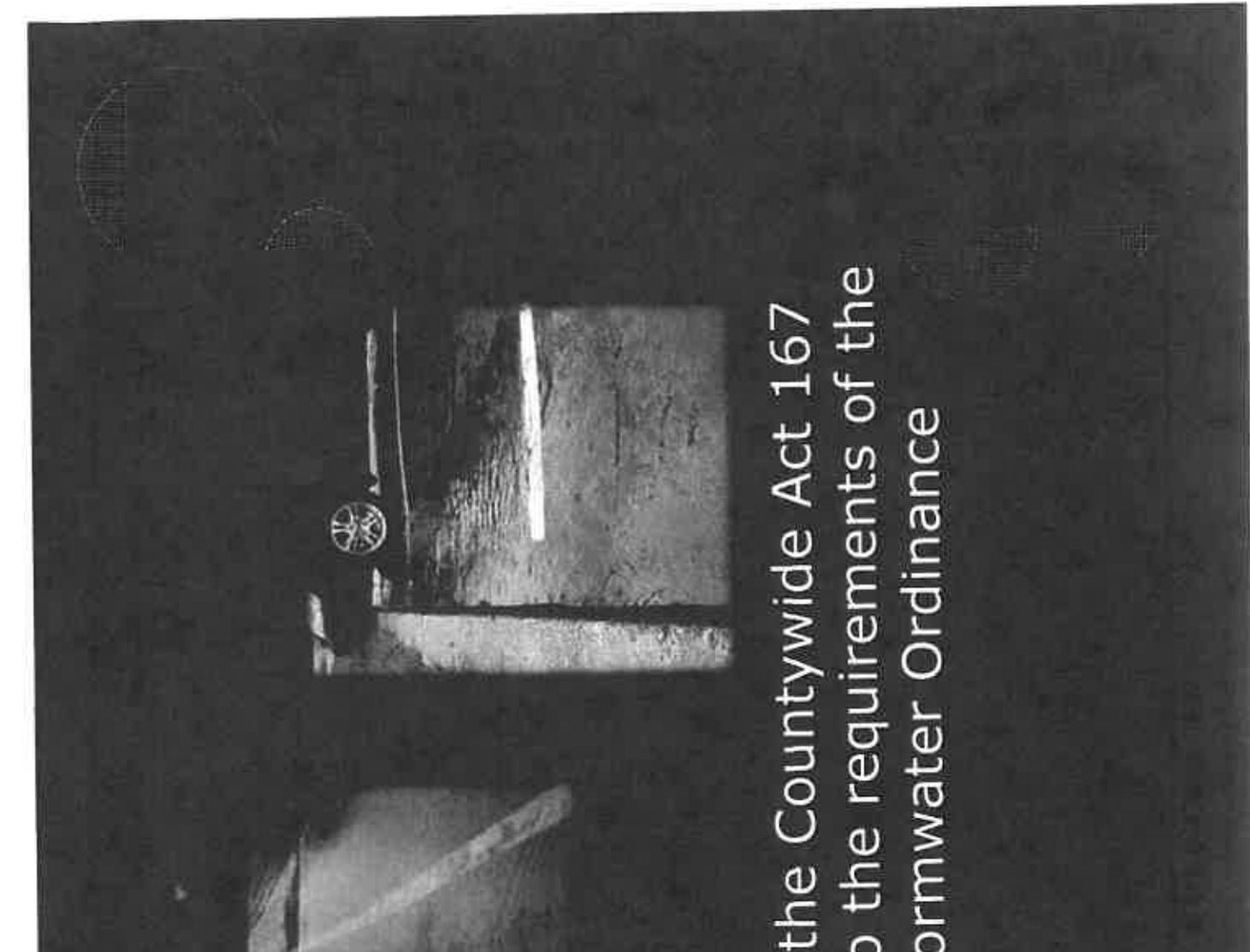
1. LCPC is waiting to receive a response from the DEP about a time extension.
2. 1,000 SF exemption status. Start date is the date from the original ordinance, and 1,000 SF is for the life of the property.
3. Draft Ordinance does not have an Ag exemption. The members of the Planning Commission recommend that one not be added.
4. a – Cistern/Stormwater runoff reuse requirements. Page 45 Section E – Add that cisterns must be emptied of storm water within a 72 hour time limit.
4. b. – Small project infiltration 2” vs 1”. Page 49 – most ordinances are using 1” And that is what the Planning Commission recommends.
4. c – Small projects to remain at 2,000.
4. d – Karst features map Appendix D. The DCNR website has an interactive Website of sinkholes in the area (for small projects we recommend that Appendix D be removed.
4. e – Small Project Design Application. 1,000 SF exemption used since November 11, 2013 should have the date of February 9, 2004. Instead of “ existing impervious coverage” it should read “current impervious Coverage”
4. f – Change wording from “maintenance fund” to “inspection fund”
4. g – Refer to solicitor on whether we can have an “example” of the application in The ordinance and give the actual application a form number and remove it From the ordinance.
5. Send ordinance with changes to solicitor for review.

(Ms. Prunoske and Mr. Fry left the meeting at 8:40 after reviewing the ordinance)

Item 3 Brad Stewart to update at October 8th meeting.

Item 4 discussion on possible parking issues in the Borough.

The meeting adjourned at 9:00 PM.



Act 167

A brief overview of the Countywide Act 167
Plan and changes to the requirements of the
Denver Borough Stormwater Ordinance

Just the facts...

- Revised Countywide Plan (Blueprints) approved by PADEP on May 21, 2013
- The existing Denver Borough SWM ordinance must be amended or new ordinance adopted to comply with the provisions of the Plan by November 11, 2013 (November BC mtg.). Deadline is November 21, 2013.
- Changes to Definitions or new definitions:
 - Agricultural Activity – Activities associated with agricultural cultivation, agricultural operation, and animal heavy use areas. This includes the work of producing crops and raising livestock including tillage, land clearing, plowing, disking, harrowing, planting, harvesting crops, or pasturing and raising of livestock and installation of Conservation Practices. **Construction of new buildings or impervious areas is NOT considered an agricultural activity.**

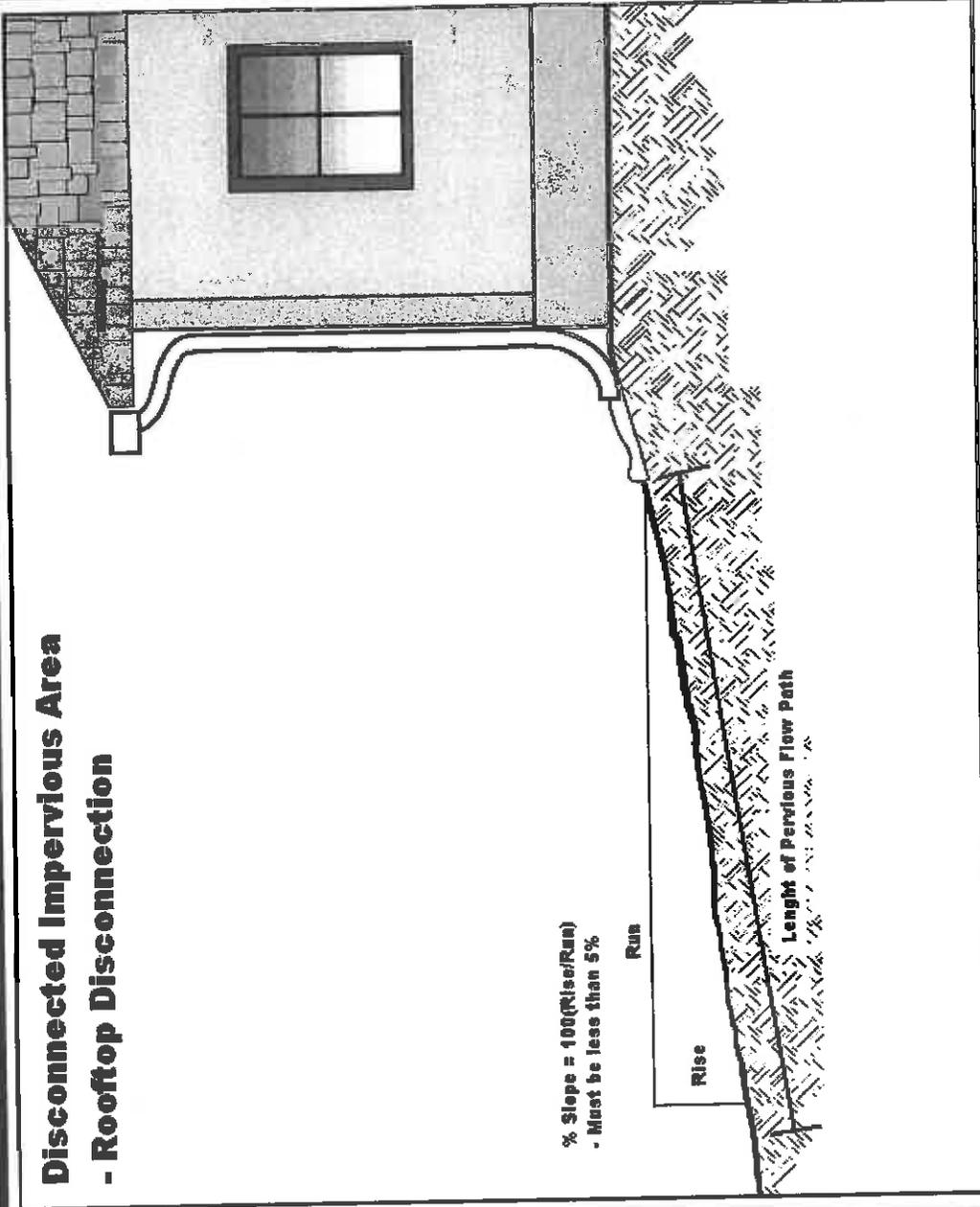
Just the facts...

- Disconnected Impervious Area (DIA) – An impervious or impermeable surface that is disconnected from any stormwater drainage or conveyance system and is redirected or directed to a pervious area, which allows for infiltration, filtration, and increased time of concentration.



Disconnected Impervious Areas (DIA)

Disconnected Impervious Area - Rooftop Disconnection



% Slope = 100(Rise/Run)
- Must be less than 5%

Run

Rise

Length of Pervious Flow Path

Just the facts...

- Impervious Surface (Impervious Area) - Surfaces which prevent the infiltration of water into the ground. All structures, buildings, parking areas, driveways, roads, streets, sidewalks, decks, and any areas of concrete, asphalt, packed stone, and compacted soil shall be considered impervious surfaces if they prevent infiltration. (Previously this additional statement was included: In addition, all other areas as determined by the Borough Engineer to be impervious within the meaning of this definition shall also be considered impervious surfaces.)

Just the facts...

- **Exemptions** – 1st level - first 1,000 sq. ft. of impervious cover (cumulative) is exempted from providing any stormwater improvements to address the additional volume and rate changes. A simple application has been added to the draft SWMO for the applicant to complete and Borough records. UNDER DEP REVIEW
- **Small Project** - 2nd level - cumulative of 1,000 sq. ft. (range of 1,001 sq. ft. to 2,000 sq. ft.) once 2,001 sq. ft. level is hit the projects are minor or major; no engineer needed to design, no processing through PC/BC; small project application and address stormwater management volume of 1" or 2" storm event; SWM agreement for proposed facility is required
- **Minor SWM Plans** – 3rd level – 2,001 sq. ft. to 5,000 sq. ft.; engineer is needed, no processing through PC/BC – review by Borough staff, financial security is required, SWM agreement is required, reduced number of plan requirements, EnS plan required (reviewed by Boro.)
- **Major SWM Plans** – 4th level - over 5000 sq. ft.; requires PC and BC review and approval, financial security is required, SWM agreement; engineer required, LCCD approval, NPDES approval (if over 1 acre)

Just the facts...

