



**New Jersey Department of Environmental Protection**  
Site Remediation Program

**RECEPTOR EVALUATION (RE) FORM**

Date Stamp  
(For Department use only)

**SECTION A. SITE**

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

Program Interest (PI) Number(s): \_\_\_\_\_

Case Tracking Number(s) for this submission: \_\_\_\_\_

**This form must be attached to the Cover/Certification Form  
if not submitted through a Remedial Phase Online Service**

**Indicate the type of submission:**

Initial RE Submission

Updated RE Submission

Indicate the reason for submission of an updated RE form

Submission of an Immediate Environmental Concern (IEC) source control report;

Submission of a Remedial Investigation Report;

Submission of a Remedial Action Report;

Check if included in updated RE

The known concentration or extent of contamination in any medium has increased;

A new AOC has been identified;

A new receptor is identified;

A new exposure pathway has been identified.

**SECTION B. ON SITE AND SURROUNDING PROPERTY USE**

1. Identify any sensitive populations/uses that are currently on-site or surrounding property usage within 200 feet of the site boundary (check all that apply):

	On-site	Off-site
None of the following .....	<input type="checkbox"/>	<input type="checkbox"/>
Residences or residential property .....	<input type="checkbox"/>	<input type="checkbox"/>
Public or Private Schools grades K-12 .....	<input type="checkbox"/>	<input type="checkbox"/>
Child care centers .....	<input type="checkbox"/>	<input type="checkbox"/>
Public parks, playgrounds or other recreation areas .....	<input type="checkbox"/>	<input type="checkbox"/>
Other sensitive population use(s) Explain _____	<input type="checkbox"/>	<input type="checkbox"/>

If any of the above applies, attach a list of addresses, facility names, type of use, and a map depicting each location relative to the site.

2. Current site uses (check all that apply):

- |   |                                       |   |                                       |
|---|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Industrial           | <input type="checkbox"/> Residential  | <input type="checkbox"/> Commercial               | <input type="checkbox"/> Agricultural |
| <input type="checkbox"/> School or child care | <input type="checkbox"/> Government   | <input type="checkbox"/> Park or recreational use |                                       |
| <input type="checkbox"/> Vacant               | <input type="checkbox"/> Other: _____ |   |                                       |

3. Planned future site uses and off-site use within 200 ft of site boundary (check all that apply):

- |   |                                       |   |                                       |
|---|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Industrial           | <input type="checkbox"/> Residential  | <input type="checkbox"/> Commercial               | <input type="checkbox"/> Agricultural |
| <input type="checkbox"/> School or child care | <input type="checkbox"/> Government   | <input type="checkbox"/> Park or recreational use |                                       |
| <input type="checkbox"/> Vacant               | <input type="checkbox"/> Other: _____ |   |                                       |

Provide a map depicting the location of the proposed changes in land use.

**SECTION C. DESCRIPTION OF CONTAMINATION**

1. Identify if any of the following exist at the site (check all that apply):
- Free product [N.J.A.C. 7:26E-1.8] identified is  LNAPL\* or  DNAPL\*\*. Date identified: \_\_\_\_\_
  - Residual product [N.J.A.C. 7:26E-1.8]
  - Other high concentration source materials not identified above (e.g., buried drums, containers, unsecured friable asbestos)
- Explain: \_\_\_\_\_
- \* LNAPL – measured thickness of .01 feet or more
- \*\*DNAPL – See [US EPA DNAPL Overview](#)
2. Soil Migration Pathway
- Has soil contamination been delineated to the applicable Direct Contact Soil Remediation Standard? ... **extent not defined to date for case # 17-09-01-1155-48** .....  Yes  No
- Are all soils either below the applicable Direct Contact Criteria or under an institutional control (i.e. deed notice)? ... **not known if below direct contact at this time** .....  Yes  No
3. If this evaluation is submitted with a technical document that includes contaminant summary information, proceed to Section D. Otherwise attach a brief summary of all currently available data and information to be included in the site investigation or remedial investigation report. **See attached summary**

**SECTION D. GROUND WATER USE**

1. Has the requirement for ground water sampling been triggered? .....  Yes  No  Unknown
- If "No," proceed to Section F. If "Unknown," explain: \_\_\_\_\_
2. Is Ground water contaminated above the Ground Water Remediation Standards [N.J.A.C.7:9C]? .....  Yes  No  Unknown
- Or  Awaiting laboratory data with the expected due date: \_\_\_\_\_
- If "Yes," provide the date that the laboratory data was available and confirmed contamination above the Ground Water Remediation Standards. Date: \_\_\_\_\_
- If "Unknown," explain: \_\_\_\_\_
- If "No," or awaiting laboratory data proceed to Section F.
3. Has ground water contamination been delineated to the applicable Remediation Standard? .....  Yes  No
4. Has a well search been completed? .....  Yes  No
- Date of most recent or updated well search: \_\_\_\_\_
- Identify if any of the following conditions exist based on the well search [N.J.A.C.7:26E-1.14(a)] (check all that apply):
- Potable wells located within 500 feet from the downgradient edge of the currently known extent of contamination.
  - Potable well located 250 feet upgradient or 500 feet side gradient of the currently known extent of contamination.
  - Ground water contamination is located within a Tier 1 wellhead protection area (WHPA).
5. Is a completed Well Search Spreadsheet or historical well search table attached and has an electronic copy of the spreadsheet been submitted to [srpgis\\_wrs@dep.state.nj.us](mailto:srpgis_wrs@dep.state.nj.us). .....  Yes  No
- If "No," explain: \_\_\_\_\_
6. Are any private potable or irrigation wells located within ½ mile of the currently known extent of contamination? .....  Yes  No
- If "Yes," was a door to door survey completed? .....  Yes  No
- If survey was not completed explain: \_\_\_\_\_
7. Has sampling been conducted of  potable well(s) and/or  non-potable use well(s)? .....  Yes  No
- If "No," provide justification then proceed to Section E.
- \_\_\_\_\_

- 8 Has contamination been identified in potable well(s) above Ground Water Remediation Standards that is not suspected to be from the site? (If "Yes," provide justification) .....  Yes  No
- 
- 9 Has contamination been identified in potable well(s) that is above the Ground Water Remediation Standards or Federal Drinking Water Standards? .....  Yes  No
- Provide date laboratory data was received: \_\_\_\_\_
- Or  awaiting laboratory data with the expected due date: \_\_\_\_\_
- If "Yes" for potable well contamination **not attributable to background**, follow the IEC Guidance Document at <http://www.nj.gov/dep/srp/guidance/index.html#iec> for required actions and answer the following:
- Has an engineered system response action been completed on all receptors? .....  Yes  No
- Provide a brief narrative description:
- Date completed: \_\_\_\_\_ NJDEP Case Manager: \_\_\_\_\_
10. Were Non-potable use well(s) sampled and results were above Class II Ground Water Remediation Standards? .....  Yes  No
- Provide date laboratory data was received: \_\_\_\_\_
- Or  awaiting laboratory data with the expected due date: \_\_\_\_\_
11. Has the ground water use evaluation been completed? .....  Yes  No

**SECTION E. VAPOR INTRUSION (VI)**

1. Contaminants present in ground water exceed the Vapor Intrusion Ground Water Screening Levels that trigger a VI evaluation. (see NJDEP Vapor Intrusion Technical Guidance). ...  Yes  No  Unknown
- Or  Awaiting laboratory data and the expected due date: \_\_\_\_\_
- Provide the date that the laboratory data was available and confirmed contamination above the Vapor Intrusion Trigger Levels. Date: \_\_\_\_\_
2. Other existing conditions that trigger a VI evaluation. (see NJDEP Vapor Intrusion Technical Guidance)
- Wet basement or sump containing free product or ground water containing volatile organics
  - Methane generating conditions causing oxygen deficient or explosion concern
  - Other human or safety concern from the VI pathway (i.e. elemental mercury, unsaturated contamination, elevated soil gas or indoor vapor (explain):

If you answered "No," or awaiting laboratory data to Question 1., *and* did not check any boxes in Question 2, proceed to Section F, "Ecological Receptors", otherwise complete the rest of this section.

