



**APPENDIX E  
CORRESPONDENCE**



369 East Park Drive  
Harrisburg, PA 17111  
(717) 564-1121  
FAX (717) 564-1158  
www.hrg-inc.com

April 2, 2014

Mr. Barry L. Sweger  
Sewage Planning Specialist  
Clean Water Program  
Pennsylvania Department of Environmental Protection  
909 Elmerton Avenue  
Harrisburg, Pennsylvania 17110

Re: Act 537 Progress Update  
Londonderry Township, Dauphin County

Dear Mr. Sweger:

On behalf of Londonderry Township (Township), this letter serves as a follow-up to your correspondence dated October 28, 2013 and provides a progress update on the Township's Act 537 Sewage Facilities Plan Update (Plan).

The Township is completing the Evaluation of Alternatives and Institutional Evaluation components of the Plan. As part of the alternatives analysis, the Township is evaluating various Scenarios to convey flows from the respective planning study areas within the Township to either the Middletown Borough Authority (MBA) or the Derry Township Municipal Authority (DTMA) sanitary sewer system.

Since our previous progress update to DEP, the Township continues to work with MBA and DTMA to determine their willingness and ability to accept flows for each of the Scenarios identified in the Plan. A meeting was held between the Township and MBA on January 13, 2014 to discuss the various Scenarios, available capacity in the MBA system, and the opportunity to pursue a draft intermunicipal agreement for the purposes of this Plan. The Township recently received a response from DTMA in correspondence dated March 24, 2014 regarding available capacity in DTMA system for each Scenario and the estimated user rates, capacity fees, and service policies, in the event a draft intermunicipal agreement is pursued between the Township and DTMA.

The Township's planning progress and evaluation of the selected alternative(s) has been and will continue to be influenced by the timely receipt of information provided by MBA and DTMA to date. This information will be utilized in the Township's alternatives analysis to evaluate the economic feasibility for each Scenario in order to identify the most cost-effective approach to accommodate the long-term solution for the sewage disposal needs of the Township.

The Township is also evaluating the feasibility of decentralized wastewater treatment facilities as an alternative to conveying flows to either MBA or DTMA system for each of the alternatives evaluated in the

Plan. HRG submitted a preliminary effluent limits request to DEP for the proposed discharge locations in correspondence dated December 24, 2014. Since this initial request, HRG continues to coordinate with DEP on any further information required by DEP for their evaluation.

For these reasons, the Plan will not be completed and submitted to DEP by April 30, 2014; therefore, the Township respectfully requests an extension of time to complete the preparation and submission of the Plan to DEP. We anticipate the following schedule and activities for completion of the Plan:

- Complete discussions with DTMA and MBA and subsequent evaluation of various treatment alternatives and submit Draft Plan Update to Township for review and comment 2 to 3 months
- Incorporate Township's comments into Draft Plan Update and allow for preliminary public review and comment period 1 month
- Submit updated Plan to Township for approval 1 month
- County & Township Planning Commission review period 2 months
- Public review & comment period (concurrent with planning commission period) 1 month
- Incorporate final comments into plan and submit Final Plan to Township for adoption 1 month
- DEP review period – Receive Plan approval 4 – 6 months

Should you have any questions or require further information for completion of the Plan, please do not hesitate to contact me at (717) 564-1121. Thank you for your continued cooperation in this matter.

Very truly yours,

**Herbert, Rowland & Grubic, Inc.**



William G. Rehkop, E.I.T.  
Water & Wastewater Service Group

WGR/MDC/wgr  
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Mr. Barry L. Sweger  
Pennsylvania Department of Environmental Protection  
April 2, 2014  
Page 3

c: Steve Letavic, Londonderry Township  
Andrew Kenworthy, P.E., HRG  
Matthew Cichy, P.E., HRG  
File



# pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

CLEAN WATER PROGRAM

April 7, 2014

Londonderry Township Supervisors  
c/o Township Secretary  
783 South Geyers Church Road  
Middletown, PA 17057

Re: Act 537 Plan Update  
Londonderry Township, Dauphin County

Ladies and Gentlemen:

In response to an April 2, 2014 letter from Herbert, Rowland & Grubic requesting an extension of time to submit Londonderry Township's Act 537 Sewage Facilities Plan Update, the Department of Environmental Protection (Department) acknowledges the request and the township's continued commitment to completing the plan in 2014. The Department hereby extends the deadline, and requests that the updated plan be submitted to this office by December 30, 2014.

If you have any questions regarding this request, please call me at 717.705.4761.

Sincerely,

Barry L. Sweger  
Sewage Planning Specialist  
Clean Water Program

cc: Herbert, Rowland & Grubic, Inc.



369 East Park Drive  
Harrisburg, PA 17111  
(717) 564-1121  
FAX (717) 564-1158  
www.hrg-inc.com

December 24, 2013

Mr. Jay Patel, P.E.  
PA Department of Environmental Protection  
Southcentral Region  
909 Elmerton Avenue  
Harrisburg, Pennsylvania 17110

Re: Sewage Preliminary Effluent Limits Request  
Londonderry Township Act 537 Plan Update  
Londonderry Township, Dauphin County

Dear Mr. Patel:

As you may know, Londonderry Township (Township), Dauphin County, is currently updating their Act 537 Sewage Facilities Plan (Plan Update). As part of the alternatives analysis contained in the Plan Update, the Township would like to evaluate the feasibility of decentralized wastewater treatment facilities with discharge to a nearby tributary or stream.

Four (4) of the service areas shown on Exhibit 1 may be considered for a decentralized wastewater treatment facility and described in greater detail below. Decentralized treatment is being evaluated due to the presence of unsuitable soils in these areas and as an alternative to conveying sewage to a neighboring municipality for treatment.

Each of the four (4) potential decentralized wastewater treatment facilities would receive wastewater flows from their respective service areas (Exhibits 2-4). In order to determine the feasibility of decentralized treatment, we are requesting preliminary effluent limits for the proposed discharge locations listed below:


- **Unnamed Tributary to Swatara Creek (DES\_USE\_GEN\_ID: 67582) – Exhibit 2**  
Service Area 1 consists of 41 EDUs along Newberry Road with a projected average daily flow of 10,660 gallons per day (GPD). The proposed outfall would discharge into an Unnamed Tributary to Swatara Creek (DES\_USE\_GEN\_ID: 67582) and is classified as a Warm Water Fishery and Migratory Fishery. The approximate location of the proposed outfall is 40°12'40"N, 76°42'19"W.
- **Unnamed Tributary to Lynch Run (DES\_USE\_GEN\_ID: 64466) – Exhibit 3**  
Service Area 3 consists of 49 EDUs in the Breaburn Road Development with a projected average daily flow of 12,740 GPD. The proposed outfall would discharge into an Unnamed Tributary to Lynch Run (DES\_USE\_GEN\_ID: 64466) and is classified as a Trout Stocking Fishery. The approximate location of the proposed outfall is 40°11'09"N, 76°39'26"W.

- **Unnamed Tributary to Lynch Run (DES\_USE\_GEN\_ID: 55764) – Exhibit 3**  
Service Area 4 consists of 139 EDUs in the Pine Manor Mobile Home Park and additional residential houses along North Deodate Road. Area 1 has a projected average daily flow of 28,990 GPD. The proposed outfall will discharge into an Unnamed Tributary to Lynch Run (DES\_USE\_GEN\_ID: 55764) and is classified as a Trout Stocking Fishery. The approximate location of the proposed outfall is 40°10'32"N, 76°39'50"W.
- **Unnamed Tributary to Conewago Creek (DES\_USE\_GEN\_ID: 20174) or Conewago Creek (DES\_USE\_GEN\_ID: 12267) – Exhibit 4**  
Service Area 6 includes 72 EDUs of residential houses along South Deodate Road and Locust Grove Road with a projected average daily flow of 18,720 GPD. The proposed outfall will discharge into either an Unnamed Tributary to Conewago Creek (DES\_USE\_GEN\_ID: 20174) or Conewago Creek (DES\_USE\_GEN\_ID: 12267), both creeks are classified as a Trout Stocking Fishery. The approximate locations of the proposed outfalls are 40°09'49"N, 76°39'56"W and 40°09'47"N, 76°39'51"W, respectively.

In order to maintain our accelerated project schedule, we respectfully request your timely review and response to this request. Should you have any questions or require further information in this matter, please feel free to contact me at 717-564-1121.

Very Truly Yours,

**Herbert, Rowland & Grubic, Inc.**



Jeffrey K. Bowra, E.I.T.  
Assistant Project Manager

JKB/SAT/vjm  
001068.0430/05

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Enclosures

c: Londonderry Township Board of Supervisors (w/ Encl.)  
File (w/ Encl.)

# Exhibit 1



Mapping derived from data provided by Dauphin County and USGS  
 7/2/2012 P.M. JCL QES/BLS R0017601 2A03  
 1144 Chester Lane  
 Lancaster, PA 17602  
 Fax: 717-393-1893  
 www.hrg.com

- Tier 1 On-Lot Malfunction Status**
- OK
  - Potential
  - Suspected
  - Confirmed
  - Greater Than 5 mpt. or Newer
  - Water Sample Taken at Roadside
- Roads  
 Railroads  
 Streams  
 Parcels  
 Municipal Boundary  
 Planning Area

Map: 100% scale applicable for survey area: 25' and 259'



# Exhibit 2

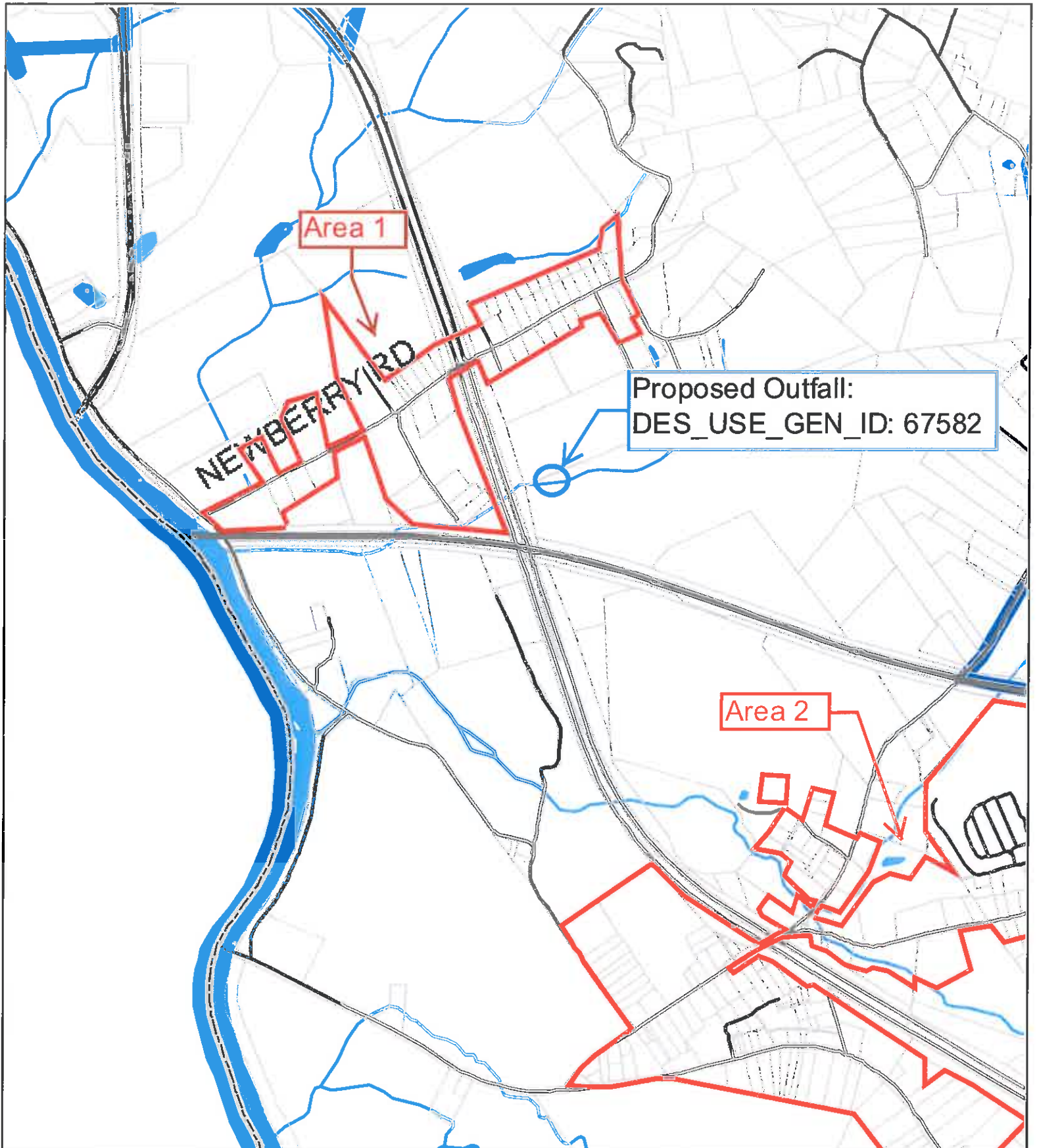


Exhibit 3

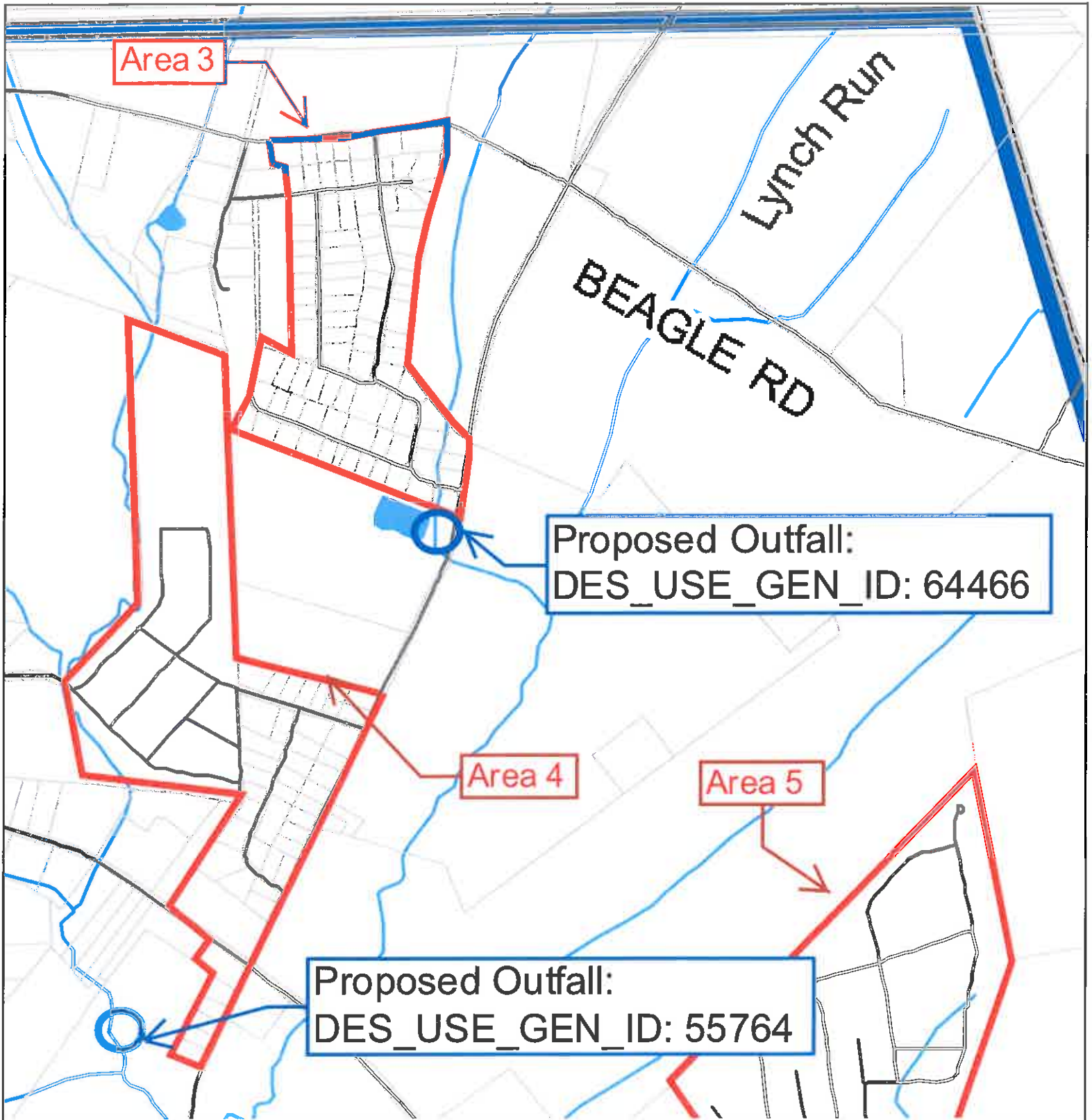
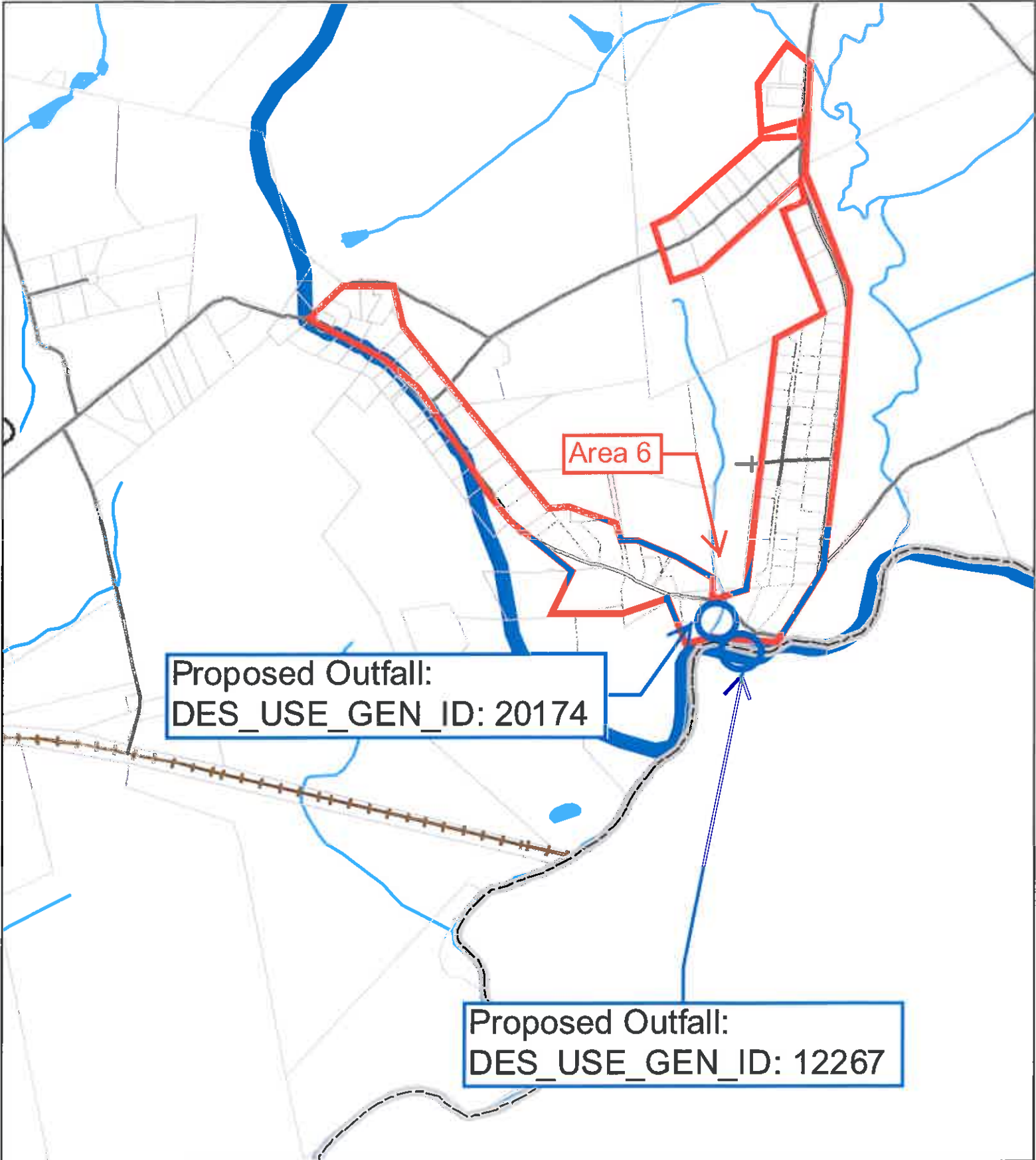


Exhibit 4





**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

Southcentral Regional Office

May 14, 2014

Ms. Traci Tupta  
HRG  
369 East Park Grive  
Harrisburg, PA 17111

Re: Preliminary Effluent Limitations  
Londonderry Township  
Londonderry Township, Dauphin County

Dear Ms. Tupta:

In response to your request dated December 24, 13 and subsequent information provided on March 28, 2014, the Department of Environmental Protection (DEP) has developed preliminary effluent limits (PELs) for a discharge of treated wastewater to the following water bodies . Any changes in the sizes or locations of the discharge will require a reevaluation. The PELs are as follows:

Location 1: UNT Swatara Creek , Lat: 40°12'42" Long:76°42'19", Flow of 0.01066MGD

Parameter	Concentration (mg/l)		
	Monthly Average	Weekly Average	Instantaneous Maximum
CBOD5	25	40	50
Total Suspended Solids	10	16	20
Ammonia-Nitrogen (5/1 to 10/31)	4		8
Ammonia-Nitrogen (11/1 to 4/30)	12		24
Fecal Coliform (5-1 to 9-30)	200 Geo Mean		1,000
Fecal Coliform (10-1 to 4-30)	2,000 Geo Mean		10,000
Dissolved Oxygen	Minimum of 5.0 at all times		
Total Residual Chlorine	0.19		0.61
pH	Within the range of 6 to 9 standard units at all times		

Location 2: UNT Lynch Run , Lat: 40°11'09" Long: 76°39'26", Flow of 0.01454MGD (Including Bright Hope Church's Flow)

Parameter	Concentration (mg/l)		
	Monthly Average	Weekly Average	Instantaneous Maximum
CBOD5	25	40	50
Total Suspended Solids	10	16	20
Ammonia-Nitrogen (5/1 to 10/31)	3.5		7
Ammonia-Nitrogen (11/1 to 4/30)	10.5		21
Total Phosphorus	1.0		2.0
Fecal Coliform (5-1 to 9-30)	200 Geo Mean		1,000
Fecal Coliform (10-1 to 4-30)	2,000 Geo Mean		10,000
Dissolved Oxygen	Minimum of 5.0 at all times		
Total Residual Chlorine	0.16		0.53
pH	Within the range of 6 to 9 standard units at all times		

Location 3: : UNT Lynch Run , Lat: 40°10'32" Long: 76°39'50", Flow of 0.02899MGD

Parameter	Concentration (mg/l)		
	Monthly Average	Weekly Average	Instantaneous Maximum
CBOD5	25	40	50
Total Suspended Solids	10	16	20
Ammonia-Nitrogen (5/1 to 10/31)	4.5		9.0
Ammonia-Nitrogen (11/1 to 4/30)	13.5		27
Total Phosphorus	1.0		2.0
Fecal Coliform (5-1 to 9-30)	200 Geo Mean		1,000
Fecal Coliform (10-1 to 4-30)	2,000 Geo Mean		10,000
Dissolved Oxygen	Minimum of 5.0 at all times		
Total Residual Chlorine	0.21		0.70
pH	Within the range of 6 to 9 standard units at all times		

Location 4: Conewago Creek , Lat: 40°09'47" Long:76°39'51", Flow of 0.01872MGD

Parameter	Concentration (mg/l)		
	Monthly Average	Weekly Average	Instantaneous Maximum
CBOD5	25	40	50
Total Suspended Solids	10	16	20
Ammonia-Nitrogen	Report		Report
Total Phosphorus	1.0		2.0
Fecal Coliform (5-1 to 9-30)	200 Geo Mean		1,000
Fecal Coliform (10-1 to 4-30)	2,000 Geo Mean		10,000
Dissolved Oxygen	Minimum of 5.0 at all times		
Total Residual Chlorine	0.5		1.6
pH	Within the range of 6 to 9 standard units at all times		

In addition, Chesapeake Bay Requirement for all new discharges is zero for Net Total Nitrogen and Net Total Phosphorus annually. This requirement could be met by obtaining offsets and credits approved by the Department. For further information on nutrient credits call Andrew Zemba at (717) 772-5633.