- Volume controls
- Rate controls – match predevelopment vs. post-development rates or 50% reduction of post-development peak flow rates vs. pre-development
- Exemption of 1,000 sq. ft. across the board (cumulative)
 - waiting on DEP approval
- As-built plans to be recorded
- SWM facilities – future maintenance

Options to Consider

- Small project reviews: 1" vs. 2" infiltration
- Documentation of projects – exemptions (1000 sq. ft. cumulative), small projects (additional 1000 sq. ft. cumulative), minor and major plans
- Financial security requirements: Minor (?) & Major
- SWM agreements: Small Project, Minor & Major (solicitor input)
- Soils testing : Small project (?)
- Inspections
- Karst Area requirements: Small Projects (?)
- Stormwater Maintenance Fund (?)
- Update Fee Resolution to cover additional permits: small projects, minors, majors, exemption administrative review
- Fencing around aboveground storage facilities: Where & When
- Permit Life: 1 year? 2 year? More?

What do we need to do? Tentative

Schedule (subject to Solicitor's review)

- ✓ **August 2, 2013** - Hanover Engineering provided initial draft SWMO to Borough for review and mark-up.
- ✓ **August 13, 2013** - Planning Commission meeting to discuss Draft #1 SWMO and Borough SWM policy.
- **August 2013** - Finalize the ordinance for final review during September.
- **September 20, 2013** - Final revisions to Ordinance due.
- **October 8, 2013** - Planning Commission recommends adoption of SWMO.
- **October 14, 2013** - Borough Council authorizes advertising the Ordinance for adoption in November.
- **November 11, 2013** - Borough Council adopts the Ordinance at the November 11 meeting.

ANY
QUESTIONS?

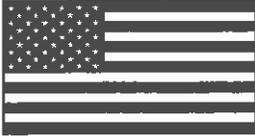


DENVER EXPRESS

THE DENVER BOROUGH NEWSLETTER

A QUARTERLY PUBLICATION FOR THE RESIDENTS OF DENVER BOROUGH

2013 Denver Memorial Day Service



On Monday, May 27, 2013, the Denver area will celebrate Memorial Day with our annual parade and services in the Denver Memorial Park. The Memorial Day Parade will start at 9:00 a.m. at the Denver Fire Company Hall located at North 4th Street and Locust Street. The Centerport Band again will lead the march with any other group that would like to fall in line. As last year, a short service of tribute will take place alongside the cemetery at North 4th Street with a special hymn dedicated to the veterans buried there. A representative from the Denver Woman's Club will place a floral tribute on the grave of a veteran representing all veterans buried in our cemeteries.

Upon conclusion of this abbreviated service, the parade will resume on North 4th Street to Walnut Street, and then turn west on Walnut Street to the bandstand in the Denver Memorial Park for the balance of the service. John Palm will lead the service and present the speaker. Appropriately, the procession will move to the Memorial to hear the "Roll of Honor" and "Salute the Dead" with the rifle squad of the Reinholds VFW Honor Guard. Representatives from the Boy Scouts will place a cross for each veteran whose life was taken in the service of their country.

The Memorial Day Service will again involve the participation of local youth with patriotic displays such as bicycles or floats decorated in an appropriate manner to celebrate the support of our veterans. This year prizes will be awarded to the first and second place patriotic display winners in the following two (2) categories: Junior Group (12 years of age and under) and Senior Group (13 years of age to 16 years of age).

LOGO/Letterhead Contest

Enclosed in the insert please find the nine (9) entries submitted for the Denver Borough LOGO/Letterhead Design Contest. The entries include eight (8) new entries submitted to the Borough as well as the current LOGO/Letterhead design used by the Borough. A copy of the LOGO/Letterhead design entries also are on display at the Denver Borough Municipal Building and on the Borough's website at www.denverboro.net.

Please review the entries and cast your ballot for your choice for the Borough's LOGO/Letterhead. Voting can be made by reviewing the official ballot, selecting your choice, writing your name and address, and returning the ballot form to the Borough of Denver, 501 Main Street, by **Friday, May 31, 2013**. Ballots are available in the Borough newsletter and at the Denver Borough Municipal Building. The Borough will accept one (1) ballot per household/business.

The votes will be tallied and Borough Council will review the results during their **June 10, 2013** Borough Council Meeting. In the interim, if you have any questions, do not hesitate to contact Michael Hession, Borough Manager, at 717-336-2831 or at dboro@ptd.net.

Borough Composting Facility – Illegal Dumping

Within the last month the Borough has identified and removed a growing number of illegal items dumped at the Denver Borough Composting Facility on Main Street. The materials have included a bedroom dresser broken in pieces, an empty propane tank, a computer monitor, railroad ties, a trash can, and three (3) white buckets. The continued dumping of illegal items at this facility may lead to the Borough having to close the facility. If you see any illegal dumping, please contact the Municipal Building at 336-2831.

2013 Denver Community Pool

The Denver Community Pool will open for the 2013 season on Memorial Day Weekend, May 25th, 26th, and 27th. The Pool also will be open during the weekend of June 1st and 2nd. Beginning Thursday, June 6th, the Pool will be open daily through Sunday, August 25th.

The Borough is happy to announce that Pool rates and membership fees will remain the same as last year. Please note, the last time Borough Council raised the Pool rates was prior to the 2008 season. A copy of the flier detailing the 2013 Pool schedule and the membership fees and rates can be accessed on the Borough of Denver's website at www.denverboro.net. Membership passes for the 2013 season are on sale now at the Municipal Building.

In 2013, the Borough will contract with the Ephrata Recreation Center for the 10th consecutive year to manage the Denver Community Pool. The Borough also will contract with Patty McCafferty and Beth Eberly to operate the Pool Snack Bar for the second consecutive year. The Snack Bar menu will include tasty items such as hot dogs, hamburgers, walking tacos, BBQ Sandwiches, nachos, soft pretzels, and assorted candy, ice cream, and popsicles.

During the 2013 pool season, the Adamstown YMCA will provide summer swim lessons for the ninth (9th) consecutive year at the Denver Pool. The lessons will be provided at the Denver Pool from July 22, 2013 through August 2, 2013. Registrations for the swim lessons can be obtained at the Denver Borough Municipal Building and the Adamstown YMCA.

Also, in 2013, the Borough again will partner with the Girl Scouts in the Heart of Pennsylvania to provide the Healthy Promise Program at the Pool designed to educate girls about healthy food choices and the importance of being active. The program is ideal for girls ages 5+ and includes games and activities to teach girls how their food choices affect their health.

2013 Denver Community Pool Resident Rates			
	Until	6/8/13 -	7/8/13
	6/7/13	7/7/13	and After
Family	\$145.00	\$155.00	\$115.00
Adult	\$ 85.00	\$ 90.00	\$ 75.00
Senior	\$ 50.00	\$ 55.00	\$ 35.00
Student	\$ 50.00	\$ 55.00	\$ 35.00
Pre-K	\$ 20.00	\$ 20.00	\$ 20.00

Denver Bingo Association - MONEYBALL BINGO -

Moneyball Bingo will be held at the Denver Fire Hall on **Saturday evening June 29th**. All cash prizes! Over 70 games of bingo for a price of \$50.00, which includes all food and drink. The bingo program in Denver is run by the Denver Bingo Association. The association consists of the Denver Fire Company and the Denver Lions Club. All proceeds stay in our community for Denver Projects. For tickets or more information call Randy at 717-572-6395.

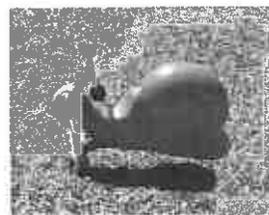
Denver Memorial Park Facility Improvements

Denver Park Restroom Renovation Project

In April, 2013, the Borough staff upgraded the restroom facility in the Denver Memorial Park including the replacement of plumbing and fixtures, the installation of new countertops, and the installation of a handicap accessible restroom stall in both the Men and Women's restrooms. Following the completion of the plumbing renovations, the Borough staff painted the walls, floors, and the doors of the facility.

Denver Tot Lot Spring Rider Replacement

In April, the Borough purchased and installed a new "spring rider" in the Tot Lot Playground area located on the lower section of the Park. The old spring rider was removed and a new Pokey "C" Spring Rider was installed in its place. Following the installation the Borough added additional safety surface mulch material to the facility.

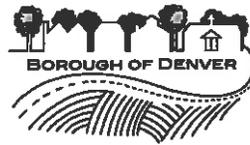


Pavilion #3 Picnic Table Replacement Project

The Borough of Denver used a combination of FEMA/PEMA reimbursement monies and Denver recreation Board funding to purchase 26 new picnic tables to replace the dated and damaged picnic tables in Pavilion #3. The new tables are wooden picnic tables that are six (6) feet long with benches for seating attached on both sides. Prior to the installation of the tables the Borough treated the tables to make sure that they will last as long as possible. The old tables were removed and recycled by the Borough.

Denver Borough LOGO/Letterhead Design Contest Final Entries

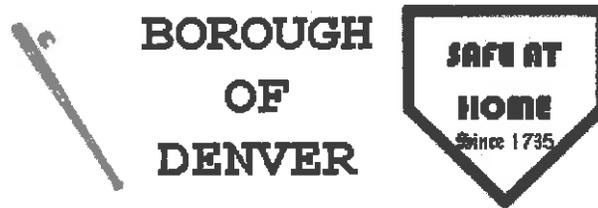
Entry #1: _____



Entry #2: _____



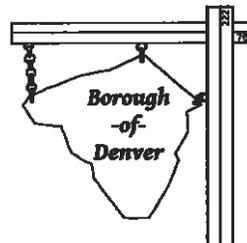
Entry #3: _____



Entry #4: _____



Entry #5: _____



Entry #6: _____



Entry #7: _____



Entry #8: _____



Entry #9: _____



**Borough
of
Denver**

Cut here....

Denver Borough LOGO/Letterhead Design Contest Official Ballot

Please select one (1) design entry and submit your ballot to the Denver Borough Municipal Building,
501 Main Street, Denver, PA 17517, by **Friday, May 31, 2013.**

Name: _____
Address: _____

Entry #1: _____ Entry #2: _____ Entry #3: _____
Entry #4: _____ Entry #5: _____ Entry #6: _____
Entry #7: _____ Entry #8: _____ Entry #9: _____

FREE Home Compost Workshops Scheduled



The Lancaster County Solid Waste Management Authority (LCSWMA) is partnering with municipalities, community organizations, and Penn State Master Gardeners to conduct **FREE** home compost workshops where residents can learn how to recycle organic waste from their kitchens and gardens instead of putting it in the trash.

Composting is an excellent way to recycle vegetable scraps, grass clippings, leaves and other organic materials and turn them into a useful and valuable product to naturally improve the soil. Workshop attendees will also learn how to build effective, yet inexpensive home compost bins to meet their needs. Each household in attendance will be eligible to enter a drawing to receive a free kitchen scrap collection bucket courtesy of the Mid-Atlantic Region of the Environmental Protection Agency (EPA).

Lancaster County residents are invited to attend any one of the home compost workshops scheduled for this year at no cost. Residents are encouraged, and in some cases required, to pre-register by noon on the Friday prior to the workshop they'll be attending.

June 1 at the Community Center in East Petersburg Borough located at 6051 Pine St., East Petersburg. The workshop is from 10 am to 11 am. No fee is required, but pre-registration is recommended. To pre-register or for more information, please contact the East Petersburg Borough Recycling Coordinator at (717) 569-9282 or email vag.ep4@comcast.net.