3. Has ground water contamination been delineated to the applicable Ground Water Vapor Screening Level? .....  Yes  No
4. Was a site specific screening level, modeling or other alternative approach employed for the VI pathway? .....  Yes  No
5. Identify and locate on a scaled map any buildings/sensitive populations that exist within the following distances from ground water contamination with concentrations above the Vapor Intrusion Ground Water Screening Levels or specific threats (check all that apply):
- 30 feet of petroleum free product or dissolved petroleum hydrocarbon contamination in ground water
  - 100 feet of any non-petroleum free product or any non-petroleum dissolved volatile organic ground water contamination
  - No buildings exist within the specified distances
6. The vapor intrusion pathway is a concern at or adjacent to the site (if "No," attach justification) .....  Yes  No

7. Has soil gas sampling of the building(s) been conducted? .....  Yes  No  N/A  
If "No," or "N/A," proceed to #12
8. Has indoor air sampling been conducted at the identified building(s)? .....  Yes  No  
If "No," proceed to #12
9. Has indoor air contamination been identified but not suspected to be from the site?  
(if "Yes," attach justification) .....  Yes  No
10. Indoor air results were above the NJDEP's Rapid Action Levels. ....  Yes  No  
Provide the date that the laboratory data was available. Date: \_\_\_\_\_  
Or  Awaiting laboratory data with the expected due date: \_\_\_\_\_  
**If "Yes" to #10 above, follow the IEC Guidance Document at**  
<http://www.nj.gov/dep/srp/guidance/index.html#iec> **for required actions.**  
The IEC engineering system response for control was implemented for all  
identified structures .....  Yes  No  
Date: \_\_\_\_\_ NJDEP Case Manager: \_\_\_\_\_
11. Indoor air sampling was conducted and results were above the NJDEP's Indoor Air Screening  
Levels but at or below the Rapid Action Levels .....  Yes  No  
Provide the date that the laboratory data was available. Date: \_\_\_\_\_  
Or  Awaiting laboratory data with the expected due date: \_\_\_\_\_  
**If "Yes" to #11 above, answer the following:**  
Has the Vapor Concern (VC) Response Action Form notifying the NJDEP of the exceedances  
been submitted? .....  Yes  No  
Date: \_\_\_\_\_  
Has a plan to mitigate and monitor the exposure been submitted? .....  Yes  No  
Date: \_\_\_\_\_  
Has the Mitigation Response Action Report been submitted? .....  Yes  No  
Date: \_\_\_\_\_
12. Has the vapor intrusion investigation been completed? .....  Yes  No  
If "No", is the vapor intrusion investigation stepping out as part of the site  
investigation or remedial investigation. (If "No," attach justification) .....  Yes  No

**SECTION F. ECOLOGICAL RECEPTORS**

1. Has an Ecological Evaluation (EE) has been conducted? [N.J.A.C. 7:26E-1.16] .....  Yes  No  
Date conducted: \_\_\_\_\_
2. Do the results of an EE trigger a remedial investigation of ecological receptors? [N.J.A.C. 7:26E-4.8] .....  Yes  No
3. Has a remedial investigation of ecological receptors been conducted? .....  Yes  No  
Date conducted: \_\_\_\_\_
4. Provide the following information for any surface water body on or within 200 feet of the site:

Surface Water Body Name	Stream Classification	Antidegradation Designation	Trout Production	Trout Maintenance
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

5. Does the site contain any features regulated by the Land Use Regulation Program (LURP)?  
(e.g. wetlands, flood hazard area, tidelands, etc.) .....  Yes  No  
If "Yes," identify the type(s) of features: \_\_\_\_\_

6. Have any formal LURP jurisdiction letters or approvals been issued for the site? .....  Yes  No  
If "Yes," what is the LURP Program Interest (PI) number(s) for the site? \_\_\_\_\_

7. Have any applications for formal LURP jurisdiction letters or approvals been submitted the NJDEP? .....  Yes  No  
If "Yes," what is the LURP Program Interest (PI) number(s) for the site? \_\_\_\_\_

8. Is free product or residual product located within 100 feet from an ecological receptor? .....  Yes  No

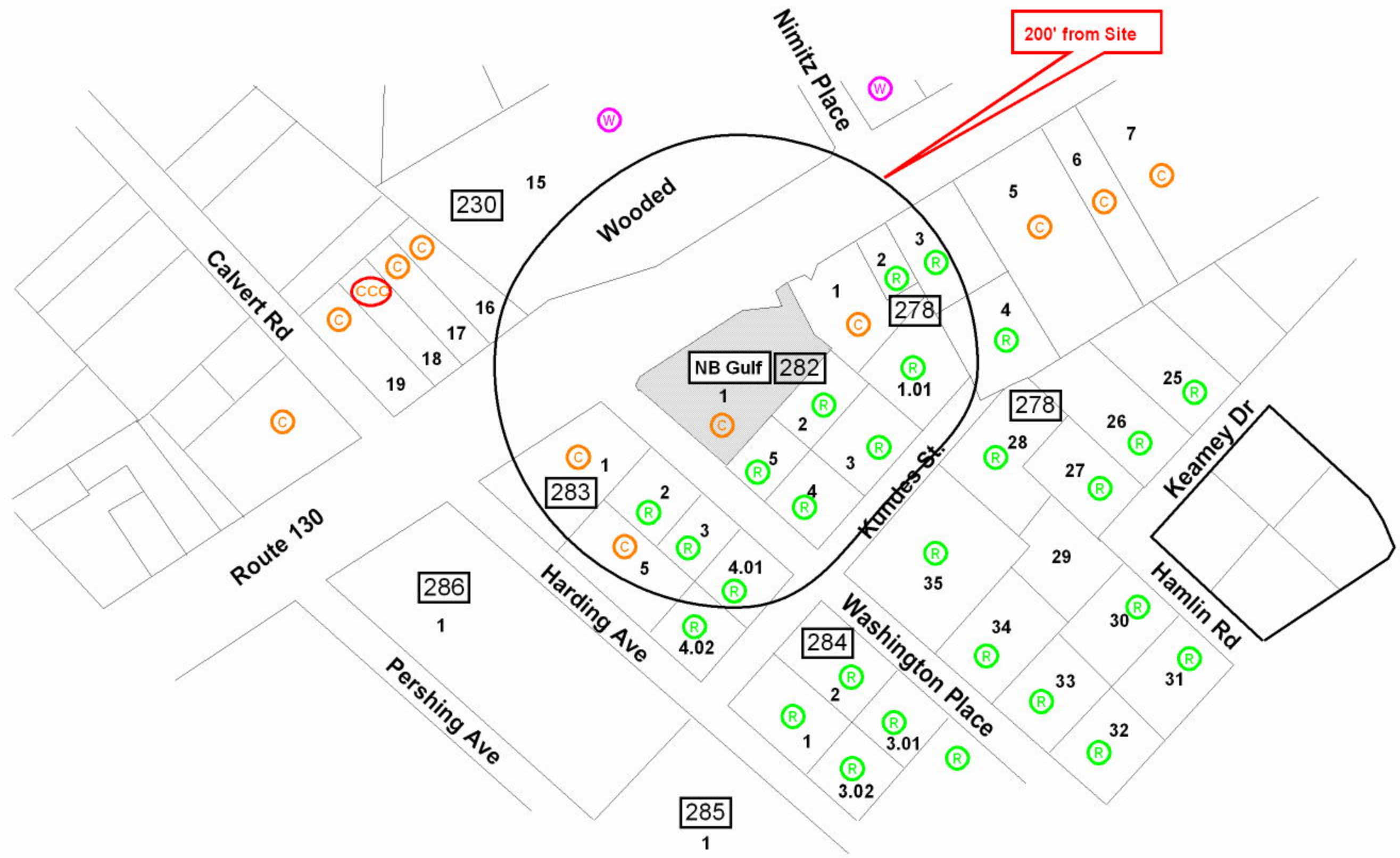
9. Does available data indicate an impact on Ecological receptor(s), Surface water, or Sediment? .....  Yes  No  
If "Yes,"

a) Check all that apply:  
 Ecological receptor(s)     Surface water     Sediment

b) Submit with this evaluation either a technical document that includes contaminant summary information, or a description of the type of contamination, a schedule, and a description of all actions to be taken to mitigate exposure.

