

CITY OF FAIRVIEW PARK  
FIRST PHASE OF  
2014 SEWER DIAGNOSTICS PROGRAM  
OVERVIEW  
May 27, 2014

The first phase of the 2014 Sewer Diagnostics Program is for dye testing and diagnostics on homes in Ward 5 that experienced stormwater problems on May 12-13, 2014 and also any other homes that experienced storm water problems on May 12-13, 2014. The dye testing and diagnostics will start with the homes that experienced water problems on May 12-13, 2014 (Approximately 50 homes reported flooding on May 12-15, 2014. The number of homes to be tested is subject to budget constraints.). We will also further investigate the feasibility of storm water detention at Nelson Russ Park as part of this first phase of work.

The following is a preliminary outline of the Phase 1 dye testing and diagnostics:

1. The first step of the testing/diagnostics will be the completion of a Flooding Questionnaire by the homeowner for each home with a flooding problem. These questionnaires will be reviewed by an engineer / designer from Mackay Engineering and Surveying Company and discussed with the homeowner to determine solutions to alleviate the flooding problem.
2. The second step will be the dye testing of downspouts and drains of the homes. The dye testing will be performed by an outside contractor hired by the City through the City's bidding process. The dye testing is intended to determine whether there is stormwater inflow and/or infiltration into the sanitary sewers. The number of homes to be dye tested will depend on the cost to perform the testing and the amount budgeted for this first phase of work. (The total amount budgeted is \$150,000 and this includes dye testing and engineering services.)
- 3 The last step of the dye testing and diagnostics will be to assist the residents and the City in determining why a particular home experienced water problems and what repairs/upgrades are necessary to protect the home against these issues. These fixes could be downspout disconnections, lateral repairs, drain modifications, sump pumps or other similar repairs. An engineer/designer from Mackay will assist with the review and evaluation of the testing results with the homeowner.

Additional phases of dye testing will continue until all homes that experienced storm water problems have been tested.

Future phases of dye testing will also be required for all the other homes in Ward 5. This testing is necessary to determine if these homes (without current storm water problems) are contributing inflow or infiltration into the sanitary sewers. This testing will be followed up with recommended repairs and fixes to the homeowners.

FAIRVIEW PARK  
BASEMENT FLOODING REPORT

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone/ E-mail: \_\_\_\_\_

Date of this Report: \_\_\_\_\_

Years resided at this property: \_\_\_\_\_ Number of flooding incidents: \_\_\_\_\_

Date of most recent flood: \_\_\_\_\_ Depth of flooding (inches): \_\_\_\_\_

Check all that apply below:

Describe Floodwater:  Clear  Muddy  With Odor  Other (please describe) \_\_\_\_\_

How did water enter home?  Floor Drain  Basement Walls  Other (please describe) \_\_\_\_\_

Please check all items you currently have in your home:

Storm Sump Pump  Sanitary Grinder Pump  Backflow Preventer

Other (please describe) \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_  
(please attach additional sheets, if necessary)

**Please provide the following information to assist us in determining how the depth of your basement relates to the depth of the existing sewers:**

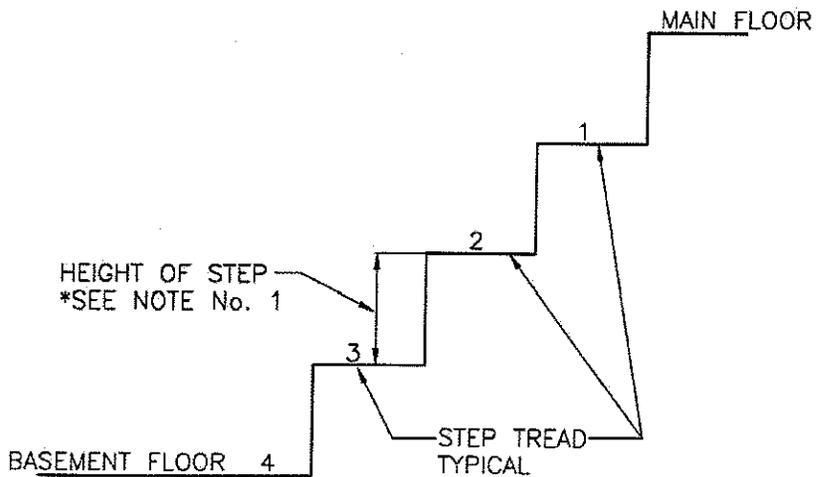
Basement Floor Depth: (See schematic below for measurement instructions)

Number of steps from main floor to basement floor \_\_\_\_\_

Height of steps \_\_\_\_\_ inches

Note:

\*1. Height of Step = Distance between two step treads on basement stairs. Please measure the distance between one of your stairs. Then, count the total number of stairs starting with the first stair shown in the diagram.



**Please mail or e-mail to the attention of:**

Michael Mackay, City Engineer, Mackay Engineering & Surveying Company, 7017 Pearl Road,  
Middleburg Heights, OH 44130 (440)886-4500 info@mackayeng-surv.com