June 4 at the City of Lancaster Recycling Drop-off Center located at 850 New Holland Ave. Lancaster. The workshop is from 6 pm to 7 pm. No fee is required, but pre-registration is recommended. To pre-register or for more information, please contact the City of Lancaster Solid Waste & Recycling Manager at (717) 291-4762 or email tbreisen@cityoflanasterpa.com.

June 15 at Little Chiques Park on Park Avenue in Mount Joy Borough. The workshop is from 10 am to 11 am. No fee is required for this workshop, but pre-registration is recommended. For more information, please contact the Mount Joy Borough Recycling Coordinator at (717) 653-2300 or email borough@mountjoypa.org.

Representative Fee Offers Veterans Assistance in Manheim and Denver

Rep. Mindy Fee (R-Manheim) will offer assistance to Veterans of the 37th District in her Manheim and Denver offices beginning in April. "This service is available to any Veteran who lives in the 37th District," said Fee. "I encourage Veterans who have questions about their benefits or about programs for Veterans to take advantage of this service."

Randy Nosal, a Department Service Officer with the American Legion – Department of Pennsylvania, **will visit the Denver office on the second Wednesday of each month**, starting on April 10. He will visit the Manheim office on the third Wednesday of the month, starting on April 17. He will be available at each location from 9 a.m. to 3 p.m.

Nosal will assist veterans with their questions about benefits and can help file claims. Some of the issues he can provide assistance with include:

- Compensation and pension claims.
- Education benefits.
- Enrollment in the VA health care system.
- Burial and survivor benefits.
- State benefits.
- Obtaining military personnel and medical records.

Veterans interested in using this service are asked to contact Fee's office in Manheim at (717) 664-4979 or in Denver at (717) 336-2199 to schedule an appointment.

Representative Fee notes Nosal's impressive record of military service and thanked him and The American Legion for providing this service. "We are very lucky to have Randy Nosal available in our offices through The American Legion's outreach program" said Fee. "He is a recipient of the Purple Heart as a medic and a Combat Infantryman Badge who volunteered for two tours in Iraq and one in Afghanistan. His expertise will be a blessing to Veterans of the area who are seeking assistance."

Fee's Manheim office is located 47 Market Square in Manheim, and her Denver office is located at 503 Main Street in Denver. More information about Fee and her legislative priorities is available at www.RepFee.com and [www.Facebook.com/RepFee](https://www.facebook.com/RepFee).

Take the Stormwater Runoff Challenge

Across

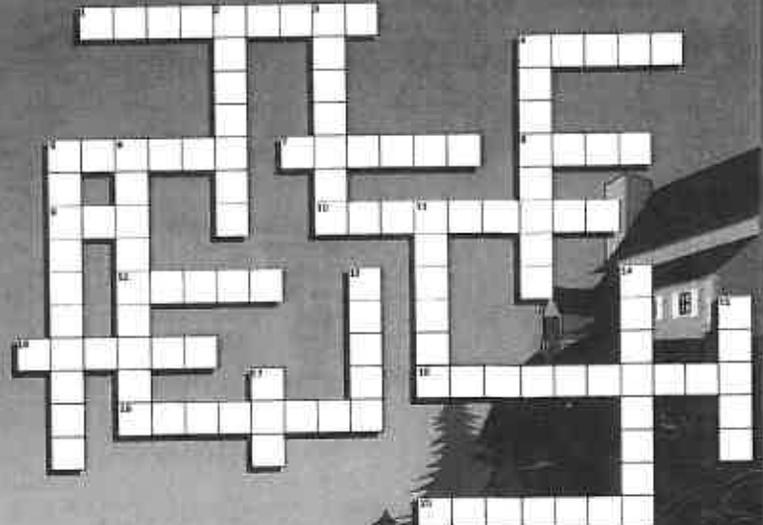
1. The use of land that causes less or no runoff, less erosion, or groundwater recharge is a _____.
2. The _____ of spreading seeds can cause erosion.
3. Maintaining your _____ lawn will help to prevent bacteria and nutrients from being washed into groundwater and surface waters.
4. Wetland plants are the a natural water _____ removing harmful pollutants from stormwater runoff.
5. Leave your grass clippings on your lawn to reduce the need for commercial fertilizers.
6. A single quart of motor oil _____ 1 million gallons of water.
7. Fertilizers and animal wastes contain _____, _____, and other nutrients harmful to water quality.
8. Polluted runoff from both rural and urban areas has a significant impact on water quality.
9. Storm _____ always connect to sewage treatment plants, so runoff can flow directly to rivers, lakes, and coastal waters.
10. Follow directions carefully when applying _____ to your lawn—more isn't always better.
11. Polluted runoff (also called _____) comes from so many places that it's hard to pinpoint a source.
12. Yard and vegetable food waste are suitable additions to a _____ pile.

Down

1. _____ stormwater runoff is the most common cause of water quality problems.
2. _____ of your lawn can reduce runoff and filter pollutants.
3. _____ erosion, improve water quality, and provide habitat for waterfowl, fish, and wildlife.
4. Making the "No Dump" signs to help you _____ a one year to reduce pollution about outdoor runoff.
5. Excess nutrients, nutrients, _____, and _____ are all types of runoff.
6. Polluted _____ is the nation's #1 water quality problem.
7. The federal law which _____ total maximum daily loads (TMDLs) for _____ polluted runoff.
8. Too much _____ stormwater can harm agriculture.
9. Proper _____ and storm management can help to control water pollution.
10. _____ impact development helps control stormwater pollution through conservation approaches and techniques.

Clues:

- | | | |
|------------|-----------|-------------|
| compost | nonpoint | sediment |
| drains | nutrients | septic |
| erosion | oil | storm drain |
| leaves | plant | urban |
| fertilizer | pollution | vistas |
| rules | recycle | watershed |
| lawn | runoff | wetlands |
| low | | |



For more information, please visit EPA's
Polluted Runoff web site at www.epa.gov/nps

Contact name and e-mail _____
Contact phone number and e-mail _____

DENVER BOROUGH
501 Main Street
Denver, PA 17517
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DENVER EXPRESS

THE DENVER BOROUGH NEWSLETTER

A QUARTERLY PUBLICATION FOR THE RESIDENTS OF DENVER BOROUGH

2014 Denver Borough Council



Front Row (l to r): Mayor Rodney L. Redcay, President Blake S. Daub, and Vice President Michael Gensemer.

Back Row (l to r): Michael Cohick, Walter Fink, Jason South, Matt Stover, and Christopher Flory.

On January 6, 2014, the new Denver Borough Council met at the Denver Borough Municipal Building to conduct their Reorganization Meeting. The 2014 Borough Council welcomes the following newly elected members: Blake S. Daub, Chris Flory, Mike Gensemer, Jason South, and Matt Stover. Rodney Redcay begins his term as the newly elected Mayor for the Borough.

During the January 6th meeting Borough Council reorganized for the next two (2) years and elected Councilman Blake Daub to serve as Borough Council President. Councilman Mike Gensemer was elected Vice President, and Councilman Walter Fink was elected Chairman Pro Tem.

Borough Council meets the second and last Monday of every month at 7:00 p.m. at the Denver Borough Municipal Building, 501 Main Street, Denver. All meetings are open to the public.

2014 Denver Park Clean-up Day



The annual Denver Park Clean-up Day has been scheduled for **Saturday, April 5, 2014,**

beginning at 9:00 a.m. at the Kitchen Pavilion at the Denver Memorial Park and Playground. Residents are invited to join together with various civic organizations including the Denver Recreation Board, the Denver Park Association, and the Denver Fair Committee to clean sticks, debris, and trash from the Denver Memorial Park and other park facilities.

Volunteers who participate in the clean-up day are treated to free hot dogs and drinks. The Borough would like to thank Denver Meats for donating the hot dogs; Turkey Hill Minit Mart for donating the drinks; and Weavers Markets for donating the hot dog rolls. Come on out, get involved, and help your community.

Arbor Day/Tree City USA Celebration

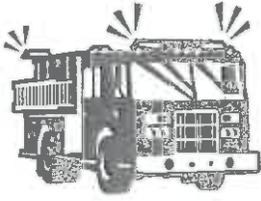


TREE CITY USA

On Saturday, April 26, 2014, the Shade Tree Commission will celebrate Arbor Day 2014 with a tree planting ceremony in the Denver Memorial Park and Playground, 801 Main Street, Denver. The ceremony will begin at 9:00 a.m. at the North 9th Street and Spruce Street entrance to the Park and will include the reading of an Arbor Day Proclamation by Mayor Rodney Redcay as well as a presentation from the Department of Conservation and Natural Resources (DCNR) recognizing the Borough as a Tree City USA Recipient.

Following the ceremony, community volunteers, under the direction of the Denver Borough Shade Tree Commission, will plant five (5) trees at designated areas in the Denver Memorial Park and the Denver Park Annex. This year will mark the 16th consecutive year that the Borough of Denver has been named as a Tree City USA. Residents are invited and encouraged to participate in the ceremony and to assist with the planting and celebration.

Denver Fire Company Annual Fund Drive



The Borough of Denver would like to recognize and thank the following Denver Borough businesses, organizations, and churches who have donated to the Fire Company's Fund Drive in 2013.

Businesses

F & M Hat Co.	Fulton Bank
Denver Orioles	Denver Cold Storage
Kalas Foundation	Denver Supply
Weaver Industries	Weaver Health Foods
Gehman Feed Mill	Ephrata National Bank
Ben's Truck Repair	Nic's Barber Shop
Purcell Construction	Denver Planing Mill
Leid Lorah Company	Reamstown Excavating
Ephrata Precision Parts	Denver Beer Distributor
Harding-Yost Insurance	DiBlasi's Sandwich Shop
Denver Nursing & Rehabilitation Center	
Roseboro-Stradling Funeral Home	

Churches

Faith United Lutheran Church
St. John United Church of Christ
Denver Mennonite Church
Faith Mennonite Church

Others

Denver Lions Club
Four Seasons Produce
High Company Foundation

The funds donated to the Denver Fire Company through the Annual Fund Drive are used to offset operating expenses and capital improvements. The Borough encourages all businesses and property owners/residents living in the Borough to support the Denver Fire Company by contributing to the Denver Fire Company's Annual Fund Drive.

FEMA's New Flood Insurance Rate Maps (FIRM) for Denver Borough

Flooding is one of the most frequent and costly disaster in the Borough of Denver. The risk for flooding changes over time due to erosion, land use, weather events, and



other factors. The risk for flooding can vary within the same neighborhood and even property to property, but it exists throughout the area. Knowing your flood risk is the first step to flood protection.

A multi-year project to re-examine the Borough of Denver's flood zones and develop detailed, digital flood hazard maps has been completed. Just released for public review, the new maps -- also known as digital Flood Insurance Rate Maps (FIRMs) -- reflect current flood risks, replacing maps that are up to nine (9) years old. As a result, you and other property owners throughout Lancaster County will have up-to-date, reliable, Internet-accessible information about your flood risk, on a property-by-property basis.

These flood hazard maps are important tools used in the effort to protect lives and properties in the Borough. By showing the extent to which areas of the Borough and individual properties are at risk for flooding, the flood maps help business owners and residents make more informed decisions about personal safety and financially protecting their property. These maps also allow community planners, local officials, engineers, builders and others to make determinations about where and how new structures and developments should be built.

The maps that were just released are still preliminary. A Public Comment Period concerning these draft maps will extend through **May 5, 2014**. This is a time when citizens have the opportunity to submit technical and/or scientific data to file a protest regarding their individual property, or an appeal regarding the accuracy of the mapping process in general. To learn more about the appeals process, visit www.rampp-team.com/fact_region3.htm.

Once the appeals and protests are reviewed and once any needed map changes are incorporated, FEMA will issue a Letter of Final Determination. Six (6) months later, an ordinance approving the new Digital Flood Insurance Rate Map will be adopted. The maps then will become effective, as will any new flood insurance requirements. However, please be aware that starting immediately, these flood hazard maps will be used in helping to determine requirements for construction and development.