Completed forms should be sent to the municipal clerk, designate health department, and:

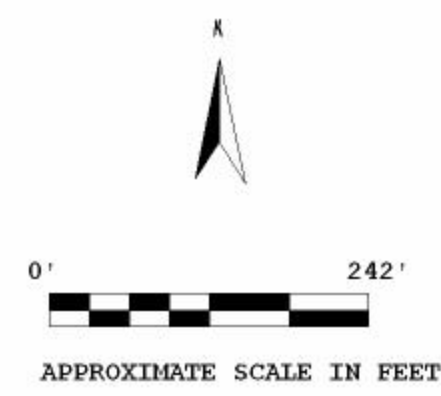
Bureau of Case Assignment & Initial Notice  
Site Remediation Program  
NJ Department of Environmental Protection  
401-05H  
PO Box 420  
Trenton, NJ 08625-0420



**KEY**

- (R) Residential Property
- (C) Commercial Property
- (W) Wooded
- CCC Child Care Center
- 4208 Block
- 2 Lot

Source: NJDEP Geo Web

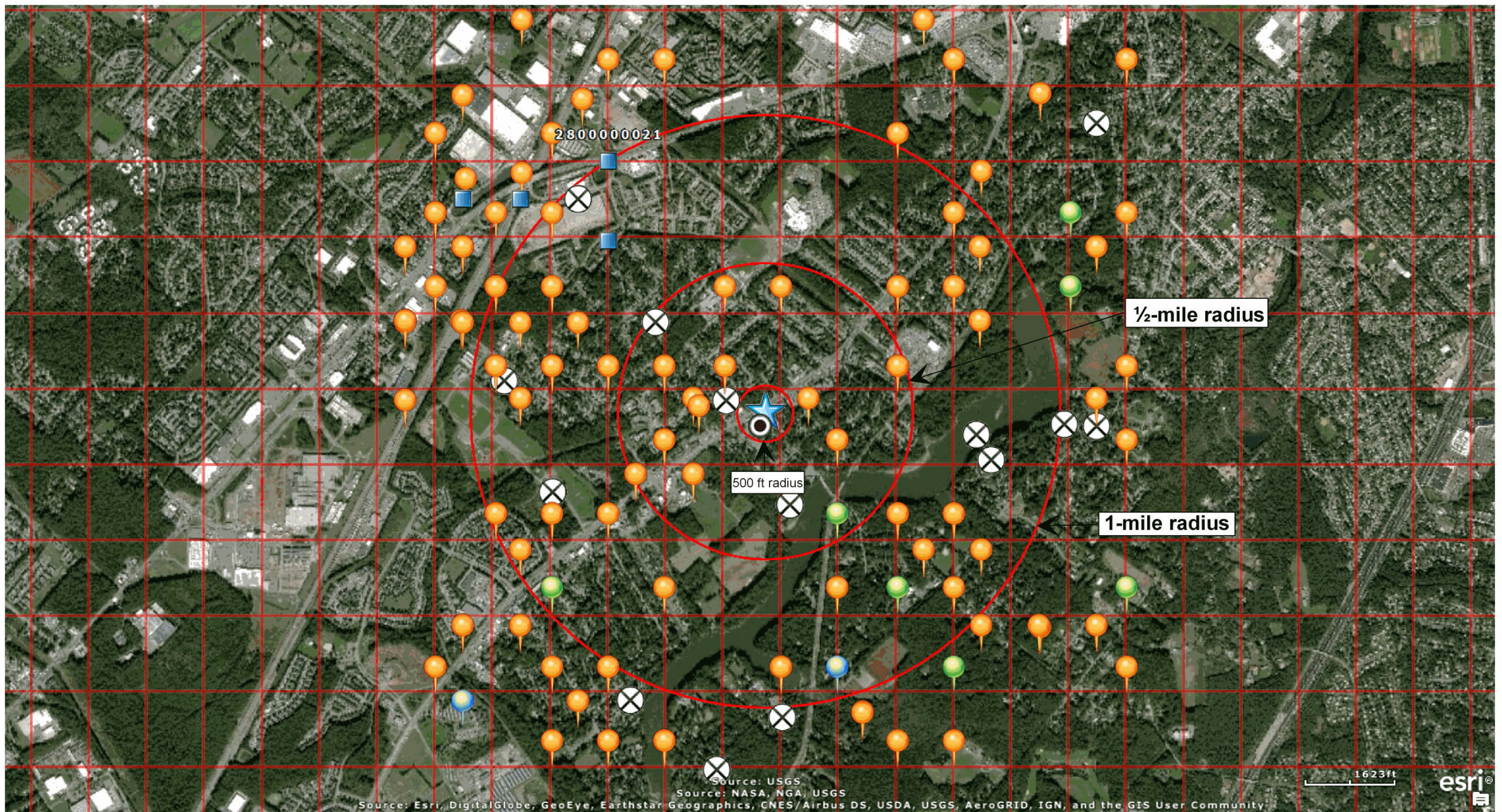


 <b>ON-SITE ENVIRONMENTAL</b> <small>119 SHEPHERD WAY • COATESVILLE, PA 19320          PHONE: (610) 384-2719 • FAX: (610) 384-2709</small>	
Drawing #:	Date
File : taxmap	7/23/18

**Figure 1 Property Use Map**  
**North Brunswick Gulf**  
 1696 Georges Road  
 North Brunswick, NJ

Table 1: Properties within 200 feet of North Brunswick Gulf Station

Block	Lot	Occupant	Property Address	Township	State	Zip Code	Owner Name	Owner Address				Type of Use
230	15	WOODED LOT	RT 130 (WOODED LOT)	NORTHBRUNSWICK	NJ		Labarbera Santo % J Labarbera	101 CRICKET HILL CIRCLE	Princeton	NJ	08540	Vacant
230	16	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC	PO BOX 1021	MT LAUREL	NJ	08054	Equipment Rental
230	17	FRIENDLY RENTAL	1709 RT 130	NORTHBRUNSWICK	NJ	08902	Calvert Associates LLC	PO BOX 1021	MT LAUREL	NJ	08054	Equipment Rental
278	1.01	AMEDURI CHRISTOPHER J & MICHELE	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1675 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
278	1	VALET DRY CLEANERS	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Krauszer Family LLC	18 MULBERRY LANE	EDISON	NJ	08820	Dry Cleaner
278	1	QUIK OUT (CONVIENCE STORE)	1674 RT 130	NORTHBRUNSWICK	NJ	08902	Krauszer Family LLC	18 MULBERRY LANE	EDISON	NJ	08820	Convenience store
278	2	Resident	1670 RT 130	NORTHBRUNSWICK	NJ	08902	Roy & Amy Chereath	2 JUMPING BROOKE	MONROE	NJ	08831	Residential
278	3	Resident	1660 RT 130	NORTHBRUNSWICK	NJ	08902	Kolluru Nagesh K	4 Eddington Lane	Monroe	NJ	08931	Residential
278	4	DAMATO JOSEPH & KATHLEEN	1665 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1665 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
278	28	CONLIN MARK J & KATHLEEN M	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1680 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
278	35	RAVENS JUAN R & LUCILLE	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	321 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
282	1	Precision Auto Service	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	1696 Route 130 LLC	555 Georges Road	Dayton	NJ	08810	Auto repair
	1	Fai Fuel, Inc.: Mobil	1696 GEORGES RD RT 130	NORTHBRUNSWICK	NJ	08902	1696 Route 130 LLC	555 Georges Road	Dayton	NJ	08810	Retail gasoline & diesel fuel sales
282	2	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential backyard
282	3	ZHANG RONGHUI	1685 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Same as Occupant	1685 KUNDES STREET	NORTHBRUNSWICK	NJ	08902	Residential
282	4	CASSELLA DAVID	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	335 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
282	5	THOMAS & ANA CSEPES	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	359 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	1	BP SEVICE STATION	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Pernice Family Partnership LLC	15 Brittany Way	Kendall Park	NJ	08824	Service Station
283	1	Spotless Hand Carwash & Detailing	1710 Rt 130	NORTHBRUNSWICK	NJ	08902	Pernice Family Partnership LLC	15 Brittany Way	Kendall Park	NJ	08824	Cra Wash
283	2	LUZACK DENISE	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	368 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	3	ALZATE JORGE & HARUMI ROXANA	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	360 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	4.01	TaiJ George	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	356 WASHINGTON PLACE	NORTHBRUNSWICK	NJ	08902	Residential
283	4.02	PEDDI RAVINDRA & KAVITHA	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902	Same as Occupant	333 HARDING AVENUE	NORTHBRUNSWICK	NJ	08902	Residential
283	5	STORAGE YARD FOR LOT 1	HARDING AVE (STORAGE YARD)	NORTHBRUNSWICK	NJ		Pernice Family Partnership LLC	15 Brittany Way	Kendall Park	NJ	08824	Storage yard for lot 1



