

APPENDIX K

4/11/23 Envirocare Letter Report

April 11, 2023

Delivered via e-mail: frey@email.chop.edu, and jgaloski@resolutemgmt.com lapphouse@verizon.net,

Ruth Frey
Judy Lapp
Partners
1696 Route 130, LLC
North Brunswick Gulf
1696 Georges Rd Route 130
North Brunswick, New Jersey 08902

Re: Groundwater Investigation Results Review and Findings
1696 Georges Rd., Route 130
North Brunswick, NJ 08902
Program Interest # 010180

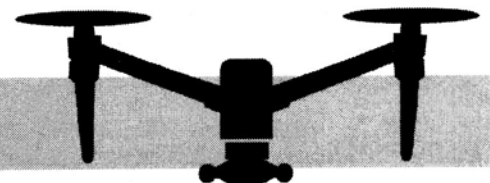
Dear Ms. Frey:

Envocare Environmental & Facility Management Inc. (ENVO CARE) was contracted by 1696 Route 130, LLC (the Client) to conduct groundwater sampling at the 1696 Georges Road site located in North Brunswick, NJ (the site). A Property Plan is included as Figure 1. Site location map is presented as Figure 2.

ENVO CARE conducted groundwater sampling of the wells on March 6th, 2023. Prior to groundwater sampling, the depth to water was measured in each of the groundwater monitoring wells. The groundwater elevation was calculated by subtracting the depth to groundwater from the surveyed top of casing elevations of the monitoring wells. The potentiometric surfaces were plotted on the groundwater contour map. The map indicates the groundwater flow direction is in an east direction.

Prior to sampling the well head were screen for volatile organic vapors using photo ionization detector (PID) meter. During site activities, the wells total depth and depth to water elevations were measured. ENVO CARE found that MW-1 had a strong volatile organic (VO) odor. and field instrument readings of 999 parts per million (ppm) and MW-6 had a PID reading of 347 ppm. A total of 16 groundwater monitoring wells installed onsite by previous consultant, eleven groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-11, MW-14 and MW-19) were selected for sampling. MW-8 and MW-19 could not be located due to obstructions.

The samples were taken using a volumetric purge method. The natural attenuation parameters were measured: pH, temperature, dissolved oxygen, oxygen reduction potential, and specific conductivity, using a YSI U52 Water Parameter Meter (YSI). The data generated from volume-averaged sampling can provide useful



information regarding the contamination present in groundwater. The purge water was filtered using a carbon bucket.

Groundwater samples were collected from the four (9) groundwater monitoring wells and submitted for laboratory analysis of Benzene, Toluene, Ethylbenzene, Xylenes (BETX), Methyl Tert Butyl Ether (MTBE), Tert-Butyl Alcohol (TBA) via EPA Method 8260D, and 1,2-Dibromoethane, 1,2-Dibromo-3-chloropropane via Method 8011, Naphthalene via EPA Method 8270E-SIM.

The analytical results were compared to the Ground Water Quality Standards (GWQS), N.J.A.C 7:26D and vapor intrusion screening criteria. Analytical results indicated the presence of Benzene, Ethylbenzene, Toluene (BETX) and TBA, that were above the GWQS in MW-1 (See Figure 4), Benzene was reported at the concentrations above GWQS in MW-5, MW-6 and MW-7. Total Xylene concentrations was reported above the GWQS in samples MW-6 and MW-7. The groundwater sampling summary and depth to groundwater measurements is presented as Table 1. A groundwater contour map is presented in Figure 3. The laboratory analysis results are presented in Table 2.

Overall, the total VOC concentrations decreased in each of the four monitoring wells and have generally indicated decreasing total VOC concentrations since the initial sampling. However, the natural attenuation of BETX compounds below regulatory standards will take much longer. Therefore, an in-situ remedial option is recommended. ENVOCAE will prepare and submit the proposal for the pilot test study.

Please contact the undersigned at (732) 208-0928 if you require further information or clarification.