Conservation Landscaping

To reduce our storm water runoff and the pollution entering the Chesapeake Bay, as well as to create a healthier and more sustainable environment, the Conservancy's Urban Greening Program encourages property owners throughout Lancaster County to consider conservation landscaping as an alternative to lawns and hardscapes.

What is Conservation Landscaping?

Conservation landscaping is a type of landscape management that utilizes native plants to create gardens that reduce runoff, prevent air and water pollution, and preserve natural resources, all while beautifying our yards and neighborhoods. Native plants are used because they are more disease, pest, and drought resistant and better adapted to local soils. This allows for a reduction of fertilizer, herbicide, and pesticide application, benefiting wildlife and attracting pollinators. Earthworms and soil microorganisms also benefit, improving soil quality.



Conservation Landscaping Reduces:

- Time and money spent on yard maintenance
- Gas use for mowing
- Building heating/cooling costs
- Fertilizer and pesticide/herbicide application
- Soil erosion
- Water use – According the U.S. EPA, “the typical suburban lawn consumes 10,000 gallons of water above and beyond rainwater each year.”

Consider Installing a Rain Garden

A rain garden is a shallow landscaped area that can retain and filter several inches of water. During installation, some of the existing soil is removed and replaced with a sandy soil mix. For more information, please call 717-392-7891 ext. 207 or email fschroeder@lancasterconservancy.org.

10 Things You Can Do To Save the Bay

16 million people live on the land that drains into the Chesapeake Bay, and the actions that we take in our daily lives have a big impact on our environment. You can make a difference in the health of this national treasure. Think about the choices you make in your home, in your yard, and at your table. Consider making changes to help lessen pollution in our waterways. Here are some ideas.

Join the Chesapeake Bay Foundation. Add your voice to those of the 140,000 members who are the Bay's strongest advocates. Your contribution works throughout the watershed to save the Bay, its rivers, and streams. And be sure to sign up for the CBF Action Network to stay informed about issues affecting the protection and restoration of the Bay. Through free e-mail alerts from CBF, you'll be well-versed on vital Bay issues that need your action, and you can contact key decision-makers when it counts.

IN YOUR YARD

Make your lawn greener. In your landscaping, use native grasses or other plants that don't require watering or fertilizing. Reduce or eliminate use of chemical herbicides and pesticides. Learn to live with a few dandelions. Lawn fertilizers and chemicals are a significant source of nitrogen and phosphorus pollution and runoff.

Avoid pouring toxic substances down storm drains. Don't dump hazardous materials, solvents, paints, and preservatives, or any other toxic substances, and waterways pollute the Bay. Use your community hazardous waste collection program instead.

Plant a tree. Besides providing oxygen to the atmosphere, trees hold soil in place with their roots, protect vegetation that runs into the Bay, they soak up fertilizers and other chemicals before they reach the waterways. And by shading your home, they minimize the energy used for cooling.

AT HOME

Drive less. Air pollution contributes more than one-third of all the nitrogen entering the Bay, and a large part of that is from vehicle exhaust. Make it a personal goal to combine errands and limit trips to reduce your contribution to auto emissions. And when the time comes to buy a new car or truck, choose the most fuel-efficient and low-emission gasoline, gasoline-electric hybrid, or alternative-fuel model in its class.

Buy local foods. Did you know that most foods you eat travel 1,500 miles before they get to your plate? Buying food that is grown on local farms minimizes transportation-related emissions. It also keeps local farmers in business—which is good for Bay lands and, ultimately, Bay water quality. Try shopping for your produce at farmers' markets, or join a Community Supported Agriculture farm.

Minimize your use of household chemicals. Instead of all-purpose cleaners, use baking soda or borax and hot water for almost every sort of household cleaning. From toilet bowls to greasy pots and pans, and laundry. Natural products reduce toxic chemicals in the home.

Conserve water. Take shorter showers. Turn off the water while you're brushing your teeth, washing your hands, or doing dishes in the sink. By reducing your use of water, you help wastewater treatment plants function more effectively by reducing the volume they process.

IN YOUR COMMUNITY

Introduce a friend to the Bay watershed. Many people don't realize that they are part of a watershed, and that their actions have an impact on water quality. Share your concerns about the Bay with friends and neighbors, or visit a stream, creek, or park with a child. If people love their environment, they'll be more likely to take care of it in the future.

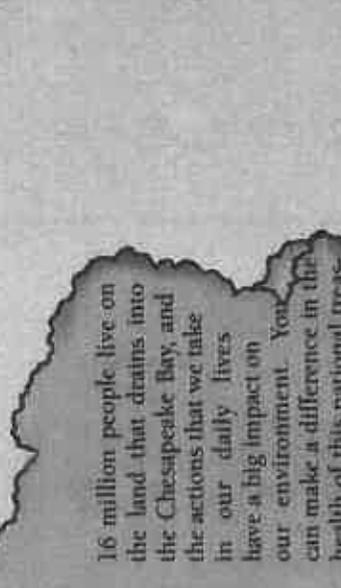
Become an informed voter. One of the most important individual actions that you can take is to vote for thoughtful and responsible land use and conservation policies in your community and state. An informed electorate can hold its political muscle on behalf of the environment.

WANT TO KNOW MORE?

Visit the Chesapeake Bay

Foundation Web site:

cbf.org



CHESAPEAKE BAY FOUNDATION

Saving a National Treasure

Printed on recycled paper

Denver Borough's 2014 Improvement Projects

Listed below is a summary of the major infrastructure improvement projects that are proposed for Denver Borough in 2014:

Jefferson Avenue Reclamation and Repaving Project

This project includes a full-depth reclamation and paving of Jefferson Avenue from Lancaster Avenue to South 4th Street. The contractor will mill the existing street surface and then recycle the millings with the addition of a cement additive to strengthen the street base. The roadway will be paved with the final grading matching the existing storm water management system and new handicap ramps on Jefferson Avenue.

Fausnacht Drive – Milling and Overlay Project

The Fausnacht Drive Project includes a base bid to mill and overlay (with some base repair) the section of Fausnacht Drive from Jefferson Avenue to the radius heading toward School Court, and, an Alternate Bid for the mill and overlay of the dead-end section of Fausnacht Drive.

The Borough will Bid the Jefferson Avenue and Fausnacht Drive street projects as two (2) separate projects in one (1) advertisement. This will enable the Borough to receive bids from contractors for the mill and overlay work on Fausnacht Drive who do not bid on full depth reclamation projects. Also, by Bidding in this manner, the Borough will have the options to award the bids for one (1), two (2), or all three (3) projects, based on the projected costs for the projects as well as the Borough's allocation of funds for these projects.

The proposed project timeline includes the work to begin on June 15, 2014 and to be completed by August 15, 2014. Prior to the start of the project, the Borough's Public Works Department will install a six-inch (6") water cut-in valve on Jefferson Avenue at Fausnacht Drive to help isolate sections of that water main in the event of any future water line break. The Public Works Department also will make repairs to the existing storm water inlet boxes on both Jefferson Avenue and Fausnacht Drive in the project areas prior to the paving.

S.R. 1051 Bridge Replacement Project (Main Street by Kalas Manufacturing)

Beginning in October, 2014, PennDOT will contract to have the bridge deck on the Main Street Bridge by Kalas Manufacturing replaced. Construction will continue through the summer of 2015.

During the bridge deck replacement project, vehicle traffic will be maintained on this section of Main Street by alternating lanes through the use of a temporary traffic signal. Also, pedestrian access will be accommodated during construction via a detour walking route. PennDOT will install a form liner, pattern finish to the bridge structure as part of the project.

Denver Borough Streetlight System Purchase and LED Conversion

The Borough of Denver currently is working with a consultant from Suburban Lighting Consultants, Inc. to purchase the Borough's streetlight system from PPL Electric Utilities and to replace the existing high pressure sodium lights with brighter, crisper, and more energy efficient Light Emitting Diode (LED) streetlights. The goal for completion of this project is October 31, 2014.

The Borough currently has a total of 344 streetlights in the community. The projected costs associated with purchasing the streetlights and decorative streetlight poles from PPL is approximately \$255,000.00. The projected cost to the Borough for the removal of the existing high pressure sodium lights and the installation of the new LED lights is approximately \$230,000.00. Overall, the worst case scenario for the Borough to purchase the 344 unit street light system and to convert these lights to a clear, white LED light is approximately \$484,690.00.

As per the results of the feasibility study, based on current rates, the Borough will realize an annual rate reduction savings of approximately \$55,000.00 per year. Thus, based on the projected savings, the system will pay for itself within 10 years and the Borough will have a brighter and cleaner street light system to benefit the residents.

State Representative Mindy Fee's Report...

Help for Veterans

Twice each month, a representative from the American Legion visits my offices to offer assistance to local veterans. Here are some of the issues that this representative can help with:

- Compensation and pension claims.
- Education benefits.
- Enrollment in the VA healthcare system.
- Burial and survival benefits.
- State benefits.
- Obtaining military personnel and medical records.

Appointments are available in the Denver office the second Wednesday of every month. To schedule an appointment, call the office at 717-336-2199

Town Hall Meeting – Let's Talk About the Issues

I will be hosting a Town Hall meeting on **Tuesday, March 25, 2014, from 6:30 p.m. to 8:00 p.m., at the Denver Borough Municipal Building, 501 Main Street, Denver.** I'll share what is going on in your state Legislature, and you'll share with me what's on your mind about the issues. No registration is required. Hope to see you there!

My Denver district office is located in the Denver Borough Municipal building and the hours are:

Monday, Wednesday and Friday from 9 am – 4:30 pm
Tuesday and Thursday hours are available by appointment.

DENVER BOROUGH
501 Main Street
Denver, PA 17517

Denver Union Cemetery Genealogical Book

Local historian Kenneth D. McCrea, PH.D, recently published a book titled "Denver Union Cemetery, Denver, Lancaster County, Pennsylvania." According to the Forward on page 2 of the book, "the purpose of this book is to make the genealogical information recorded on the gravestones in the Denver Union Cemetery available to those people who are not able to travel to the cemetery."



People interested in purchasing this bit of Denver history can do so at Amazon.com.

2014 Street Sweeping Program

The Borough of Denver will conduct its annual Street Sweeping Program on **Wednesday, April 30th and Thursday, May 1st between the hours of 7:30 a.m. and 5:00 p.m.** Friday, May 2nd also will be reserved as either a rain date and/or a final clean-up date for the annual street sweeping program. On Wednesday, the Street Sweeping Program will be scheduled for Zone 1 which includes Main Street from the Denver Memorial Park to North 3rd Street and all streets north of Main Street and west of North 3rd Street.

On Thursday, the Street Sweeping Program will be scheduled for Zone 2 which includes Main Street from North 3rd Street to Snyder Street, the balance of streets north of Main Street from North 3rd Street to the Snyder Street, the Bon View Estates Development (Beech Street, Birch Street, and Catalpa Circle), and all streets south of Main Street.

The Public Works Department will post No-Parking signs on the Borough streets prior to the street sweeping program.