- Domestic Well
- Irrigation Well
- Non-Public, Public Non Community, Public Community
- Decommissioned Well

- ★ 1696 Rt 130, LLC AKA North Brunswick Gulf
- Inactive Domestic Well within Canvas Area
- Industrial Well

0'  1415'  
 Approximate scale in feet



**ON-SITE ENVIRONMENTAL**  
 119 STEPHENS WAY • COATESVILLE, PA 19320  
 Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #:  
well search 7/2018

Date:  
7/17/18

**Figure 2 Wells within 1-mile**  
7/17/2018

North Brunswick Gulf  
 1696 Georges Road RT 130  
 North Brunswick, New Jersey 08902



Download Documer Permit Number	Well Use	Potentially Potable	Document	Date (permitted/drille	Physical Address	County	Municipality	Block	Lot	Location Method	Easting X	Northing Y	Distance (feet)	Depth (feet)	Capacity (gal/min)	COORD METHOD	TOP_OPEN INT	BOT_OPEN INT	STATIC LEVEL	STATUS	WELL_SAMPLED?
2800000415	Domestic	Yes	Permit	10/24/1951		Middlesex	New Brunswick City			Prop Loc - Hard Copy	498422	586748		100	5					Outside Canvass	
2800000398	Domestic	Yes	Permit	10/6/1951		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	498422	586748		100	8					Outside Canvass	
2800000357	Domestic	Yes	Permit	9/11/1951		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	502597	586750		100	10					Outside Canvass	
2800000357	Domestic	Yes	Record	10/3/1951	EDLYS LN	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	502597	586750		130	0					Outside Canvass	
2800000350	Domestic	Yes	Permit	8/29/1951		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	501515	584118		100	6					Outside Canvass	
2800000350	Domestic	Yes	Record	9/8/1951	HARDENBURG LN	Middlesex	East Brunswick Twp			Prop Loc - Dig Image	503062	583479	4068	87.5	0					Outside Canvass	
2800000341	Domestic	Yes	Permit	8/10/1951		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	502598	584119		100	6					Outside Canvass	
2800000341	Domestic	Yes	Record	9/4/1951	HARDENBURGH LN	Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	502598	584119		81	0					Outside Canvass	
2800000280	Domestic	Yes	Record	6/20/1951	RT 1	Middlesex	New Brunswick City			Prop Loc - Dig Image	493783	587523	6541	120	0					Outside Canvass	
2800000227	Domestic	Yes	Record	1/24/1951	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494813	588872	5953	90	0					Outside Canvass	
2800000226	Domestic	Yes	Record	12/9/1950	OLD GEORGES RD	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	495845	582127	6115	99.5	0					Outside Canvass	
2800000224	Domestic	Yes	Record	12/6/1950	OLD GEORGES RD	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	495845	582127	6115	93	0					Outside Canvass	
2800000170	Domestic	Yes	Permit	1/31/1950		Middlesex	New Brunswick City			Prop Loc - Hard Copy	506696	582806		150	6					Outside Canvass	
2800002275	Domestic	Yes	Permit	9/17/1956		Middlesex	Milwain Boro			Prop Loc - Hard Copy	506692	589484		100	10					Outside Canvass	
2800002275	Domestic	Yes	Record	1/28/1957	CHURCH LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	496877	580778	6539	41	0					Outside Canvass	
2800002227	Domestic	Yes	Permit	8/3/1956		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	498424	580070		30	6					Outside Canvass	
2800002144	Domestic	Yes	Permit	6/13/1956		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	494324	589479		100	12					Outside Canvass	
2800002102	Domestic	Yes	Permit	5/14/1956		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	495407	586748		100	10					Outside Canvass	
2800002009	Domestic	Yes	Record	3/17/1956	OLD GEORGES RD	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	489938	584826	2029	105	0					Outside Canvass	
2500007146	Domestic	Yes	Permit	10/1/1957		Somerset	Green Brook Twp			Prop Loc - Hard Copy	505688	588168		150	10					Outside Canvass	
2800003682	Domestic	Yes	Permit	9/28/1959		Middlesex	Milwain Boro			Prop Loc - Hard Copy	502596	588166		100	10					Outside Canvass	
2800003682	Domestic	Yes	Record	10/5/1959	KEARNEY DR	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	502596	588166		100	0					Outside Canvass	
2800003602	Domestic	Yes	Permit	7/20/1959		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	498422	585433		100	15					Outside Canvass	
2800003127	Domestic	Yes	Permit	5/23/1958		Middlesex	Milwain Boro			Prop Loc - Hard Copy	498424	580070		40	25					Outside Canvass	
2800003127	Domestic	Yes	Record	6/1/1958	RIVA AVE	Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	498424	580070		26	0					Outside Canvass	
2800003106	Domestic	Yes	Permit	4/24/1958		Middlesex	New Brunswick City			Prop Loc - Hard Copy	495406	588164		150	10					Outside Canvass	
2800003106	Domestic	Yes	Record	4/29/1958	ADAMS PL	Middlesex	New Brunswick City			Prop Loc - Hard Copy	495406	588164		100	0					Outside Canvass	
2800002910	Domestic	Yes	Permit	11/12/1957		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496411	590896		150	20					Outside Canvass	
2800002810	Domestic	Yes	Permit	10/4/1957		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	503605	580072		70	15					Outside Canvass	
2800002801	Domestic	Yes	Permit	10/3/1957		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496412	586748		75	10					Outside Canvass	
2800002801	Domestic	Yes	Record	9/30/1957	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	495845	586174	4387	50	0					Outside Canvass	
2800002800	Domestic	Yes	Record	10/5/1957	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	496875	587523	3536	55	0					Outside Canvass	
2800002734	Domestic	Yes	Permit	9/5/1957		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	494324	590896		100	3					Outside Canvass	
2800002683	Domestic	Yes	Permit	8/6/1957		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	494324	589479		110	4					Outside Canvass	
2800002646	Domestic	Yes	Record	8/24/1957	HARDENBURG LANE	Middlesex	Milwain Boro			Prop Loc - Dig Image	505124	582130	6494	140	0					Outside Canvass	
2800002631	Domestic	Yes	Permit	7/12/1957		Middlesex	South Brunswick Twp			Prop Loc - Hard Copy	494324	588164		100	4					Outside Canvass	
2800002622	Domestic	Yes	Record	8/21/1957	PRINCESS RD	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494813	591571	7490	124	0					Outside Canvass	
2800002582	Domestic	Yes	Permit	6/14/1957		Middlesex	Milwain Boro			Prop Loc - Hard Copy	506691	592216		100	10					Outside Canvass	
2800002582	Domestic	Yes	Record	6/22/1957	51 PARDUN AVE.	Middlesex	Milwain Boro			Prop Loc - Hard Copy	506691	592216		155	0					Outside Canvass	
REDACTED	2800002451	Public Community	Yes	Permit	3/6/1957	REDACTED	Middlesex	East Brunswick Twp		Prop Loc - Hard Copy	0	0		15						Outside Canvass	
2800002448	Domestic	Yes	Permit	2/27/1957		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	503600	589482		80	10					Outside Canvass	
2800002447	Domestic	Yes	Permit	2/27/1957		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	503600	589482		80	10					Outside Canvass	
2800002399	Domestic	Yes	Permit	1/9/1957		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	498422	586748		100	10					Outside Canvass	
2800002399	Domestic	Yes	Record	1/14/1957	ADAMS RD	Middlesex	South Brunswick Twp			Prop Loc - Hard Copy	498422	586748		90	0					Outside Canvass	
2800004279	Domestic	Yes	Permit	11/21/1961		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496411	590896		100	12					Outside Canvass	
2800004245	Domestic	Yes	Permit	10/16/1961		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	498420	592212		120	10					Outside Canvass	
2800004245	Domestic	Yes	Record	10/17/1961	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494813	588872	5953	88	0					Outside Canvass	
2800004170	Domestic	Yes	Permit	7/11/1961		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496412	586748		100	6					Outside Canvass	
2800004170	Domestic	Yes	Record	9/7/1961	UNKNOWN	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496412	586748		82	0					Outside Canvass	
2800005116	Domestic	Yes	Record	11/18/1964	ADAMS LN & 7TH AVE	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	495844	597523	4525	100	0					Outside Canvass	
2800005094	Domestic	Yes	Permit	4/24/1964		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496411	589480		75	12					Outside Canvass	
2800005094	Domestic	Yes	Record	8/26/1964	DRISCOLL AVE	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494813	588872	5953	74	10					Outside Canvass	
2800004923	Domestic	Yes	Permit	12/6/1963		Middlesex	New Brunswick City			Prop Loc - Hard Copy	496413	580070		52	10					Outside Canvass	
2800004923	Domestic	Yes	Record	12/1/1963	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494813	588872	5953	52	0					Outside Canvass	
2800004835	Domestic	Yes	Permit	9/25/1963		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	495406	588164		60	20					Outside Canvass	
2800004835	Domestic	Yes	Record	11/1/1963	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494814	587523	5529	60	0					Outside Canvass	
2800004835	Domestic	Yes	Record	11/1/1963	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	495406	588164		60	0					Outside Canvass	
280004767A	Domestic	Yes	Permit	7/21/1963		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	496411	589480		70	10					Outside Canvass	
280004767A	Domestic	Yes	Record	9/5/1963	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	493783	588872	6903	70	0					Outside Canvass	
2800004667	Domestic	Yes	Permit	4/29/1963		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	495406	588164		60	15					Outside Canvass	
2800004667	Domestic	Yes	Record	4/20/1963	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	494814	587523	5529	60	0					Outside Canvass	
2800004667	Domestic	Yes	Record	4/20/1963	ADAMS LN	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	495406	588164		60	0					Outside Canvass	
2800004629	Domestic	Yes	Permit	3/11/1963		Middlesex	East Brunswick Twp			Prop Loc - Hard Copy	506697	581389		50	15					Outside Canvass	
2800004572	Domestic	Yes	Permit	11/26/1962		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	503599	592214		130	10					Outside Canvass	
2800004443	Domestic	Yes	Permit	1/10/1963	ROUTES 1 & 130	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy											

