

**AGENDA  
STORM WATER UTILITY  
COMMITTEE**

**MONDAY, JULY 26, 2010  
ROOM 204  
4:30 P.M.**

***Anthony Nudo, Chairman  
G. John Ruffolo, Vice Chairman  
Steve Bostrom***

***Patrick Juliana  
Jan Michalski  
Ray Misner***

**A. APPROVAL OF MINUTES**

A-1 Approval of minutes of special meeting held on July 19, 2010.

**C. REFERRED TO COMMITTEE**

C-1 Amendment to Task Order No. 2 for Strand & Associates.

**INFORMATIONAL:**

1. Spill/Illicit Discharge 50<sup>th</sup> Street & 52<sup>nd</sup> Avenue
2. Penoyer Beach Outfall Infiltration Basin GLRI Grant Application

**CITIZENS COMMENTS RELATED ONLY TO JURISDICTION OF STORMWATER  
UTILITY COMMITTEE**

**ALDERMAN COMMENTS**

IF YOU ARE DISABLED AND IN NEED OF ASSISTANCE CALL 653-4050 BEFORE NOON ON THE DATE INDICATED FOR THIS MEETING.

NOTICE IS HEREBY GIVEN THAT A MAJORITY OF THE MEMEBERS OF THE COMMON COUNCIL MAY BE PRESENT AT THE MEETING, AND ALTHOUGH THIS MAY CONSITUTE A QUORUM OF THE COMMON COUNCIL, THE COUNCIL WILL NOT TAKE ANY ACTION AT THIS MEETING.

STORM WATER UTILITY COMMITTEE  
- MINUTES -

MONDAY, JULY 19, 2010  
6:30 P.M.

Anthony Nudo, Chairman  
G. John Ruffolo, Vice Chairman  
Steve Bostrom

Patrick Juliana  
Jan Michalski  
Ray Misner

A special meeting of the Storm Water Utility Committee was held on Monday, July 19, 2010 in Room 204 of the Municipal Building. The following members were present: Chairman Anthony Nudo, Vice Chairman G. John Ruffolo, Aldermen Steve Bostrom, Patrick Juliana, Jan Michalski and Ray Misner. The meeting was called to order at 6:58 pm. Staff members in attendance were Ron Bursek and Mike Lemens.

A-1 Approval of minutes of special meeting held on June 28, 2010.

*It was moved by Alderman Ruffolo, seconded by Alderman Michalski to approve. Motion passed 6-0.*

B-1 Permanent Limited Easement and Temporary Construction Easement between the City of Kenosha and Kent & Angela Morton for property at 1338 20<sup>th</sup> Avenue. **(District 1)** (also referred to Finance Committee) (deferred from June 28, 2010 meeting)

*It was moved by Alderman Bostrom, seconded by Alderman Ruffolo to deny. Motion passed 5:1 with Alderman Juliana voting no.*

C-1 Award of Tree Removal Contract #10-10 to Droprite Tree & Landscape, LLC, Somers, Wisconsin, in the amount of \$60,000.00. **(All Districts)** (Park Commission and Finance Committee votes pending)

*Alderman Orth, Park Commission Chairman, spoke asking that items C-1 through C-3 be approved.*

*It was moved by Alderman Misner, seconded by Alderman Juliana approve items C-1 through C-3. Motion passed 6-0.*

C-2 Award of Parkway Tree Pruning Contract #09-10 to Trees "R" Us, Inc., Wauconda, Illinois, in the amount of \$100,000.00. **(All Districts)** (Park Commission and Finance Committee votes pending)

C-3 Award of Tree Planting Contract #11-10 to Paul Swartz Nursery & Garden Shop, Inc., Burlington, Wisconsin, in the amount of \$50,000.00. **(All Districts)** (Park Commission and Finance Committee votes pending)

INFORMATIONAL: Pennoyer Beach Outfall Infiltration Basin GLRI Grant Application

ADJOURNMENT - There being no further business to come before the Storm Water Utility Committee, it was moved, seconded and unanimously approved to adjourn the meeting at 7:06 pm.