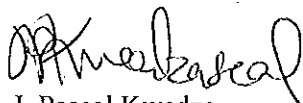
Issuance of these limits does not represent approval for a discharge to the waters of the Commonwealth. This information is provided as an aide in evaluating alternative wastewater disposal methods.

To meet the requirements of the Sewage Facilities Act, the proposed facility must be included in the municipality's Official Sewage Plan that is approved by DEP. For private projects, this may be done through the submission of sewage planning module components that are adopted by the municipality as a revision to the Official Plan.

When the municipality has a DEP-approved Official Plan that addresses this project, permit applications may be submitted. An NPDES permit application must be filed with DEP at least 180 days before you propose to commence the discharge of treated wastewater. A Water Quality Management (WQM) permit must be obtained from DEP prior to starting construction of the proposed facilities. Permit applications can be obtained by contacting this office or by visiting DEP's website at [www.elibrary.dep.state.pa.us](http://www.elibrary.dep.state.pa.us).

If you have any questions, please contact me at 717.705.4815.

Sincerely,



J. Pascal Kwedza  
Permits Section  
Clean Water Program



369 East Park Drive  
Harrisburg, PA 17111  
(717) 564-1121  
FAX (717) 564-1158  
www.hrg-inc.com

**VIA EMAIL AND CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

January 3, 2014

Mr. Ralph G. Watters  
Derry Township Municipal Authority  
670 Clearwater Road  
Hershey, Pennsylvania 17033

Re: Derry Township Municipal Authority (DTMA)  
Revised Wastewater Capacity Request  
Londonderry Township Act 537 Plan Update

Dear Mr. Watters:

Londonderry Township (Township), Dauphin County, is currently updating their Act 537 Sewage Facilities Plan (Plan Update). This letter follows previous correspondence relative to the Plan Update dated 8/31/12 and 10/1/12. As part of the alternatives analysis, the Township would like to review the feasibility of wastewater treatment at DTMA and Middletown Borough Authority (MBA) WWTPs.

Herbert, Rowland & Grubic, Inc. (HRG) is working with the Township to finalize the Plan Update. Flow scenarios have updated are presented below. A revised breakdown of these flows is attached to this letter.

	<u>DTMA SW WWTP</u>	<u>MBA WWTP</u>
• Scenario 1A (Split Flow, Immediate):	155,000 gpd	60,000 gpd
• Scenario 1B (Split Flow, 20-Year):	445,000 gpd	525,000 gpd
• Scenario 2A (All flow to DTMA, Immediate):	215,000 gpd	0 gpd
• Scenario 2B (All flow to DTMA, 20-Year):	970,000 gpd	0 gpd
• Scenario 3A (All flow to MBA, Immediate):	0 gpd	215,000 gpd
• Scenario 3B (All flow to MBA, 20-Year):	0 gpd	970,000 gpd

DTMA Main WWTP

- Scenario 4 (Flow to DTMA, Immediate): 12,000 gpd

The Township is also evaluating the feasibility of decentralized treatment systems in portions of the Township. Depending upon how decentralized treatment options are implemented and the chosen alternatives for existing mobile home parks in the Township, the planned flows may be less than those presented above.

The proposed connection point for Scenario 1 & 2 flows would be at manhole "MH-A4" on Willow Dell Drive near the DTMA SW WWTP. The proposed connection point for Scenario 4 would be at manhole

Mr. Ralph G. Watters  
Derry Township Municipal Authority  
January 3, 2014  
Page 2

“SSMH-HW4C” on Ballyshannon Drive in the Hills of Waterford development with treatment at the main (Clearwater Road) DTMA WWTP.

In order to determine the feasibility of treatment at the DTMA WWTPs, the Township must perform cost analysis for each of the structural alternatives proposed in the Plan Update. We kindly request responses to following items:

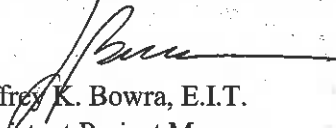
1. Ability to convey and treat immediate flow of 155,000 gpd (Scenario 1A).
2. Ability to convey and treat 20-Year future flow of 445,000 gpd (Scenario 1B).
3. Ability to convey and treat immediate flow of 215,000 gpd (Scenario 2A).
4. Ability to convey and treat 20-Year future flow of 970,000 gpd (Scenario 2B).
5. Ability to serve immediate flow of 12,000 gpd (Scenario 4).
6. \*Identify any capacity issues with collection, conveyance or WWTP facilities for items 1-5.
7. Current tapping fee that would be applied per EDU.
8. \*Current cost to treat wastewater.
9. Willingness and ability to operate and maintain new collection and conveyance facilities in the Township. If willing to operate and maintain, provide an O&M cost which includes billing, management, and general administration. In the future, there may be potential for ownership of the proposed sewer facilities in the Township.

\* If the requested capacities are not currently available, please provide the amount of flow that could be accepted without upgrading collection, conveyance or treatment facilities.

In order to maintain our project schedule, I respectfully request you contact me at 717-564-1121 to schedule a meeting to review this information with HRG and the Township. We thank you for your continued assistance with this important Plan Update.

Very Truly Yours,

**Herbert, Rowland & Grubic, Inc.**

  
Jeffrey K. Bowra, E.I.T.  
Assistant Project Manager

JKB

001068.0430

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Enclosure

c: Londonderry Township Board of Supervisors (w/ Encl.)  
File (w/ Encl.)

Herbert, Rowland & Grubic, Inc.



## LONDONDERRY TOWNSHIP ACT 537 PLAN UPDATE

### I. PROJECTED WASTEWATER FLOWS

Description	Type	Status	EDUs	Projected Average Daily Flow (gpd)
Newberry Road	Residential	Existing	41	10,660
Lauffer Hill	Residential	Proposed	100	26,000
Lyle Farms	TND	Proposed	1,730	460,000
E. Harrisburg Pike/Colebrook Road (S.D. No. 2)	Residential	Existing	134	34,840
School Heights Village	TND	Proposed	986	259,100
Breaburn	Residential	Existing	49	12,740
Crestview	MHP	Existing	75	23,000
Cedar Manor	MHP	Existing	316	104,000
Pine Manor	MHP	Existing	110	21,450
N. Deodate Rd.	Residential	Existing	19	4,940
Londonderry Estates	Residential	Existing	46	11,960

**NOTES:**

1. Residential connections calculated at 260 gpd/EDU.
2. TND flows are based on existing Sewage Planning and Preliminary Planning documents.
3. Pine Manor MHP connections calculated at 195 gpd/EDU.
4. Cedar Manor and Crestview MHP flows based on average 2011 flow records.

### II. FLOW BREAKDOWNS AT DTMA SW WWTP:

**Scenario 1A (Split Flow Immediate)**

Newberry Road	10,660	gpd
Breaburn	12,740	gpd
Cedar Manor	104,000	gpd
Pine Manor	21,450	gpd
N. Deodate Rd.	4,940	gpd
<b>Scenario 1A Total</b>	<b>153,790</b>	<b>gpd</b>
<b>SAY</b>	<b>155,000</b>	<b>gpd</b>

**Scenario 1B (Split Flow, 20-Year)**

Newberry Road	10,660	gpd
Lauffer Hill	26,000	gpd
School Heights Village	259,100	gpd
Breaburn	12,740	gpd
Cedar Manor	104,000	gpd
Pine Manor	21,450	gpd
N. Deodate Rd.	4,940	gpd
Future Growth	5,720	gpd
<b>Scenario 1B Total</b>	<b>444,610</b>	<b>gpd</b>
<b>SAY</b>	<b>445,000</b>	<b>gpd</b>

**NOTE:**

1. Future growth assumed at 20% of 109 existing non-MHP EDUs (22 EDUs x 260 gpd/EDU).

**Scenario 2A (All Flow to DTMA, Immediate)**

Newberry Road	10,660	gpd
E. Harrisburg Pike/Colebrook Road (S.D. No. 2)	34,840	gpd
Breaburn	12,740	gpd
Crestview	23,000	gpd
Cedar Manor	104,000	gpd
Pine Manor	21,450	gpd
N. Deodate Rd.	4,940	gpd
<b>Scenario 2A Total</b>	<b>211,630</b>	<b>gpd</b>
<b>SAY</b>	<b>215,000</b>	<b>gpd</b>

**Scenario 2B (All Flow to MBA, 20-Year)**

Newberry Road	10,660	gpd
Lauffer Hill	26,000	gpd
Lyle Farms	460,000	gpd
E. Harrisburg Pike/Colebrook Road (S.D. No. 2)	34,840	gpd
School Heights Village	259,100	gpd
Breaburn	12,740	gpd
Crestview	23,000	gpd
Cedar Manor	104,000	gpd
Pine Manor	21,450	gpd
N. Deodate Rd.	4,940	gpd
Future Growth	12,740	gpd
<b>Scenario 2B Total</b>	<b>969,470</b>	<b>gpd</b>
<b>SAY</b>	<b>970,000</b>	<b>gpd</b>

**NOTE:**

1. Future growth assumed at 20% of 243 existing non-MHP EDUs (49 EDUs x 260 gpd/EDU).

**U.S. Postal Service**  
**CERTIFIED MAIL™ RECEIPT**

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For delivery information visit our website at [www.usps.com](http://www.usps.com)

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7008 3230 0002 0370 2573

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Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



Sent To: **Ralph G Watters**  
 Street, Apt. No., or PO Box No.: **Derry Twp Mun Authority**  
 City, State, ZIP+4: **670 Clearwater Rd Hershey PA 17033**

PS Form 3800, August 2004 See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
 Ralph G Watters  
 Derry Twp Mun Authority  
 670 Clearwater Rd  
 Hershey PA 17033

2. Article Number  
 (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature: **X Deb Steel**  Agent  Addressee  
 B. Received by (Printed Name): **Deb Steel**  
 C. Date of Delivery: **1-7**  
 D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

7008 3230 0002 0370 2573

PS Form 3811, February 2004

Domestic Return Receipt

VICKI M

102595-02-M-1540

March 24, 2014

Jeffrey K. Bowra EIT  
Herbert Rowland & Grubic Inc.  
369 E. Park Dr.  
Harrisburg PA 17111

RE: Londonderry Township Act 537 Plan Update  
Revised Wastewater Capacity Request

Dear Mr. Bowra:

I am responding to your January 3, 2014 request for information on Derry Township Municipal Authority's (DTMA) willingness and ability to provide wastewater service to additional portions of Londonderry Township. You inquired about service under various scenarios (Scenarios) and raised a number of other questions. The information provided in this letter is for Londonderry's general planning purposes and is subject to the Limitations paragraph near the end of this letter.

#### **Southwest Treatment Plant Capacity**

DTMA's Southwest Treatment Plant (Plant) serves portions of Derry, Londonderry, and Lower Swatara Townships. It has a permitted average daily flow of 0.600 MGD. The Plant was not constructed to meet current nutrient removal requirements for the Chesapeake Bay. Nutrient credits from DTMA's Clearwater Road Treatment Plant are used to meet permit requirements for the Southwest Plant. Average monthly daily flow for calendar year 2013 was 0.283 MGD. For purposes of this analysis 0.300 MGD will be used as the current average daily flow.

Based on identified potential development within the Plant's service area (exclusive of connections resulting from any of the Scenarios), we estimate that average monthly daily flow at the end of calendar year 2016 will be 0.360 MGD. We also assumed that increased flow from any connections under the various Scenarios would not occur before the end of 2016. This means that 0.240 MGD would be available to serve the future needs of Londonderry Township or other contributors to the Plant. Assuming DTMA were willing and able to make the entire 0.240 MGD available to serve Londonderry's needs, we could accept the projected flows from Scenarios 1A and 2A of 0.155 MGD and 0.215 MGD respectively. Under these same assumptions DTMA cannot provide the capacity required by Scenario 1B (0.445 MGD) or 2B (0.970 MGD) without constructing a plant upgrade, since projected flows from those Scenarios exceed 0.240 MGD. If in the future DTMA were willing to construct an upgrade to accept additional flow, our current perspective is that the upgrade could include the larger requirement of Scenario 2B. See our comments under System Policies below regarding costs related to a Plant upgrade.

### **Conveyance System Capacity**

For purposes of this response we have assumed that there are no widespread capacity limitations within DTMA's existing conveyance system that would affect our ability to serve any of the Scenarios. However, Scenarios 1B and 2B may necessitate upgrades to the sewer main leading from the proposed discharge manhole MH-A4 to the Plant. No doubt you can develop costs to upgrade the main to handle the proposed flow under the two Scenarios.

### **Scenario 4**

We would be willing and able to provide service for this Scenario, the flow from which is estimated to be 12,000 GPD. This service area is small enough and located close enough to existing DTMA facilities that we may be willing to basically absorb it into our own operations and customer base providing O&M for the collection system and billing services which would be included in the rates below. However, our ability to do so may depend on the type of system constructed (low pressure versus gravity mains and pump station) and how it would be financed (e.g. PennVest requirements may affect system administration).

### **Rates, Fees, and Service Policies**

#### Capacity Fee

\$1,650 for each single-family house

\$1,357 for each unit in a multi-family apartment building

\$7.22 for each gallon of capacity in non-residential establishments

Capacity fees are updated periodically in accordance with the Act

#### Sewer User Rates

##### Non-Metered Accounts

Flat-rate of \$38.25 per billing unit per month

##### Metered Accounts

Flat charge of \$10.50 per billing unit per month

Consumption charge of \$5.00 per 1,000 gallons of water

A billing unit generally means a single family house, one apartment, or one business.

The rates above become effective April 1, 2014. The DTMA Board has announced its intention to increase sewer user rates by 6% on January 1, 2015, and by 4% on January 1, 2016. This intention is subject to adjustment based on changes in DTMA's financial needs.

#### Service Policies

In the absence of an agreement expressly reserving capacity including payment of fees, DTMA has typically provided capacity on a "first come, first served basis". Reservation of capacity may be possible under terms acceptable to DTMA which include without limitation, payment of ongoing reservation of capacity fees as provided in the Municipality Authorities Act (Act), and prepayment of capacity and other applicable fees.

In the Scenarios which potentially require an upgrade to the Plant, it is difficult to predict exactly what the financial requirements might be from municipalities that

contribute flow. In the past it has sometimes been possible for DTMA to finance a project and then charge municipal customers only when capacity was required. In other cases up-front contributions toward the project were needed. In order to develop an alternative cost analysis, you may want to assume that an upfront contribution will be required. We do not have current upgrade costs for the Plant, so the costs will need to be estimated based on the extra capacity needed and published plant construction cost factors. In the alternative, the current capacity fee could be adjusted for inflation to the point in time that an upgrade is required and then applied to the capacity needed.

DTMA generally charges its municipal customers the same rates per user as it charges its own customers within Derry Township. This is true whether or not DTMA owns and/or maintains the client municipality's collection system, and provides billing service. This policy is under review and is subject to change.

DTMA believes it has the ability and it would be willing to entertain the possibility of owning, operating and maintaining the collection systems proposed under the various Scenarios, and providing billing services. In the interest of simplicity and expediting the development of this response, we recommend that you assume the rates above do not include collection system O&M and billing services. We do not have the ability to develop estimates of such costs easily or on a timely basis given the highly variable nature of which of the Scenarios may develop and when. It may be that estimates for collection system O&M can be made using unit costs available from trade literature published by industry associations such as the Water Environment Federation or the National Association of Clean Water Agencies. Costs of billing would also need to be estimated.

### **Limitations**

The information included in this letter is for Londonderry Township's general planning purposes only. Much of the content is based on gross estimates and assumptions concerning events which may or may not actually occur. The statements in this letter are not intended to and do not represent binding commitments on the part of DTMA. Actual implementation of plan features will require that DTMA and Londonderry enter into formal written agreements which include acceptable financial and other consideration acceptable to the parties.

We hope this letter has provided sufficient information for you to complete the alternatives analysis required as part of Londonderry's Act 537 update. Please call with any questions or if you need clarification on our comments.

Sincerely,



Ralph G. Watters  
General Manager



369 East Park Drive  
Harrisburg, PA 17111  
(717) 564-1121  
FAX (717) 564-1158  
www.hrg-inc.com

**VIA EMAIL AND CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

January 3, 2014

Mr. Kenneth L. Klinepeter  
Borough of Middletown  
60 West Emaus Street  
Middletown, Pennsylvania 17057

Re: Middletown Borough Authority (MBA)  
Revised Wastewater Capacity Request  
Londonderry Township Act 537 Plan Update

Dear Mr. Klinepeter:

Londonderry Township (Township), Dauphin County, is currently updating their Act 537 Sewage Facilities Plan (Plan Update). This letter follows previous correspondence relative to the Plan Update dated 8/31/12 and 10/4/12. As part of the alternatives analysis contained in the Plan Update, the Township would like to review the feasibility of wastewater treatment at MBA and Derry Township Municipal Authority (DTMA) WWTPs.

Herbert, Rowland & Grubic, Inc. (HRG) is working with the Township to finalize the Plan Update. Flow scenarios have updated are presented below. A revised breakdown of these flows is attached to this letter.

	<u>DTMA SW WWTP</u>	<u>MBA WWTP</u>
• Scenario 1A (Split Flow, Immediate):	155,000 gpd	60,000 gpd
• Scenario 1B (Split Flow, 20-Year):	445,000 gpd	525,000 gpd
• Scenario 2A (All flow to DTMA, Immediate):	215,000 gpd	0 gpd
• Scenario 2B (All flow to DTMA, 20-Year):	970,000 gpd	0 gpd
• Scenario 3A (All flow to MBA, Immediate):	0 gpd	215,000 gpd
• Scenario 3B (All flow to MBA, 20-Year):	0 gpd	970,000 gpd

The Township is also evaluating the feasibility of decentralized treatment systems in portions of the Township. Depending upon how decentralized treatment options are implemented and the chosen alternatives for existing mobile home parks in the Township, the planned flows may be less than those presented above.

Mr. Kenneth L. Klinepeter  
Borough of Middletown  
January 3, 2014  
Page 2

The proposed connection point for these flows would be at the intersection of SR 230 and the railroad tracks just west of the Swatara Creek in the vicinity of MBA manhole number 318.

In order to determine the feasibility of treatment at the MBA WWTP, the Township must perform cost analysis for each of the structural alternatives proposed in the Plan Update. We kindly request responses to following items:

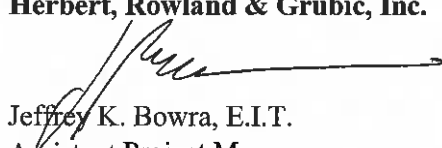
1. Ability to convey and treat immediate flow of 60,000 gpd (Scenario 1A).
2. Ability to convey and treat 20-Year future flow of 525,000 gpd (Scenario 1B).
3. Ability to convey and treat immediate flow of 215,000 gpd (Scenario 3A).
4. Ability to convey and treat 20-Year future flow of 970,000 gpd (Scenario 3B).
5. \*Identify any capacity issues with collection, conveyance or WWTP facilities for items 1-4.
6. Current tapping fee that would be applied per EDU.
- 7.\*Current cost to treat wastewater.
8. Willingness and ability to operate and maintain new collection and conveyance facilities in the Township. If willing to operate and maintain, provide an O&M cost which includes billing, management, and general administration. In the future, there may be potential for ownership of the proposed sewer facilities in the Township.

\* If the requested capacities are not currently available, please provide the amount of flow that could be accepted without upgrading conveyance or treatment facilities.

In order to maintain our project schedule, I respectfully request you contact me at 717-564-1121 to schedule a meeting to review this information with HRG and the Township. We thank you for your continued assistance with this important Plan Update.

Very Truly Yours,

**Herbert, Rowland & Grubic, Inc.**



Jeffrey K. Bowra, E.I.T.  
Assistant Project Manager

JKB

001068.0430

P:\0010\001068\_0430\Admin\Corres\Info to Surrounding Municipalities\MBA\2014.01.03 MBA WWTP Capacity Request Letter.doc

Enclosure

c: Londonderry Township Board of Supervisors (w/Encl.)  
Joshua Fox, P.E., HRG (w/Encl.)  
File (w/Encl.)

Herbert, Rowland & Grubic, Inc.

## LONDONDERRY TOWNSHIP ACT 537 PLAN UPDATE

### I. PROJECTED WASTEWATER FLOWS

Description	Type	Status	EDUs	Projected Average Daily Flow (gpd)
Newberry Road	Residential	Existing	41	10,660
Lauffer Hill	Residential	Proposed	100	26,000
Lyle Farms	TND	Proposed	1,730	460,000
E. Harrisburg Pike/Colebrook Road (S.D. No. 2)	Residential	Existing	134	34,840
School Heights Village	TND	Proposed	986	259,100
Breaburn	Residential	Existing	49	12,740
Crestview	MHP	Existing	75	23,000
Cedar Manor	MHP	Existing	316	104,000
Pine Manor	MHP	Existing	110	21,450
N. Deodate Rd.	Residential	Existing	19	4,940
Londonderry Estates	Residential	Existing	46	11,960

**NOTES:**

1. Residential connections calculated at 260 gpd/EDU.
2. TND flows are based on existing Sewage Planning and Preliminary Planning documents.
3. Pine Manor MHP connections calculated at 195 gpd/EDU.
4. Cedar Manor and Crestview MHP flows based on average 2011 flow records.

### II. FLOW BREAKDOWNS AT MBA WWTP:

**Scenario 1A (Split Flow Immediate)**

E. Harrisburg Pike/Colebrook Road (S.D. No. 2)	34,840	gpd
Crestview	23,000	gpd
<b>Scenario 1A Total</b>	<b>57,840</b>	<b>gpd</b>
<b>SAY</b>	<b>60,000</b>	<b>gpd</b>

**Scenario 1B (Split Flow, 20-Year)**

E. Harrisburg Pike/Colebrook Road (S.D. No. 2)	34,840	gpd
Crestview	23,000	gpd
Lyle Farms	460,000	gpd
Future Growth	7,020	gpd
<b>Scenario 1B Total</b>	<b>524,860</b>	<b>gpd</b>
<b>SAY</b>	<b>525,000</b>	<b>gpd</b>

**NOTE:**

1. Future growth assumed at 20% of 134 existing non-MHP EDUs (27 EDUs x 260 gpd/EDU).

**Scenario 3A (All Flow to MBA, Immediate)**

Newberry Road	10,660	gpd
E. Harrisburg Pike/Colebrook Road (S.D. No. 2)	34,840	gpd
Breaburn	12,740	gpd
Crestview	23,000	gpd
Cedar Manor	104,000	gpd
Pine Manor	21,450	gpd
N. Deodate Rd.	4,940	gpd
<b>Scenario 3A Total</b>	<b>211,630</b>	<b>gpd</b>
<b>SAY</b>	<b>215,000</b>	<b>gpd</b>

**Scenario 3B (All Flow to MBA, 20-Year)**

Newberry Road	10,660	gpd
Lauffer Hill	26,000	gpd
Lyle Farms	460,000	gpd
E. Harrisburg Pike/Colebrook Road (S.D. No. 2)	34,840	gpd
School Heights Village	259,100	gpd
Breaburn	12,740	gpd
Crestview	23,000	gpd
Cedar Manor	104,000	gpd
Pine Manor	21,450	gpd
N. Deodate Rd.	4,940	gpd
Future Growth	12,740	gpd
<b>Scenario 3B Total</b>	<b>969,470</b>	<b>gpd</b>
<b>SAY</b>	<b>970,000</b>	<b>gpd</b>

**NOTE:**

1. Future growth assumed at 20% of 243 existing non-MHP EDUs (49 EDUs x 260 gpd/EDU).



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1. Article Addressed to:

Kenneth L Klinepeter  
 Borough of Middletown  
 60 W Emaus St  
 Middletown PA 17057

2. Article Number  
*(Transfer from service label)*

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**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *Carol Rozanski*  Agent  Addressee

B. Received by (Printed Name) *Carol Rozanski* C. Date of Delivery *1/7/14*

D. Is delivery address different from item 1?  Yes  
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**VIA ELECTRONIC & REGULAR MAIL**

April 18, 2014

Mr. Kenneth L. Klinepeter  
Borough of Middletown  
60 West Emaus Street  
Middletown, Pennsylvania 17057

Re: Middletown Borough Authority (MBA)  
Wastewater Capacity Request  
Londonderry Township Act 537 Plan Update (Plan)

Dear Mr. Klinepeter:

On behalf of Londonderry Township (Township), this letter serves as a follow-up to the January 13, 2014 meeting held between representatives of both the Township and MBA. From this meeting, it was requested that a timeframe be developed for the anticipated future sewer connections from the proposed sewer extensions to serve existing sewage needs areas and future approved development within the Township for each Flow Scenario identified in the Plan.