Download Documer	Permit Number	Well Use	Potentially Potable	Document	Date (permitted/drille	Physical Address	County	Municipality	Block	Lot	Location Method	Easting X	Northing Y	Distance (feet)	Depth (feet)	Capacity (gal/min)	COORD METHOD	TOP_OPEN INT	BOT_OPEN INT	STATIC LEVEL	STATUS	WELL_SAMPLED?
	2800019275	Domestic	Yes	Record	8/17/1987	10 HILLCREST AVE	Middlesex	East Brunswick Twp	310	76040	Prop Loc - Hard Copy	500511	581386		600	5					Outside Canvass	
	2800021308	Domestic	Yes	Permit	8/26/1988		Middlesex	North Brunswick Twp	148	107	Prop Loc - Hard Copy	497417	586748		300	10					Outside Canvass	
	2800021308	Domestic	Yes	Record	9/21/1988	RT 130	Middlesex	North Brunswick Twp	148	107	Prop Loc - Dig Image	497907	584625	2800	200	5					Outside Canvass	
	2800029770	Domestic	Yes	Permit	4/14/1992		Somerset	Franklin Twp	20	74	Prop Loc - Hard Copy	495406	589480		200	10					Outside Canvass	
	4800034891	Irrigation	Yes	Permit	11/7/1994	153 HARDENBURG LANE	Middlesex	East Brunswick Twp	310	60.01	Prop Loc - Hard Copy	503604	581387		100	5					Outside Canvass	
	4800036935	Irrigation	Yes	Permit	10/20/1995	205 HARDENBURG LANE	Middlesex	East Brunswick Twp	309.03	28.04	Prop Loc - Hard Copy	501515	584118		130	4					Outside Canvass	
	4800040147	Irrigation	Yes	Permit	5/8/1997	32 FARRINGTON AVE	Middlesex	East Brunswick Twp	307.06	28.01.27	Prop Loc - Hard Copy	505688	588168		13	15					Outside Canvass	
	2800039966	Irrigation	Yes	Permit	4/4/1997	433 RIVA AVENUE	Middlesex	East Brunswick Twp	309.02	46	Prop Loc - Hard Copy	502598	582803		200	50					Outside Canvass	
	2800039966	Irrigation	Yes	Record	4/16/1997	433 RIVA AVENUE	Middlesex	East Brunswick Twp	309.02	46	Prop Loc - Hard Copy	502598	582803		195	50					Outside Canvass	
	280001543	Domestic	Yes	Record	2/23/1955	RT 1	Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	493783	587557		108	0					Outside Canvass	
	2800000021	Industrial	Yes	Permit	1/16/1948		Middlesex	North Brunswick Twp			Prop Loc - Hard Copy	497416	590897		300	300					Outside Canvass	
	2800000021	Industrial	Yes	Record	6/1/1948	RT 26	Middlesex	North Brunswick Twp			Prop Loc - Dig Image	495844	590221	5,818.15	404	0					Outside Canvass	
	2800002529	Industrial	Yes	Permit	5/8/1957		Middlesex	Cranbury Twp			Prop Loc - Hard Copy	497416	589480		300	1000					Outside Canvass	
	2800038527	Industrial	Yes	Record	7/19/1996	1735 JERSEY AVE	Middlesex	North Brunswick Twp	17	98	Prop Loc - Dig Image	494813	590221	6,629.17	300	0					Outside Canvass	
	2800031806	Industrial	Yes	Record	5/24/1993	1735 JERSEY AVE	Middlesex	North Brunswick Twp	17	98	Prop Loc - Dig Image	494813	590221	6,629.17	260	0					Outside Canvass	

### **Supplemental Information for Receptor Evaluation: 7/26/18**

This incident involves a damaged manway/sump associated with an underground storage tank (UST) that stores unleaded gasoline at the North Brunswick Gulf station located at 1696 Georges Road in North Brunswick, New Jersey. The New Jersey Department of Environmental Protection (NJDEP) case number is 17-09-01-1155-48. The block and the Lot number of the site is block 282 Lot 1.

In mid July 2017, the responsible party (RP) noticed the lid on a manway associated with a 12,000 gallon UST at the site was damaged. It appeared a truck parked on the lid and the weight of the truck damaged the lid. In response the RP/owner (Mr. Walter Lapp) told the lessee of the retail gasoline facility to have C 3 Technologies, LLC order a new lid and replace it. After approximately three weeks the owner drove by the site and noticed the lid was not replaced therefore he contacted C 3 Technology directly and authorized them to order the lid.

On August 31, 2017, C3 Technology, LLC came to the site and removed the lid. Upon removal they discovered the STP manway was compromised and product was found in the STP manway due to an apparent leak from a flex pipe. In addition, the ICON electric entry boot was found torn and the level of gasoline in the manway was found at the level of the torn boot. The UST was immediately taken out of service and C 3 Technology recovered approximately 40 gallons of gasoline from the manway and proceeded to replace the seal around the electric line, the flex hose, a short pipe in the manway and the manway lid. At that time it was also discovered that the Veetor Root alarm was going off since August 9, 2017 but was ignored by the facility operator. After the line in the manway was tested by C 3 Technology the UST was put back in operation on September 1, 2017.

On September 1, 2017, an LSRP meet Mr. Lapp at the station and inspected the manway and two monitoring wells near the tank associated with the damaged manway (**Figure 3: RW1 and MW 3**). Those monitoring wells were installed in 2002/2003 in response to another incident that occurred at the site on August 30, 2001 (Case # 01-08-30-1546-07). RW 1 is located in the back fill (pea gravel) that surrounds the UST and MW 3 is located on the down gradient end of the UST. No product was detected in the monitoring wells.

Since the gasoline in the manway (before the repairs) was reportedly up to the level of the compromised seal that was around the electric line it was assumed that gasoline may have escaped the manway via the damaged seal. Therefore, Mr. Lapp and the LSRP called the NJDEP Hotline and Case # 17-09-01-1155-48 was assigned to the suspect release/incident.

To determine if the release was substantial and greater than the amount of gasoline that was recovered from the sump the owner requested inventory records from the operator. According to the owner the records were difficult to evaluate and inconclusive. Therefore, to evaluate if gasoline escaped through the seal on October 3, 2017, C 3 Technology cut a small hole in the manway to allow for the collection of a sample of the material just below the former damaged seal. After the hole was complete the LSRP used a calibrated photo-ionization detector (PID) to monitor the material surrounding the manway. The PID reading was only 54 ppmv. A sample of the material (pea gravel) was then collected for laboratory

analysis of volatile organic compounds (VOCs). The sample was collected at a depth of 47-inches below surface grade. After the sample was collected the hole was sealed by C 3 Technology. Since the sample was pea gravel and not soil it was not collected per VOC analysis specifications. However, the analysis did indicate that compounds related to gasoline were detected in the sample and therefore it was concluded a release to the environment did occur. However, no compound was above the soil standards. The compounds detected in the sample are listed below along with the standards for soil.