ENGINEERING DIVISION  
MICHAEL M. LEMENS, P.E.  
DIRECTOR/CITY ENGINEER

STREET DIVISION  
JOHN H. PRIJIC  
SUPERINTENDENT

ASSISTANT CITY ENGINEER  
SHELLY BILLINGSLEY, P.E.  
STORMWATER UTILITY

**Ronald L. Bursek, P.E., Director**

Municipal Building · 625 52<sup>nd</sup> ST · RM 305 · Kenosha, WI 53140  
Telephone (262) 653-4150 · Fax (262) 653-4056

July 21, 2010

To: Anthony Nudo, Chairman  
Stormwater Utility Committee

From: Ronald L. Bursek, P.E.   
Director of Stormwater Utility

CC: Michael Orth  
Alderman District 15

Jesse Downing  
Alderman District 16

Ed St. Peter  
Kenosha Water Utility General Manager

Subject: ***Professional Service Agreement with Strand Associates, Inc. – Amendment No. 2***

**BACKGROUND INFORMATION**

Stormwater Utility staff has reviewed the draft report prepared for by Strand Associates, Inc. under the sanitary and storm sewer study for the Forest Park area in the City of Kenosha. The original agreement included numerous tasks as they related to the sanitary and storm sewer systems independently and together. Some of the tasks that were completed are as follows:

- Storm Sewer Condition Analysis
- Storm Sewer Capacity Analysis
- Sump Pump and Drain Tile Connection Database
- Hydrology Evaluation and Flood Extents Map
- Sump Pump and Drain Tile Connection Database
- Educational Program
- Ordinance Reviews
- Public Involvement Process / Public Informational Meetings

Upon reviewing the report Stormwater Utility staff had more questions that are unable to be answered without expanding the scope to look at the system directly outside the focus area specified. Staff, after discussing their questions with Strand, is recommending that additional work be performed to completely understand the impacts of downstream bottlenecks on the Forest Park area and other areas within the

adjacent drainage boundaries. Staff has completed additional survey information, in areas identified in the model to have surface storage in the roadways during heavy rainfall events, to better understand if homes are impacted by the height of ponding in the storage area.

Once the work as identified in Amendment No. 2 is completed, staff will review the results to determine if any further amendments are needed. An example of a future amendment may be to identify proposed enhancements to the system to deal with any stormwater quantity issues that they have identified to have detrimental effects to the homes in the Forest Park area or adjacent drainage areas.

**RECOMMENDATION**

Approve Amendment No. 2 between the Kenosha Stormwater Utility and Strand Associates in the amount of \$86,000. The additional funding will be requested from the 2010 Capital Improvement Plan for Flood Control Management (SW-10-004).



910 West Wingra Drive  
Madison, WI 53715  
Phone: 608-251-4843  
Fax: 608-251-8655

June 24, 2010

**Office Locations**

Madison, WI  
Joliet, IL  
Louisville, KY  
Lexington, KY  
Mobile, AL  
Columbus, IN  
Columbus, OH  
Indianapolis, IN  
Milwaukee, WI  
Cincinnati, OH  
Phoenix, AZ

City of Kenosha  
625 52nd Street, Room 305  
Kenosha, WI 53140

Attention: Ed St. Peter, General Manager  
Ron Bursek, Director of Public Works

Re: Amendment No. 2 to the September 10, 2009, Agreement for Services  
Storm Sewer and Sanitary Sewer Evaluation

[www.strand.com](http://www.strand.com)

This is Amendment No. 2 to the referenced Agreement.

**Under Scope of Services,**

Item 2., Storm Sewer Capacity Analysis, ADD the following:

- "f. Provide an inlet capacity analysis for the Forest Park North and South Areas under existing land use conditions (and independent of the mainline storm sewer capacity) showing the number of additional inlets, number of rebuilt inlets to be rebuilt in conjunction with the adjacent proposed additional inlets, and storm sewer inlet lead upsizing (from inlet to mainline) necessary to pass the 10-year storm event. This analysis will be run with full flow capacity of the inlet leads (i.e., ignoring tailwater at the mainline) and no greater than 3 inches of ponding at a particular inlet. It will also include upgrading existing non-city-standard inlets and grates to city-standard inlets and grates. Provide a 1"=100' figure (without aerial but with 1-foot contours shown) showing the locations of the additional and rebuilt inlets and the storm sewer upsizing locations. After additional inlets and storm sewer lead upsizing is determined, incorporate these changes into the existing storm sewer conditions XPSWMM model for the 10-, 25-, and 100-year storm events using appropriate tailwater conditions at the Pike Creek and Lake Michigan outfalls. Provide a flood extent map for the 10-, 25-, and 100-year storm events.
- g. Provide analysis of the following two alternatives, including providing a GIS figure, opinion of probable construction cost, and report section writeup for the Forest Park North Study Area. Report section writeup will include profile plots (profile plots in study area and on 60th Street mainline from Pershing Boulevard to 39th Avenue) comparing the hydraulic grade line (HGL) under existing conditions to the HGL with the alternative in place for modeled storm sewers in the Forest Park North Area for the 10-year design storm. Profile plots will include street name annotation. Alternatives will be run

with no improvements made in the Forest Park South Study Area. XPSWMM runs will be made using appropriate tailwater conditions at the Pike Creek and Lake Michigan outfalls.