The Township's goal is to complete the Plan and submit it to DEP by the end of 2014. It is assumed that DEP would then approve the Plan in mid-2015. It is anticipated that it will take 2 to 3 years for the design and construction of the proposed sewer extensions after DEP approval of the Plan. Based upon this schedule, flows from the Township constructed proposed sewer extensions may not be realized until approximately 2018.

As identified in our January 3, 2014 correspondence, the Township is evaluating four (4) Flow Scenarios for providing public sewer service in the Township with conveyance of wastewater flow to MBA WWTP and/or Derry Township Municipal Authority (DTMA) WWTP for treatment. Two (2) of the flow scenarios, Flow Scenario 1 and Flow Scenario 3, evaluates the feasibility of conveyance and treatment to the MBA WWTP to accommodate the short and long-term planning needs within the Township.

Using the schedule identified above, the Township would require the following initial capacity in the MBA's system beginning in 2018 for the proposed sewer extensions to serve existing sewage needs areas:

- Flow Scenario 1 (Split flow between MBA and DTMA) – 67,000 gpd.
- Flow Scenario 3 (All flow to MBA) – 228,000 gpd.

Recognizing that the status and schedule of anticipated planned future development is dependent upon the developer, the timeframe for these anticipated planned future developments is difficult to predict. It should be noted that a developer may propose to begin development prior to the anticipated 2018 timeframe for

capacity for the Townships sewage needs areas. The Township continues to coordinate with the developers regarding their anticipated schedule. At this time, we can anticipate the projected sewage flows as provided by each developer for full build-out of their respective planned future development, which is as follows:

- Lytle Farms – 460,000 gpd
- Lauffer Hill – 26,000 gpd
- School Heights Village – 259,100 gpd

Assuming full build-out of these anticipated developments and the Township's needs for the proposed sewer extensions to serve existing sewage needs areas, the Township would ultimately require the following capacity in the MBA's system as part of its 20-year flow projections:

- Flow Scenario 1 (Split flow between MBA and DTMA) – 525,000 gpd.
- Flow Scenario 3 (All flow to MBA) – 970,000 gpd.

We understand that MBA's system does not have capacity to accommodate the Township's sewage needs areas and full build-out of the planned future development. We would like to consider that capacity remaining in the MBA's system be allocated to accommodate a portion of the anticipated planned future development in addition to the flows contributed from the Township's existing needs areas. As development needs expand beyond the available capacity of MBA's system, upgrades to the MBA system will then be required.

In order to complete a cost-benefit analysis to determine the feasibility of conveyance and treatment at the MBA WWTP, the Township respectfully requests the following information:

1. Capacity currently available for the Township's use in MBAs existing conveyance system and WWTP.
2. Ability to convey and treat an initial flow of 67,000 gpd (Scenario 1).
3. Would MBA be willing and able to convey and treat the 20-year future flow of 525,000 gpd (Scenario 1)? If so, a projected cost for the upgrade.
4. Ability to convey and treat initial flow of 228,000 gpd (Scenario 3).
5. Would MBA be willing and able to convey and treat the 20-year future flow of 970,000 gpd (Scenario 3)? If so, a projected cost for the upgrade.
6. Identify any capacity issues with collection, conveyance or WWTP facilities for items 1-4.
7. Current tapping fee that would be applied per EDU.
8. Current cost to convey and treat wastewater.
9. Willingness and ability to operate and maintain new collection and conveyance facilities in the Township. If willing to operate and maintain, provide an O&M cost which includes billing, management, and general administration. In the future, there may be potential for ownership of the proposed sewer facilities in the Township.


The Township received an extension of time from DEP for submission of the Plan no later than December 30, 2014. In order to maintain this schedule, please submit the requested information to our office no later than May 19, 2014.

Mr. Kenneth L. Klinepeter  
Borough of Middletown  
April 18, 2014  
Page 3

Should you have any questions or require further information, please do not hesitate to contact me at (717) 564-1121. We thank you for your continued assistance with this important Plan Update.

Very Truly Yours,

**Herbert, Rowland & Grubic, Inc.**



William G. Rehkop, E.I.T.  
Assistant Project Manager

WGR/MDC/vjm  
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c: Steve Letavic, Londonderry Township  
John Patton, Middletown Borough Authority  
Andrew Kenworthy, P.E., HRG  
Joshua T. Fox, P.E., HRG  
Matthew Cichy, P.E., HRG  
File

# MIDDLETOWN BOROUGH AUTHORITY

60 West Emaus Street, Middletown, PA 17057

July 10, 2014

Mr. Steve Letavic  
Londonderry Township  
783 S Geyers Church Road  
Middletown, Pennsylvania 17057

Re: Wastewater Capacity Request  
Londonderry Township Act 537 Plan Update (Plan)  
Middletown Borough Authority, Dauphin County

Dear Mr. Letavic:

This correspondence serves as a follow-up to the letter received from Mr. William Rehkop of Herbert, Rowland, & Grubic, Inc. (HRG) on April 18, 2014 pertaining to a request for wastewater treatment plant (WWTP) capacity for incorporation into the Londonderry Township (Township) Act 537 Plan.

The Middletown Borough Authority (Authority) undertook a planning level evaluation of the condition of, and the capacity in, the Railroad Street Interceptor and the WWTP.

As you are aware, the Authority's sanitary sewer system (system) is severely impacted by inflow and infiltration (I/I). During significant wet weather events, the I/I overwhelm the existing sanitary sewer conveyance system and causes sanitary sewer overflows in the system near Hoffer Park. The Authority is taking a proactive approach in reducing the I/I. Currently, the Authority has undertaken an I/I Study and has been flow metering the system over the past few months with the goal of identifying the worst areas impacted by the I/I and prioritizing them for repair. Additionally, the Authority is undertaking a sewer replacement project to replace sewers that are over 100 years old in the vicinity of South Union Street. The extent of the reduction in I/I is not yet known as the project has only been under construction for two (2) months; however, preliminary estimates show as much as a 500,000 gallon per day reduction during peak wet weather events.

With this in mind, we have reviewed our existing capacity in the Railroad Street Interceptor from SR 230 to the WWTP and the WWTP as well as future projected flow from the Borough of Middletown and full use of purchased capacity from the Borough of Royalton (9.09% of WWTP capacity) and Lower Swatara Township (20% of WWTP capacity).

In response to your request for additional information for your cost-benefit analysis, please find the following responses numbered to correspond directly with your requests:

1. The permitted hydraulic capacity in average daily flow (ADF) for the WWTP is 2.2 million gallons per day (MGD). The 2013 ADF recorded at the WWTP was 1.228 MGD or 55% of the

total capacity. As a result there is approximately 408,000 gallons per day (gpd) of capacity available on the basis of average daily flow. The Royalton Borough Authority had approached the Authority in 2009 to discuss selling their excess capacity. If the Royalton Borough Authority is still interested in selling their excess capacity to the Township, the remaining available capacity in the WWTP would increase to approximately 532,000 gpd. Please refer to Exhibit A for a full breakdown of the existing capacity available in the WWTP.

2. The Authority has sufficient capacity available to convey and treat an initial flow of 67,000 gpd.
3. Due to the level of effort that would be involved with providing an accurate cost estimate to upgrade the capacity of the WWTP, a cost has not been provided. Several factors would need to be evaluated in addition to the expansion of the hydraulic and organic capacity to include the provision of nutrient credits provided by the Township for abandonment of the existing on-lot disposal systems and packaged wastewater treatment plants, additional nutrient removal facilities to maintain compliance with the Authority's existing cap loads after applying the nutrient credits to the cap loading, and sludge processing and biosolids disposal methods and subsequent costs. We propose that the expansion of the WWTP be evaluated when the need arises and is paid for by the developer(s) seeking the additional capacity. It is important to note that as more WWTPs required enhanced nutrient removal, more effective treatment technologies have become available. As a result, different alternatives for enhanced nutrient removal may be available for evaluation at the time the additional capacity is being sought by the developer(s).
4. The Authority has sufficient capacity available to convey and treat an initial flow of 228,000 gpd. This assumes that a comparable quantity of I/I can be removed during peak wet weather events.
5. Please see response to item number 3.
6. The Railroad Street Interceptor has sufficient capacity to convey flow for all flow scenarios on an annual average flow basis; however, the Interceptor often surcharges and sometimes overflows during peak wet weather events. It is estimated that the no upgrades will need to be made to the existing Interceptor. This is assuming that the peak wet weather flows have been reduced by an equal amount when connection to the Township is made. The capacity available in the WWTP is described in detail above.
7. The current tapping fee is \$1,175.00 per EDU.
8. The current cost to convey and treat wastewater for the Borough of Middletown is \$4.32/1,000 gallons. The cost for the Township may vary slightly depending on the exact point of connection to the sanitary sewer system.
9. The Authority would be willing to consider operation, maintenance, and eventual ownership of the proposed facilities in the Township; however, the Authority is not an operating authority and all operations and maintenance, billing, and administration of the sanitary sewer system is completed by Borough of Middletown staff. The Township would need to provide a complete description of the proposed facilities requested to be operated, maintained, and administered, the Borough of Middletown would need to evaluate the increase (if any) in staff to provide the requested services to the Township, and agenda items for an intermunicipal agreement would need to be presented to the Authority and the Borough of Middletown for consideration prior to any further discussions concerning this topic.

We appreciate the Township's desire to work with the Borough of Middletown and the Middletown Borough Authority on this very important planning effort. We applaud your continued pursuit of providing a regional solution to wastewater collection, conveyance, and treatment.

We hope that the information provided is useful for completion of the Township's Act 537 Plan. The Authority is looking forward to working with the Township in the future. Please do not hesitate to contact us should you need any additional information.

Very truly yours,



Mr. John L. Patten  
Chairman

Middletown Borough Authority

c: Borough of Middletown  
Mr. Joshua T. Fox, P.E.  
Mr. Timothy Horstmann, Solicitor  
File

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369 East Park Drive  
 Harrisburg, PA 17111  
 (717) 564-1121  
 FAX (717) 564-1158  
 www.hrg-inc.com

**Middletown WWTP Capacity Analysis**

		Percentage Used			
<b>Permitted Hydraulic Capacity (ADF)</b>	<b>2,200,000</b>	gpd			
2013 Annual Average Daily Flow	1,228,000	gpd	55.82%		
2013 Lower Swatara ADF	132,249	gpd	30.06%		
2013 Royalton ADF	76,888	gpd	38.45%		
2013 Three-Month Max. Avg	1,437,000	gpd	65.32%		
2013 Lower Swatara Three-Month Max. Avg.	162,507	gpd	36.93%		
2013 Royalton Three-Month Max. Avg.	Unknown	gpd			
Allocation of Remaining Capacity	Average*		3-Month Max Avg**		
Lower Swatara Township	307,751	gpd	277,493	gpd	
Borough of Royalton**	123,092	gpd	7,760	gpd	
Woodland Hills Development*	87,975	gpd	115,345	gpd	
Spring Street Property, LP*	44,550	gpd	58,410	gpd	
<hr/>					
<b>Total Remaining Capacity</b>	<b>408,632</b>	<b>gpd</b>	<b>303,992</b>	<b>gpd</b>	
<u>Londonderry Scenario 1 (GPD)</u>	67,000	341,632	gpd	236,992	gpd
<u>Londonderry Scenario 2 (GPD)</u>	525,000	-116,368	gpd	-221,008	gpd
<u>Londonderry Scenario 3 (GPD)</u>	228,000	180,632	gpd	75,992	gpd
<u>Londonderry Scenario 4 (GPD)</u>	970,000	-561,368	gpd	-666,008	gpd

Capacity Allocated Per Agreement(s)	
Lower Swatara Capacity (gpd)	440,000
Borough of Royalton Capacity (gpd)	199,980

\*Based on 225 gpd/EDU

\*\* Based on Assumed Peaking Factor of 2.5 for Royalton and 295 gpd/EDU for New Development



VIA CERTIFIED MAIL

September 25, 2014

Pennsylvania Department of Conservation and Natural Resources  
Bureau of Forestry, Ecological Service Section  
400 Market Street  
P.O. Box 8552  
Harrisburg, Pennsylvania 17105-8552

Re: PNDI Project Environmental Review  
Londonderry Township Act 537 Plan Update  
Londonderry Township, Dauphin County

Dear Sir or Madam:

I am contacting you to request comment on possible impact upon natural resources within your jurisdiction. Please find enclosed one (1) copy each of the following:

- Project narrative
- USGS map
- PNDI Project Environmental Review Receipt for Service Area 2 (Project Search ID 20140922467810)
- Proposed sanitary sewer Alternatives 2A, 2B, and 2C drawings
- PNDI Project Environmental Review Receipt for Service Area 7 (Project Search ID 20140922467829)
- Proposed sanitary sewer Alternatives 7A and 7B drawings

Please contact me if you have any questions or need further information.

Very Truly Yours,

**Herbert, Rowland & Grubic, Inc.**



Staci A. Tupta, E.I.T.  
Staff Professional I

SAT/vjm

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Enclosures

c: File (w/encl.)



**Project Narrative**  
**Act 537 Official Sewage Facilities Plan Update**  
**Londonderry Township, Dauphin County**

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Londonderry Township is currently preparing an Act 537 Plan Update that includes Sewer District Nos. 2 and 3 in their entirety, as well as a developed portion of On-Lot Management District B known as Londonderry Estates. An evaluation of existing on-lot disposal systems indicated that there is a need for improved wastewater disposal in several areas throughout the Township. The seven (7) service areas were identified based on needs derived from previous planning, number of on-lot malfunctions, well water sample results, and unsuitable soil type.

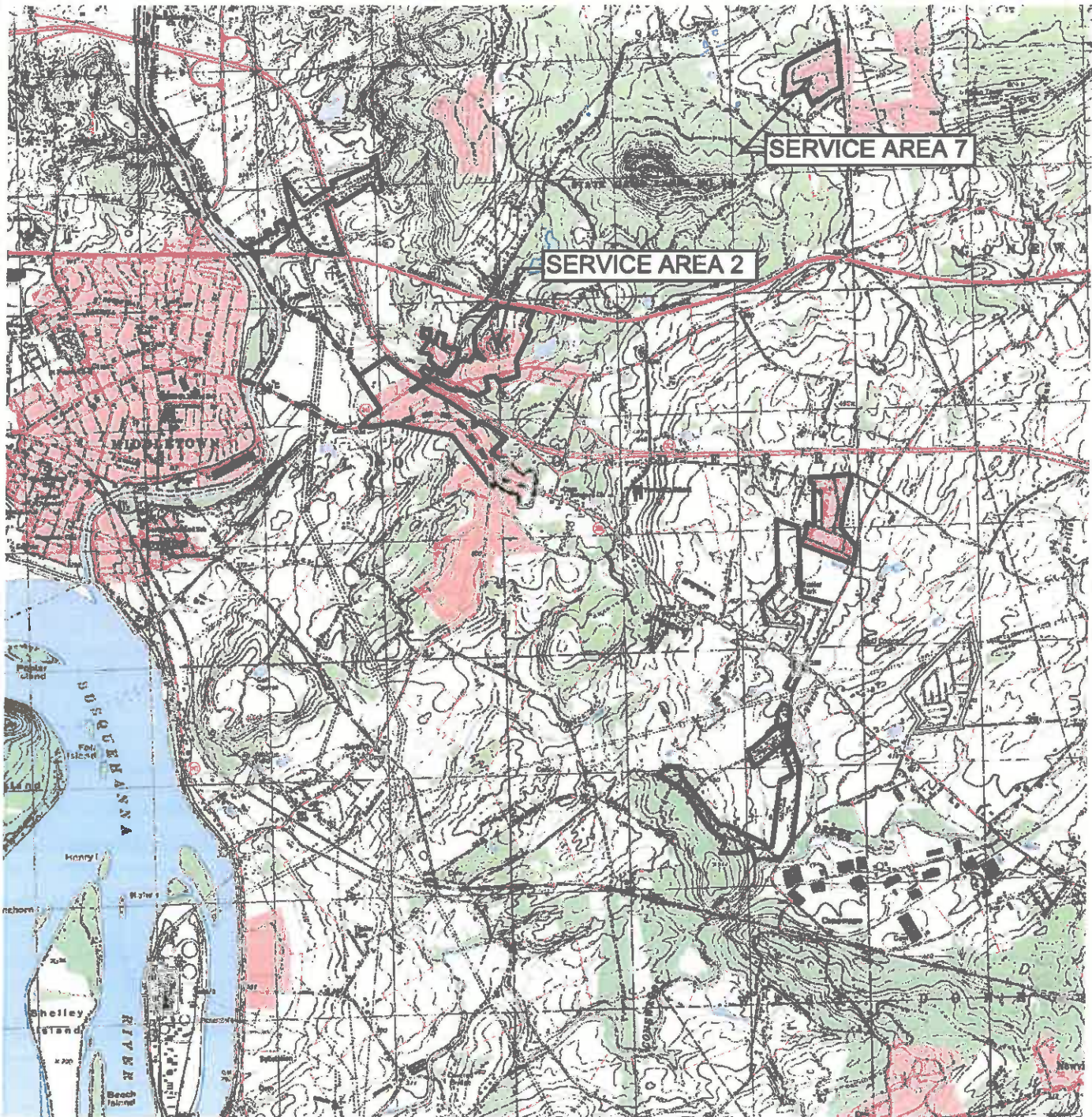
At this time, several areas are being evaluated in order to determine if the installation of a public sanitary sewer system is feasible. Although several alternatives have been evaluated for the public treatment of wastewater generated by the installation of a new sanitary sewer system, the wastewater from this project will most likely be conveyed to the Middletown Borough Authority's Wastewater Treatment Plant (MBA WWTP) and/or Derry Township Municipal Authority's Southwest Wastewater Treatment Plant (DTMA SW WWTP). Collection and conveyance alternatives being evaluated in the service areas include any of the following or a combination of: gravity sewer mains, low-pressure sewer mains and individual grinder pump units located at each residence, and installation of pumping stations and associated force mains.

All new facilities will be constructed below grade within existing roadways, access drives, and rights-of-way where feasible.

Of the seven (7) service areas, the PNDI search indicated two (2) service areas as having potential impact upon natural resources within your jurisdiction. The two (2) service areas are indicated on the attached USGS map. Also attached are the proposed collection and conveyance alternative drawings for the two (2) service areas.

The total area studied for the Act 537 Update is approximately 605 acres. The actual disturbance from the potential sewer system is unknown at this time; however, the total disturbed area for Service Areas 2 and 7 was estimated based on the proposed alternative drawings. The estimated disturbed area for Service Area 2 is 23,800 linear feet or 2.2 acres and Service Area 7 is 6,900 linear feet of 0.63 acres.





MIDDLETOWN QUADRANGLE

GRAPHIC SCALE

4000' 2000' 0' 4000'



SCALE: 1" = 4000'



867 East Park Drive  
 Harrisburg, PA 17111  
 (717) 664-1121  
 Fax: (717) 664-1188  
 hrghrg.com  
 www.hrghrg.com

ACT 537 PLAN SERVICE AREAS  
 FOR  
 LONDONDERRY TOWNSHIP

LONDONDERRY TOWNSHIP DAUPHIN COUNTY PENNSYLVANIA

PROJ. MGR. - MDC
DESIGN - SAT
CARD - RIF
CHECKED -
SCALE - AS NOTED
DATE - SEPT. 2014

DRAWING NO.	1
SHEET NO.	1 OF 1
PROJECT 00R00.0430	

File name: P:\Users\mrcr\OneDrive\Projects\537 Act 537\537 Act 537.dwg Layer: 01 Sep 25, 2014 11:43:58 AM



# 1. PROJECT INFORMATION

Project Name: **Service Area 2**

Date of review: **9/22/2014 1:57:39 PM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Area: **153.5 acres**

County: **Dauphin Township/Municipality: Londonderry**

Quadrangle Name: **MIDDLETOWN ~ ZIP Code: 17057**

Decimal Degrees: **40.199422 N, -76.700216 W**

Degrees Minutes Seconds: **40° 11' 57.9" N, -76° 42' 0.8" W**



# 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	Potential Impact	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
PA Department of Conservation and Natural Resources	Potential Impact	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

### 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

#### PA Game Commission

**RESPONSE:** Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

**PGC Species:** (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

**Scientific Name:** Sensitive Species\*\*

**Common Name:**

**Current Status:** Endangered

#### PA Department of Conservation and Natural Resources

**RESPONSE:** Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

**DCNR Species:** (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here: [http://www.gis.dcnr.state.pa.us/hgis-er/PNDI\\_DCNR.aspx](http://www.gis.dcnr.state.pa.us/hgis-er/PNDI_DCNR.aspx).)

**Scientific Name:** Rudbeckia fulgida

**Common Name:** Eastern Coneflower

**Current Status:** Special Concern Species\*

**Proposed Status:** Threatened

#### PA Fish and Boat Commission

**RESPONSE:** No impact is anticipated to threatened and endangered species and/or special concern



species and resources.

## U.S. Fish and Wildlife Service

**RESPONSE:** No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

\* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

\*\* Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

## WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

### Check-list of *Minimum Materials to be submitted:*

- SIGNED** copy of this Project Environmental Review Receipt
- Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- A basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams

## 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

### 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us)). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

### 6. AGENCY CONTACT INFORMATION

**PA Department of Conservation and Natural Resources**  
 Bureau of Forestry, Ecological Services Section  
 400 Market Street, PO Box 8552, Harrisburg, PA.  
 17105-8552  
 Fax:(717) 772-0271

**U.S. Fish and Wildlife Service**  
 Endangered Species Section  
 315 South Allen Street, Suite 322, State College, PA.  
 16801-4851  
 NO Faxes Please.

**PA Fish and Boat Commission**  
 Division of Environmental Services  
 450 Robinson Lane, Bellefonte, PA. 16823-7437  
 NO Faxes Please

**PA Game Commission**  
 Bureau of Wildlife Habitat Management  
 Division of Environmental Planning and Habitat Protection  
 2001 Elmerton Avenue, Harrisburg, PA. 17110-9797  
 Fax:(717) 787-6957

### 7. PROJECT CONTACT INFORMATION

Name: STACI TUPTA  
 Company/Business Name: HERBERT, ROWLAND & GRUBIC, INC.  
 Address: 369 EAST PARK DRIVE  
 City, State, Zip: HARRISBURG, PA 17111  
 Phone: (717) 564-1121 Fax: (717) 564-1158  
 Email: STUPTA@HRG-INC.COM

### 8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

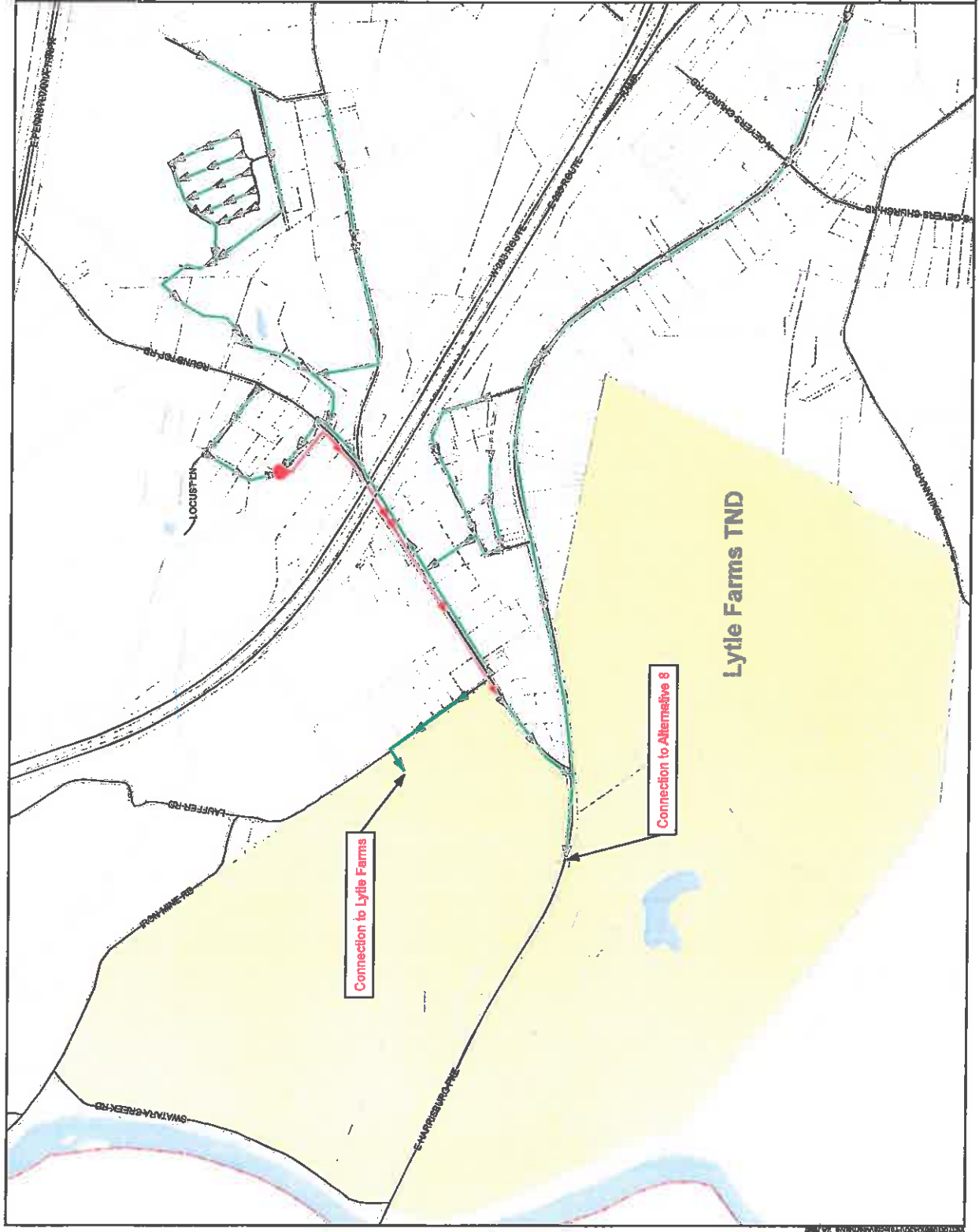
Staci Tupta 9/23/2014  
 applicant/project proponent signature date

**Alternative 2A**  
**Londonderry Township**  
**Dauphin County, Pennsylvania**

- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary

600 0 600 Feet  
 Mapping derived from data provided by Dauphin County and PALMAP.