Kind Regards,

Devang Patel
Project Manager

Figures

Figure 1 Site location Map

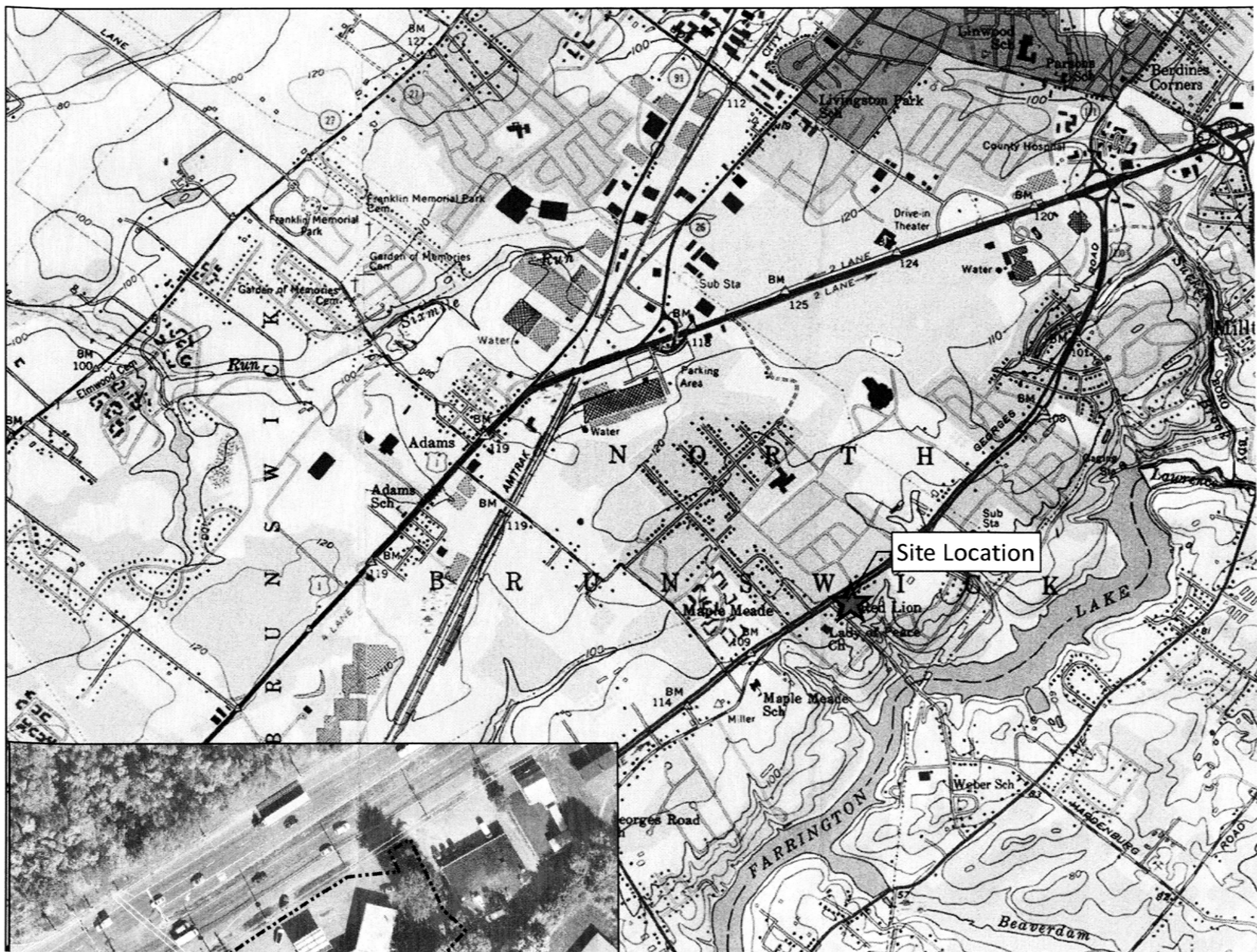
Figure 2 Site Plan