- (1) Alternative 8—Upsize existing bottleneck storm sewers along Pershing Boulevard, 42nd Avenue, 59th Street, and 60th Street (stopping at 39th Avenue) seeking to pass the 10-year design storm. Existing storm sewers and inlets/inlet leads in the Forest Park North Area will be modeled as they exist today. The flow rate increase at 39th Avenue (60th Street mainline and 39th Avenue mainline) will be reported.
  - (2) Alternative 9—Upsize existing bottleneck storm sewers along Pershing Boulevard, 42nd Avenue, 59th Street, and 60th Street (stopping at 39th Avenue) seeking to pass the 10-year design storm. Existing storm sewers and inlets/inlet leads in the Forest Park North Area (as arrived at in f. above) will be upsized seeking to pass the 10-year design storm. This alternative will include the disconnection of pipe P-5794 from the 61st Street mainline storm sewer and reconnection by running a storm sewer from approximately Node 5794 to Node 8053 (north along 46th Avenue then east along north property line of 6035 46th Avenue through parking lot to Pershing Boulevard). The flow rate increase at 39th Avenue (60th Street mainline and 39th Avenue mainline) will be reported.
- h. Provide analysis of the following two alternatives including providing a GIS figure, opinion of probable construction cost, and report section writeup for the Forest Park South Study Area. Report section writeup will include a table and profile plots (profile plots in study area and on mainline from study area boundary to the Taft Road/Pershing Boulevard and 47th Avenue/70th Street intersections) comparing the HGL under existing conditions to the HGL with the alternative in-place for modeled storm sewers in the Forest Park South Area for the 10-year design storm, including along 65th Street and 48th Avenue. Profile plots will include street name annotation. Alternatives will be run with no improvements made in the Forest Park North Study Area. XPSWMM runs will be made using appropriate tailwater conditions at the Pike Creek and Lake Michigan outfalls.
- (1) Alternative 10—Upsize existing bottleneck storm sewers along 49th Avenue, 67th Street, 67th Place, 47th Avenue (stopping at 70th Street), and Taft Road (upstream of Pershing Boulevard) seeking to pass the 10-year design storm. Existing storm sewers and inlets/inlet leads in the Forest Park North Area will be modeled as they exist today. The flow rate increase at 70th Street/47th Avenue and at Taft Road/Pershing Boulevard will be reported.
  - (2) Alternative 11—Upsize existing bottleneck storm sewers along 49th Avenue, 67th Street, 67th Place, 47th Avenue (stopping at 70th Street), and Taft Road (upstream of Pershing Boulevard) seeking to pass the 10-year design storm. Existing storm sewers and inlets/inlet leads in the Forest Park South Area (as arrived at in f. above) will be



upsized seeking to pass the 10-year design storm. The flow rate increase at 70th Street/47th Avenue and at Taft Road/Pershing Boulevard will be reported.

- i. Provide modeling results at the 60th Street/52nd Avenue Intersection which show flooding in the intersection. Provide documentation of results of OWNER-provided conversation with property owners surrounding the 60th Street/52nd Avenue intersection.”

Item 4., Hydrology Evaluation and Flood Extents Maps, ADD the following:

“Provide an XPSWMM2d flood extent map at 1"=100' scale without aerial but with 1-foot contours and building outlines for the 10-, 25- and 100-year storm events for four alternatives (8, 9, 10, and 11). For each of these alternatives, provide a numerical value of the modeled water surface elevation for the 10-, 25-, and 100-year storm events and compare to the low entry point elevation as surveyed and provided by OWNER at a maximum of 70 homes in the study area. The numerical value will be labeled on the 1"=100' flood extent maps.”

Item 11., Meetings, ADD the following:

- e. Meeting No. 5–*Progress Meeting No. 3*–Discussion of draft results of Amendment No. 2 **Scope of Services**.
- f. Meeting No. 6–*Progress Meeting No. 4*–Discussion of final plan.”