8/10/2012 PM: RCB GIS: BJS R001083.0A30  
**HRG**  
 288 East Park Drive  
 Harrisburg, PA 17111  
 Tel: 717.684.1181  
 Fax: 717.684.1180  
 www.hrginc.com  
 Engineering • Technical Services  
 Office: 01800006





**Alternative 2B**  
**Londerry Township**  
**Dauphin County, Pennsylvania**

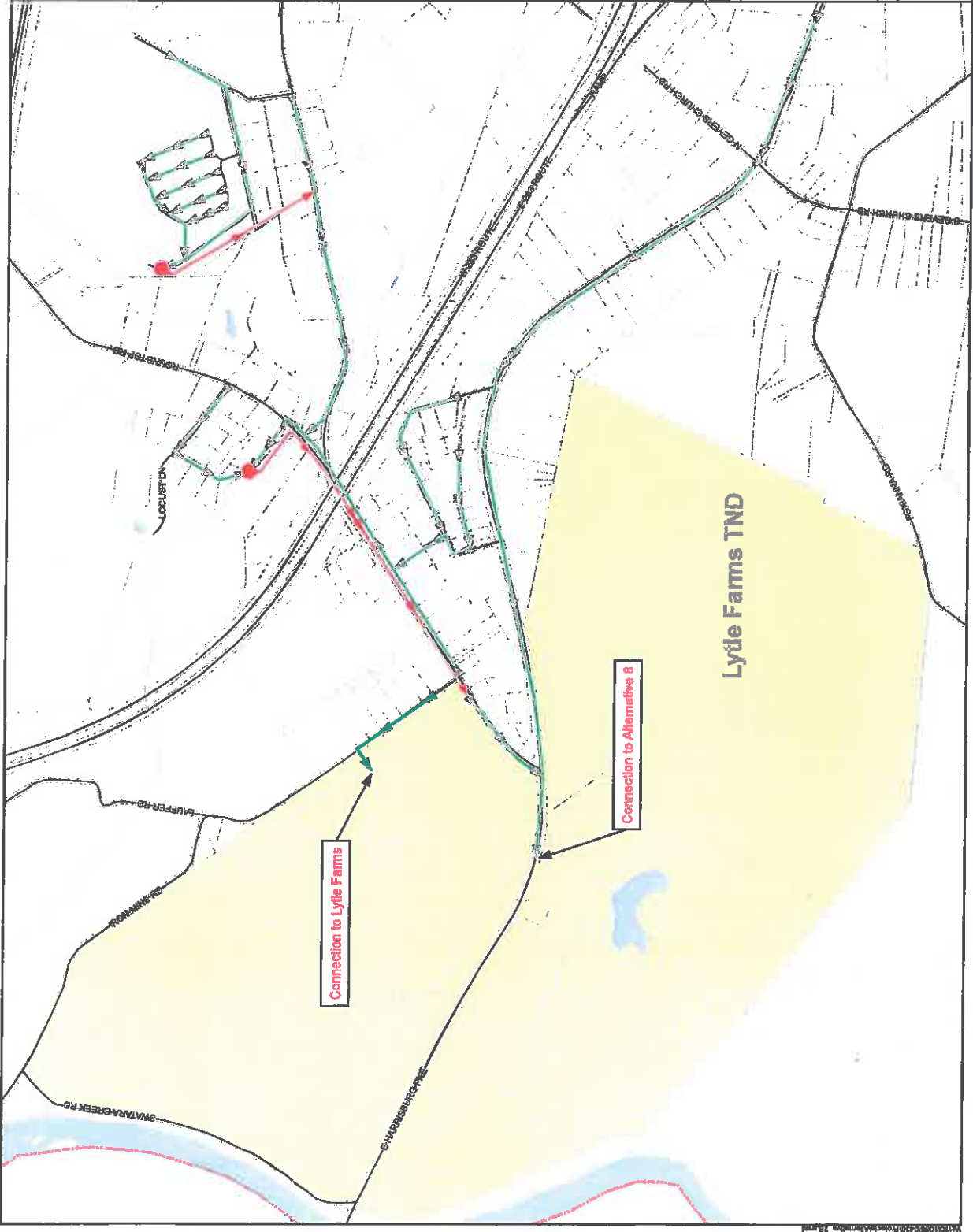
- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary



8/10/2012 PH: JKB GIS: BLS R001069.0430

**HRG**  
 HERRING RIVER GROUP  
 Engineering & Technical Services

388 East Park Drive  
 Harrisburg, PA 17111  
 Fax: 717-654-1121  
 www.hrg-usa.com  
 Office: Harrisburg



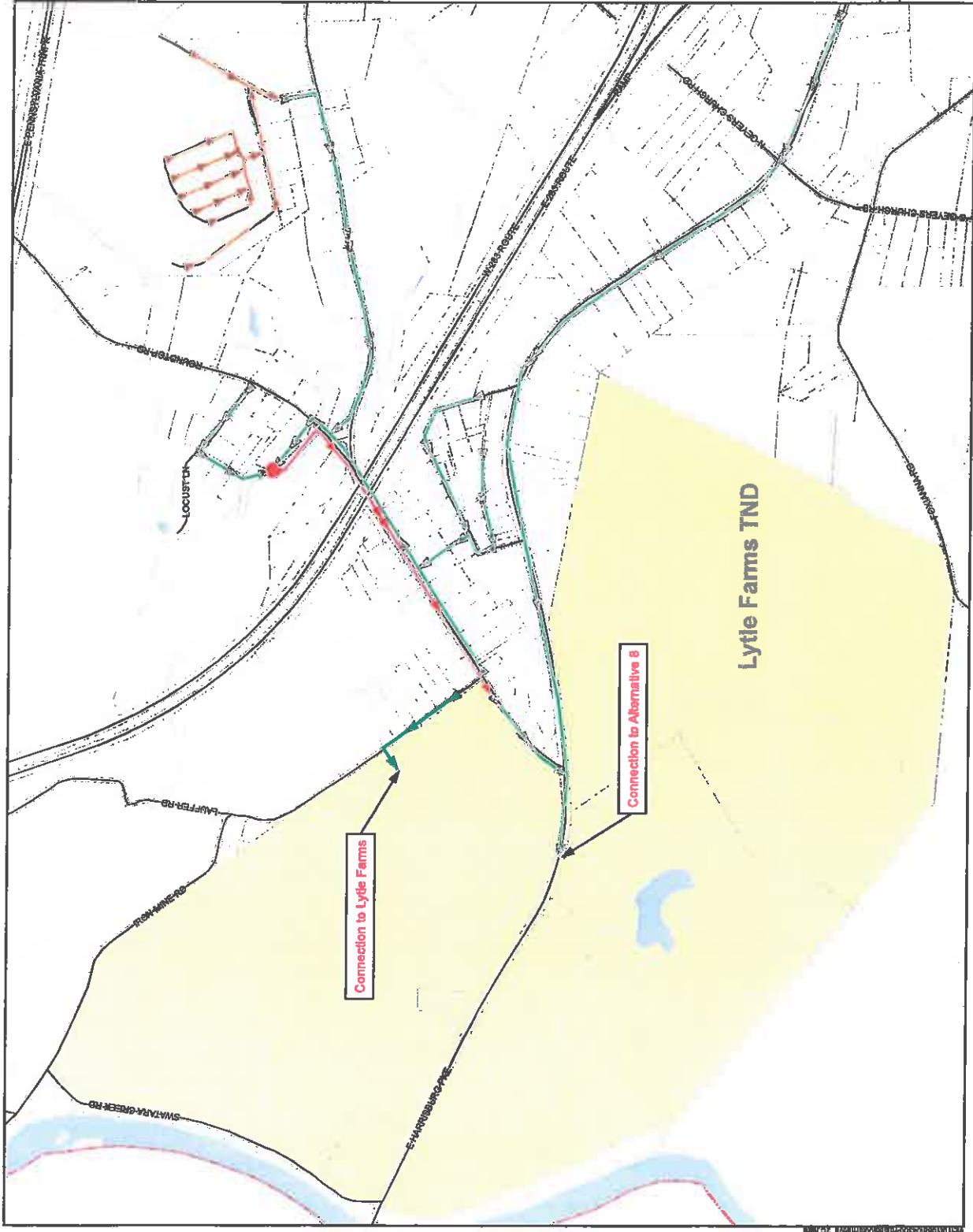


**Alternative 2C**  
**Londonderry Township**  
**Dauphin County, Pennsylvania**

- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Low-Pressure Sewer
- Road
- Railroad
- ▭ Parcels
- ▭ Water Body
- ▭ Municipal Boundary



8/10/2012 PH: MJB GIS: BLS R001068.0430  
**HRG**  
 HARRISBURG REGIONAL GOVERNMENT  
 Engineering & Related Services  
 388 East Park Drive  
 Harrisburg, PA 17111  
 Fax: 717.664.1121  
 Web: www.hrghg.com  
 Office: B01068

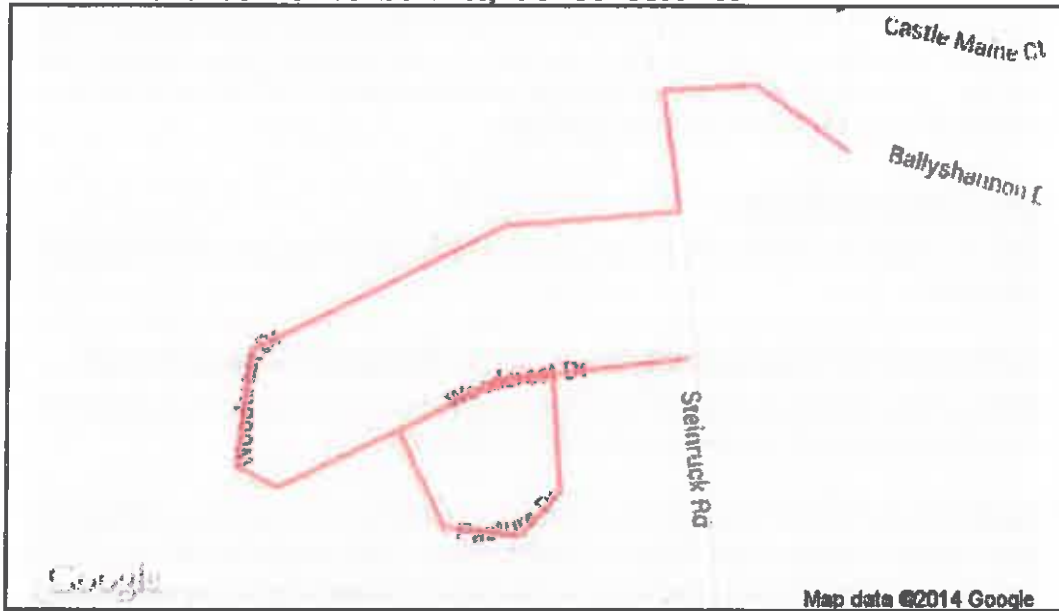






### 1. PROJECT INFORMATION

Project Name: **Service Area 7**  
 Date of review: **9/22/2014 2:32:08 PM**  
 Project Category: **Waste Transfer, Treatment, and Disposal,Liquid waste/Effluent,Sewage module/Act 537 plan**  
 Project Length: **5667.3 feet**  
 County: **Dauphin Township/Municipality: Londonderry,Conewago**  
 Quadrangle Name: **MIDDLETOWN ~ ZIP Code: 17022,17057**  
 Decimal Degrees: **40.223709 N, -76.659203 W**  
 Degrees Minutes Seconds: **40° 13' 25.4" N, -76° 39' 33.1" W**



### 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	Potential Impact	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

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#### PA Game Commission

**RESPONSE:** No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Department of Conservation and Natural Resources

**RESPONSE:** Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

**DCNR Species:** (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here: [http://www.gis.dcnr.state.pa.us/hgis-er/PNDI\\_DCNR.aspx](http://www.gis.dcnr.state.pa.us/hgis-er/PNDI_DCNR.aspx).)

**Scientific Name:** Rudbeckia fulgida

**Common Name:** Eastern Coneflower

**Current Status:** Special Concern Species\*

**Proposed Status:** Threatened

#### PA Fish and Boat Commission

**RESPONSE:** No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### U.S. Fish and Wildlife Service

**RESPONSE:** No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

\* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

\*\* Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

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- Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

**The inclusion of the following information may expedite the review process.**

- A basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams

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### 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us)). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

### 6. AGENCY CONTACT INFORMATION

**PA Department of Conservation and Natural Resources**  
 Bureau of Forestry, Ecological Services Section  
 400 Market Street, PO Box 8552, Harrisburg, PA.  
 17105-8552  
 Fax:(717) 772-0271

**U.S. Fish and Wildlife Service**  
 Endangered Species Section  
 315 South Allen Street, Suite 322, State College, PA.  
 16801-4851  
 NO Faxes Please.

**PA Fish and Boat Commission**  
 Division of Environmental Services  
 450 Robinson Lane, Bellefonte, PA. 16823-7437  
 NO Faxes Please

**PA Game Commission**  
 Bureau of Wildlife Habitat Management  
 Division of Environmental Planning and Habitat Protection  
 2001 Elmerton Avenue, Harrisburg, PA. 17110-9797  
 Fax:(717) 787-6957

### 7. PROJECT CONTACT INFORMATION

Name: Staci Tupia  
 Company/Business Name: Herbert Rowland & Gubic, Inc  
 Address: 369 East Park Drive  
 City, State, Zip: Harrisburg, PA 17111  
 Phone: (717) 564-1120 Fax: (717) 564-1158  
 Email: stupa@hrj-inc.com

### 8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

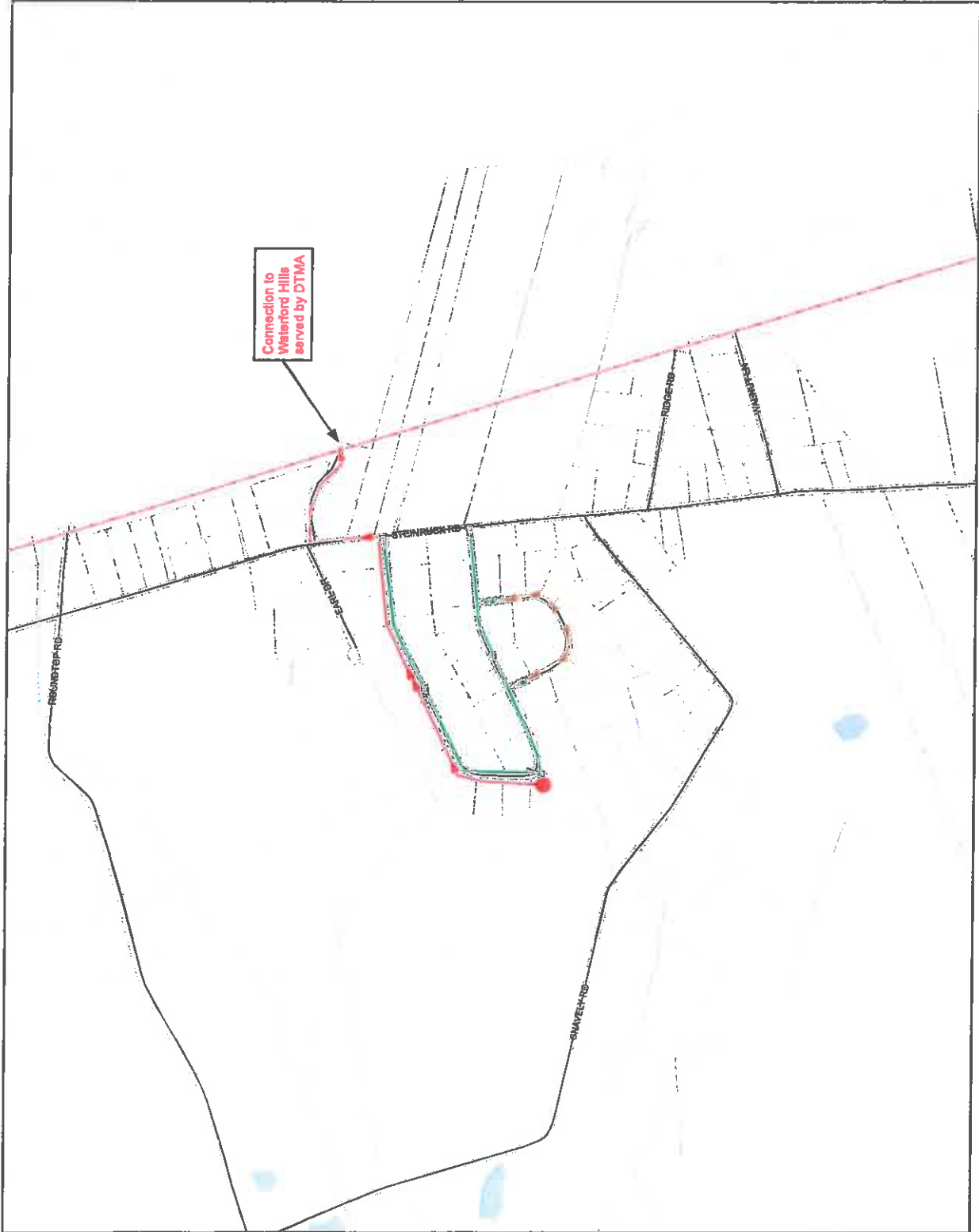
Staci Tupia 9/23/2014  
 applicant/project proponent signature date

**Alternative 7A**  
**Londonderry Township**  
**Dauphin County, Pennsylvania**

- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Low-Pressure Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary









7/24/2012 PHJ:JKB GIS: BLS R001088.043D  
**HRG**  
 368 East Park Drive  
 Harrisburg, PA 17111  
 Fax: 717.664.1121  
 www.hrginc.com  
 Engineering & Technical Services



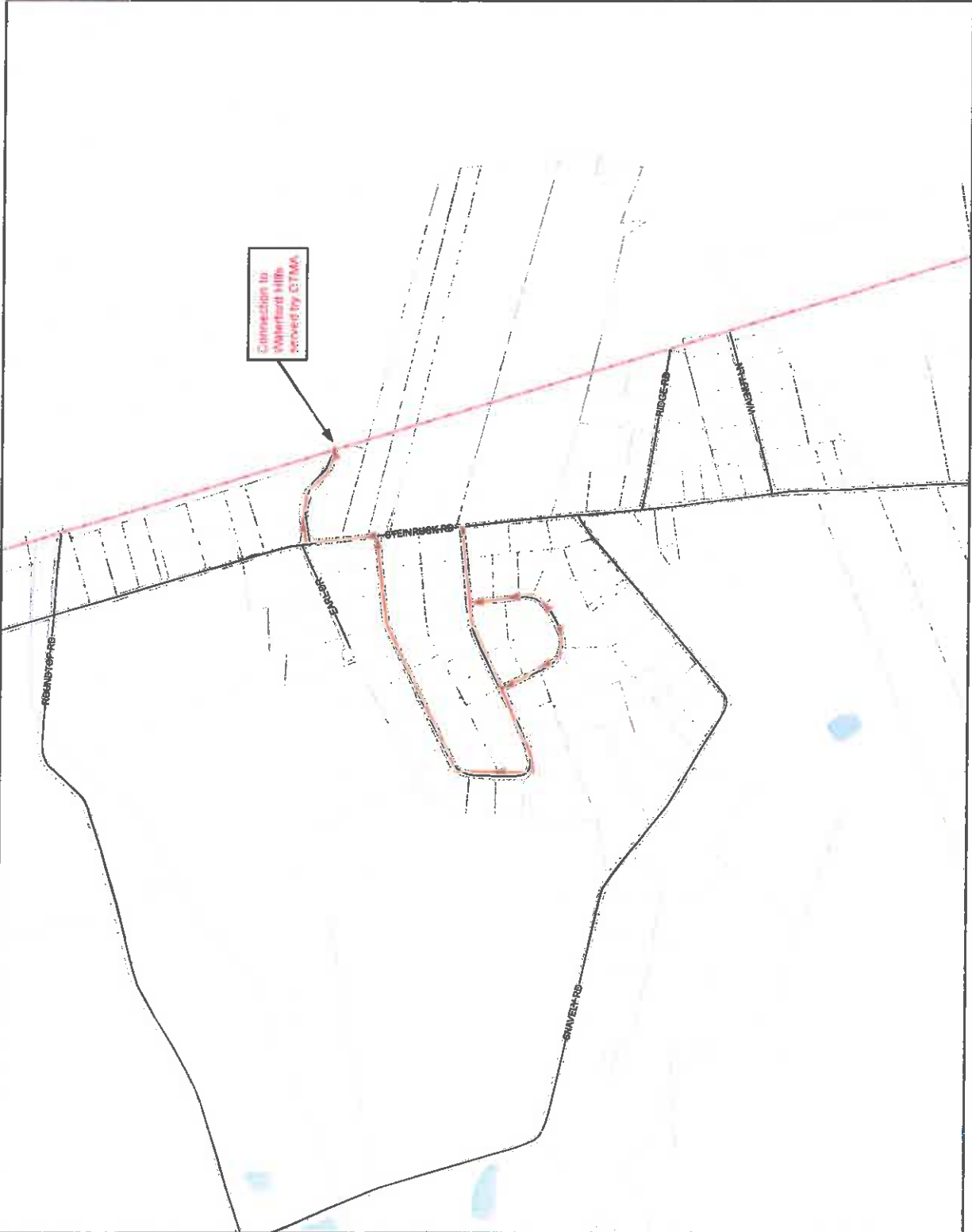


**Alternative 7B**  
 Londonderry Township  
 Dauphin County, Pennsylvania

-  Low-Pressure Sewer
-  Road
-  Railroad
-  Parcels
-  Water Body
-  Municipal Boundary

500 0 500 Feet  
 Mapping derived from data provided by Dauphin County and PAMAC.

7/24/2012 PM: JKB GIS: BLS R001068.043D  
 See East Park Drive  
 Harrisburg, PA 17111  
 Fax: 717.654.1121  
 Web: 717.654.1188  
 www.hrg.com  
 Engineering & Survey Services  
**HRG**







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1068-0430/06/A

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Restricted Delivery Fee <small>(Endorsement Required)</small>	
Total Postage & Fees	\$



Postmark Here

**Sent To** PA Dept of Cons & Natural Resources  
 Bureau of Forestry, Eco Service Section  
 400 Market S  
 P.O. Box 8552  
 Harrisburg, PA 17105-8552

PS Form 3800, August 2005 See Reverse for Instructions

7014 0510 0000 4050 5170

1068-0430-06-A

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul> <p><b>1. Article Addressed to:</b></p> <p style="margin-left: 40px;">PA Dept of Cons &amp; Natural Resources            Bureau of Forestry, Eco Service Section            400 Market S            P.O. Box 8552            Harrisburg, PA 17105-8552</p>	<p><b>A. Signature</b>  <input checked="" type="checkbox"/> <i>Melvin Lee Patel</i> <span style="float: right;"><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</span></p> <p><b>B. Received by (Printed Name)</b> _____</p> <p><b>C. Date of Delivery</b>  <span style="font-size: 1.2em; color: red;">SEP 28 2014</span></p> <p><b>D. Is delivery address different from item 1?</b> <input type="checkbox"/> Yes            If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p><b>2. Article Number</b>  <small>(Transfer from service label)</small></p>	<p><b>3. Service Type</b></p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p><b>4. Restricted Delivery? (Extra Fee)</b> <input type="checkbox"/> Yes</p>
<p style="font-size: 1.2em; font-weight: bold;">7014 0510 0000 4050 5170</p>	
<p>PS Form 3811, February 2004 <span style="margin-left: 100px;">Domestic Return Receipt</span> <span style="float: right;">102595-02-M-1540</span></p>	



---

BUREAU OF FORESTRY

6 October 2014

PNDI Numbers: 20140922467810\_20140922467829

**Staci A. Tupta, E.I.T.**

**Herbert, Rowland, & Grubic, Inc.**

Email: [stupta@hrg-inc.com](mailto:stupta@hrg-inc.com) (hard copy will not follow)

**Re: Herbert, Rowland, & Grubic, Inc.; Londonderry Township Act 537 Plan Update  
Londonderry Township, Dauphin County, PA**

Dear Ms. Tupta,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Numbers **20140922467810\_20140922467829** for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

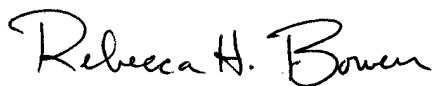
**No Impact Anticipated**

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project.