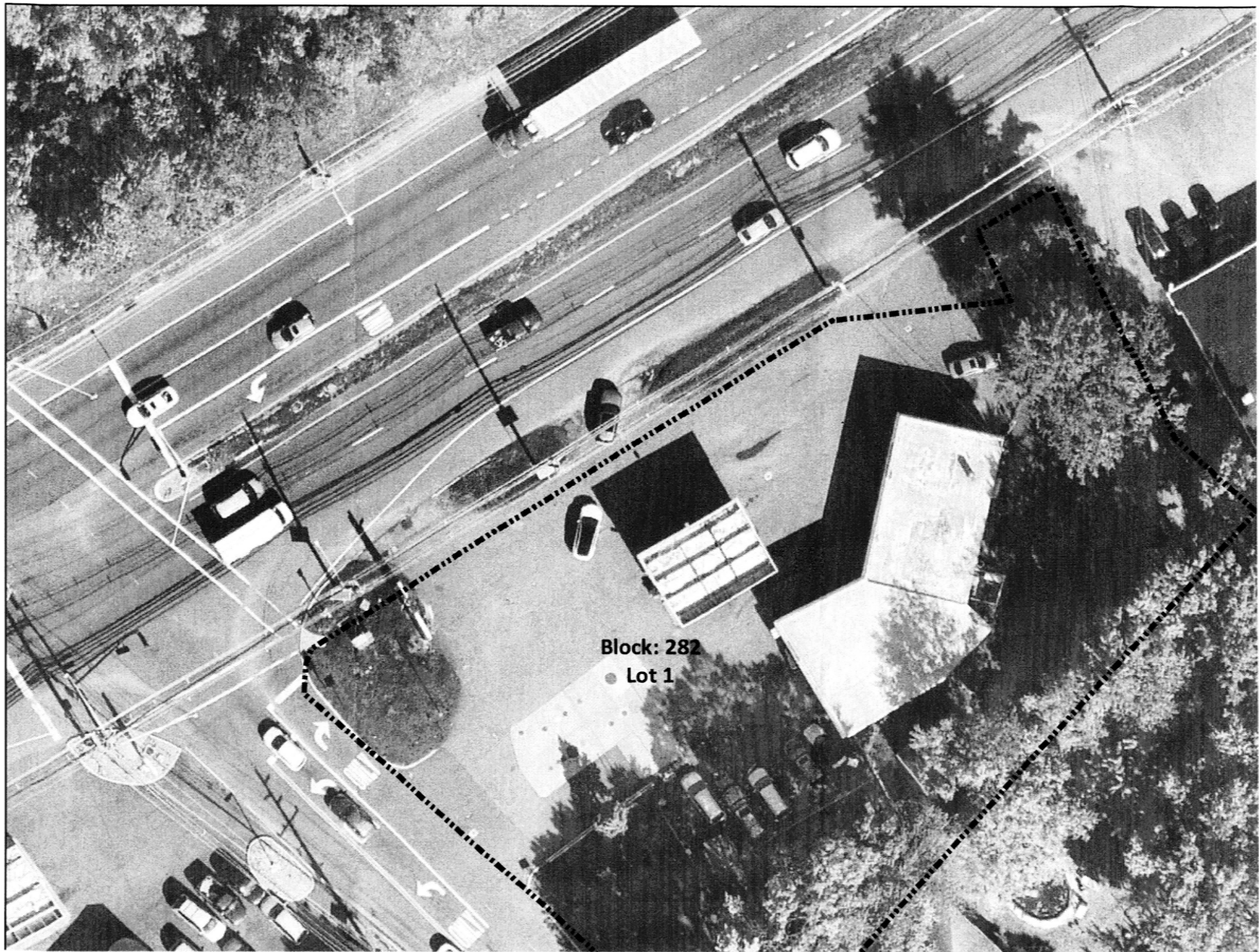
Figure 3 Well Location Map

Tables

Table 1 Sample Summary Table

Table 2 Groundwater Analytical Results





Block: 282