Item 12., Deliverables, ADD the following:

- c. Submittal of draft plan section relative to Amendment No. 2 **Scope of Services** in hard-copy (four copies) and electronic PDF formats. Amendment No. 2 flood extent maps will be 1"=100'.
- d. Submittal of final plan incorporating Amendment No. 2 **Scope of Services** in hard-copy (four copies) and electronic PDF formats. Amendment No. 2 flood extent maps will be 1"=100'.”

Under **Compensation**, CHANGE \$202,800 to “\$288,800.”

Under **Schedule**, CHANGE April 15, 2010, to “October 25, 2010.”

Under **Schedule**, ADD the following:

“Completion by October 25, 2010, is contingent upon receipt of OWNER’s survey of home low entry point elevations by July 30, 2010, and notice to proceed by July 15, 2010.”



City of Kenosha  
Page 4  
June 24, 2010

IN WITNESS WHEREOF the parties hereto have made and executed this Amendment.

ENGINEER:

OWNER:

STRAND ASSOCIATES, INC.®

CITY OF KENOSHA

\_\_\_\_\_  
Matthew S. Richards  
Corporate Secretary

Date

\_\_\_\_\_  
Ed St. Peter  
General Manager

Date

\_\_\_\_\_  
Ronald Bursek  
Director of Public Works

Date



ENGINEERING DIVISION  
MICHAEL M. LEMENS, P.E.  
DIRECTOR/CITY ENGINEER

STREET DIVISION  
JOHN H. PRIJIC  
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July 21, 2010

To: Anthony Nudo, Chairman  
Stormwater Utility Committee

From: Ronald L. Bursek, P.E.   
Director of Stormwater Utility

CC: Jesse Downing  
Alderman District 16

Subject: ***INFORMATIONAL ITEM – Spill Documentation (Illicit Discharge 50<sup>th</sup> St. and 52<sup>nd</sup> Ave.)***

**BACKGROUND INFORMATION**

The Stormwater Utility was notified on July 20<sup>th</sup> of a possible illicit discharge in the area of 50<sup>th</sup> Street and 52<sup>nd</sup> Avenue. The complaint was taken by Chris Pagels, Stormwater Utility Soil Erosion Specialist, that a semi trailer was leaking a liquid out the back and was causing a smell in the vicinity of 50<sup>th</sup> Street and 52<sup>nd</sup> Avenue. Chris upon inspecting the site notified Shelly Billingsley and Jack Barber of the situation. Stormwater Utility staff then proceeded with their spill response procedures to protect the nearby storm sewer and adjacent City owned detention basin (Hillside Hardware) from contamination. The City did not have to notify the DNR's emergency spill response hotline as the contaminants were not exiting the basin under a visual inspection. However, under our MS4 permit we notify our DNR representative (Pete Wood) of our actions to eliminate illicit discharges into our system. Attached is the standard form that is used for documenting these incidents.

Chris Pagels worked with the Kenosha Police Department in identifying the owner of the semi trailer and to identify its contents. The owner's wife told Chris that the semi was half full of rotting watermelons that they were unable to sell.

Stormwater Utility staff as of today is still working with the owner to have the semi trailer removed and monitoring precautionary devices installed at this location.

Additional information obtained throughout the week will be supplied at the meeting.