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. For PNDI project updates, please see the PNHP website at [www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us) for guidance. As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

**Should you have any questions or concerns, please contact Su Ann Shupp, Ecological Information Specialist, by phone (717-783-7990) or via email ([c-sushupp@pa.gov](mailto:c-sushupp@pa.gov)).**

Sincerely,



Rebecca H. Bowen, Section Chief  
Bureau of Forestry, Ecological Services Section  
Pennsylvania Natural Heritage Program

VIA CERTIFIED MAIL

September 25, 2014

Pennsylvania Fish and Boat Commission  
Division of Environmental Services  
450 Robinson Lane  
Bellefonte, Pennsylvania 16823-7437

Re: PNDI Project Environmental Review  
Londonderry Township Act 537 Plan Update  
Londonderry Township, Dauphin County

Dear Sir or Madam:

I am contacting you to request comment on possible impact upon natural resources within your jurisdiction. Please find enclosed one (1) copy each of the following:

- Project narrative
- USGS map
- PNDI Project Environmental Review Receipt for Service Area 5 (Project Search ID 20140922467824)
- Proposed sanitary sewer Alternatives 5A and 5B drawings
- PNDI Project Environmental Review Receipt for Service Area 6 (Project Search ID 20140922467825)
- Proposed sanitary sewer Alternative 6 drawing
- PNDI Project Environmental Review Receipt for Conveyance System (Project Search ID 20140922467832)
- Proposed sanitary sewer Alternatives 8A, 8B, 8C and 8D drawings

Please contact me if you have any questions or need further information.

Very Truly Yours,

Herbert, Rowland & Grubic, Inc.

Staci A. Tupta, E.I.T.  
Staff Professional I

SAT/vjm

001068.0430/06/A

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Enclosures

c: File (w/encl.)



**Project Narrative**  
**Act 537 Official Sewage Facilities Plan Update**  
**Londonderry Township, Dauphin County**

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Londonderry Township is currently preparing an Act 537 Plan Update that includes Sewer District Nos. 2 and 3 in their entirety, as well as a developed portion of On-Lot Management District B known as Londonderry Estates. An evaluation of existing on-lot disposal systems indicated that there is a need for improved wastewater disposal in several areas throughout the Township. The seven (7) service areas were identified based on needs derived from previous planning, number of on-lot malfunctions, well water sample results, and unsuitable soil type.

At this time, several areas are being evaluated in order to determine if the installation of a public sanitary sewer system is feasible. Although several alternatives have been evaluated for the public treatment of wastewater generated by the installation of a new sanitary sewer system, the wastewater from this project will most likely be conveyed to the Middletown Borough Authority's Wastewater Treatment Plant (MBA WWTP) and/or Derry Township Municipal Authority's Southwest Wastewater Treatment Plant (DTMA SW WWTP). Collection and conveyance alternatives being evaluated in the service areas include any of the following or a combination of: gravity sewer mains, low-pressure sewer mains and individual grinder pump units located at each residence, and installation of pumping stations and associated force mains.

All new facilities will be constructed below grade within existing roadways, access drives, and rights-of-way where feasible.

Of the seven (7) service areas, the PNDI search indicated two (2) service areas and the conveyance system as having potential impact upon natural resources within your jurisdiction. The two (2) service areas and conveyance system are indicated on the attached USGS map. Also attached are the proposed collection and conveyance alternative drawings for the two (2) service areas and the conveyance system.

The total area studied for the Act 537 Update is approximately 605 acres. The actual disturbance from the potential sewer system is unknown at this time; however, the total disturbed area for Service Areas 5 and 6 and the conveyance system was estimated based on the proposed alternative drawings. The estimated disturbed area for Service Area 5 is 10,900 linear feet or 1 acre, Service Area 6 is 14,400 linear feet of 1.3 acres, and Conveyance System is 33,500 linear feet or 3.1 acres.









# 1. PROJECT INFORMATION

Project Name: **Service Area 5**

Date of review: **9/22/2014 2:24:07 PM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Area: **56.7 acres**

County: **Dauphin Township/Municipality: Londonderry**

Quadrangle Name: **MIDDLETOWN ~ ZIP Code: 17022**

Decimal Degrees: **40.176229 N, -76.647830 W**

Degrees Minutes Seconds: **40° 10' 34.4" N, -76° 38' 52.2" W**



# 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	<b>Potential Impact</b>	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

### 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

#### PA Game Commission

**RESPONSE:** No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Department of Conservation and Natural Resources

**RESPONSE:** No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Fish and Boat Commission

**RESPONSE:** Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

**PFBC Species:** (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

**Scientific Name:** *Lampsilis cariosa*

**Common Name:** Yellow Lampmussel

**Current Status:** Special Concern Species\*

#### U.S. Fish and Wildlife Service

**RESPONSE:** No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

\* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

\*\* Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or

being susceptible to decline as a result of visitation.

## WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

### Check-list of *Minimum Materials to be submitted:*

- SIGNED** copy of this Project Environmental Review Receipt
- Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- A basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams

## 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

**5. ADDITIONAL INFORMATION**

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us)). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

**6. AGENCY CONTACT INFORMATION**

**PA Department of Conservation and Natural Resources**  
 Bureau of Forestry, Ecological Services Section  
 400 Market Street, PO Box 8552, Harrisburg, PA.  
 17105-8552  
 Fax:(717) 772-0271

**U.S. Fish and Wildlife Service**  
 Endangered Species Section  
 315 South Allen Street, Suite 322, State College, PA.  
 16801-4851  
 NO Faxes Please.

**PA Fish and Boat Commission**  
 Division of Environmental Services  
 450 Robinson Lane, Bellefonte, PA. 16823-7437  
 NO Faxes Please

**PA Game Commission**  
 Bureau of Wildlife Habitat Management  
 Division of Environmental Planning and Habitat Protection  
 2001 Elmerton Avenue, Harrisburg, PA. 17110-8797  
 Fax:(717) 787-6957

**7. PROJECT CONTACT INFORMATION**









Name: Staci Tupta  
 Company/Business Name: Herbert, Rowland & Galbic, Inc.  
 Address: 509 East Park Drive  
 City, State, Zip: Harrisburg, PA 17111  
 Phone: (717) 564-1121 Fax: (717) 564-1158  
 Email: stupta@hrg-inc.com

**8. CERTIFICATION**

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Staci Tupta 9/23/2014  
 applicant/project proponent signature date

**Alternative 5A**  
 Londonderry Township  
 Dauphin County, Pennsylvania

-  Existing Pump Station
-  Force Main Sewer
-  Gravity Sewer
-  Road
-  Railroad
-  Parcels
-  Water Body
-  Municipal Boundary



7/24/2012 PVI: JKB GIS: BLS ROD1059.0430



389 East Park Drive  
 Harrisburg, PA 17111  
 Tel: 717.634.1188  
 Fax: 717.634.1188  
 www.hrg-inc.com  
 Offices Nationwide





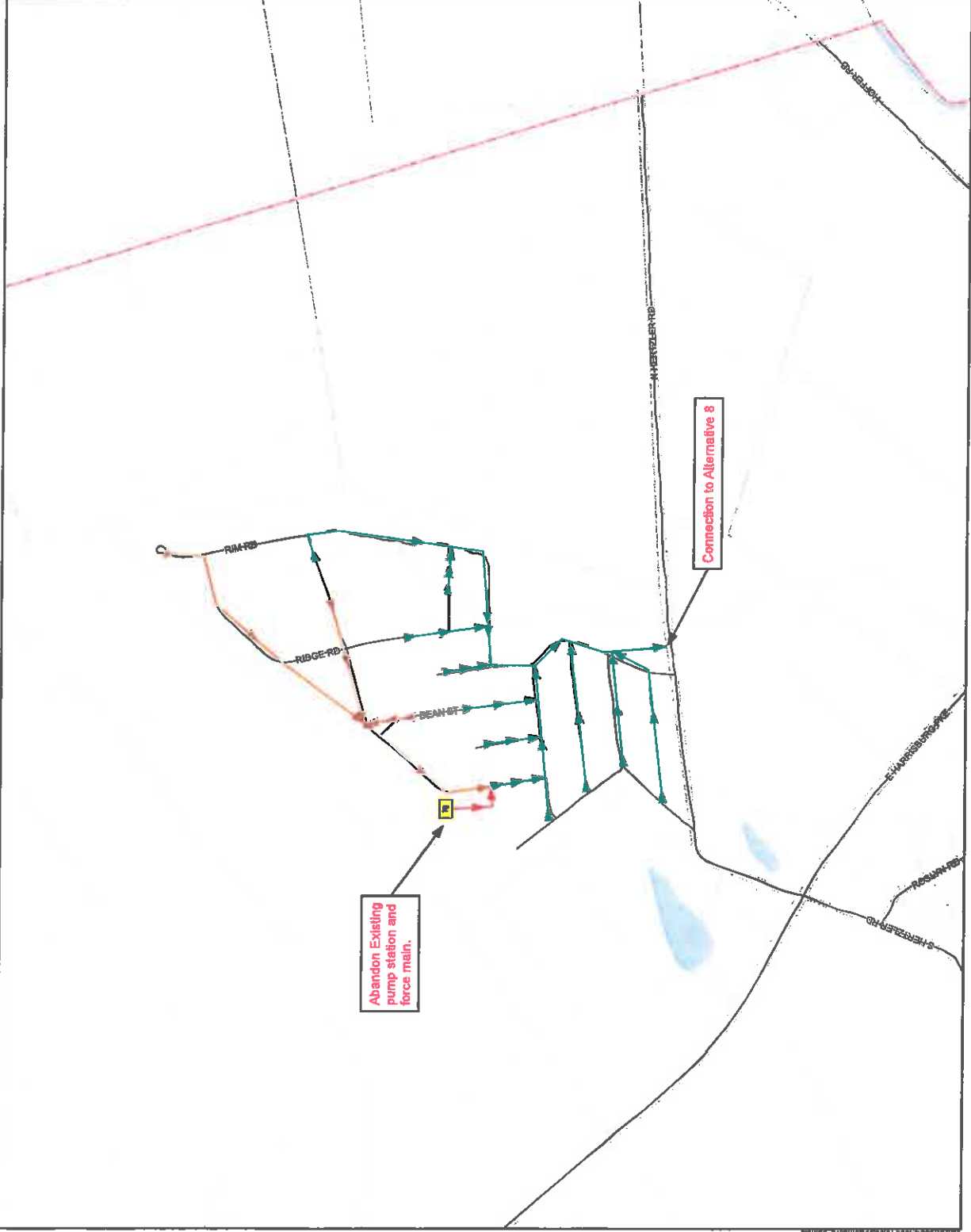
# Alternative 5B

Londonderry Township  
Dauphin County, Pennsylvania

- Existing Pump Station
- Force Main Sewer
- Gravity Sewer
- Low-Pressure Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary

500 0 500 Feet  
Mapping derived from data provided by Dauphin County and PAMAP.

7/24/2012 PVI: JKB GIS: BLS R001068.0430  
**HRG**  
HARRISBURG, PA 17111  
389 East Park Drive  
Fax: 717-884-1121  
www.hrginc.com  
Engineering & Technical Services



Abandon Existing pump station and force main.

Connection to Alternative 8





# 1. PROJECT INFORMATION

Project Name: **Service Area 6**

Date of review: **9/22/2014 2:28:10 PM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Length: **13091.4 feet**

County: **Dauphin Township/Municipality: Londonderry**

Quadrangle Name: **MIDDLETOWN ~ ZIP Code: 17022,17057**

Decimal Degrees: **40.171103 N, -76.671026 W**

Degrees Minutes Seconds: **40° 10' 16" N, -76° 40' 15.7" W**



# 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	Potential Impact	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

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#### PA Game Commission

**RESPONSE:** No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Department of Conservation and Natural Resources

**RESPONSE:** No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Fish and Boat Commission

**RESPONSE:** Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

**PFBC Species:** (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

**Scientific Name:** *Lampsilis cariosa*

**Common Name:** Yellow Lampmussel

**Current Status:** Special Concern Species\*

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 NO Faxes Please

**PA Game Commission**  
 Bureau of Wildlife Habitat Management  
 Division of Environmental Planning and Habitat Protection  
 2001 Elmerton Avenue, Harrisburg, PA. 17110-9797  
 Fax:(717) 787-6957

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Name: Staci Tupta  
 Company/Business Name: Herbert, Rowland & Grobic, Inc.  
 Address: 369 East Park Drive  
 City, State, Zip: Harrisburg, PA 17111  
 Phone: (717) 564-1120 Fax: (717) 564-1158  
 Email: stupta@hr-g-inc.com

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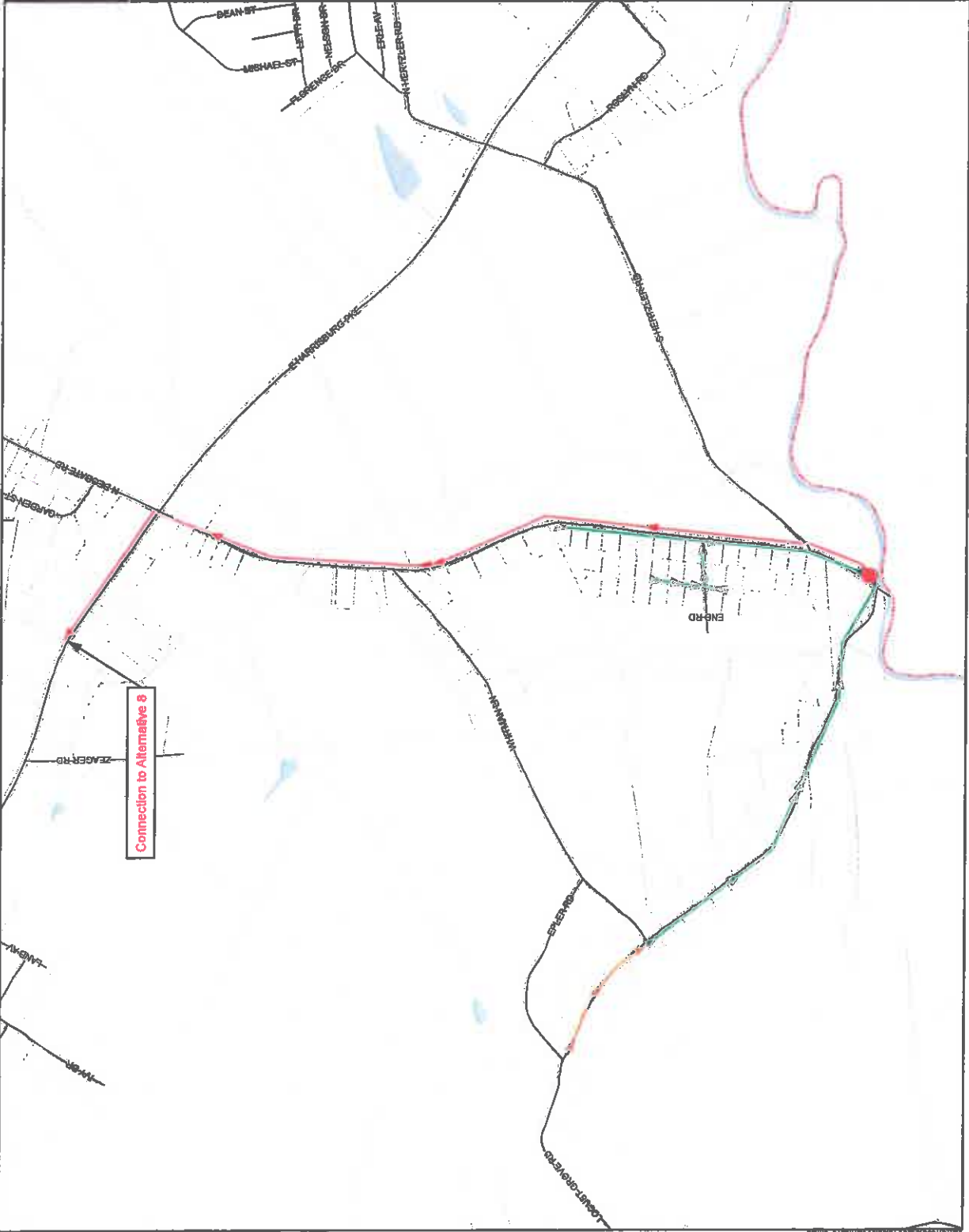
Staci Tupta \_\_\_\_\_ 9/23/2014  
 applicant/project proponent signature date

**Alternative 6**  
 Londonderry Township  
 Dauphin County, Pennsylvania

- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Low-Pressure Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary



7/24/2012 P.M.: JKB GIS: BLS R001068.0430  
**HRG**  
 365 East Park Drive  
 Harrisburg, PA 17111  
 Tel: 717.634.1125  
 Fax: 717.634.1126  
 www.hrg-inc.com  
 Engineering & Railroad Services





# 1. PROJECT INFORMATION

Project Name: **Conveyance System**

Date of review: **9/22/2014 2:38:25 PM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Length: **43963.4 feet**

County: **Dauphin Township/Municipality: Londonderry**

Quadrangle Name: **MIDDLETOWN ~ ZIP Code: 17022,17057**

Decimal Degrees: **40.217702 N, -76.731730 W**

Degrees Minutes Seconds: **40° 13' 3.7" N, -76° 43' 54.2" W**



# 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	Potential Impact	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
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#### PA Game Commission

**RESPONSE:** Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

**PGC Species:** (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

**Scientific Name:** Sensitive Species\*\*

**Common Name:**

**Current Status:** Endangered

#### PA Department of Conservation and Natural Resources

**RESPONSE:** No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Fish and Boat Commission

**RESPONSE:** Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

**PFBC Species:** (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

**Scientific Name:** *Lampsilis cariosa*

**Common Name:** Yellow Lampmussel

**Current Status:** Special Concern Species\*

## U.S. Fish and Wildlife Service

**RESPONSE:** No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.* is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

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**PA Game Commission**  
 Bureau of Wildlife Habitat Management  
 Division of Environmental Planning and Habitat Protection  
 2001 Elmerton Avenue, Harrisburg, PA. 17110-9797  
 Fax:(717) 787-6957

**7. PROJECT CONTACT INFORMATION**

Name: STACI TUPTA  
 Company/Business Name: HERBERT, ROWLAND & GRUBIC, INC.  
 Address: 369 EAST PARK DRIVE  
 City, State, Zip: HARRISBURG, PA 17111  
 Phone: (717) 564-1121 Fax: (717) 564-1158  
 Email: STUPTA.CHRG-INC.COM

**8. CERTIFICATION**

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Staci Tupta  
 applicant/project proponent signature

9/23/2014  
 date

# Alternative 8A

Londonderry Township  
Dauphin County, Pennsylvania

- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary

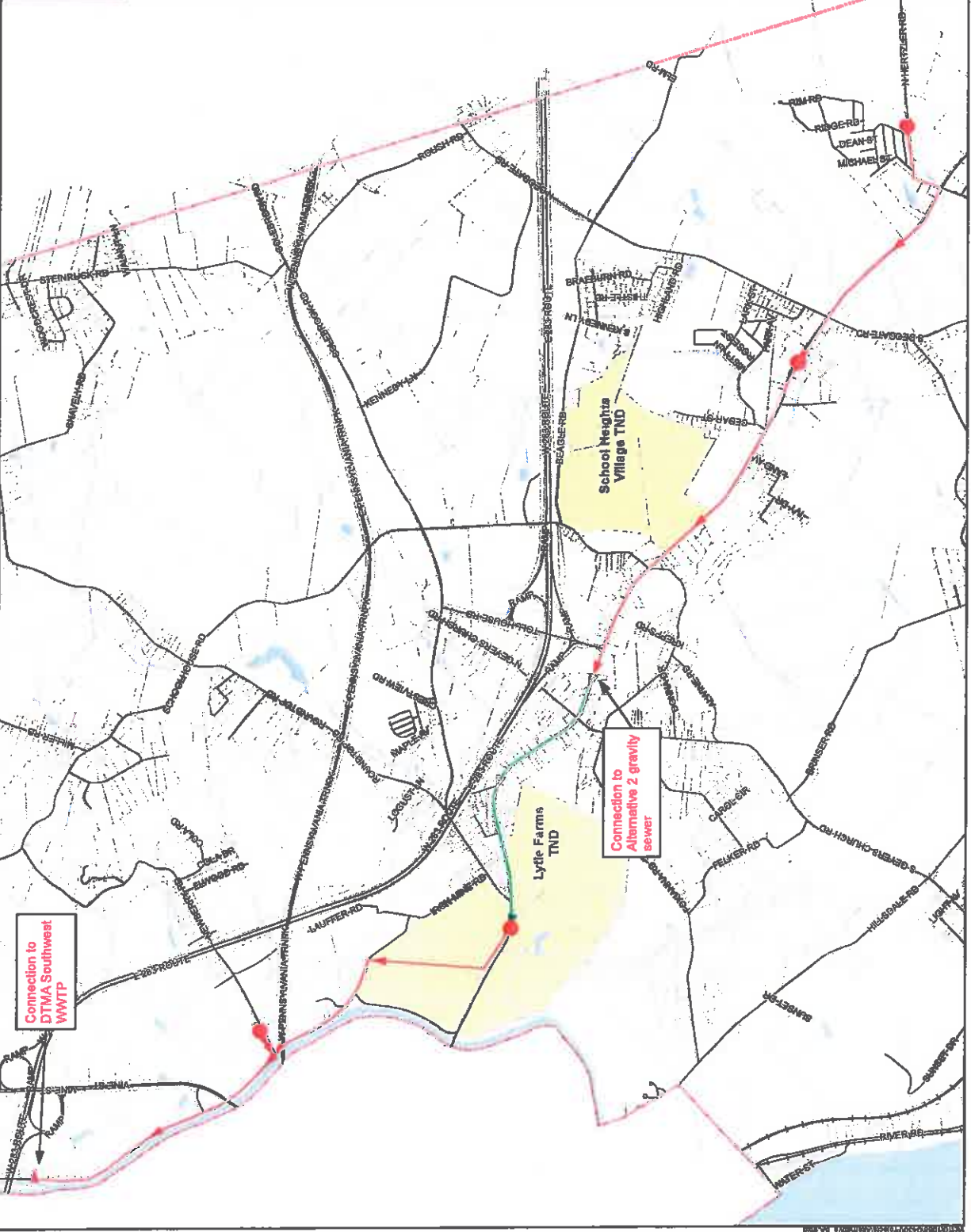


8/10/2012 PM: JKB GIS: BLS R001088.D430

300 East Park Drive  
Harrisburg, PA 17111  
Tel: 717.684.1121  
Fax: 717.684.1188  
www.hrg-inc.com  
Offices Statewide

## HRG

Engineering & Survey Services



Connection to  
DTMA Southwest  
WWTP

Connection to  
Alternative 2 gravity  
sewer

Lytle Farms  
TND

School Heights  
Village TND

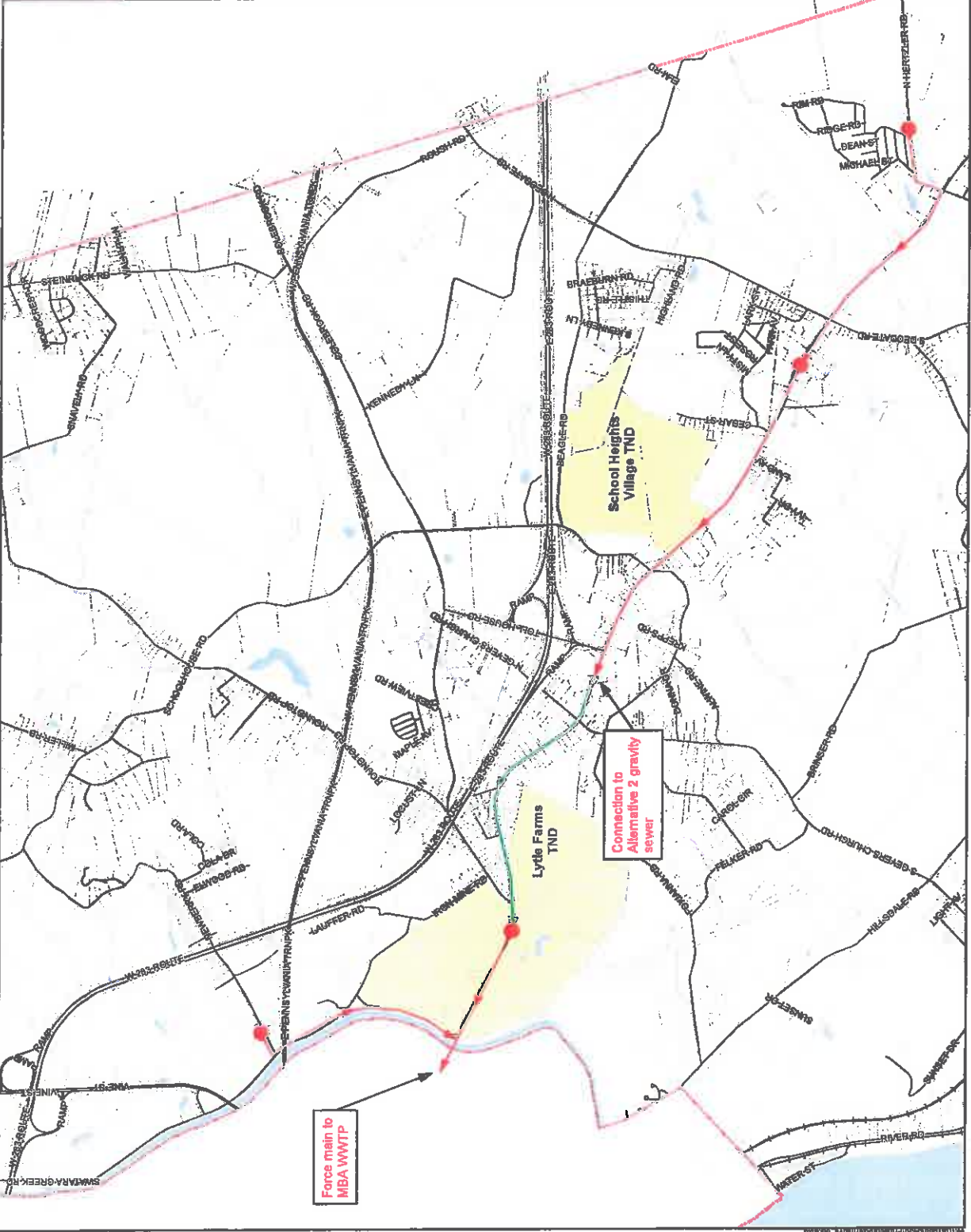


**Alternative 8B**  
**Londonderry Township**  
**Dauphin County, Pennsylvania**

- Proposed Pump Station
- Force Main Sewer
- Gravily Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary



8/10/2012 P.M.: JKB GIS: BLS R001068.0430  
 388 East Park Drive  
 Harrisburg, PA 17111  
 Fax 717 884-1158  
 www.hrg-inc.com  
 Engineering & Planning Services



Force main to  
MBA WWTP

Connection to  
Alternative 2 gravity  
sewer

Lytle Farms  
TND

School Heights  
Village TND



**Alternative 8C**  
 Londonderry Township  
 Dauphin County, Pennsylvania

- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary

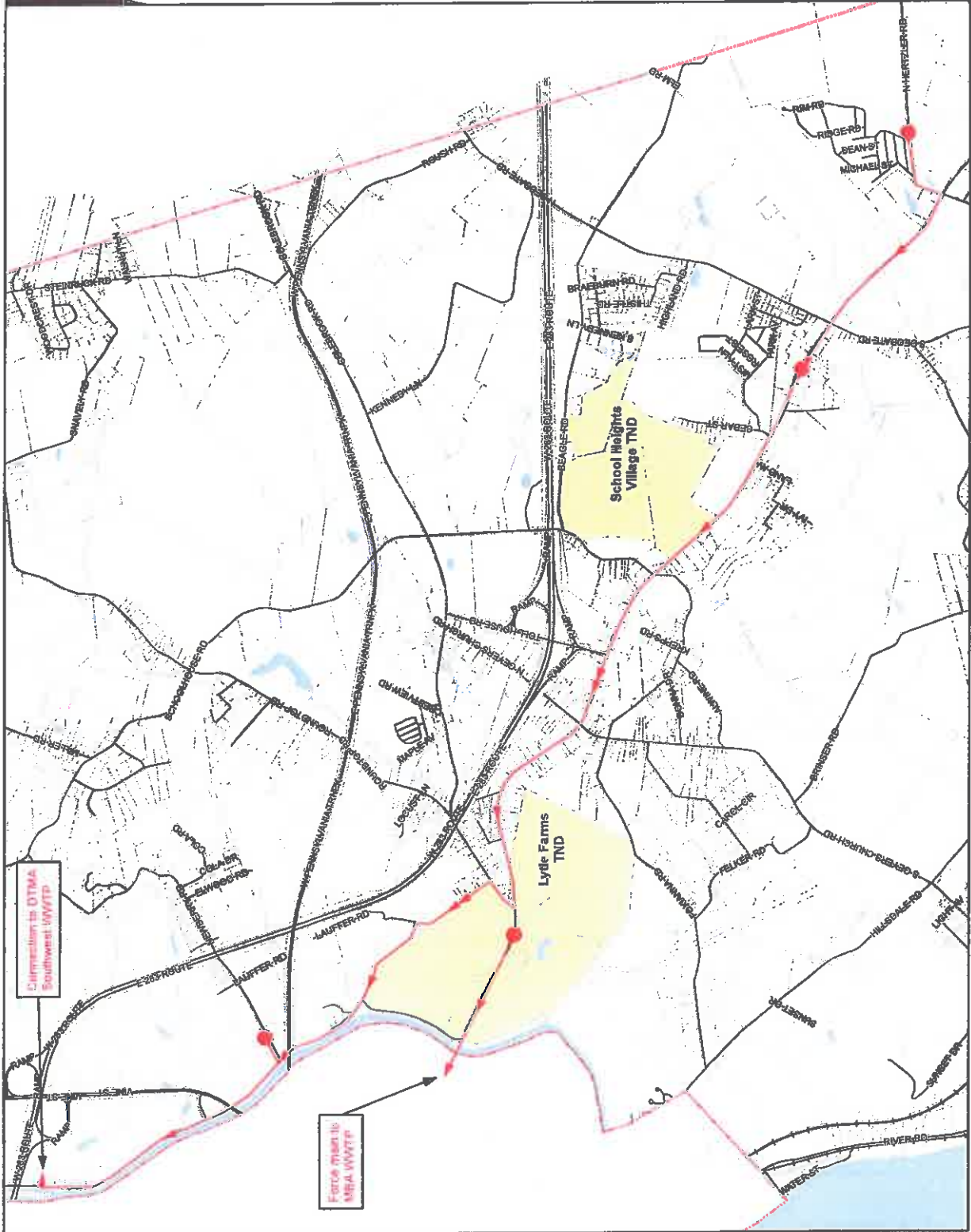


Mapping derived from data provided by Dauphin County and PAMAP.

BY: JKB GIB: BLS FRO: 068.0430

**HRG**  
 HERRINGTON GROUP, INC.  
 Engineering & Survey Services

399 East Park Drive  
 Hershey, PA 17033  
 Tel: 717.594.1121  
 Fax: 717.594.1188  
 www.hrg-inc.com  
 Offices Nationwide





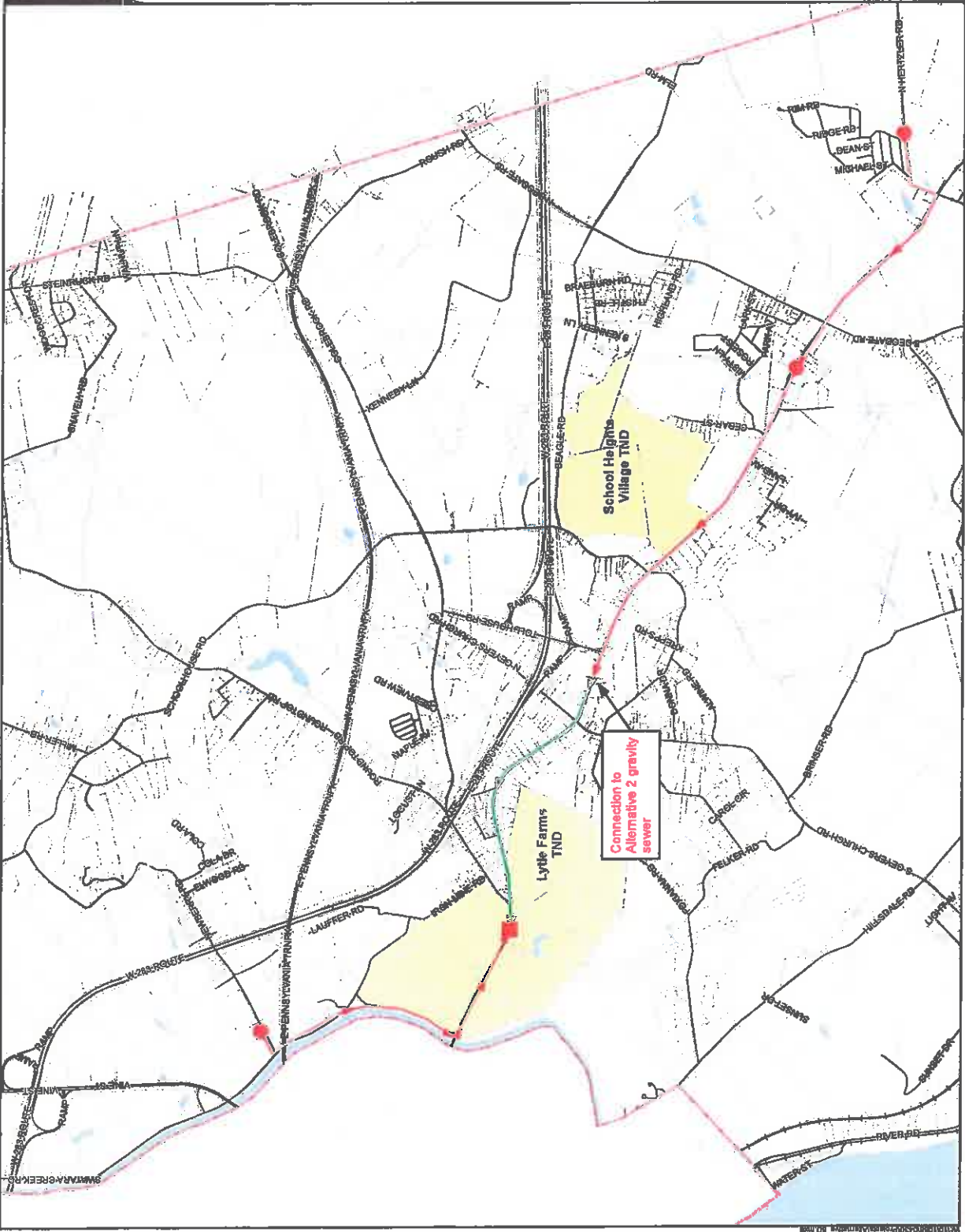


**Alternative 8D**  
**Londonderry Township**  
**Dauphin County, Pennsylvania**

- Proposed WWTP
- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary



8/10/2012 P.M.: JKB GIS: BLS R001088.0430  
 300 East Park Drive  
 Harrisburg, PA 17111  
 Fax 717-664-1181  
 www.hrg-inc.com  
 Offshore Structures  
**HRG**  
 Engineering & Related Services





7014 0510 0000 4050 5163

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Total Postage & Fees	\$

Postmark Here  
 SEP 29 2014  
 SWATARA BRANCH

Sent To  
 PA Fish and Boat Commission  
 Division of Environmental Services  
 450 Robinson Ln  
 Bellefonte, PA 16823-7437

PS Form 3811, August 2006 See Reverse for Instructions

1268 430-06-A

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature            x Dawn Jones <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) Dawn Jones C. Date of Delivery 9-29-14</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes            If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>PA Fish and Boat Commission            Division of Environmental Services            450 Robinson Ln            Bellefonte, PA 16823-7437</p>	<p>3. Service Type  <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number (Transfer from service label)</p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>7014 0510 0000 4050 5163</p>	

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540





## Pennsylvania Fish & Boat Commission

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### Division of Environmental Services

Natural Diversity Section  
450 Robinson Lane  
Bellefonte, PA 16823  
814-359-5237

October 9, 2014

#### IN REPLY REFER TO

SIR# 43253

HRG Engineering, Inc.  
Staci Tupta  
369 E. Park Drive  
Harrisburg, Pennsylvania 17111

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species  
PNDI Search No. 20140922467824  
Service Area 5  
DAUPHIN County: Londonderry Township**

Dear Staci Tupta:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search “potential conflict” or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

An element occurrence of a rare, candidate, threatened, or endangered species under our jurisdiction is known from the vicinity of the proposed project. However, given the nature of the proposed project, the immediate location, or the current status of the nearby element occurrence(s), no adverse impacts are expected to the species of special concern.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

#### Our Mission:

[www.fish.state.pa.us](http://www.fish.state.pa.us)

*To protect, conserve and enhance the Commonwealth's aquatic resources and provide fishing and boating opportunities.*

**If you have any questions regarding this review, please contact Nevin Welte at 412-586-2334 and refer to the SIR # 43253.** Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent initial "C".

Christopher A. Urban, Chief  
Natural Diversity Section

CAU/NTW/dn



## Pennsylvania Fish & Boat Commission

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### Division of Environmental Services

Natural Diversity Section

450 Robinson Lane

Bellefonte, PA 16823

814-359-5237

October 9, 2014

### IN REPLY REFER TO

SIR# 43254

HRG Engineering, Inc.  
Staci Tupta  
369 E. Park Drive  
Harrisburg, Pennsylvania 17111

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species  
PNDI Search No. 20140922467825  
Service Area 6  
DAUPHIN County: Londonderry Township**

Dear Staci Tupta:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search “potential conflict” or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

### **Freshwater Mussels**

Rare or protected freshwater mussel species are known from the vicinity of the project area. Freshwater mussels are the most imperiled taxonomic group in North America. Nearly 20% of the species historically known to occur in the Commonwealth are now extirpated (locally extinct). Additionally 60% of Pennsylvania’s remaining species are of conservation concern. We are concerned about direct and indirect (i.e., runoff) effects that the proposed project may have on the species of concern. Freshwater mussel species are extremely vulnerable to physical (i.e., siltation, dredging, trenching, rip-rap) and chemical (i.e., pH, temperature, dissolved oxygen, organic contaminants, heavy metals) changes to their aquatic environment. Therefore, we recommend construction techniques that eliminate in-stream work, sedimentation and changes to water quality. I recommend that you avoid any in-stream disturbance or water quality degradation during and after the project installation. Storm sewers and retention basins should be designed so as to minimize/remove all silt from the water before it is released into the stream. Strict erosion and sedimentation control measures, as well as best management practices should be employed.

### **Our Mission:**

[www.fish.state.pa.us](http://www.fish.state.pa.us)

*To protect, conserve and enhance the Commonwealth’s aquatic resources and provide fishing and boating opportunities.*



Provided that these recommendations are followed, in-stream work is avoided, strict E&S control measures are maintained, and best management practices are employed, we do not foresee any significant adverse impacts from the proposed activity to the freshwater mussel species of special concern.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

**If you have any questions regarding this review, please contact Nevin Welte at 412-586-2334 and refer to the SIR # 43254.** Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive, flowing style.

Christopher A. Urban, Chief  
Natural Diversity Section

CAU/NTW/dn



## Pennsylvania Fish & Boat Commission

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### Division of Environmental Services

Natural Diversity Section

450 Robinson Lane

Bellefonte, PA 16823

814-359-5237

October 9, 2014

### IN REPLY REFER TO

SIR# 43255

HRG Engineering, Inc.  
Staci Tupta  
369 E. Park Drive  
Harrisburg, Pennsylvania 17111

**RE: Species Impact Review (SIR) – Rare, Candidate, Threatened and Endangered Species  
PNDI Search No. 20140922467832  
Conveyance System  
DAUPHIN County: Londonderry Township**

Dear Staci Tupta:

This responds to your inquiry about a Pennsylvania Natural Diversity Inventory (PNDI) Internet Database search “potential conflict” or a threatened and endangered species impact review. These projects are screened for potential conflicts with rare, candidate, threatened or endangered species under Pennsylvania Fish & Boat Commission jurisdiction (fish, reptiles, amphibians, aquatic invertebrates only) using the Pennsylvania Natural Diversity Inventory (PNDI) database and our own files. These species of special concern are listed under the Endangered Species Act of 1973, the Wild Resource Conservation Act, and the Pennsylvania Fish & Boat Code (Chapter 75), or the Wildlife Code.

### **Freshwater Mussels**

Rare or protected freshwater mussel species are known from the vicinity of the project area. Freshwater mussels are the most imperiled taxonomic group in North America. Nearly 20% of the species historically known to occur in the Commonwealth are now extirpated (locally extinct). Additionally 60% of Pennsylvania’s remaining species are of conservation concern. We are concerned about direct and indirect (i.e., runoff) effects that the proposed project may have on the species of concern. Freshwater mussel species are extremely vulnerable to physical (i.e., siltation, dredging, trenching, rip-rap) and chemical (i.e., pH, temperature, dissolved oxygen, organic contaminants, heavy metals) changes to their aquatic environment. Therefore, we recommend construction techniques that eliminate in-stream work, sedimentation and changes to water quality. I recommend that you avoid any in-stream disturbance or water quality degradation during and after the project installation. Storm sewers and retention basins should be designed so as to minimize/remove all silt from the water before it is released into the stream. Strict erosion and sedimentation control measures, as well as best management practices should be employed.

### **Our Mission:**

[www.fish.state.pa.us](http://www.fish.state.pa.us)

*To protect, conserve and enhance the Commonwealth’s aquatic resources and provide fishing and boating opportunities.*

Provided that these recommendations are followed, in-stream work is avoided, strict E&S control measures are maintained, and best management practices are employed, we do not foresee any significant adverse impacts from the proposed activity to the freshwater mussel species of special concern.

This response represents the most up-to-date summary of the PNDI data and our files and is valid for two (2) years from the date of this letter. An absence of recorded species information does not necessarily imply species absence. Our data files and the PNDI system are continuously being updated with species occurrence information. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered, and consultation shall be re-initiated.

**If you have any questions regarding this review, please contact Nevin Welte at 412-586-2334 and refer to the SIR # 43255.** Thank you for your cooperation and attention to this important matter of species conservation and habitat protection.

Sincerely,

A handwritten signature in black ink that reads "Christopher A. Urban". The signature is written in a cursive style with a large, prominent "C" at the beginning.

Christopher A. Urban, Chief  
Natural Diversity Section

CAU/NTW/dn



369 East Park Drive  
Harrisburg, PA 17111  
(717) 564-1121  
FAX (717) 564-1158  
www.hrg-inc.com

VIA CERTIFIED MAIL

September 25, 2014

Pennsylvania Game Commission  
Bureau of Wildlife Habitat Management  
Division of Environmental Planning and Habitat Protection  
2001 Elmerton Avenue  
Harrisburg, Pennsylvania 17110-9797

Re: PNDI Project Environmental Review  
Londonderry Township Act 537 Plan Update  
Londonderry Township, Dauphin County

Dear Sir or Madam:

I am contacting you to request comment on possible impact upon natural resources within your jurisdiction. Please find enclosed one (1) copy each of the following:

- Project narrative
- USGS map
- PNDI Project Environmental Review Receipt for Service Area 2 (Project Search ID 20140922467810)
- Proposed sanitary sewer Alternatives 2A, 2B and 2C drawings
- PNDI Project Environmental Review Receipt for Conveyance System (Project Search ID 20140922467832)
- Proposed sanitary sewer Alternatives 8A, 8B, 8C and 8D drawings

Please contact me if you have any questions or need further information.

Very Truly Yours,

Herbert, Rowland & Grubic, Inc.

Staci A. Tupta, E.I.T.  
Staff Professional I

SAT/vjm  
001068.0430/06/A

F:\0010\001068\_0430\Admin\Clearrances\PNDI\2014.09.25 PA Game Cover Letter.docx

Enclosures

c: File (w/encl.)



**Project Narrative**  
**Act 537 Official Sewage Facilities Plan Update**  
**Londonderry Township, Dauphin County**

---

Londonderry Township is currently preparing an Act 537 Plan Update that includes Sewer District Nos. 2 and 3 in their entirety, as well as a developed portion of On-Lot Management District B known as Londonderry Estates. An evaluation of existing on-lot disposal systems indicated that there is a need for improved wastewater disposal in several areas throughout the Township. The seven (7) service areas were identified based on needs derived from previous planning, number of on-lot malfunctions, well water sample results, and unsuitable soil type.

At this time, several areas are being evaluated in order to determine if the installation of a public sanitary sewer system is feasible. Although several alternatives have been evaluated for the public treatment of wastewater generated by the installation of a new sanitary sewer system, the wastewater from this project will most likely be conveyed to the Middletown Borough Authority's Wastewater Treatment Plant (MBA WWTP) and/or Derry Township Municipal Authority's Southwest Wastewater Treatment Plant (DTMA SW WWTP). Collection and conveyance alternatives being evaluated in the service areas include any of the following or a combination of: gravity sewer mains, low-pressure sewer mains and individual grinder pump units located at each residence, and installation of pumping stations and associated force mains.

All new facilities will be constructed below grade within existing roadways, access drives, and rights-of-way where feasible.

Of the seven (7) service areas, the PNDI search indicated one (1) service area and the conveyance system as having potential impact upon natural resources within your jurisdiction. The one (1) service area and conveyance system are indicated on the attached USGS map. Also attached are the proposed collection and conveyance alternative drawings for the one (1) service area and the conveyance system.

The total area studied for the Act 537 Update is approximately 605 acres. The actual disturbance from the potential sewer system is unknown at this time; however, the total disturbed area for Service Area 2 and the Conveyance System was estimated based on the proposed alternative drawings. The estimated disturbed area for Service Area 2 is 23,800 linear feet or 2.2 acres and the Conveyance System is 33,500 linear feet of 3.1 acres.





SERVICE AREA 2

CONVEYANCE SYSTEM  
(DASHED LINE)

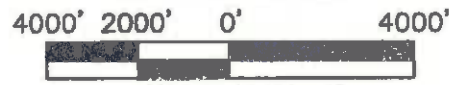
MIDDLETOWN

SUSQUEHANNA RIVER



MIDDLETOWN QUADRANGLE

GRAPHIC SCALE



SCALE: 1" = 4000'

**HRG**  
Engineering & Related Services  
AN EMPLOYEE-OWNED COMPANY

869 East Park Drive  
Harrisburg, PA 17111  
Tel: (717) 664-1121  
Fax: (717) 664-1188  
hr@hrginc.com  
www.hrg-inc.com

**ACT 537 PLAN SERVICE AREAS  
FOR  
LONDONDERRY TOWNSHIP**

LONDONDERRY TOWNSHIP DAUPHIN COUNTY PENNSYLVANIA

PROJ. MGR. - MDC  
DESIGN - SAT  
CADD - RSF  
CHECKED -  
SCALE - AS NOTED  
DATE - SEPT. 2014

DRAWING NO.  
**1**  
SHEET NO.  
**1 OF 1**  
PROJECT 001008.0430

File name: P:\2010\act537\act537plan\londonderry.dwg Layer: 1 Sep 28, 2014 10:10am





### 1. PROJECT INFORMATION

Project Name: **Service Area 2**

Date of review: **9/22/2014 1:57:39 PM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Area: **153.5 acres**

County: **Dauphin Township/Municipality: Londonderry**

Quadrangle Name: **MIDDLETOWN ~ ZIP Code: 17057**

Decimal Degrees: **40.199422 N, -76.700216 W**

Degrees Minutes Seconds: **40° 11' 57.9" N, -76° 42' 0.8" W**



### 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	Potential Impact	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
PA Department of Conservation and Natural Resources	Potential Impact	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

### 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

#### PA Game Commission

**RESPONSE:** Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

**PGC Species:** (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

**Scientific Name:** Sensitive Species\*\*

**Common Name:**

**Current Status:** Endangered

#### PA Department of Conservation and Natural Resources

**RESPONSE:** Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

**DCNR Species:** (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here: [http://www.gis.dcnr.state.pa.us/hgis-er/PNDI\\_DCNR.aspx](http://www.gis.dcnr.state.pa.us/hgis-er/PNDI_DCNR.aspx).)