<b>Compound</b>	<b>Residential Direct Contact Standard (mg/kg)</b>	<b>Default Soil to Groundwater Standard (mg/kg)</b>	<b>Pea Gravel Concentration (mg/kg)</b>
Acetone	70,000	19	1,190
Benzene	2	0.005	0.00024 J
2-Butanone	3,100	0.9	0.153
Naphthalene	6	25	0.0105
Styrene	90	3	0.0616
TBA	1,400	0.3	0.0187 J
Toluene	6,300	7	0.00071 J
Xylenes	12,000	19	0.00058 J
TICs	-	-	0.1451 J
Alkanes	-	-	0

J: Estimated value

Future plans are to collect ground water samples from RW 1 and MW 3 and compare the results to samples collected before the manway incident occurred to provide a line of evidence regarding the suspect release. The last samples collected from those wells were secured in December 2016. Also the manway will be replaced to comply with the new UST regulations that will be effective in October 2018. During that replacement the concrete around the manway will have to be removed and the LSRP will have an opportunity to inspect, monitor and resample the material around the manway. Based on those findings and the ground water analysis from RW 1 and MW 3 the LSRP will likely make a determination if the release from the manway impacted the subsurface with concentrations above the standards. The future plans discussed above have been delayed due to the owner's health. During 2017 the owner was diagnosed with cancer and had undergone treatment, which delayed these activities. An extension request to the regulatory timeframe to submit the Site Investigation (SI) report has been submitted to the NJDEP. The proposed extended timeframe is 9/1/19.

There is an old incident at his site (case # 01-08-30-1546-07) that also involves a release of gasoline from a damaged UST that was in the same location as the damaged manway. That incident occurred on August 30, 2001. Interim remedial measures have been conducted 2001/2002 in response to the older incident including the excavation of approximately 1,050 tons of impacted soil, recovery of approximately 38,330 gallons of ground water and 500 gallons of free product from the excavation and closure of all the UST. Subsequently during May and June 2003 new USTs were installed at the site in

the same location. One of the UST installed in 2003 had its associated manway damaged on August 31, 2017, which is the incident this receptor evaluation was prepared in response to.

A significant amount of soil and ground water samples have been collected at the site relative to the old incident, which included the analysis of over 100 soil samples and the installation and sampling of 16 ground water monitoring wells. Receptor evaluations and well searches have been conducted in the past due to the old incident. The last well search relative to the old incident was conducted during July 2017 using the NJDEP data minor web site and requesting a 1-mile radial diversion search from the NJDEP Bureau of Water Allocation for large water withdrawal points. The NJDEP Geo Web site was also reviewed to locate community and non-community well head protection areas. That well search did identify potable and irrigation wells within ½ mile from the site. No large withdrawal wells were reported within 1-mile of the site. Although it is not known if the requirement for ground water sampling has been triggered for the new incident the well search was updated on July 17, 2018 (to be conservative) using the NJDEP data minor web site to search for all potential potable and irrigation wells within a 1-mile radius of the site. The NJDEP Geo web site was also reviewed to search for community and non-community well head protection areas. Since the well searches conducted did find potable and irrigation wells within ½ mile from the site a door to door survey was initially conducted in 2010 and was updated on April 17, 2018 by sending letters to property owners and tenants who were not available during the 2010 door to door survey. The door to door survey did not identify any potentially potable wells within 500 feet of the site. Furthermore, the Geo Web search indicated the site is not in a sole source aquifer area and that there are no community or non-community well head protection areas within 1-mile of the site. A well search spreadsheet is attached for the survey conducted on July 17, 2018 and an electronic copy has been submitted to [srpgis\\_wrs@dep.state.nj.us](mailto:srpgis_wrs@dep.state.nj.us). A map showing well identified in the July 17, 2018 well search is attached (**Figure 2**).

There is soil at the site that is impacted above the residential direct contact and default soil to ground water standards but those impacts are related to older releases. It is not known at this time if the new incident contributed to the soil impacts. In addition, vapor intrusion investigations have been conducted at the site that were triggered by the old incident. At this time it is not known if the new incident triggered additional VI investigations. The last VI sampling, which involved indoor and ambient air samples at a nearby resident, was conducted on March 6, 2018, which was approximately 6 months before the new incident occurred. No compound was detected above the indoor air screening levels for VI in the samples. Based on the fact that the soil surrounding the UST is a clay with very low permeability and the distance to the nearest structure, which is approximately 120 feet in a side gradient direction it is anticipated that no VI investigation should be required relative to the incident that occurred on August 31, 2017. However ground water sampling will be conducted in the future to confirm that assumption.

## ECOLOGICAL EVALUATION

### 1.0 INTRODUCTION

On September 1, 2017, On-Site Environmental, Inc. (On-Site) conducted a site inspection as part of an ecological evaluation to evaluate if any sensitive receptor was at risk of being impacted by a suspect release of gasoline from the damaged manway on a 12,000 gallon underground storage tank (UST) that stored unleaded gasoline. The findings of that evaluation indicated there were no risk to receptors and no further ecological evaluation were required.

### 2.0 INCIDENT

The incident that the ecological evaluation described here-in is related to involve a release of gasoline from a flex pipe in a damaged manway on a 12,000 gallon UST that occurred on August 30, 2017 (**Figure 3**). It is not an ecological evaluation related to other incidents at the site.

### 3.0 ECOLOGICAL EVALUATION

As part of the ecological evaluation the site was examined for the co-occurrence of the following:

- 1) Environmental Sensitive Natural Resources (ESNRs),
- 2) The presence of Contaminants of Potential Environmental Concern (COPEC), and
- 3) The presence of a contaminated migration pathway from the incident area to the ENSR, or evidence of contaminated material having been placed directly in the ENSR.

### 4.0 IDENTIFICATION OF ESNRs

An ecological evaluation was initiated during On-Site's site inspection on 9/1/17. That evaluation indicated that there was not visual evidence of a migration pathway from the area of concern (AOC) to environmentally sensitive natural resources (ESNRs). There is a swale that is located at the south end of the site that discharges to the local storm drain system that ultimately discharges to Farrington Lake located approximately 1,400 feet to the south, but the swale does not receive runoff from the area where the damaged manway was located. The area of concern associated with the release from the damaged manway and flex pipe was located in an area that was surfaced with concrete and the gasoline that accumulated in the manway/sump reportedly did not overflow the top of the sump but did escape the manway through a compromised seal on an electric line. The compromised seal was located at a depth of approximately 45 inches below surface grade. The site inspection and subsequent review of the NJDEP Geo Web site and NJDEP Landscape 3.3 Viewer did not identify any ESNR on or adjacent to the site or within 200 feet of the property. The NJDEP Geo Web and Landscape Viewer site revealed:

- The closest surface water body is Farrington Lake located approximately 1,400 feet to the south of the site with a NJDEP conservation ranking of 4. A conservation rank of 4 is assigned to areas with one or more documented occurrences of at least one State endangered species (**Figure 4**).

- The closest stream (Lawrence Brook Tributary) is located approximately 1,058 feet to the southwest.
- The closest wetland is located approximately 260 feet to the northwest and has a conservation ranking of 1 (**Figure 4**). A conservation ranking of 1 is the lowest rank, containing habitat areas that meet habitat-specific suitability requirements, such as minimum area criteria for endangered, threatened and priority wildlife species, but that do not intersect with any documented occurrences of such species.
- There is a wooded forest located approximately 123 feet to the north of the site across Route 130, which is a heavy traffic road and borders the north property boundary of the site (**Figure 4**).

The NJDEP Natural Heritage Program (NHP) was also contacted to identify any rare plant species or wildlife on the site and within ¼-mile of the site. The NHP response is attached, which identified the Bald Eagle (Rank 4) and the Great Blue Heron (Rank 2) within ¼-mile of the site. No rare plant species or ecological communities were identified on the site or within ¼-mile of the site.