● Lot 1



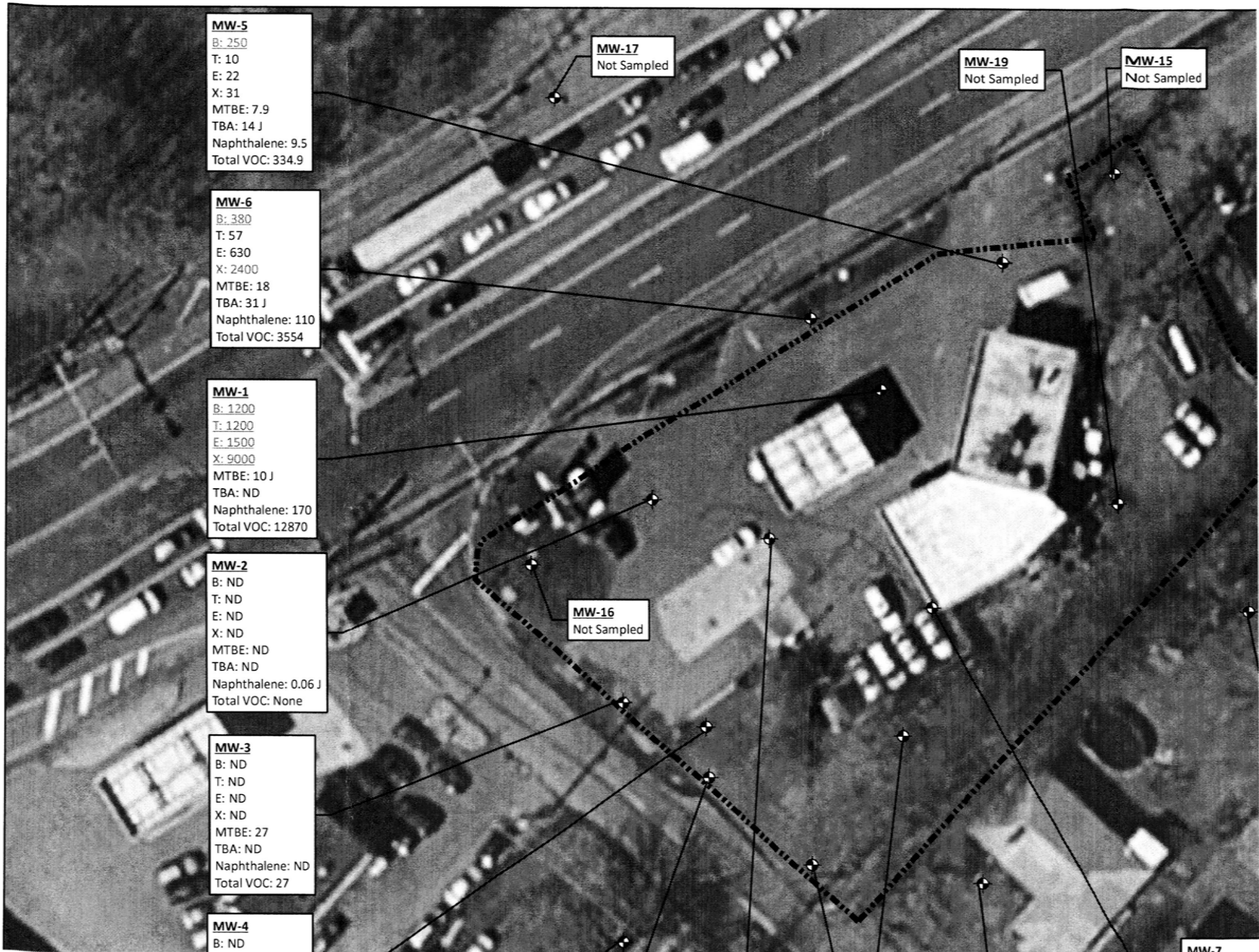


Table 1 Sample Summary
 1696 Georges Rd., Route 130
 North Brunswick, NJ 08902
 Program Interest # 010180