**Scientific Name:** Rudbeckia fulgida

**Common Name:** Eastern Coneflower

**Current Status:** Special Concern Species\*

**Proposed Status:** Threatened

#### PA Fish and Boat Commission

**RESPONSE:** No impact is anticipated to threatened and endangered species and/or special concern

species and resources.

## U.S. Fish and Wildlife Service

**RESPONSE:** No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

\* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

\*\* Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

## WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

### Check-list of *Minimum Materials to be submitted:*

- SIGNED copy of this Project Environmental Review Receipt
- Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted:
- Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- A basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams

## 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

**5. ADDITIONAL INFORMATION**

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us)). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

**6. AGENCY CONTACT INFORMATION**

**PA Department of Conservation and Natural Resources**  
 Bureau of Forestry, Ecological Services Section  
 400 Market Street, PO Box 8552, Harrisburg, PA.  
 17105-8552  
 Fax:(717) 772-0271

**U.S. Fish and Wildlife Service**  
 Endangered Species Section  
 315 South Allen Street, Suite 322, State College, PA.  
 16801-4851  
 NO Faxes Please.

**PA Fish and Boat Commission**  
 Division of Environmental Services  
 450 Robinson Lane, Bellefonte, PA. 16823-7437  
 NO Faxes Please

**PA Game Commission**  
 Bureau of Wildlife Habitat Management  
 Division of Environmental Planning and Habitat Protection  
 2001 Elmerton Avenue, Harrisburg, PA. 17110-9797  
 Fax:(717) 787-6957

**7. PROJECT CONTACT INFORMATION**

Name: STACI TUPTA  
 Company/Business Name: HERBERT, ROWLAND & GRUBIC, INC.  
 Address: 369 EAST PARK DRIVE  
 City, State, Zip: HARRISBURG, PA 17111  
 Phone: (717) 564-1121 Fax: (717) 564-1158  
 Email: STUPTA@HRLG-INC.COM

**8. CERTIFICATION**

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

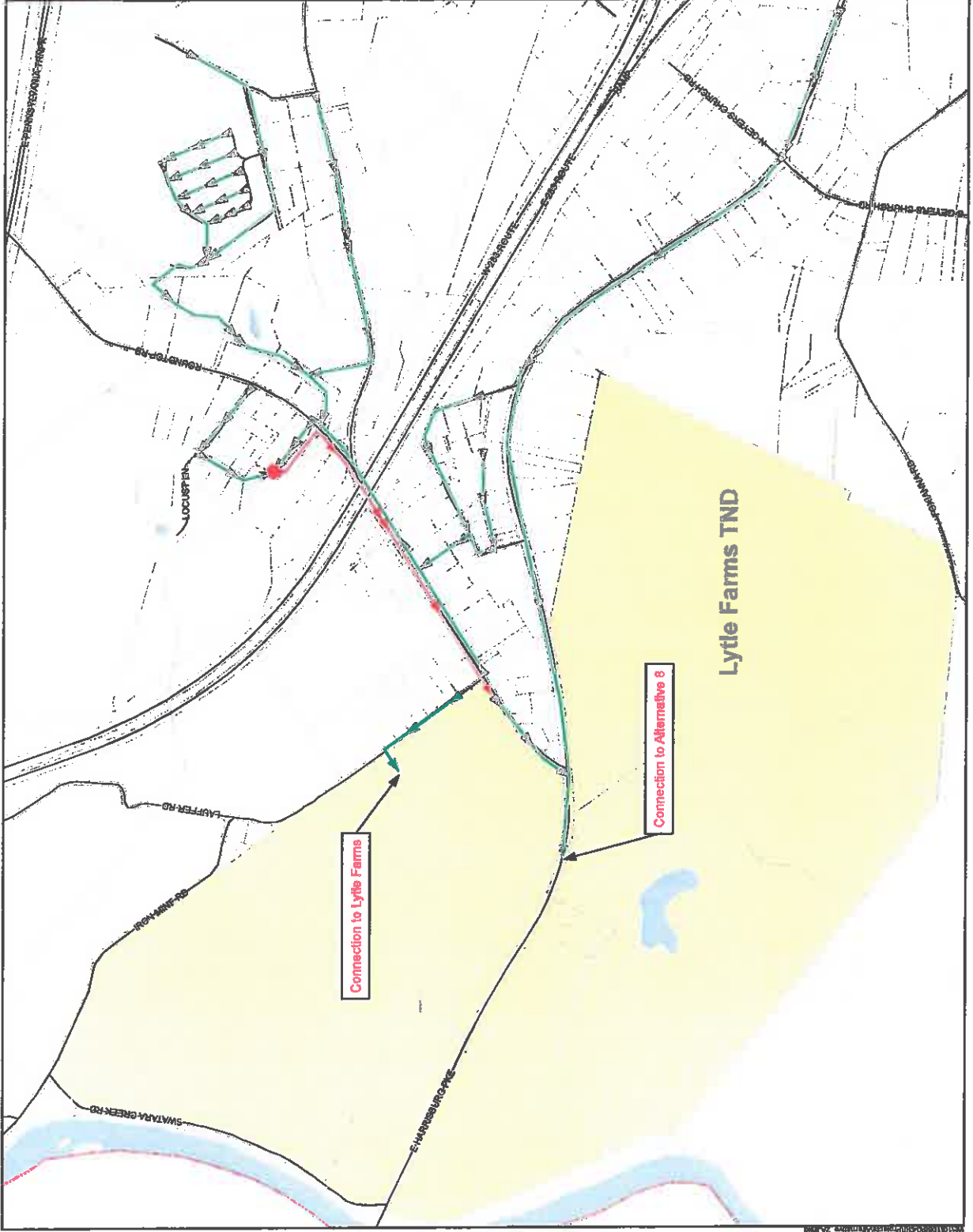
Staci Tupta 9/23/2014  
 applicant/project proponent signature date

**Alternative 2A**  
 Londonderry Township  
 Dauphin County, Pennsylvania

- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary

0 300 600 Feet  
 Mapping derived from data provided by Dauphin County and PAMAP.

01/07/2012 PM: JKB GIS: BLS R001008.0439  
 388 East Park Drive  
 Harrisburg, PA 17111  
 717.584.1121  
 Fax 717.584.1158  
 www.hrg-inc.com  
 Engineering & Technical Services



Connection to Lytle Farms

Connection to Alternative 8

Lytle Farms TND

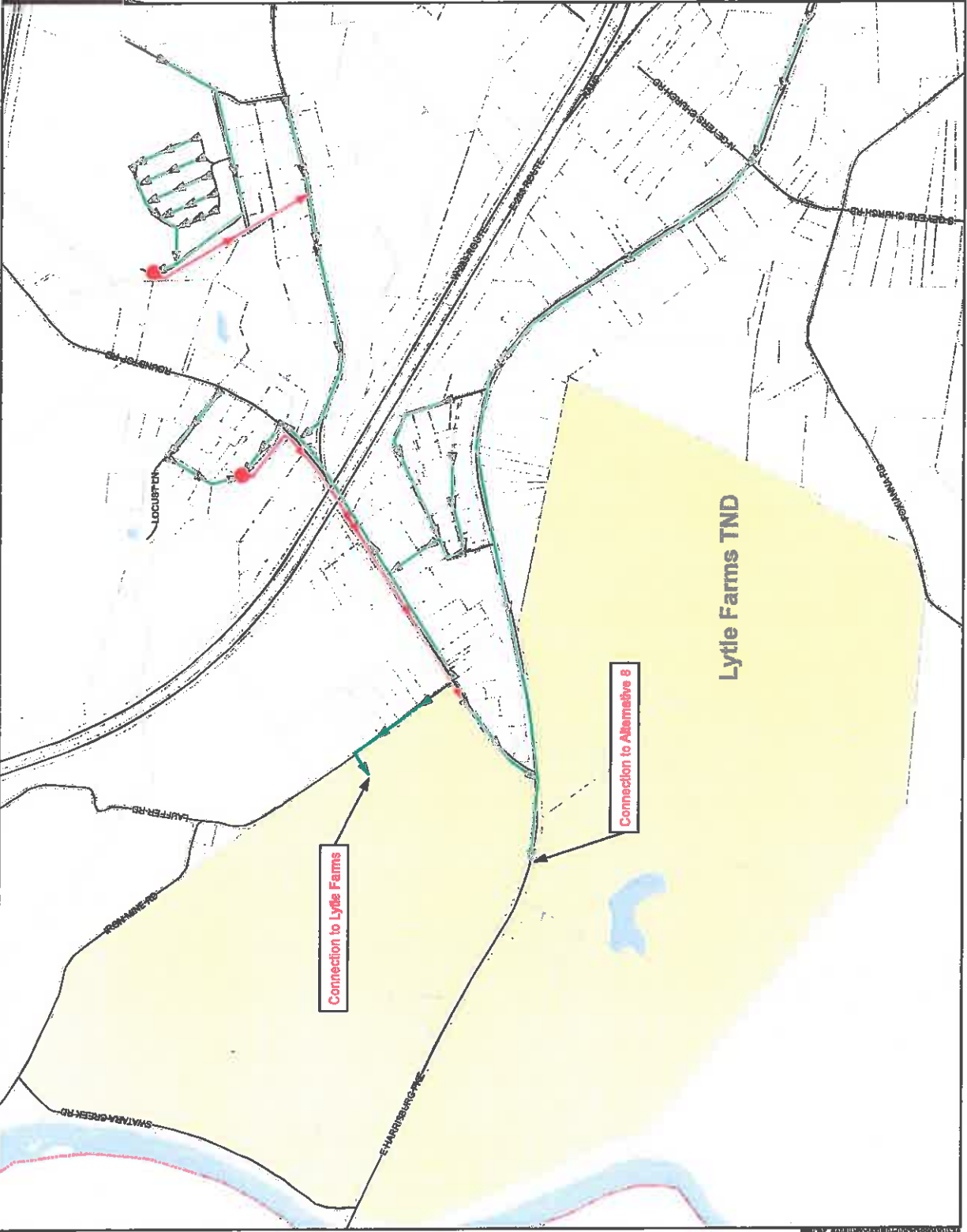


**Alternative 2B**  
 Londonderry Township  
 Dauphin County, Pennsylvania

- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary



8/10/2012 PH: JGB GIS: BLS R001066.0430  
**HRG**  
 388 East Park Drive  
 Harrisburg, PA 17104-1121  
 Fax 717.684.1158  
 www.hrg-inc.com  
 Engineering & Technical Services  
 Office: Statewide







**Alternative 2C**  
 Londonderry Township  
 Dauphin County, Pennsylvania

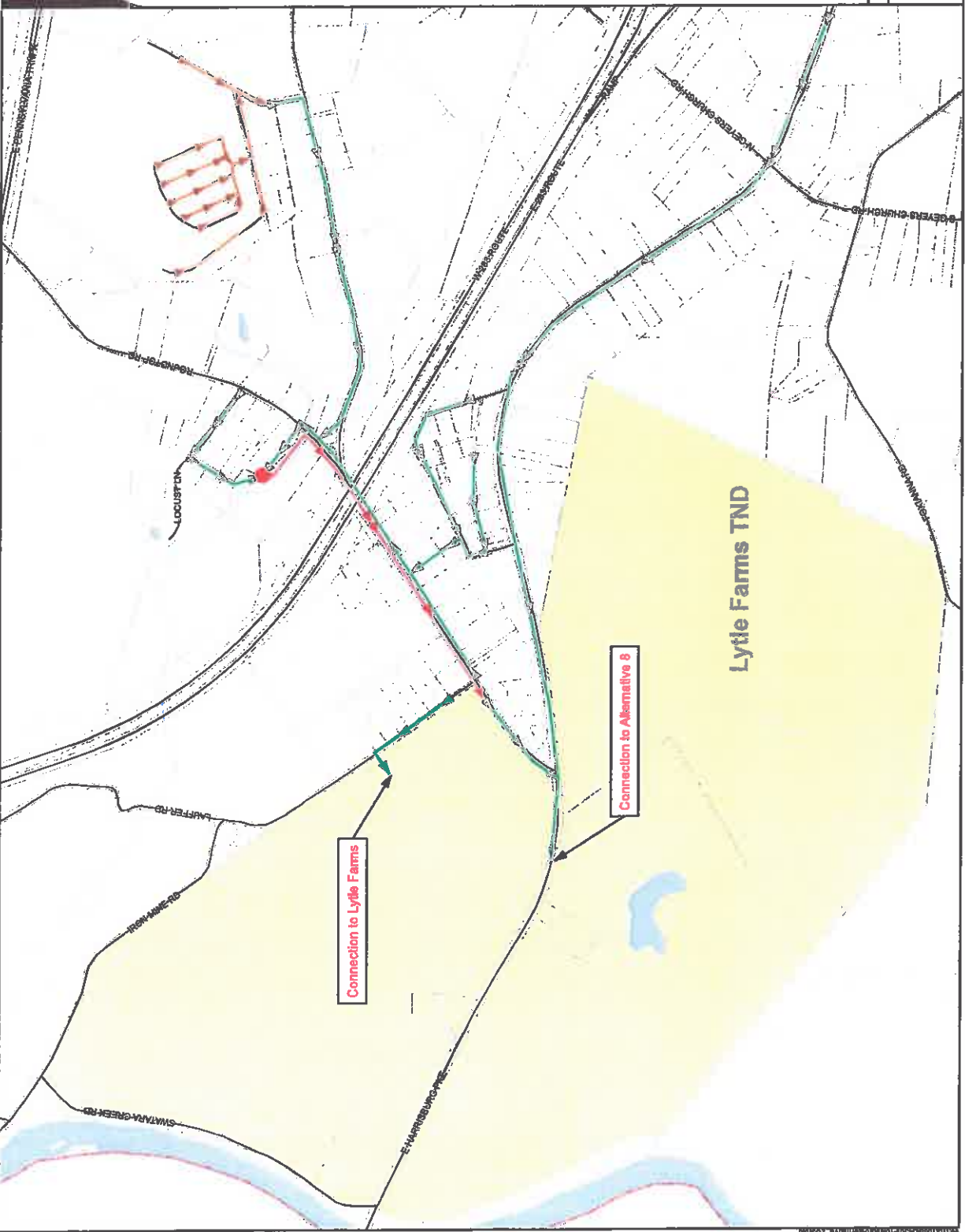
- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Low-Pressure Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary

600 0 600 Feet  
 Mapping derived from data provided by Dauphin County and PANMAP.

8/10/2012 P/N: JKB GIS: BLS R001065\_0430

**HRG**  
 HERRING RIVER GROUP  
 Engineering & Railroad Services

389 East Park Drive  
 Harrisburg, PA 17111  
 Fax 717.584.1158  
 www.hrg-inc.com  
 Office Nationwide





# 1. PROJECT INFORMATION

Project Name: **Conveyance System**

Date of review: **9/22/2014 2:38:25 PM**

Project Category: **Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewage module/Act 537 plan**

Project Length: **43963.4 feet**

County: **Dauphin Township/Municipality: Londonderry**

Quadrangle Name: **MIDDLETOWN ~ ZIP Code: 17022,17057**

Decimal Degrees: **40.217702 N, -76.731730 W**

Degrees Minutes Seconds: **40° 13' 3.7" N, -76° 43' 54.2" W**



# 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	Potential Impact	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	Potential Impact	<b>FURTHER REVIEW IS REQUIRED, See Agency Response</b>
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

### 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

#### PA Game Commission

**RESPONSE:** Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

**PGC Species:** (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

**Scientific Name:** Sensitive Species\*\*

**Common Name:**

**Current Status:** Endangered

#### PA Department of Conservation and Natural Resources

**RESPONSE:** No impact is anticipated to threatened and endangered species and/or special concern species and resources.

#### PA Fish and Boat Commission

**RESPONSE:** Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

**PFBC Species:** (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below.)

**Scientific Name:** *Lampsilis cariosa*

**Common Name:** Yellow Lampmussel

**Current Status:** Special Concern Species\*

## U.S. Fish and Wildlife Service

**RESPONSE:** No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

\* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.

\*\* Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

## WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

### Check-list of *Minimum* Materials to be submitted:

- SIGNED** copy of this Project Environmental Review Receipt
- Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- Project location information (name of USGS Quadrangle, Township/Municipality, and County)
- USGS 7.5-minute Quadrangle with project boundary clearly indicated, and quad name on the map

The inclusion of the following information may expedite the review process.

- A basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams

## 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <http://www.naturalheritage.state.pa.us>.

**5. ADDITIONAL INFORMATION**

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page ([www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us)). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

**6. AGENCY CONTACT INFORMATION**

**PA Department of Conservation and Natural Resources**  
 Bureau of Forestry, Ecological Services Section  
 400 Market Street, PO Box 8552, Harrisburg, PA.  
 17105-8552  
 Fax:(717) 772-0271

**U.S. Fish and Wildlife Service**  
 Endangered Species Section  
 315 South Allen Street, Suite 322, State College, PA.  
 16801-4851  
 NO Faxes Please.

**PA Fish and Boat Commission**  
 Division of Environmental Services  
 450 Robinson Lane, Bellefonte, PA. 16823-7437  
 NO Faxes Please

**PA Game Commission**  
 Bureau of Wildlife Habitat Management  
 Division of Environmental Planning and Habitat Protection  
 2001 Elmerton Avenue, Harrisburg, PA. 17110-9797  
 Fax:(717) 787-6957

**7. PROJECT CONTACT INFORMATION**

Name: STACI TUPTA  
 Company/Business Name: HERBERT ROWLAND & GRUBIC, INC.  
 Address: 369 PAST PARK DRIVE  
 City, State, Zip: HARRISBURG, PA 17111  
 Phone: (717) 564-1121 Fax: (717) 564-1158  
 Email: STUPTA@HRG-INC.COM

**8. CERTIFICATION**

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

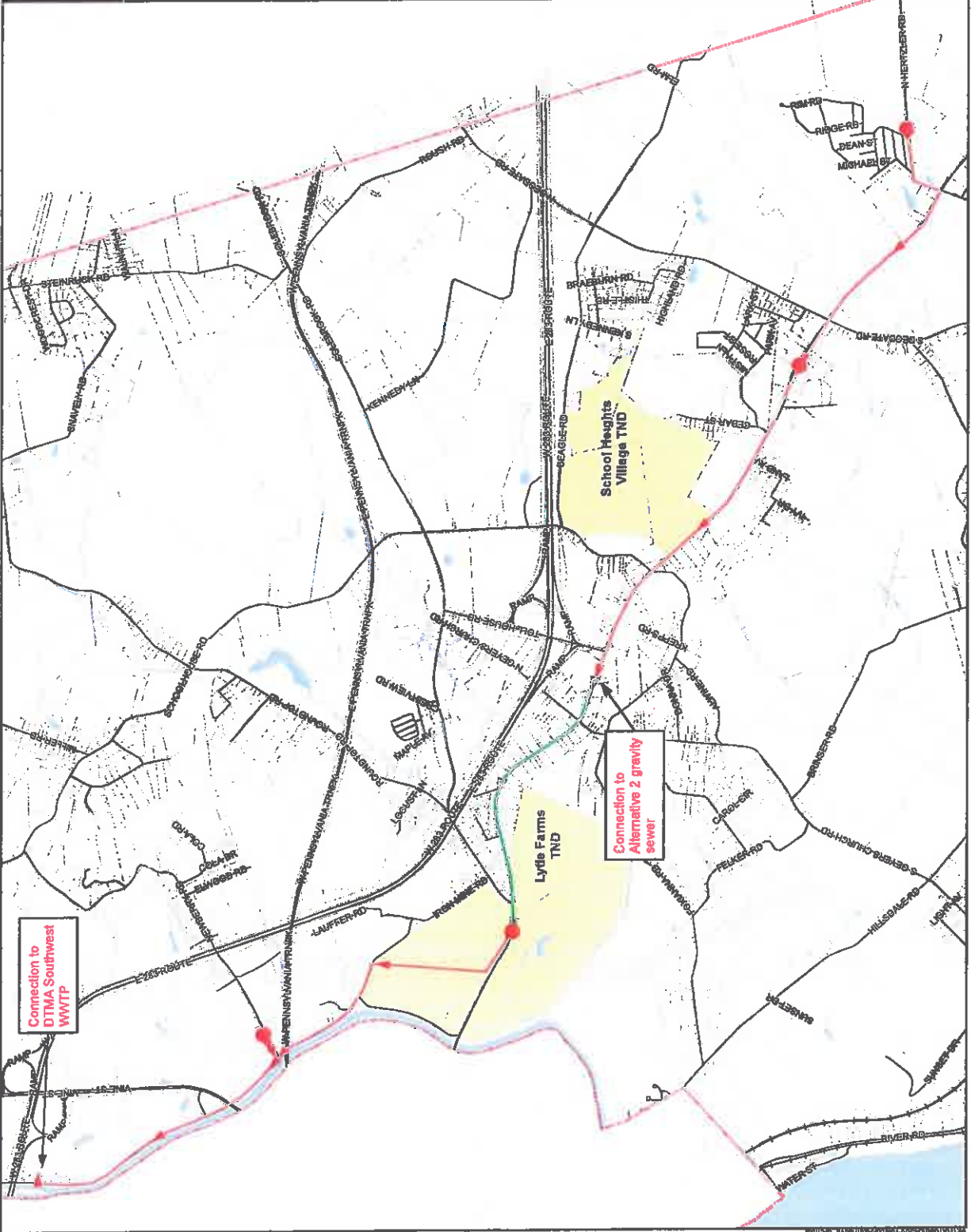
Staci Tupta 9/23/2014  
 applicant/project proponent signature date

**Alternative 8A**  
 Londonderry Township  
 Dauphin County, Pennsylvania

- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary



8/10/2012 PM: JKB CSE: ELS R001069.0450  
 508 East Park Drive  
 Harrisburg, PA 17111  
 Tel: 717.644.1121  
 Fax: 717.644.1188  
 www.hrg-inc.com  
 Office: Statewide  
**HRG**  
 Engineering & Technical Services







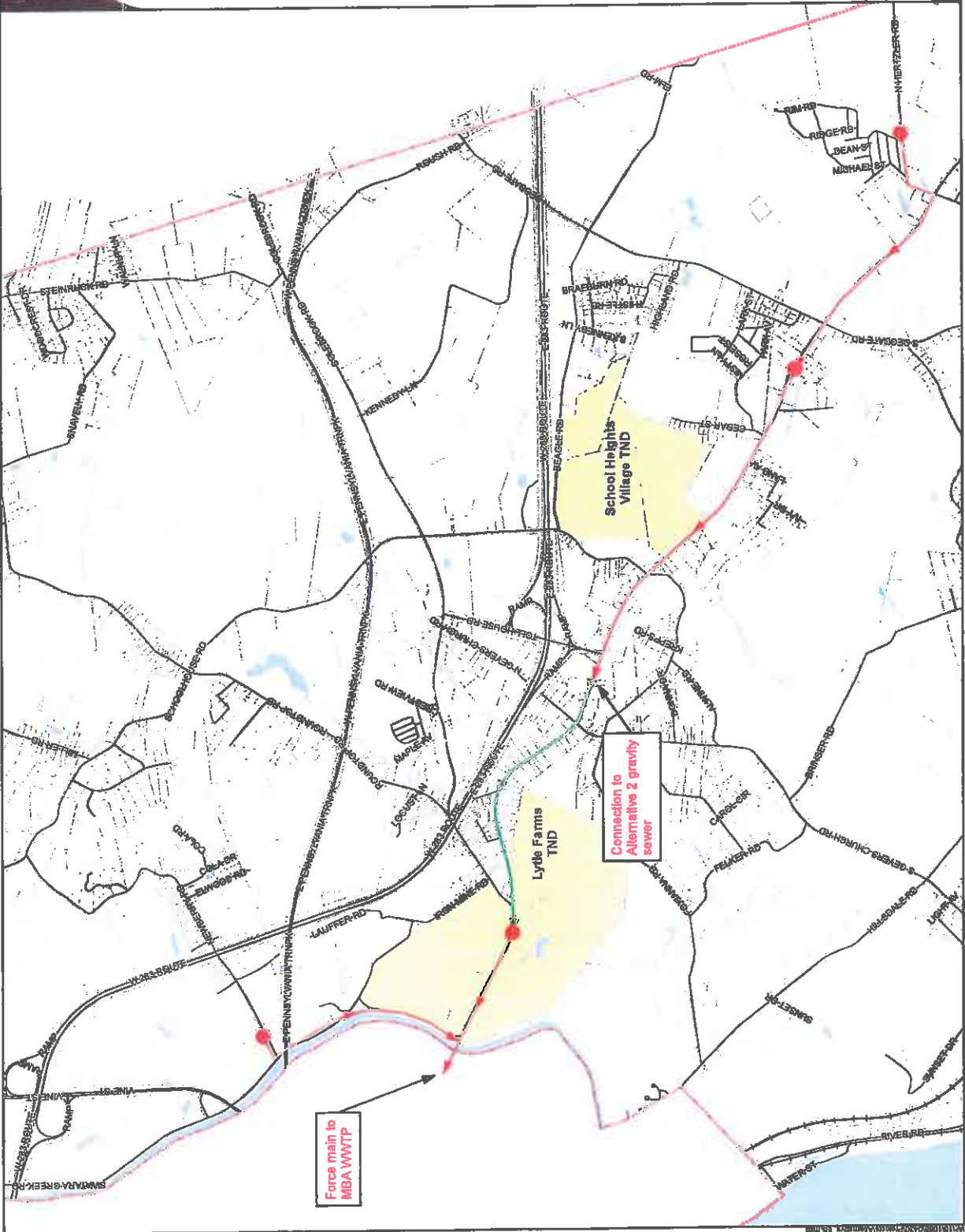
**Alternative 8B**  
**Londonderry Township**  
**Dauphin County, Pennsylvania**

- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary



Mapping derived from data provided by Dauphin County and PAMAP.