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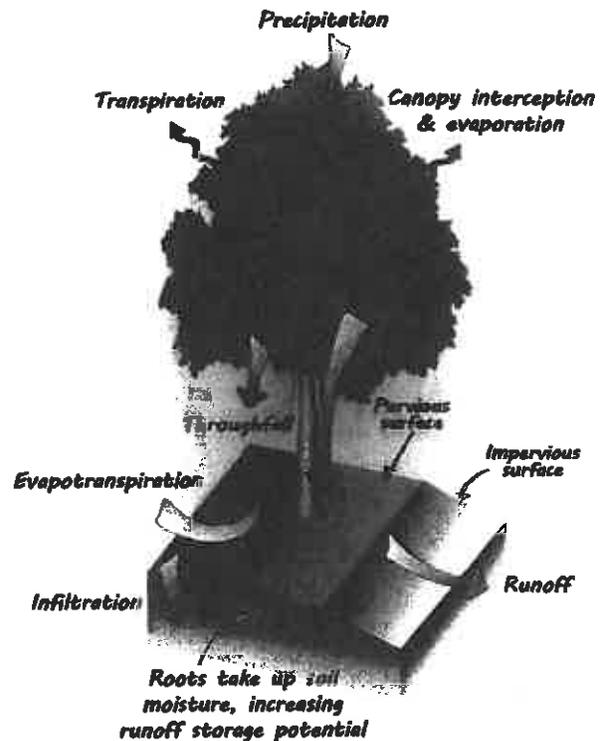
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CR002 - 900 copies
Postal Patron
Denver, PA 17517

Section 2. The Role Of Trees In Stormwater Management

In nature, trees play critical roles in controlling stormwater runoff and protecting surface waters from sediment and nutrient loading. In cities, trees can play an important role in stormwater management by reducing the amount of runoff that enters stormwater and combined sewer systems. Trees, acting as mini-reservoirs, control stormwater at the source.

A healthy urban forest can reduce runoff in the following ways:

- ❖ **Transpiration**—Trees draw large quantities of water from the soil for use in photosynthesis. The water is eventually released into the atmosphere as vapor from the canopy, a process termed transpiration.
- ❖ **Interception**—Leaves, branches, and trunk surfaces intercept and absorb rainfall, reducing the amount of water that reaches the ground, delaying the onset and reducing the volume of peak flows.
- ❖ **Reduced Throughfall**—Tree canopies reduce soil erosion by diminishing the volume and velocity of rainfall as it falls through the canopy, lessening the impact of raindrops on barren surfaces.
- ❖ **Increased Infiltration**—Root growth and decomposition increase soil infiltration capacity and rate.
- ❖ **Phytoremediation**—Along with water, trees take up trace amounts of harmful chemicals, including metals, organic compounds, fuels, and solvents from the soil. Inside the tree, these chemicals may be transformed into less harmful substances, used as nutrients and/or stored in roots, stems, and leaves.



TREES CAN BE MORE THAN JUST LANDSCAPING

While trees have long been recognized for their ability to help clean the air, reduce energy needs, raise property values, and mitigate heat island effects, their innate ability to absorb and divert rainfall has been underutilized. Trees have proven value in reducing runoff and mitigating the costs of stormwater management. In fact, research by the United States Department of Agriculture (USDA) Forest Service has shown the environmental and economical values trees contribute to the community.

The USDA Forest Service software suite, i-Tree, provides urban forestry analyses and benefit assessment tools. Specific to stormwater management are the i-Tree applications Streets and Hydro. i-Tree Streets was developed to estimate the environmental and economical impacts street trees have on a community. i-Tree Hydro was designed to simulate the effects of tree and impervious cover changes on stream flow and water quality within a defined watershed.

In 2010, the State of Indiana Department of Natural Resources conducted a statewide street tree benefit study using i-Tree Streets. The study showed that Indiana's street trees returned a multitude of environmental services and economic benefits annually to the community, including services that conserved energy (\$9.7 million), managed stormwater (\$24.1 million), improved air quality (\$2.8 million), and sequestered carbon dioxide (\$1.1 million). Less tangible but equally significant, the aesthetic and social benefits and increased property values gained because of the presence of street trees were estimated at \$41 million dollars per year to Indiana communities.

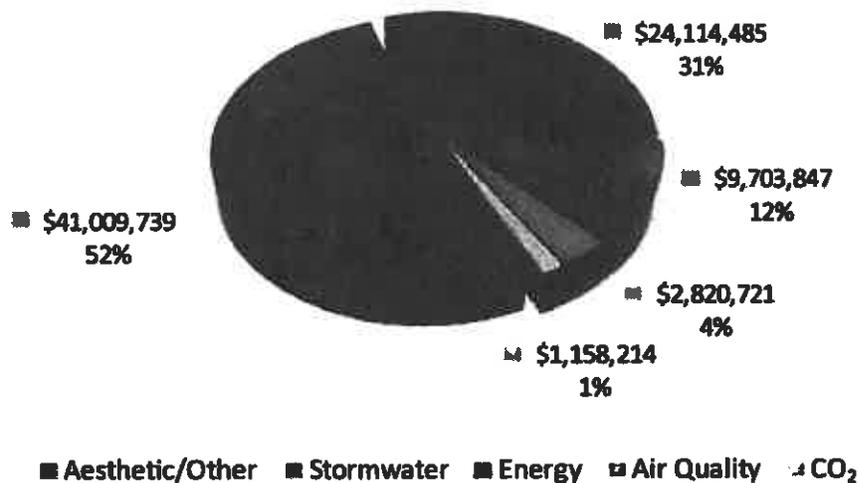


Figure 1. Environmental and economic benefits extrapolated for 567 Indiana communities using i-Tree Streets. [http://www.itreetools.org/resources/reports/Indiana Statewide Street Tree Analysis.pdf](http://www.itreetools.org/resources/reports/Indiana_Statewide_Street_Tree_Analysis.pdf) viewed 11 May, 2011.

For the 23 communities involved in this statewide project, street trees provided approximately \$30 million of functional benefits each year. Applied to all 567 Indiana communities, the annual benefits afforded by street trees were nearly \$79 million (Figure 1). Reductions in stormwater management costs accounted for 64% of the environmental services (stormwater, energy, air quality, and CO₂) provided by street trees.

i-Tree Streets studies performed in communities of all sizes in every ecoregion show a similar saving trend in stormwater management costs because of the presence of street trees. Using trees to help manage stormwater, rather than as just landscaping, significantly reduces stormwater management costs, as well as provides other valuable environmental services such as improvements in air quality and reductions in carbon dioxide.

DESIGN SITES FOR SUCCESS

To effectively use trees to manage stormwater runoff, the site must be designed properly. Site design is critical to the success of any project, even when the project seems as simple as planting a tree. Urban trees require space, proper soil, drainage, and irrigation. Soil properties and soil volume are keys to growing trees in urban landscapes and using them successfully as a means to managing runoff.

A soil's porosity (amount of available pore space), permeability (how interconnected pore spaces are), and infiltration rate (how quickly the water moves through the soil) are critical to the success of a street tree and its ability to absorb stormwater. These soil properties affect the amount of air, moisture, and nutrients that are available in the root zone and how much runoff is absorbed into the ground instead of flowing over the ground.

Impervious surfaces and compacted soils in urban areas create challenges for both stormwater managers and urban foresters by preventing the infiltration of runoff into the ground. One way to address these problems, providing a solution for both, is to design tree planting areas to increase infiltration and limit compaction, and engineer them to receive and process street and rooftop runoff.

Designing the tree planting to accommodate the largest size tree possible will increase its stormwater utility function. Big trees with their large, dense canopies manage the most stormwater, and should be considered where the location is appropriate

GROW BIGGER TREES TO REDUCE MORE RUNOFF!

Engineering a tree planting area which enables trees to grow to their full size, and where space allows to grow big trees, takes planning. Big trees require large volumes of soil and aboveground and belowground space to grow. Much research has been done to determine the relationship between soil volume and mature tree size. And although no universal standard for soil volume requirements for expected mature tree exists in arboriculture, it is generally accepted that a large-sized tree (16 inches diameter at breast height) needs at least 1,000 cubic feet of uncompacted soil (Figure 2).

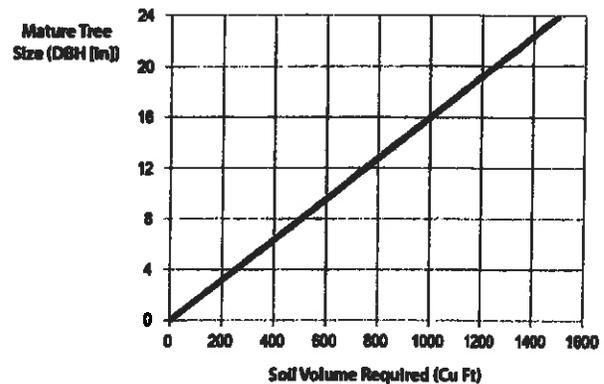


Figure 2. James Urban (1992) synthesized data from Bassuk and Lindsey (1991) and others to determine a relationship between soil volume requirements and mature tree size. The larger the tree, the more soil volume it needs.

A tree's ability to establish, grow to its full potential, and remain healthy is largely dependent upon soil volume. If too little soil is available, the tree will not reach full stature, regardless of what species of tree is planted. Trees without adequate soil volume tend to be short-lived and don't function as useful components of a city's infrastructure. Poorly designed sites—those lacking adequate soil and space—generally require continual, costly plant health care and often continual replantment of trees. Designing a site for success—providing both soil and space—will grow the biggest tree the site can accommodate and, thus, divert and absorb the most stormwater (Figure 3).

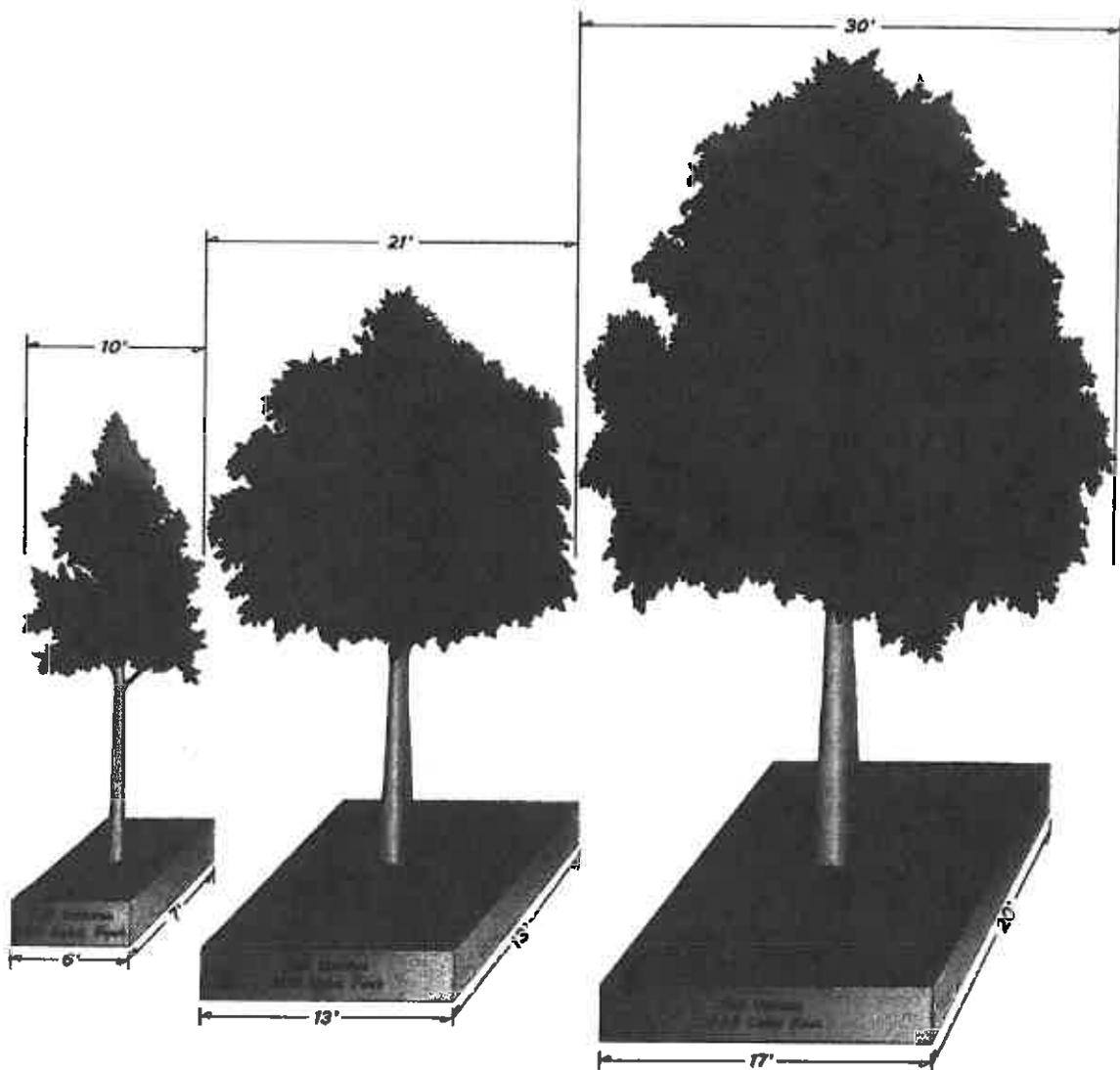


Figure 3. Tree growth is limited by soil volume. To grow big trees, large amounts of uncompacted soil are needed. For a mature tree with a canopy spread of approximately 30 feet, 1,000 cubic feet of soil is needed. Illustration from Casey Trees, 2008.