**RECOMMENDATION**

Informational Only – No Action Required



## KENOSHA STORMWATER UTILITY SPILL RESPONSE DOCUMENTATION FORM

Spill Information			
<b>Location of Spill:</b> 50 <sup>th</sup> Street east of 52 <sup>nd</sup> Avenue (Parked Semi Trailer)			
<b>Description of Spill:</b> Half a Semi of Watermelons which was leaking a clear liquid out the rear of the trailer			
<b>Date:</b> July 20, 2010		<b>Time:</b> 3:00 AM/PM	
Contact Information			
<b>Name:</b> Chris Pagels		<b>Address:</b> 625 52 <sup>nd</sup> Street	
<b>Phone:</b> 653-4247		<b>Email:</b> cpagels@kenosha.org	
Responder Information			
<b>Name:</b> Shelly Billingsley		<b>Department:</b> Assistant City Engineer	
<b>Phone:</b> 262-653-4149			
Field Respondent			
<b>Name:</b> Jack Barber		<b>Department:</b> Street Division Field Supervisor	
<b>Phone:</b> 262-945-8604 (cell)			
Discharge			
Were materials discharged into drains, sumps, detention basins or water courses	Yes	No	Comment
	x		Hillside Detention Basin Area
<b>Type of Material Spilled</b>		<b>Quantity</b>	
Watermelon		unknown quantity of fluid	
Source and/or Cause of Incident			
<p>Chris Pagels the soil erosion specialist received a call from a nearby resident that there was a semi trailer parked on 50<sup>th</sup> Street east of 52<sup>nd</sup> Avenue that was leaking a fluid and was causing a smell in the neighborhood. Chris contacted Jack Barber and Shelly Billingsley regarding the tractor trailer upon observing a clear liquid discharging from the rear of the trailer. Ron Bursek was notified and he contacted the Kenosha Police Department to have an officer meet Chris and Jack on site to identify the owner of the trailer and if possible in having it removed.</p> <p>Jack responded to the spill by placing oil dry in the curb and gutter, a sock in the nearest catch basin and an absorbent boom at the outlet of the hillside detention basin (City owned basin).</p> <p>Chris notified Shelly Billingsley that they spoke with the owners wife and found that it is a half semi load of watermelon.</p> <p>Mike Lemens and Shelly Billingsley visited the site and from visual observation it did not appear that there was a discharge from the basin as the outlet was dry. The City had the basin converted from a large dry basin to a basin with a small wet area. Therefore the watermelon juices will be diluted to a negligible amount before exiting the City system.</p> <p>Chris is working on getting the trailer removed from the roadway and Jack will be monitoring the socks over the next few days to ensure that they are secure and functioning.</p>			
<b>Completed Forms Send To:</b>			
<b>Ron Bursek</b> Kenosha Stormwater Utility 625 52nd Street Kenosha, WI 53144 <a href="mailto:rbursek@kenosha.org">rbursek@kenosha.org</a>		<b>Pete Wood</b> Wisconsin DNR 9531 Rayne Road Sturtevant, WI 53177 <a href="mailto:peter.wood@wisconsin.gov">peter.wood@wisconsin.gov</a>	



## LOCATION MAP



Semi Trailer of Watermelon – facing west on 50<sup>th</sup> Street



Semi Trailer of Watermelon – leaking into curb and gutter



Curb and Gutter looking east on 50<sup>th</sup> Street



Detention basin looking northwest toward trailer location on 50<sup>th</sup> Street



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July 14, 2010

To: Anthony Nudo, Chairman  
Stormwater Utility Committee

From: Ronald L. Bursek, P.E.   
Director of Stormwater Utility

CC: Eric Haugaard  
Alderman District 1

Subject: ***INFORMATIONAL ITEM – Pennoyer Beach Outfall Infiltration Basin GLRI Grant Application***

**BACKGROUND INFORMATION**

The Stormwater Utility pursued two grant opportunities for the Great Lakes Restoration Initiative (GLRI) (Pike Creek Stabilization through Washington Park and the Pennoyer Park Outfall Infiltration Basin) and also as a participating member of the Sanitary Beach Survey and Testing with Julie Kinzelman with the City of Racine by submittal of a pre-proposal to the EPA.

In early June, the Stormwater Utility and Julie Kinzelman were contacted letting us know that the Pennoyer Beach Outfall Infiltration Basin and Julie Kinzelman's Sanitary Beach Survey and Testing were identified as being able to submit a formal grant application. Julie included Kenosha in her grant application for the Sanitary Beach Survey and Testing. In our request, the SWU requested approximately \$150,000 with an additional \$40,000 match by the Stormwater Utility. We were notified by the EPA that they would allow the City to request \$300,000 of funding if we put additional water quality devices upstream within the 28 acre drainage area of this outfall. The Pennoyer Beach Outfall Infiltration Basin would consist of putting an infiltration basin, planted with native beach grasses, to allow for stormwater discharges under normal flow conditions to infiltrate into the sand and out to the lake via the base flow instead of making its own path to the water's edge. The Stormwater Utility worked with AECOM to develop the grant application packet which was submitted Wednesday, June 23. This project will allow for the SWU to control some of the more contaminated low flow stormwater discharges with the ultimate goal of having fewer beach closings along Pennoyer.

Julie Kinzelman's grant will allow her to begin monitoring all of the outfalls that discharge onto beaches within the City of Kenosha to identify if the stormwater outfalls are contributing to the beach closings in this area. They will also be able to monitor the effectiveness of the Pennoyer Beach Outfall Infiltration Basin when the facility is constructed to determine the benefit that these facilities have on the water quality of our beaches.

The stormwater utility staff is excited about having the opportunity to become involved in this type of outfall treatment project that may ultimately have a visual impact on the beaches within the City limits. We should be notified within 60 to 90 days of our submittal if the EPA has awarded a grant or hopefully both to the SWU or Julie Kinzelman.

**RECOMMENDATION**

Informational Only – No Action Required