8/10/2012 PM: JKB GIS: BLS R001089.0430  
 389 East Park Drive  
 Harrisburg, PA 17111  
 717.684.1121  
 Fax: 717.684.1188  
 www.hrg-inc.com  
**HRG**  
 Engineering & Architect Services



Force main to  
MBA WWTP

Connection to  
Alternative 2 gravity  
sewer

Lytle Farms  
TND

School Heights  
Village TND

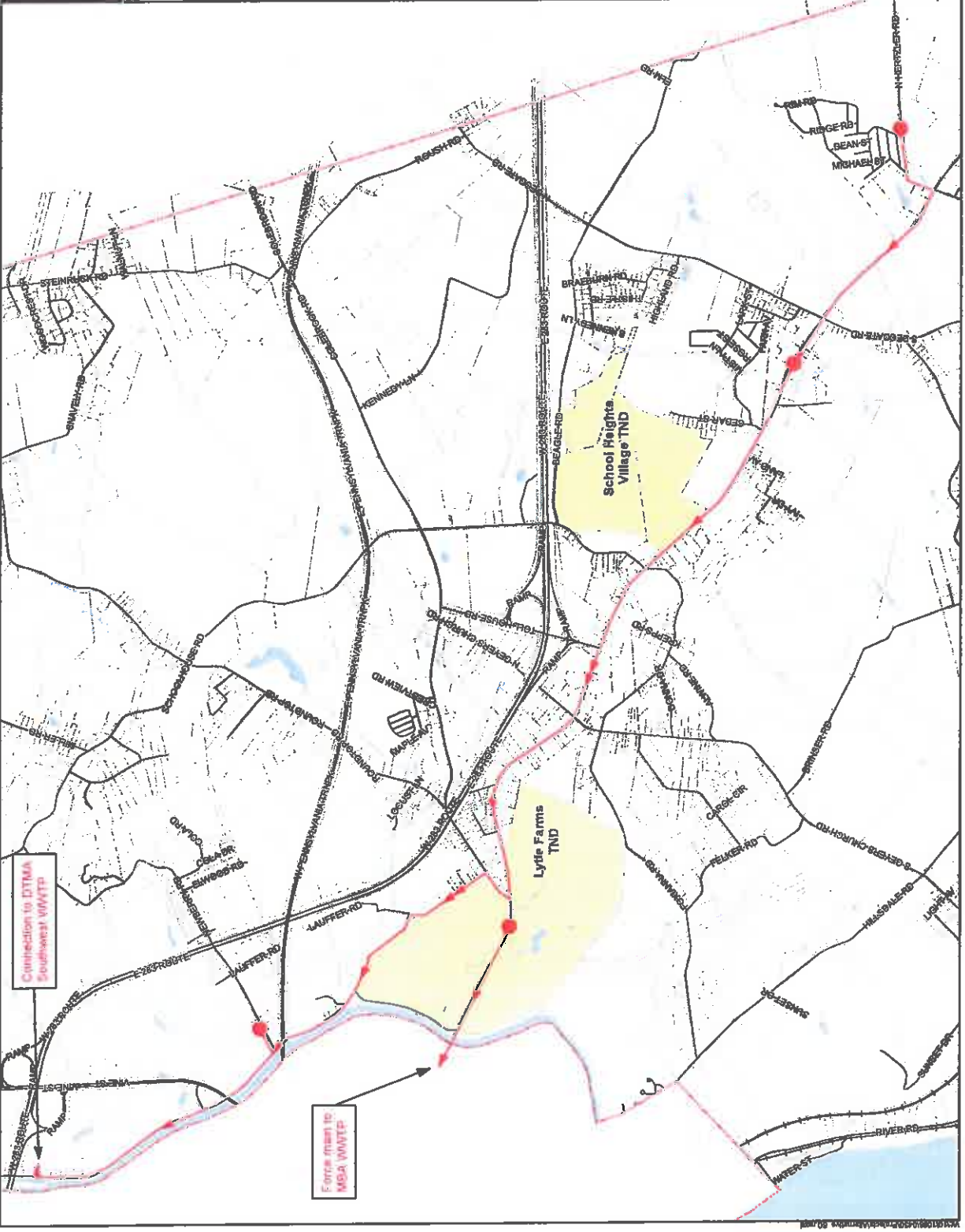


**Alternative 8C**  
**Londonderry Township**  
**Dauphin County, Pennsylvania**

- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary



8/10/2012 PH: JKB GIS: BLS R001069.0430  
 348 East Park Drive  
 Harrisburg, PA 17111  
 717.664.1123  
 Fax 717.664.1188  
 www.hrg-inc.com  
 Offshore Services  
**HRG**  
 Engineering a Shared Service



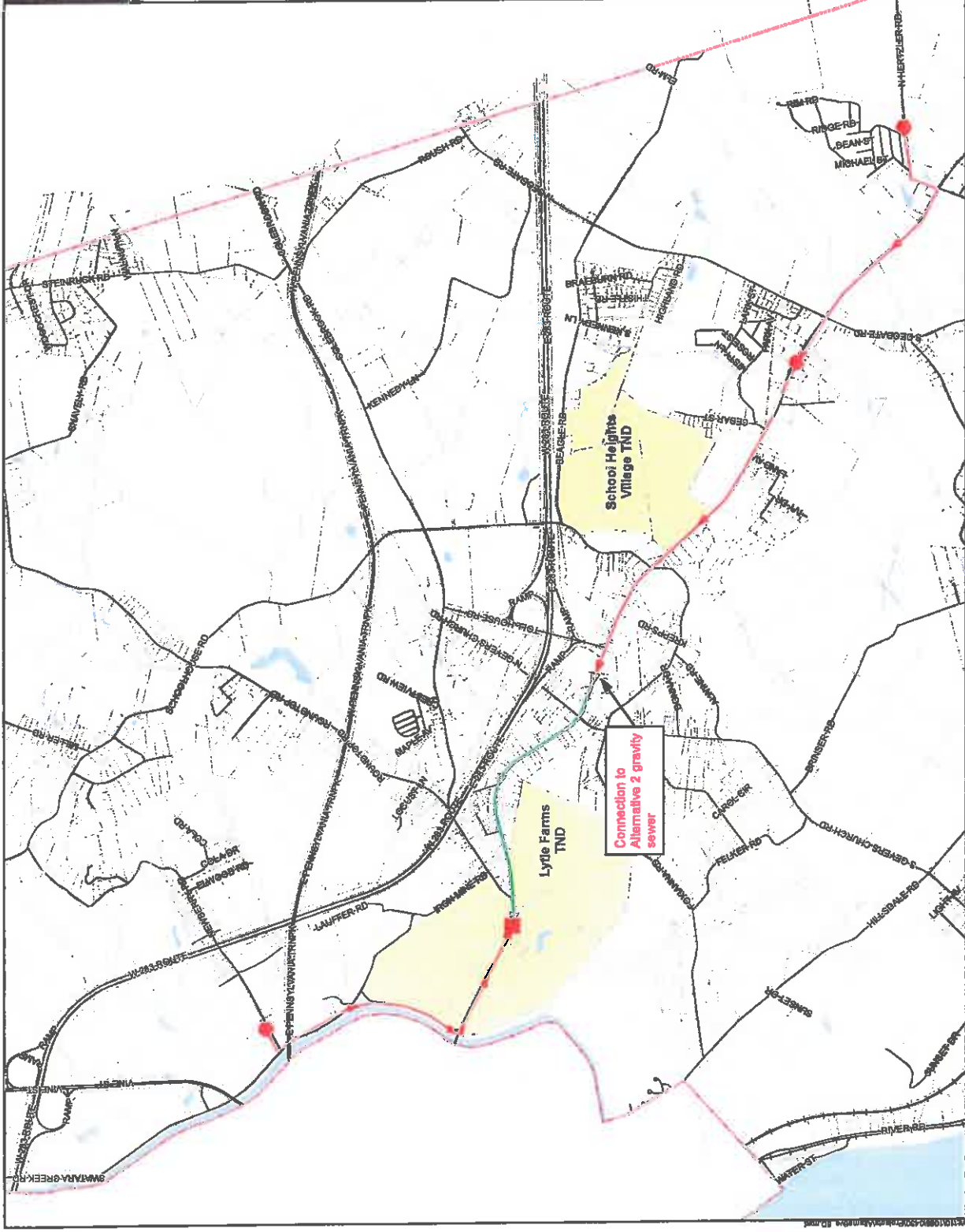


**Alternative 8D**  
 Londonderry Township  
 Dauphin County, Pennsylvania

- Proposed WWTP
- Proposed Pump Station
- Force Main Sewer
- Gravity Sewer
- Road
- Railroad
- Parcels
- Water Body
- Municipal Boundary



8/10/2012 PIM: JKB GMS: BLS R001069.0430  
 380 East Park Drive  
 Harrisburg, PA 17101  
 Tel: 717.564.1121  
 Fax: 717.564.1188  
 www.hrg-inc.com  
 Office: Statewide  
**HRG**  
 Engineering & Professional Services





7014 0510 0000 4050 5149

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Total Postage & Fees	\$

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 USPS SWATARA BRANCH  
 8056-1711-9797

Sent To: PA Game Commission  
 Bureau of Wildlife Habitat Management  
 Div of Env Planning & Habitat Protection  
 2001 Elmerton Ave  
 Harrisburg, PA 17110-9797

PS Form 3800, August 2006 See Reverse for Instructions

1068.430-06-A

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <input type="checkbox"/> C. Date of Delivery</p> <p>D. Is delivery address different from Item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>PA Game Commission          Bureau of Wildlife Habitat Management          Div of Env Planning &amp; Habitat Protection          2001 Elmerton Ave          Harrisburg, PA 17110-9797</p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number          (Transfer from service label)</p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>7014 0510 0000 4050 5149</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>	







Division of Environmental  
Planning and Habitat  
Protection  
717-783-5957

COMMONWEALTH OF PENNSYLVANIA  
**Pennsylvania Game Commission**  
2001 ELMERTON AVENUE  
HARRISBURG, PA 17110-9797

*"To manage all wild birds, mammals and their habitats  
for current and future generations."*

**ADMINISTRATIVE BUREAUS:**

ADMINISTRATION.....	717-787-5670
HUMAN RESOURCES.....	717-787-7836
FISCAL MANAGEMENT.....	717-787-7314
CONTRACTS AND PROCUREMENT.....	717-787-6594
LICENSING.....	717-787-2084
OFFICE SERVICES.....	717-787-2116
WILDLIFE MANAGEMENT.....	717-787-5529
INFORMATION & EDUCATION.....	717-787-6286
WILDLIFE PROTECTION.....	717-783-6526
WILDLIFE HABITAT MANAGEMENT.....	717-787-6818
REAL ESTATE DIVISION.....	717-787-6568
AUTOMATED TECHNOLOGY SERVICES.....	717-787-4076

[www.pgc.state.pa.us](http://www.pgc.state.pa.us)

September 30, 2014

PNDI Number: 20140922467810

Ms. Staci Tupta  
Herbert, Rowland & Grubic, Inc.  
369 East Park Drive  
Harrisburg, Pennsylvania 17111

Re: Service Area 2  
Londonderry Township, Dauphin County, PA

Dear Ms. Tupta,

Thank you for submitting the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number 20140922467810 for review. The Pennsylvania Game Commission (PGC) screened this project for potential impacts to species and resources of concern under PGC responsibility, which includes birds and mammals only.

**No Impact Anticipated**

PNDI records indicate species or resources of concern are located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, the PGC has determined that no impact is likely. Therefore, no further coordination with the PGC will be necessary for this project at this time.

This response represents the most up-to-date summary of the PNDI data files and is valid for two (2) years from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on site. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered.

Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). If the proposed work has not changed and no additional information concerning listed species is found, the project will be cleared for PNDI requirements under this agency for two additional years.

This finding applies to impacts to birds and mammals only. To complete your review of state and federally-listed threatened and endangered species and species of special concern, please be sure that the U.S. Fish and Wildlife Service, the PA Department of Conservation and Natural

Resources, and/or the PA Fish and Boat Commission have been contacted regarding this project as directed by the online PNDI ER Tool found at [www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us).

Sincerely,



Olivia A. Mowery  
Environmental Planner  
Division of Environmental Planning & Habitat Protection  
Bureau of Wildlife Habitat Management  
Phone: 717-787-4250, Extension 3128  
Fax: 717-787-6957  
E-mail: OMowery@pa.gov

A PNHP Partner



OAM/oam

cc: File



Division of Environmental  
Planning and Habitat  
Protection  
717-783-5957

COMMONWEALTH OF PENNSYLVANIA  
**Pennsylvania Game Commission**  
2001 ELMERTON AVENUE  
HARRISBURG, PA 17110-9797

*"To manage all wild birds, mammals and their habitats  
for current and future generations."*

**ADMINISTRATIVE BUREAUS:**

ADMINISTRATION.....	717-787-5670
HUMAN RESOURCES.....	717-787-7836
FISCAL MANAGEMENT.....	717-787-7314
CONTRACTS AND PROCUREMENT.....	717-787-6594
LICENSING.....	717-787-2084
OFFICE SERVICES.....	717-787-2116
WILDLIFE MANAGEMENT.....	717-787-5529
INFORMATION & EDUCATION.....	717-787-6286
WILDLIFE PROTECTION.....	717-783-6526
WILDLIFE HABITAT MANAGEMENT.....	717-787-6818
REAL ESTATE DIVISION.....	717-787-6568
AUTOMATED TECHNOLOGY SERVICES.....	717-787-4076

[www.pgc.state.pa.us](http://www.pgc.state.pa.us)

September 30, 2014

PNDI Number: 20140922467832

Ms. Staci Tupta  
Herbert, Rowland & Grubic, Inc.  
369 East Park Drive  
Harrisburg, Pennsylvania 17111

Re: Conveyance System  
Londonderry Township, Dauphin County, PA

Dear Ms. Tupta,

Thank you for submitting the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number 20140922467832 for review. The Pennsylvania Game Commission (PGC) screened this project for potential impacts to species and resources of concern under PGC responsibility, which includes birds and mammals only.

**No Impact Anticipated**

PNDI records indicate species or resources of concern are located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, the PGC has determined that no impact is likely. Therefore, no further coordination with the PGC will be necessary for this project at this time.

This response represents the most up-to-date summary of the PNDI data files and is valid for two (2) years from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on site. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered.

Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative and accurate map). If the proposed work has not changed and no additional information concerning listed species is found, the project will be cleared for PNDI requirements under this agency for two additional years.

This finding applies to impacts to birds and mammals only. To complete your review of state and federally-listed threatened and endangered species and species of special concern, please be sure that the U.S. Fish and Wildlife Service, the PA Department of Conservation and Natural

Resources, and/or the PA Fish and Boat Commission have been contacted regarding this project as directed by the online PNDI ER Tool found at [www.naturalheritage.state.pa.us](http://www.naturalheritage.state.pa.us).

Sincerely,



Olivia A. Mowery  
Environmental Planner  
Division of Environmental Planning & Habitat Protection  
Bureau of Wildlife Habitat Management  
Phone: 717-787-4250, Extension 3128  
Fax: 717-787-6957  
E-mail: OMowery@pa.gov

A PNHP Partner



OAM/oam

cc: File



369 East Park Drive  
Harrisburg, PA 17111  
(717) 564-1121  
FAX (717) 564-1158  
www.hrg-inc.com

**VIA CERTIFIED MAIL**

September 25, 2014

Pennsylvania Historical and Museum Commission  
Bureau of Historic Preservation  
400 North Street, Second Floor  
Harrisburg, Pennsylvania 17120-0093

Re: Cultural Resource Notice  
Londonderry Township Act 537 Plan  
Londonderry Township, Dauphin County

Dear Sir or Madam:

Attached is a Cultural Resource Notice and supplemental material relative to the above referenced project. Please review and comment at your earliest convenience.

Please contact me if you have any questions or need further information. I look forward to hearing from you.

Very Truly Yours,

**Herbert, Rowland & Grubic, Inc.**

Staci A. Tupta, E.I.T.  
Staff Professional

SAT/vjm

001068.0430/06/A

P:\0010\001068\_0430\Admin\CLEARANCES\PHMC\2014.09.25 PHMC Cover Letter.doc

Enclosures

c: File (w/encl.)




**CULTURAL RESOURCE NOTICE**
**Read the instructions before completing this form.**
**SECTION A. APPLICANT IDENTIFIER**

Applicant Name Londonderry Township  
 Street Address 783 South Geyers Church Road  
 City Middletown State PA Zip 17057  
 Telephone Number (717) 944-1803

Project Title Act 537 Official Sewage Facilities Plan Update

**SECTION B. LOCATION OF PROJECT**

Municipality Londonderry Township County Name Dauphin County DEP County Code 22

**SECTION C. PERMITS OR APPROVALS**

Name of Specific DEP Permit or Approval Requested: Act 537 Planning

Anticipated federal permits:

- Surface Mining                       404 Water Quality Permit  
 Army Corps of Engineers               Federal Energy Regulatory Commission  
 401 Water Quality Certification       Other: \_\_\_\_\_

**SECTION D. GOVERNMENT FUNDING SOURCES**

- State: (Name) PENNVEST                       Local: (Name) Township General Funds  
 Federal: (Name) \_\_\_\_\_                       Other: (Name) \_\_\_\_\_

**SECTION E. RESPONSIBLE DEP REGIONAL, CENTRAL, DISTRICT MINING or OIL & GAS MGMT OFFICE**

- DEP Regional Office Responsible for Review of Permit Application                       Central Office (Harrisburg)  
 Southeast Regional Office (Norristown)                       Northeast Regional Office (Wilkes-Barre)  
 Southcentral Regional Office (Harrisburg)                       Northcentral Regional Office (Williamsport)  
 Southwest Regional Office (Pittsburgh)                       Northwest Regional Office (Meadville)  
 District Mining Office: \_\_\_\_\_                       Oil & Gas Office: \_\_\_\_\_

**SECTION F. RESPONSIBLE COUNTY CONSERVATION DISTRICT, if applicable.**

County Conservation District Dauphin County Telephone Number, if known \_\_\_\_\_

**SECTION G. CONSULTANT**

Consultant, if applicable Herbert, Rowland & Grubic, Inc. c/o Staci A. Tupta, E.I.T.  
 Street Address 369 East Park Drive  
 City Harrisburg State PA Zip 17111  
 Telephone Number (717) 564-1121



**SECTION H. PROJECT BOUNDARIES AND DESCRIPTION**

**REQUIRED**

Indicate the total acres in the property under review. Of this acreage, indicate the total acres of earth disturbance for the proposed activity.

Attach a 7.5' U.S.G.S. Map indicating the defined boundary of the proposed activity.

Attach photographs of any building over 50 years old. Indicate what is to be done to all buildings in the project area.

Attach a narrative description of the proposed activity.

Attach the return receipt of delivery of this notice to the Pennsylvania Historical and Museum Commission.

**REQUESTED**

Attach photographs of any building over 40 years old.

Attach site map, if available.

**SECTION I. SIGNATURE BLOCK**



Applicant's Signature



Date of Submission of Notice to PHMC

**Project Narrative**  
**Act 537 Official Sewage Facilities Plan Update**  
**Londonderry Township, Dauphin County**

---

Londonderry Township is currently preparing an Act 537 Plan Update that includes Sewer District Nos. 2 and 3 in their entirety, as well as a developed portion of On-Lot Management District B known as Londonderry Estates. An evaluation of existing on-lot disposal systems indicated that there is a need for improved wastewater disposal in several areas throughout the Township. The seven (7) service areas were identified based on needs derived from previous planning, number of on-lot malfunctions, well water sample results, and unsuitable soil type.

At this time, several areas are being evaluated in order to determine if the installation of a public sanitary sewer system is feasible. The seven (7) service areas are indicated on the attached map. Although several alternatives have been evaluated for the public treatment of wastewater generated by the installation of a new sanitary sewer system, the wastewater from this project will most likely be conveyed to the Middletown Borough Authority's Wastewater Treatment Plant (MBA WWTP) and/or Derry Township Municipal Authority's Southwest Wastewater Treatment Plant (DTMA SW WWTP). Collection and conveyance alternatives being evaluated in the seven (7) service areas include any of the following or a combination of: gravity sewer mains, low-pressure sewer mains and individual grinder pump units located at each residence, and installation of pumping stations and associated force mains.

It is believed that buildings over 50 years old are located throughout the service areas; however, none of these buildings will be affected by the proposed sanitary sewer system. All new facilities will be constructed below grade within existing roadways, access drives, and rights-of-way where feasible.

The total area studied for the Act 537 Update is approximately 605 acres. The actual disturbance from the potential sewer system is unknown at this time; however, the total disturbed area for the seven (7) service areas and conveyance system was estimated based on the proposed alternative drawings and is approximately 115,300 linear feet or 10.6 acres.





MIDDLETOWN QUADRANGLE

GRAPHIC SCALE



SCALE: 1" = 4000'

File name: P:\proj\090606\_003\proj\londonderry\londonderry.dwg Layer: 1 Sep 26 2014 10:05am



269 East Park Drive  
 Harrisburg, PA 17111  
 (717) 664-1121  
 Fax (717) 664-1120  
 hrghrg-inc.com  
 www.hrghrg.com

**ACT 537 PLAN SERVICE AREAS  
 FOR  
 LONDONDERRY TOWNSHIP**

LONDONDERRY TOWNSHIP DAUPHIN COUNTY PENNSYLVANIA

PROJ. MGR. - MDC
DESIGN- BAT
CADD- RSF
CHECKED-
SCALE- AS NOTED
DATE- SEPT. 2014

DRAWING NO.
1
SHEET NO.
1 OF 1
PROJECT 001008.0430



7014 0510 0000 4050 5156

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Bureau of Historic Preservation  
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Harrisburg, PA 17120-0093

PS Form 3800, August 2005

See Reverse for Instructions

1068-0430-06-A

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Harrisburg, PA 17120-0093

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Commonwealth of Pennsylvania  
Pennsylvania Historical and Museum Commission  
**Bureau for Historic Preservation**  
Commonwealth Keystone Building, 2<sup>nd</sup> Floor  
400 North Street  
Harrisburg, PA 17120-0093  
[www.phmc.state.pa.us](http://www.phmc.state.pa.us)

October 23, 2014

Staci A. Tupta  
HRG  
369 East Park drive  
Harrisburg, PA 17111

Re: ER 2014-1964-043-A  
Cultural Resource Notice  
Londonderry Township Act 537 Plan  
Londonderry Township, Dauphin County

Dear Ms. Tupta:

Thank you for submitting information concerning the above referenced project. The Bureau for Historic Preservation (the State Historic Preservation Office) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 *et seq.* (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

This project is a planning study; therefore this office cannot assess the effects on specific historic and archaeological resources until more detailed plans are developed. Please contact our office when more specific plans are available for our review.

If you need further information, contact me at (717) 772-0925 or [dmcclare@pa.gov](mailto:dmcclare@pa.gov).

Sincerely,

Douglas C. McLearen, Chief  
Division of Archaeology &  
Protection