The NJDEP conservation ranking system assigns various wildlife habitats in a five tier system. Rank 5 is the highest, containing one or more documented occurrences of at least one wildlife species listed as endangered or threatened on the Federal list of endangered and threatened species and Rank 1 is the lowest, containing habitat areas that meet habitat-specific suitability requirements, such as minimum area criteria for endangered, threatened and priority wildlife species, but that do not intersect with any documented occurrences of such species. A conservation rank of 2 is assigned to areas containing one or more documented occurrences of at least one non-listed State priority wildlife species. A conservation rank of 3 is assigned to areas with one or more documented occurrences of at least one State threatened wildlife species. A conservation rank of 4 is assigned to areas with one or more documented occurrences of at least one State endangered species. The ranking number associated with the ESNRs within ¼-mile of the site is shown on **Figure 4**.

Based on the information above, there are no ESNRs on the site or adjacent to the site. As mentioned above the nearest ESNR (a deciduous wooded wetland with a conservation rank of 1) is located approximately 260 feet to the northwest of the site.

## **5.0 CONTAMINANTS OF POTENTIAL ECOLOGICAL CONCERN (COPEC)**

### **5.1 COPEC in Soil**

If contaminated soils are located at a site, the level of contamination must be compared to the NJDEP Ecological Screening Criteria (ESC) to determine the effects of the contamination on the surrounding environment. The Ecological Soil Screening Levels (Eco-SSL) are concentrations of contaminants that are protective of ecological receptors that may come in contact with the contamination. The only samples collected to date was a sample of the pea gravel adjacent to the compromised seal around an electric line in the damaged manway. The sample was analyzed for volatile organic compounds and was collected a depth of 47-inches below grade, which was a few inches below the release depth. Since the

sample was pea gravel and not soil it was not collected per VOC analysis specifications. However, the analysis did indicate that compounds related to gasoline were detected in the sample. However, no compound was above the ecological soil screening levels. The compounds detected in the sample are listed below long with the ecological screening levels for soil.

<b>Compound</b>	<b>Ecological Screening Level - Soil (mg/kg)</b>	<b>Pea Gravel (mg/kg)</b>
Acetone	NA	1,190
Benzene	0.255 <sup>8</sup>	0.00024 J
2-Butanone	NA	0.153
Naphthalene	0.0994 <sup>8</sup>	0.0105
Styrene	4.69	0.0616
TBA	20 <sup>9</sup>	0.0187 J
Toluene	200 <sup>9</sup>	0.00071 J
Xylenes	10	0.00058 J
TICs	-	0.1451 J
Alkanes	-	0

8: USEPA Region 5, RCRA Ecological Screening Levels (ESCs) represent a protective benchmark (e.g., water quality criteria, sediment quality guidelines/criteria, and chronic no adverse effect levels) for 223 contaminants and are not intended to serve as cleanup levels, but are intended to function as screening levels, <http://www.epa.gov/regrcra/ca/ESL.pdf>.

9:Wildlife Preliminary Remediation Goal based on plant study.

The analytical results were not compared to the Eco-SL for surface water or sediment because no sediment or surface water was detected at the site or in the near vicinity of the site as mentioned above. No contaminants were detected in the pea gravel soil above the NJDEP Eco -SSL.

## 5.2 COPEC in Groundwater

If contaminated ground water could potentially migrate to surface water the level of contamination in ground water must be compared to the NJDEP Ecological Screening Criteria (ESC) for surface water. The Ecological Screening Levels (ESL) are concentrations of contaminants that are protective of ecological receptors that may come in contact with the contamination.

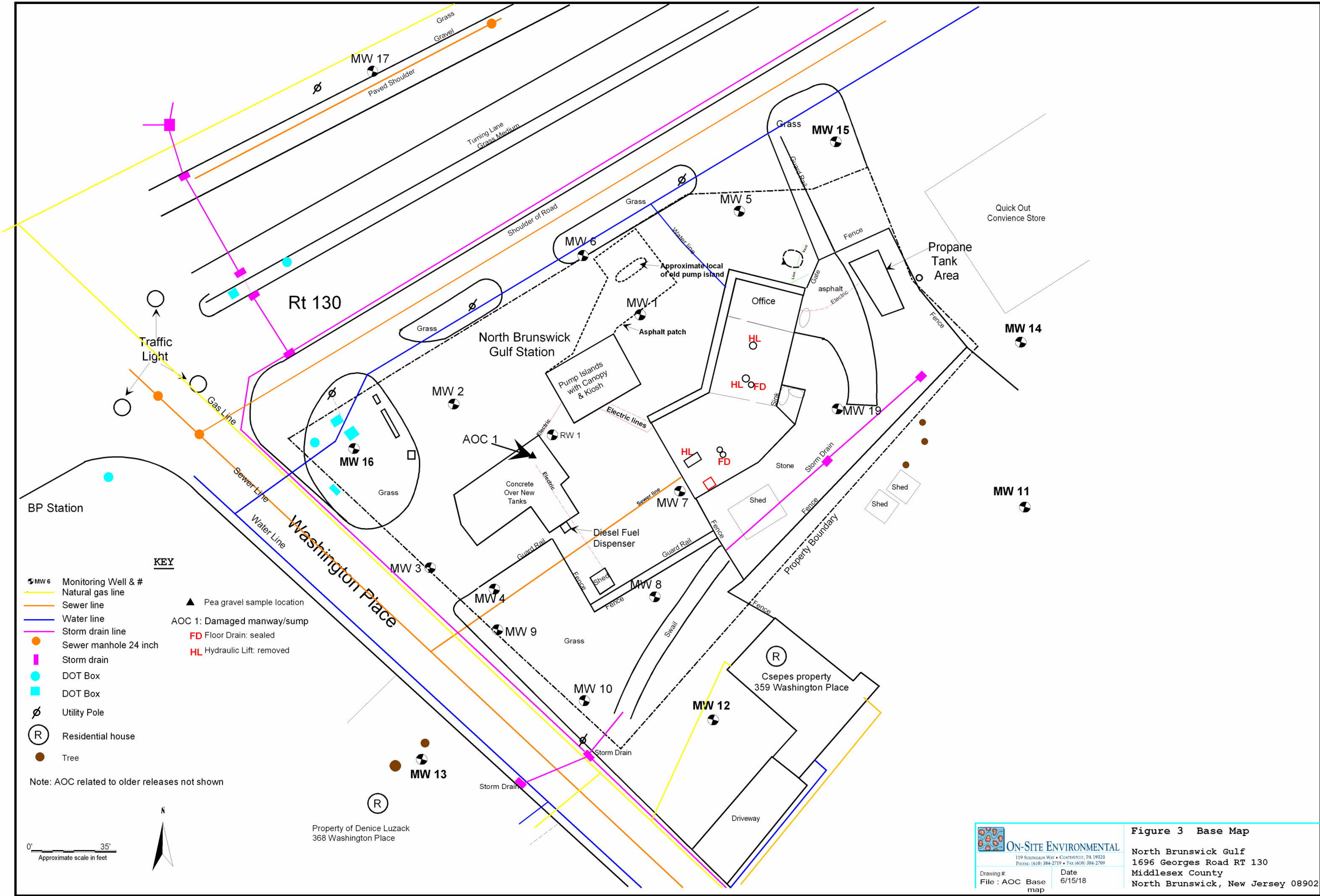
No ground water samples have been collected at the site since the incident occurred for comparison to the ecological surface water quality standards. However, based on professional judgment soil leechate to ground water and subsequent transport to an ESNR via ground water transport is not a concern due to the low hydraulic conductivity of the water bearing zone ( $7.7 \times 10^{-3}$  ft/day) determined from onsite slug test and the distance to the nearest surface water (approximately 1,400 ft). In summary, it is not expected that contaminant transport by ground water flow will have any impact to surface waters or streams in the area.

## **6.0 Migration Pathway**

There is no migration pathway from the AOC to the local ecology or ENSR. The AOC is located in an area covered by concrete and asphalt and the release was at a depth of approximately 45-inches below grade. Furthermore, since there is no ENSR on or adjacent to the site and the potential impacts are greater than 2 feet below grade and the soil has a very low permeability there is not a direct or indirect pathway to an ENSR at the North Brunswick Gulf station that is related to the incident that occurred on August 31, 2017.

## **7.0 RESULTS**

Based on the findings above, it is concluded that no additional ecological investigation is warranted for the incident since there are no ENSR on or directly adjacent to the site and ground water transport to an ENSR is unlikely due to the low permeability of the local aquifer and the distance to the nearest surface water.