Illicit Discharge Inspection Quarterly Summary Report

Municipality: DENVER BOROUGH

Contact Name: ROBERT L. RISSLER

Reporting Period: January – March

April – June

July – September

October – December

Year: 2013

1. Describe field surveys.	Industrial Areas	Commercial Areas	Residential Areas	Other (describe)
Number of screening points	3	3	10	
Channel Miles				

2. List how many discharges were identified by the following methods. Include only discharges that could have been prevented by BMPs. Do not include fluid releases associated with minor traffic accidents.

a. During field surveys at defined screening points: _____ identified by maintenance crews _____ identified by illicit discharge inspectors	b. Calls from: _____ maintenance crews _____ other agencies _____ public
---	---

3. List the number of times the following materials were identified.

_____ Paint _____ Concrete _____ Construction Debris _____ Medical Wastes _____ Food Wastes _____ Industrial Wastes (solvents, metals, corrosives, cooling tower blowdown, etc.) _____ Other (describe): _____	_____ Concrete Cutting Slurry/Washwaters _____ Vehicle Cleaning Washwaters _____ Building/Sidewalk Washwaters _____ Other Washwaters _____ Sewage _____ Automotive Fluids (antifreeze, used motor oil, fuels, etc.)
--	--

Enforcement Activities

1. Describe whether sources of discharges were identified.

_____ Number of sources that were identified

_____ Number of incidents when source of discharge was not identified

2. Describe whether discharges were abated.

_____ Number of discharge incidents that were abated.

_____ Number of new discharge incidents where discharge is continuing, as of the end of the reporting period. (ATTACH INSPECTION REPORT)

_____ Number of continuing discharges that have already been reported in previous quarter(s).

3. Describe enforcement activities conducted.

_____ Verbal Notice	_____ Warning Notice
_____ Administrative Action	_____ Administrative Action w/ Penalty and/or Fine
_____ Legal Notice	

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-04 Date: 5-1-13 Time: 10:20

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: Red

SITE DESCRIPTION:
LOCATION (Narrative Description): w. N. 3rd

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): 0
c. APPROXIMATE FLOW VELOCITY (feet per second): 0
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)
ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____
COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____
CLARITY: CLEAR CLOUDY OPAQUE
FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____
DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____
VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH
STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____
BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) [Signature] DATE: 5-1-13

This form was modified from *Municipal Urban Runoff Program: A How-To Guide For Developing Urban Runoff Programs for Small Municipalities*, by the City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, and Central Coast Regional Water Quality Control Board, 1998.

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-09 Date: 5-1-13 Time: 10:00

TIME SINCE LAST RAIN: Σ72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: Rob

SITE DESCRIPTION:
LOCATION (Narrative Description): Hope Hosiery

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 5-1-13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-02 Date: 5-1-13 Time: 10:15

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: Kob

SITE DESCRIPTION:
LOCATION (Narrative Description): end of n. rd

STRUCTURE TYPE: OPEN CHANNEL MANHOLE **OUTFALL** OTHER: _____

DOMINANT WATERSHED LAND USES: **INDUSTRIAL** COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? **NO** YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? **NO** YES (Roll and Photo Number: _____)

ODOR: **NONE** MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: **CLEAR** RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: **CLEAR** CLOUDY OPAQUE

FLOATABLES: **NONE** OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: **NONE** SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: **NONE** NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: **NORMAL** CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? **NO** YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 5-1-13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-08 Date: 5-1-13 Time: 10105

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: Rob

SITE DESCRIPTION:
LOCATION (Narrative Description): Laundry (R.P.)
STRUCTURE TYPE: OPEN CHANNEL MANHOLE **OUTFALL** OTHER: _____
DOMINANT WATERSHED LAND USES: INDUSTRIAL **COMMERCIAL** RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? **NO** YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____ 0
b. APPROXIMATE DEPTH OF WATER (feet): _____ 0
c. APPROXIMATE FLOW VELOCITY (feet per second): _____ 0
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? **NO** YES (Roll and Photo Number: _____)
ODOR: **NONE** MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____
COLOR: **CLEAR** RED YELLOW BROWN GREEN GREY OTHER: _____
CLARITY: **CLEAR** CLOUDY OPAQUE
FLOATABLES: **NONE** OILY SHEEN GARBAGE/SEWAGE OTHER: _____
DEPOSITS/STAINS: NONE **SEDIMENTS** OILY OTHER: _____
VEGETATION CONDITION: NONE **NORMAL** EXCESSIVE GROWTH INHIBITED GROWTH
STRUCTURAL CONDITION: **NORMAL** CONCRETE CRACKING METAL CORROSION OTHER: _____
BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? **NO** YES
(If yes attach copy of chain-of-custody record)

COMMENTS: P

DATA SHEET FILLED OUT BY: (signature) [Signature] DATE: 5-1-13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-07 Date: 5-1-13 Time: 10:10

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: Rob

SITE DESCRIPTION:

LOCATION (Narrative Description): Fulton Bank Back Lot

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): 0
b. APPROXIMATE DEPTH OF WATER (feet): 0
c. APPROXIMATE FLOW VELOCITY (feet per second): 0
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 5-1-13

This form was modified from *Municipal Urban Runoff Program: A How-To Guide For Developing Urban Runoff Programs for Small Municipalities*, by the City of Monterey; City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, and Central Coast Regional Water Quality Control Board, 1998.

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-06 Date: 5-1-13 Time: 10:12

TIME SINCE LAST RAIN: ≥72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: Rob

SITE DESCRIPTION:

LOCATION (Narrative Description): Walrus St. Bridge

STRUCTURE TYPE: OPEN CHANNEL MANHOLE **OUTFALL** OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL **COMMERCIAL** RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): 8
b. APPROXIMATE DEPTH OF WATER (feet): 2
c. APPROXIMATE FLOW VELOCITY (feet per second): 2
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: **NONE** MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: **CLEAR** RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: **CLEAR** CLOUDY OPAQUE

FLOATABLES: **NONE** OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: **NONE** SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE **NORMAL** EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: **NORMAL** CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 5-1-13

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-10 Date: 5-1-13 Time: 9:25

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: Rob

SITE DESCRIPTION:

LOCATION (Narrative Description): red wheel

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): .04
b. APPROXIMATE DEPTH OF WATER (feet): .08
c. APPROXIMATE FLOW VELOCITY (feet per second): .04
d. FLOW RATE (cubic feet per second) = a x b x c = .00128

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): Robert J. Pusila DATE: 5-1-13

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-10A Date: 5-1-13 Time: 9:27

TIME SINCE LAST RAIN: ≥72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: _____

SITE DESCRIPTION:

LOCATION (Narrative Description): Red water

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): .04
b. APPROXIMATE DEPTH OF WATER (feet): .08
c. APPROXIMATE FLOW VELOCITY (feet per second): .04
d. FLOW RATE (cubic feet per second) = a x b x c = .000128

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) Robert A. Smith DATE: 5-1-13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-15 Date: 5-1-13 Time: 8:56

TIME SINCE LAST RAIN: ≥72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: Rob

SITE DESCRIPTION:

LOCATION (Narrative Description): wooden bridge in park

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): 0.16
b. APPROXIMATE DEPTH OF WATER (feet): 0.04
c. APPROXIMATE FLOW VELOCITY (feet per second): .04
d. FLOW RATE (cubic feet per second) = a x b x c = .000256

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) Robert A. Bunker DATE: 5-1-13

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-12 Date: 5-1-13 Time: 9:00

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: >0.1 inches <0.1 inches
INSPECTION TEAM: Rob

SITE DESCRIPTION:
LOCATION (Narrative Description): CREEK IN PARK

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): .16
b. APPROXIMATE DEPTH OF WATER (feet): .16
c. APPROXIMATE FLOW VELOCITY (feet per second): .04
d. FLOW RATE (cubic feet per second) = a x b x c = .001024

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) [Signature] DATE: 5-1-13

This form was modified from *Municipal Urban Runoff Program: A How-To Guide For Developing Urban Runoff Programs for Small Municipalities*, by the City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, and Central Coast Regional Water Quality Control Board, 1998.

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: A-13 Date: 5-1-13 Time: 9:05

TIME SINCE LAST RAIN: ≥72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: Rob

SITE DESCRIPTION:
LOCATION (Narrative Description): creek in park

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____ 0
b. APPROXIMATE DEPTH OF WATER (feet): _____ 0
c. APPROXIMATE FLOW VELOCITY (feet per second): _____ 0
d. FLOW RATE (cubic feet per second) = a x b x c = _____ 0

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) Robert J. Baseler DATE: 5-1-13

This form was modified from *Municipal Urban Runoff Program: A How-To Guide For Developing Urban Runoff Programs for Small Municipalities*, by the City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, and Central Coast Regional Water Quality Control Board, 1998.

**ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form**

OUTFALL #: 0-14 Date: 5-1-13 Time: 9:09

TIME SINCE LAST RAIN: >72 hours <72 hours
 QUANTITY OF LAST RAIN: >0.1 inches <0.1 inches
 INSPECTION TEAM: Rob

SITE DESCRIPTION:
 LOCATION (Narrative Description): creek in park

STRUCTURE TYPE: OPEN CHANNEL MANHOLE **OUTFALL** OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL **RESIDENTIAL** UNKNOWN
 OTHER: _____

FLOW ESTIMATION:
 WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
 a. WIDTH OF WATER SURFACE (feet): 0
 b. APPROXIMATE DEPTH OF WATER (feet): 0
 c. APPROXIMATE FLOW VELOCITY (feet per second): 0
 d. FLOW RATE (cubic feet per second) = a x b x c = 0

VISUAL OBSERVATIONS:
 WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: **NONE** MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: **CLEAR** RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: **CLEAR** CLOUDY OPAQUE

FLOATABLES: **NONE** OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: **NONE** SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE **NORMAL** EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: **NORMAL** CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
 WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
 pH: _____ COPPER: _____ mg/l
 PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
 (if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): Robert S. Baskin DATE: 5-1-13

This form was modified from *Municipal Urban Runoff Program: A How-To Guide For Developing Urban Runoff Programs for Small Municipalities*, by the City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, and Central Coast Regional Water Quality Control Board, 1998.

ILLCIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 8-11 Date: 5-1-13 Time: 9:10

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: Rob

SITE DESCRIPTION:
LOCATION (Narrative Description): creek in park

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): 0
b. APPROXIMATE DEPTH OF WATER (feet): 0
c. APPROXIMATE FLOW VELOCITY (feet per second): 0
d. FLOW RATE (cubic feet per second) = a x b x c = 0

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) [Signature] DATE: 5-1-13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: Q-03 Date: 5-1-13 Time: 10:18

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: Rob

SITE DESCRIPTION:
LOCATION (Narrative Description): E. N 3rd

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 5-1-13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-01 Date: 5-1-13 Time: 10:25

TIME SINCE LAST RAIN: ≥72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: Rob

SITE DESCRIPTION:
LOCATION (Narrative Description): Pool
STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____
DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)
ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____
COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____
CLARITY: CLEAR CLOUDY OPAQUE
FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____
DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____
VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH
STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____
BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) [Signature] DATE: 5-1-13

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ILLCIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-05 Date: 5-1 Time: 10:30

TIME SINCE LAST RAIN: ≥72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: eds

SITE DESCRIPTION:
LOCATION (Narrative Description): creek off Locust st.

STRUCTURE TYPE: OPEN CHANNEL MANHOLE **OUTFALL** OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL **RESIDENTIAL** UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: **NONE** MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: **CLEAR** RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: **CLEAR** CLOUDY OPAQUE

FLOATABLES: **NONE** OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: **NONE** SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE **NORMAL** EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: **NORMAL** CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) [Signature] DATE: 5-1-13

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Illicit Discharge Inspection Quarterly Summary Report

Municipality: Denton Borough

Contact Name: Zach Knoll

Reporting Period: January – March April – June July – September October – December

Year: 2017

1. Describe field surveys.										
	Industrial Areas	Commercial Areas	Residential Areas	Other (describe)						
Number of screening points	3	3	10							
Channel Miles										
<p>2. List how many discharges were identified by the following methods. Include only discharges that could have been prevented by BMPs. Do not include fluid releases associated with minor traffic accidents.</p> <p>a. During field surveys at defined screening points:</p> <p style="margin-left: 20px;">_____ identified by maintenance crews.</p> <p style="margin-left: 20px;">_____ identified by illicit discharge inspectors</p> <p>b. Calls from:</p> <p style="margin-left: 20px;">_____ maintenance crews.</p> <p style="margin-left: 20px;">_____ other agencies</p> <p style="margin-left: 20px;">_____ public</p>										
<p>3. List the number of times the following materials were identified.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>_____ Paint</p> <p>_____ Concrete</p> <p>_____ Construction Debris</p> <p>_____ Medical Wastes</p> <p>_____ Food Wastes</p> <p>_____ Industrial Wastes (solvents, metals, corrosives, cooling tower blowdown, etc.)</p> <p>_____ Other (describe): _____</p> </td> <td style="width: 50%; vertical-align: top;"> <p>_____ Concrete Cutting Slurry/Washwaters</p> <p>_____ Vehicle Cleaning Washwaters</p> <p>_____ Building/Sidewalk Washwaters</p> <p>_____ Other Washwaters</p> <p>_____ Sewage</p> <p>_____ Automotive Fluids (antifreeze, used motor oil, fuels, etc.)</p> </td> </tr> </table>					<p>_____ Paint</p> <p>_____ Concrete</p> <p>_____ Construction Debris</p> <p>_____ Medical Wastes</p> <p>_____ Food Wastes</p> <p>_____ Industrial Wastes (solvents, metals, corrosives, cooling tower blowdown, etc.)</p> <p>_____ Other (describe): _____</p>	<p>_____ Concrete Cutting Slurry/Washwaters</p> <p>_____ Vehicle Cleaning Washwaters</p> <p>_____ Building/Sidewalk Washwaters</p> <p>_____ Other Washwaters</p> <p>_____ Sewage</p> <p>_____ Automotive Fluids (antifreeze, used motor oil, fuels, etc.)</p>				
<p>_____ Paint</p> <p>_____ Concrete</p> <p>_____ Construction Debris</p> <p>_____ Medical Wastes</p> <p>_____ Food Wastes</p> <p>_____ Industrial Wastes (solvents, metals, corrosives, cooling tower blowdown, etc.)</p> <p>_____ Other (describe): _____</p>	<p>_____ Concrete Cutting Slurry/Washwaters</p> <p>_____ Vehicle Cleaning Washwaters</p> <p>_____ Building/Sidewalk Washwaters</p> <p>_____ Other Washwaters</p> <p>_____ Sewage</p> <p>_____ Automotive Fluids (antifreeze, used motor oil, fuels, etc.)</p>									
Follow-up Activities										
<p>1. Describe whether sources of discharges were identified.</p> <p>_____ Number of sources that were identified</p> <p>_____ Number of incidents when source of discharge was not identified</p>										
<p>2. Describe whether discharges were abated.</p> <p>_____ Number of discharge incidents that were abated.</p> <p>_____ Number of new discharge incidents where discharge is continuing, as of the end of the reporting period. (ATTACH INSPECTION REPORT)</p> <p>_____ Number of continuing discharges that have already been reported in previous quarter(s).</p>										
<p>3. Describe enforcement activities conducted.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">_____ Verbal Notice</td> <td style="width: 50%;">_____ Warning Notice</td> </tr> <tr> <td>_____ Administrative Action</td> <td>_____ Administrative Action w/ Penalty and/or Fine</td> </tr> <tr> <td>_____ Legal Notice</td> <td></td> </tr> </table>					_____ Verbal Notice	_____ Warning Notice	_____ Administrative Action	_____ Administrative Action w/ Penalty and/or Fine	_____ Legal Notice	
_____ Verbal Notice	_____ Warning Notice									
_____ Administrative Action	_____ Administrative Action w/ Penalty and/or Fine									
_____ Legal Notice										

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-09 Date: 12/3/13 Time: 3:20pm

TIME SINCE LAST RAIN: <72 hours
QUANTITY OF LAST RAIN: <0.1 inches
INSPECTION TEAM: _____

SITE DESCRIPTION:

LOCATION (Narrative Description): BEHIND HOPE MOSIERY

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) [Signature] DATE: 12/3/13

This form was modified from *Municipal Urban Runoff Program: A How-To Guide For Developing Urban Runoff Programs for Small Municipalities*, by the City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, and Central Coast Regional Water Quality Control Board, 1998.

ILLICIT DISCHARGE FIELD SCREENING PROGRAM

Data Collection Form

OUTFALL #: 0-02

Date: 12/3/13

Time: 3:45 pm

TIME SINCE LAST RAIN: 72 hours < 72 hours
QUANTITY OF LAST RAIN: >= 0.1 inches < 0.1 inches
INSPECTION TEAM:

SITE DESCRIPTION:

LOCATION (Narrative Description): N. 2ND ST

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER:

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN OTHER:

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet):
b. APPROXIMATE DEPTH OF WATER (feet):
c. APPROXIMATE FLOW VELOCITY (feet per second):
d. FLOW RATE (cubic feet per second) = a x b x c =

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number:)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER:

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER:

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER:

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER:

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER:

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER:

FIELD ANALYSIS:

WATER TEMP: °F / °C CHLORINE (Total): mg/l
pH: COPPER: mg/l
PHENOL: mg/l DETERGENTS: mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS:

DATA SHEET FILLED OUT BY: (signature): July 2013 DATE: 12/3/13

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-04 Date: 12/4/13 Time: _____

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: _____

SITE DESCRIPTION:
LOCATION (Narrative Description): N. 3rd

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): Zohary K. B. DATE: 12/4/13

This form was modified from *Municipal Urban Runoff Program: A How-To Guide For Developing Urban Runoff Programs for Small Municipalities*, by the City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, and Central Coast Regional Water Quality Control Board, 1998.

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-08 Date: 12/3/13 Time: 3:30 PM

TIME SINCE LAST RAIN: <72 hours
QUANTITY OF LAST RAIN: <0.1 inches
INSPECTION TEAM: _____

SITE DESCRIPTION:
LOCATION (Narrative Description): AT LAUNDRY MAT

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 12/3/13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-07 Date: 12/3/13 Time: 3:35 pm

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: _____

SITE DESCRIPTION:

LOCATION (Narrative Description): BEHIND BANK

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 12/3/13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-06 Date: 12/3/13 Time: 3:40PM

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: _____

SITE DESCRIPTION:

LOCATION (Narrative Description): UNDER WALNUT STREET BRIDGE

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 12/3/13

This form was modified from *Municipal Urban Runoff Program: A How-To Guide For Developing Urban Runoff Programs for Small Municipalities*, by the City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, and Central Coast Regional Water Quality Control Board, 1998.

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-15 Date: 12/3/13 Time: 2:42 PM

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:
LOCATION (Narrative Description): BY MAINS BRIDGE

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) Zack Knoll DATE: 12/3/13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-12 Date: 12/3/13 Time: 2:45pm

TIME SINCE LAST RAIN: 72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: _____

SITE DESCRIPTION:
LOCATION (Narrative Description): ALONG TRAIL

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: 8" PIPE

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): 4'
b. APPROXIMATE DEPTH OF WATER (feet): 1'
c. APPROXIMATE FLOW VELOCITY (feet per second): 1/3 FPS
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 12/3/13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-13 Date: 12/3/13 Time: 2:50pm

TIME SINCE LAST RAIN: <72 hours
QUANTITY OF LAST RAIN: <0.1 inches
INSPECTION TEAM: _____

SITE DESCRIPTION:
LOCATION (Narrative Description): BY SKATE PARK

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): 2"
b. APPROXIMATE DEPTH OF WATER (feet): 1"
c. APPROXIMATE FLOW VELOCITY (feet per second): 1/2 FPS
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: _____

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-14 Date: 12/3/13 Time: 3:00 AM

TIME SINCE LAST RAIN: <72 hours ~~≥72 hours~~
QUANTITY OF LAST RAIN: <0.1 inches ~~≥0.1 inches~~
INSPECTION TEAM: _____

SITE DESCRIPTION:

LOCATION (Narrative Description): BY SILATE PARK

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): TRACE
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) Zohy Kh DATE: 12/3/13

ILLICIT DISCHARGE FIELD SCREENING PROGRAM

Data Collection Form

OUTFALL #: 0-11

Date: 12/3/13

Time: 3:05pm

TIME SINCE LAST RAIN: >72 hours

<72 hours

QUANTITY OF LAST RAIN: >0.1 inches

<0.1 inches

INSPECTION TEAM:

SITE DESCRIPTION:

LOCATION (Narrative Description): RY BRIDGE IN THE PARK TRAIL

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER:

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN OTHER:

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.

- a. WIDTH OF WATER SURFACE (feet): 18"
b. APPROXIMATE DEPTH OF WATER (feet): 3"
c. APPROXIMATE FLOW VELOCITY (feet per second): 1/2 FPS
d. FLOW RATE (cubic feet per second) = a x b x c =

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number:)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER:

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER:

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER:

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER:

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER:

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER:

FIELD ANALYSIS:

WATER TEMP: °F / °C CHLORINE (Total): mg/l
pH: COPPER: mg/l
PHENOL: mg/l DETERGENTS: mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES (if yes attach copy of chain-of-custody record)

COMMENTS:

DATA SHEET FILLED OUT BY: (signature) DATE: 12/3/13

This form was modified from Municipal Urban Runoff Program: A How-To Guide For Developing Urban Runoff Programs for Small Municipalities, by the City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, and Central Coast Regional Water Quality Control Board, 1998.

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-10 Date: 12/3/13 Time: 3:10pm

TIME SINCE LAST RAIN: ≥72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: _____

SITE DESCRIPTION:
LOCATION (Narrative Description): AT RED WHEEL

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): TRACE
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 12/3/13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: D-10A Date: 12/3/13 Time: 3:10 PM

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: _____

SITE DESCRIPTION:
LOCATION (Narrative Description): AT RIO WATER

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): TRACE
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)
ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____
COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____
CLARITY: CLEAR CLOUDY OPAQUE
FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____
DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____
VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH
STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____
BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) [Signature] DATE: 12/3/13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-01 Date: 12/4/13 Time: 7:42 am

TIME SINCE LAST RAIN: ≥72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: _____

SITE DESCRIPTION:

LOCATION (Narrative Description): ALONG TURNPIKE @ POOL

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): Zachary [Signature] DATE: 12/4/13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-03 Date: 12/4/13 Time: 7:50

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: _____

SITE DESCRIPTION:

LOCATION (Narrative Description): _____

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(If yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) [Signature] DATE: 12/4/13

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-05 Date: 12/4/13 Time: 7:55 AM

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: _____

SITE DESCRIPTION:

LOCATION (Narrative Description): _____

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): 5'
b. APPROXIMATE DEPTH OF WATER (feet): 1/2'
c. APPROXIMATE FLOW VELOCITY (feet per second): 1/2 FPS
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature) [Signature] DATE: 12/4/13

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Illicit Discharge Inspection Quarterly Summary Report

Municipality: DENVER BOROUGH

Contact Name: ZACK KNOLL

Reporting Period: January - March April - June July - September October - December

Year: 2014

1. Describe field surveys.	Industrial Areas	Commercial Areas	Residential Areas	Other (describe)
Number of screening points	3	3	10	
Channel Miles				

2. List how many discharges were identified by the following methods. Include only discharges that could have been prevented by BMPs. Do not include fluid releases associated with minor traffic accidents.

a. During field surveys at defined screening points: _____ identified by maintenance crews _____ identified by illicit discharge inspectors	b. Calls from: _____ maintenance crews _____ other agencies _____ public
---	---

3. List the number of times the following materials were identified.

_____ Paint _____ Concrete _____ Construction Debris _____ Medical Wastes _____ Food Wastes _____ Industrial Wastes (solvents, metals, corrosives, cooling tower blowdown, etc.) _____ Other (describe): _____	_____ Concrete Cutting Slurry/Washwaters _____ Vehicle Cleaning Washwaters _____ Building/Sidewalk Washwaters _____ Other Washwaters _____ Sewage _____ Automotive Fluids (antifreeze, used motor oil, fuels, etc.)
--	--

1. Describe whether sources of discharges were identified.

_____ Number of sources that were identified

_____ Number of incidents when source of discharge was not identified

2. Describe whether discharges were abated.

_____ Number of discharge incidents that were abated.

_____ Number of new discharge incidents where discharge is continuing, as of the end of the reporting period. (ATTACH INSPECTION REPORT)

_____ Number of continuing discharges that have already been reported in previous quarter(s).

3. Describe enforcement activities conducted.

_____ Verbal Notice _____ Administrative Action _____ Legal Notice	_____ Warning Notice _____ Administrative Action w/ Penalty and/or Fine
--	--

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-05 Date: 3/6/14 Time: 12:35 PM

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:

LOCATION (Narrative Description): LOLUST STREET @ CREEK

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: OUT FALL IS ICED OVER.

DATA SHEET FILLED OUT BY: (signature) Zack Knoll DATE: 3/6/14

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-02 Date: 3/6/14 Time: 12:15 PM

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: >0.1 inches <0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:

LOCATION (Narrative Description): DEAD END - N. 2ND ST

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: OUTFALL BURIED UNDER SNOW PILE

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 3/6/14

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-09 Date: 3/6/14 Time: 10:55 AM

TIME SINCE LAST RAIN: 272 hours <72 hours
QUANTITY OF LAST RAIN: 20.1 inches <0.1 inches
INSPECTION TEAM: ZACK KENOLD

SITE DESCRIPTION:
LOCATION (Narrative Description): NEXT TO HOPE HOS 1324

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: TWO OUTFALLS: LARGE ONE IS DPH & SMALL ONE IS ICE DOOR

DATA SHEET FILLED OUT BY: (signature): Zack Kenold DATE: 3/6/14

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-06 Date: 3/6/14 Time: 11:10am

TIME SINCE LAST RAIN: 272 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:

LOCATION (Narrative Description): UNDER WALNUT STREET BRIDGE

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: NO FLOW

DATA SHEET FILLED OUT BY: (signature): Zack Knoll DATE: 3/6/14

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-07 Date: 3/6/14 Time: 10:15 AM

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:

LOCATION (Narrative Description): @ FULTON BANK PARKING LOT

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: OUTFALL IS BURIED UNDER A PILE OF SNOW

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 3/6/14

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-08 Date: 3/6/14 Time: 11:05am

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: ZACK ENO

SITE DESCRIPTION:

LOCATION (Narrative Description): @ LAUNDRY MAT

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: OUTFALL IS ICED OVER

DATA SHEET FILLED OUT BY: (signature): Zack Eno DATE: 3/6/14

This form was modified from *Municipal Urban Runoff Program: A How-To Guide For Developing Urban Runoff Programs for Small Municipalities*, by the City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, and Central Coast Regional Water Quality Control Board, 1998.

ILLCIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-15 Date: 3/6/14 Time: 10:15am

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: >0.1 inches <0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:

LOCATION (Narrative Description): @ WOODEN BRIDGE

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): 2"
b. APPROXIMATE DEPTH OF WATER (feet): .5"
c. APPROXIMATE FLOW VELOCITY (feet per second): 1 FPS
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 3/6/14

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-12 Date: 3/6/14 Time: 10:05am

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:

LOCATION (Narrative Description): ALONG CREEK @ PARK

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.

a. WIDTH OF WATER SURFACE (feet): 5'
b. APPROXIMATE DEPTH OF WATER (feet): 2"
c. APPROXIMATE FLOW VELOCITY (feet per second): 1 FPS
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): Zack Knoll DATE: 3/6/14

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-13 Date: 3/6/14 Time: 9:55 am

TIME SINCE LAST RAIN: 272 hours <72 hours
QUANTITY OF LAST RAIN: >0.1 inches <0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:
LOCATION (Narrative Description): OUTFALL BETWEEN RINK & SKATE PARK

STRUCTURE TYPE: OPEN CHANNEL MANHOLE **OUTFALL** OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL **RESIDENTIAL** UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)
ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____
COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____
CLARITY: CLEAR CLOUDY OPAQUE
FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____
DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____
VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH
STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____
BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: OUTFALL COVERED IN ICE & SNOW

DATA SHEET FILLED OUT BY: (signature) Zack Knoll DATE: 3/6/14

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-14 Date: 3/6/14 Time: 9:50 AM

TIME SINCE LAST RAIN: 272 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:
LOCATION (Narrative Description): OUTFALL BESIDE SKATE RINK

STRUCTURE TYPE: OPEN CHANNEL MANHOLE **OUTFALL** OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL **RESIDENTIAL** UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)
ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____
COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____
CLARITY: CLEAR CLOUDY OPAQUE
FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____
DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____
VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH
STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____
BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: OUTFALL COVERED WITH SNOW & ICE

DATA SHEET FILLED OUT BY: (signature) Zack Knoll DATE: 3/6/14

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-11 Date: 3/6/14 Time: 9:45AM

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:

LOCATION (Narrative Description): BETWEEN MAIN ST BRIDGE & SKATE PLAZA

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): 2"
b. APPROXIMATE DEPTH OF WATER (feet): .5"
c. APPROXIMATE FLOW VELOCITY (feet per second): .5 FPS
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 3/6/14

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ILLCIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-10 Date: 3/6/14 Time: 10:40am

TIME SINCE LAST RAIN: 272 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: TACK KNOLL

SITE DESCRIPTION:
LOCATION (Narrative Description): RED WHEEL

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(If yes attach copy of chain-of-custody record)

COMMENTS: NO FLOW

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 3/6/14

ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-10A Date: 3/6/14 Time: 10:45am

TIME SINCE LAST RAIN: 272 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches 0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:
LOCATION (Narrative Description): RED WHEEL (NEW LINE)

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER:

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)
ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____
COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____
CLARITY: CLEAR CLOUDY OPAQUE
FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____
DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____
VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH
STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____
BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: OUTFALL IS ICED OVER. NO FLOW SEEN

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 3/6/14

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-03 Date: 3/6/14 Time: 12:15pm

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:

LOCATION (Narrative Description): N. 3RD ST

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:

WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:

WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:

WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: BURIED UNDER SNOW

DATA SHEET FILLED OUT BY: (signature): Zack Knoll DATE: 3/6/14

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM

Data Collection Form

OUTFALL #: 0-04 Date: 3/6/14 Time: 12:15 PM

TIME SINCE LAST RAIN: 212 hours < 72 hours
QUANTITY OF LAST RAIN: >= 0.1 inches < 0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:
LOCATION (Narrative Description): N. 3RD ST

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER:

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER:

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet):
b. APPROXIMATE DEPTH OF WATER (feet):
c. APPROXIMATE FLOW VELOCITY (feet per second):
d. FLOW RATE (cubic feet per second) = a x b x c =

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number:)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER:

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER:

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER:

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER:

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER:

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER:

FIELD ANALYSIS:
WATER TEMP: °F / °C CHLORINE (Total): mg/l
pH: COPPER: mg/l
PHENOL: mg/l DETERGENTS: mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: BURIED UNDER SNOW

DATA SHEET FILLED OUT BY: (signature) DATE: 3/6/14

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ILLICIT DISCHARGE FIELD SCREENING PROGRAM
Data Collection Form

OUTFALL #: 0-01 Date: 3/6/14 Time: 12:25 PM

TIME SINCE LAST RAIN: >72 hours <72 hours
QUANTITY OF LAST RAIN: ≥0.1 inches <0.1 inches
INSPECTION TEAM: ZACK KNOLL

SITE DESCRIPTION:
LOCATION (Narrative Description): POOL PROPERTY @ TURNPIKE

STRUCTURE TYPE: OPEN CHANNEL MANHOLE OUTFALL OTHER: _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

FLOW ESTIMATION:
WAS FLOW OBSERVED? NO YES IF YES, PLEASE ANSWER a. - d. BELOW.
a. WIDTH OF WATER SURFACE (feet): _____
b. APPROXIMATE DEPTH OF WATER (feet): _____
c. APPROXIMATE FLOW VELOCITY (feet per second): _____
d. FLOW RATE (cubic feet per second) = a x b x c = _____

VISUAL OBSERVATIONS:
WAS A PHOTO TAKEN? NO YES (Roll and Photo Number: _____)

ODOR: NONE MUSTY SEWAGE ROTTEN EGGS SOUR MILK OTHER: _____

COLOR: CLEAR RED YELLOW BROWN GREEN GREY OTHER: _____

CLARITY: CLEAR CLOUDY OPAQUE

FLOATABLES: NONE OILY SHEEN GARBAGE/SEWAGE OTHER: _____

DEPOSITS/STAINS: NONE SEDIMENTS OILY OTHER: _____

VEGETATION CONDITION: NONE NORMAL EXCESSIVE GROWTH INHIBITED GROWTH

STRUCTURAL CONDITION: NORMAL CONCRETE CRACKING METAL CORROSION OTHER: _____

BIOLOGICAL: MOSQUITO LARVAE BACTERIA/ALGAE OTHER: _____

FIELD ANALYSIS:
WATER TEMP: _____ °F / °C CHLORINE (Total): _____ mg/l
pH: _____ COPPER: _____ mg/l
PHENOL: _____ mg/l DETERGENTS: _____ mg/l

WAS A LABORATORY SAMPLE COLLECTED? NO YES
(if yes attach copy of chain-of-custody record)

COMMENTS: OUTFALL IS ICED OVER

DATA SHEET FILLED OUT BY: (signature): [Signature] DATE: 3/6/14

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