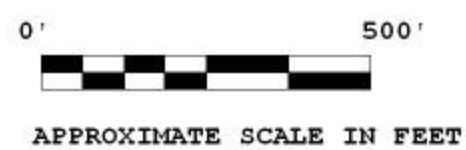


<p>119 SHEPHERD WAY • COATESVILLE, PA 19320 PHONE: (610) 384-2719 • FAX: (610) 384-2709</p>		<p><b>Figure 3 Base Map</b></p> <p>North Brunswick Gulf 1696 Georges Road RT 130 Middlesex County North Brunswick, New Jersey 08902</p>
<p>Drawing # File : AOC Base map</p>	<p>Date 6/15/18</p>	



**KEY**

- Urban Area
- Water Body



**ON-SITE ENVIRONMENTAL**  
 119 SHEPHERDS WAY • COATESVILLE, PA 19320  
 PHONE: (610) 384-2719 • FAX: (610) 384-2709

Drawing #: \_\_\_\_\_ Date: 7/25/18  
 File: wetland

**Figure 4 Environmentally Sensitive Resource in Area**  
 North Brunswick Gulf  
 1696 Georges Road  
 North Brunswick, NJ



## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Division of Parks & Forestry

State Forestry Service

Mail Code 501-04

Office of Natural Lands Management – Natural Heritage Program

P.O. Box 420

Trenton, NJ 08625-0420

Tel. (609) 984-1339 Fax. (609) 984-1427

CHRIS CHRISTIE  
*Governor*

KIM GUADAGNO  
*Lt. Governor*

BOB MARTIN  
*Commissioner*

September 21, 2017

Frank Jasiulewicz  
On-Site Environmental, Inc.  
119 Sheperds Way  
Coatesville, PA 19320

Re: North Brunswick Gulf (AKA 1696 Rt 130, LLC)  
Block(s) - 282, Lot(s) - 1  
North Brunswick Township, Middlesex County

Dear Mr. Jasiulewicz:

Thank you for your data request regarding rare species information for the above referenced project site.

Searches of the Natural Heritage Database and the Landscape Project (Version 3.3) are based on a representation of the boundaries of your project site in our Geographic Information System (GIS). We make every effort to accurately transfer your project bounds from the topographic map(s) submitted with the Natural Heritage Data Request Form into our Geographic Information System. We do not typically verify that your project bounds are accurate, or check them against other sources.

We have checked the Landscape Project habitat mapping and the Biotics Database for occurrences of any rare wildlife species or wildlife habitat on the referenced site. The Natural Heritage Database was searched for occurrences of rare plant species or ecological communities that may be on the project site. Please refer to Table 1 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented on site. A detailed report is provided for each category coded as 'Yes' in Table 1.

We have also checked the Landscape Project habitat mapping and Biotics Database for occurrences of rare wildlife species or wildlife habitat in the immediate vicinity (within ¼ mile) of the referenced site. Additionally, the Natural Heritage Database was checked for occurrences of rare plant species or ecological communities within ¼ mile of the site. Please refer to Table 2 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented within the immediate vicinity of the site. Detailed reports are provided for all categories coded as 'Yes' in Table 2. These reports may include species that have also been documented on the project site.

The Natural Heritage Program reviews its data periodically to identify priority sites for natural diversity in the State. Included as priority sites are some of the State's best habitats for rare and endangered species and ecological communities. Please refer to Tables 1 and 2 (attached) to determine if any priority sites are located on or in the immediate vicinity of the site.

A list of rare plant species and ecological communities that have been documented from the county (or counties), referenced above, can be downloaded from <http://www.state.nj.us/dep/parksandforests/natural/heritage/countylist.html>. If suitable habitat is present at the project site, the species in that list have potential to be present.

Status and rank codes used in the tables and lists are defined in EXPLANATION OF CODES USED IN NATURAL HERITAGE REPORTS, which can be downloaded from [http://www.state.nj.us/dep/parksandforests/natural/heritage/nhpcodes\\_2010.pdf](http://www.state.nj.us/dep/parksandforests/natural/heritage/nhpcodes_2010.pdf).

NHP File No. 17-4007444-12719

Beginning May 9, 2017, the Natural Heritage Program reports for wildlife species will utilize data from Landscape Project Version 3.3. If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend that you visit the interactive web application at the following URL, <https://njdep.maps.arcgis.com/apps/webappviewer/index.html?id=0e6a44098c524ed99bf739953cb4d4c7>, or contact the Division of Fish and Wildlife, Endangered and Nongame Species Program at (609) 292-9400.

For additional information regarding any Federally listed plant or animal species, please contact the U.S. Fish & Wildlife Service, New Jersey Field Office at <http://www.fws.gov/northeast/njfieldoffice/endangered/consultation.html>.

PLEASE SEE 'CAUTIONS AND RESTRICTIONS ON NHP DATA', which can be downloaded from <http://www.state.nj.us/dep/parksandforests/natural/heritage/newcaution2008.pdf>.

Thank you for consulting the Natural Heritage Program. The attached invoice details the payment due for processing this data request. Feel free to contact us again regarding any future data requests.

Sincerely,



Robert J. Cartica  
Administrator

c: NHP File No. 17-4007444-12719

Mail Code 501-04  
 Department of Environmental Protection  
 State Forestry Service  
 Office of Natural Lands Management  
 P.O. Box 420 Trenton, New Jersey 08625-0420  
 Tel. (609) 984-1339 Fax. (609) 984-1427

# *Invoice*

		Date	Invoice #
		9/21/2017	12719
Bill to: On-Site Environmental, Inc. 119 Sheperds Way Coatesville, PA 19320		Make check payable to: <b>Office of Natural Lands Management</b> And forward with a copy of this statement to: <b>Mail Code 501-04</b> <b>Office of Natural Lands Management</b> <b>P.O. Box 420 Trenton, New Jersey 08625-0420</b>	
Quantity (hrs.)	Description	Rate (per hr.)	Amount
1	Natural Heritage Database search for locational information of rare species and ecological communities. Project: 17-4007444-12719	\$ 70.00	\$ 70.00
Frank Jasiulewicz Project Name: North Brunswick Gulf (AKA 1696 Rt 130, LLC)		<b>Total</b>	\$ 70.00

**Table 1: On Site Data Request Search Results (6 Possible Reports)**

<b><u>Report Name</u></b>	<b><u>Included</u></b>	<b><u>Number of Pages</u></b>
1. Possibly on Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites On Site	No	0 pages included
3. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	No	0 pages included
4. Vernal Pool Habitat on the Project Site Based on Search of Landscape Project 3.3	No	0 pages included
5. Rare Wildlife Species or Wildlife Habitat on the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	No	0 pages included
6. Other Animal Species On the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	No	0 pages included

**Table 2: Vicinity Data Request Search Results (6 possible reports)**

<b><u>Report Name</u></b>	<b><u>Included</u></b>	<b><u>Number of Pages</u></b>
1. Immediate Vicinity of the Project Site Based on Search of Natural Heritage Database: Rare Plant Species and Ecological Communities Currently Recorded in the New Jersey Natural Heritage Database	No	0 pages included
2. Natural Heritage Priority Sites within the Immediate Vicinity	No	0 pages included
3. Rare Wildlife Species or Wildlife Habitat Within the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Species Based Patches	Yes	1 page(s) included
4. Vernal Pool Habitat In the Immediate Vicinity of Project Site Based on Search of Landscape Project 3.3	No	0 pages included
5. Rare Wildlife Species or Wildlife Habitat In the Immediate Vicinity of the Project Site Based on Search of Landscape Project 3.3 Stream Habitat File	No	0 pages included
6. Other Animal Species In the Immediate Vicinity of the Project Site Based on Additional Species Tracked by Endangered and Nongame Species Program	No	0 pages included

**Rare Wildlife Species or Wildlife Habitat Within the  
Immediate Vicinity of the Project Site Based on Search of  
Landscape Project 3.3 Species Based Patches**

<b>Class</b>	<b>Common Name</b>	<b>Scientific Name</b>	<b>Feature Type</b>	<b>Rank</b>	<b>Federal Protection Status</b>	<b>State Protection Status</b>	<b>Grank</b>	<b>Srank</b>
<i>Aves</i>								
	Bald Eagle	Haliaeetus leucocephalus	Foraging	4	NA	State Endangered	G5	S1B,S2N
	Great Blue Heron	Ardea herodias	Foraging	2	NA	Special Concern	G5	S3B,S4N