Sample Location	Sampling Date	Sample ID	Elevation of Inner Casing	Depth To Water	Adjusted GW Elevation	Depth To Bottom	PID	Analysis
Monitoring Wells			Feet	Feet	Feet	Feet	PPM	
MW-1	3/6/2023	MW-1	109.95	4.54	105.41	19.35	999	BETX, MTBE, TBA, TICs, 8011, NAP
MW-2	3/6/2023	MW-2	109.25	4.50	104.75	19.00	0	BETX, MTBE, TBA, TICs, 8011, NAP
MW-3	3/6/2023	MW-3	105.65	2.70	102.95	20.10	0	BETX, MTBE, TBA, TICs, 8011, NAP
MW-4	3/6/2023	MW-4	107.42	2.35	105.07	20.15	0	BETX, MTBE, TBA, TICs, 8011, NAP
MW-5	3/6/2023	MW-5	110.27	4.37	105.90	19.45	0	BETX, MTBE, TBA, TICs, 8011, NAP
MW-6	3/6/2023	MW-6	110.02	4.41	105.61	19.50	347	BETX, MTBE, TBA, TICs, 8011, NAP
MW-7	3/6/2023	MW-7	109.83	4.55	105.28	19.40	0	BETX, MTBE, TBA, TICs, NAP
MW-8	3/6/2023	N/S	107.7	unable to locate		-		
MW-9	3/6/2023	N/S	105.81	N/A		-	0	
MW-10	3/6/2023	N/S	106.02	N/A		-	0	
MW-11	3/6/2023	MW-11	106.24	0.59	105.65	19.40	0	BETX, MTBE, TBA, TICs, NAP
MW-12	3/6/2023	MW-12	106.33	2.75	103.58	17.90	0	BETX, MTBE, TBA, TICs, NAP
MW-13		N/S	105.79					
MW-14		N/S	106.47					
MW-15		N/S	109.49					
MW-16		N/S	108.72					
MW-17		N/S	109.79					
MW-18		N/S	102.13					
MW-19		N/S	109.72	unable to locate				
MW-20		N/S	101.03					
RW-1		N/S	109.12					

Footnotes

EPH: Extractable Petroleum Hydrocarbons

N/S: Not Sampled

Benzene, Toluene, Ethylbenzene, Xylenes (BETX)

Methyl Tert Butyl Ether (MTBE), Tert-Butyl Alcohol (TBA)

8011: 1,2-Dibromoethane, 1,2-Dibromo-3-chloropropane

NAP: Napthalene

~~Strikethrough indicate excavated samples~~

NAP + 2MNAP: Napthalene and 2-Methylnapthalene

SAMPLE ID LAW ID COLLECTION DATE SAMPLE MATRIX	MW-1 L2120198-01 3/7/2023 WATER		MW-2 L2120198-02 3/7/2023 WATER				MW-3 L2120198-03 3/7/2023 WATER				MW-4 L2120198-04 3/6/2023 WATER				MW-5 L2120198-05 3/7/2023 WATER				MW-6 L2120198-06 3/7/2023 WATER				MW-7 L2120198-07 3/6/2023 WATER				MW-11 L2120198-08 3/6/2023 WATER				MW-24 L2120198-09 3/7/2023 WATER				TB L2120198-10 3/6/2023 WATER							
	CAS	SMICS [ug/l]	VIGMS [ug/l]	Conc		RL		MDL		Conc		RL		MDL		Conc		RL		MDL		Conc		RL		MDL		Conc		RL		MDL		Conc		RL		MDL				
				Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	Q	U	
MIODUCTRACIBLES BY GC																																										
1,2-Dichloroethane	106-93-4	0.03	0.45	<0.005	U	0.01	0.005	<0.005	U	0.01	0.005	<0.005	U	0.01	0.005	<0.005	U	0.01	0.005	<0.005	U	0.01	0.005	<0.005	U	0.01	0.005	<0.005	U	0.01	0.005	<0.005	U	0.01	0.005	<0.005	U	0.01	0.005			
1,2-Dibromo-3-chloropropane	96-12-8	0.02		<0.003	U	0.01	0.003	<0.003	U	0.01	0.003	<0.003	U	0.01	0.003	<0.003	U	0.01	0.003	<0.003	U	0.01	0.003	<0.003	U	0.01	0.003	<0.003	U	0.01	0.003	<0.003	U	0.01	0.003	<0.003	U	0.01	0.003			
VOLATILE ORGANICS BY GC/MS																																										
Benzene	71-41-2	1	23	1200			2	<0.08	U	0.5	0.08	<0.08	U	0.5	0.08	250	1	0.14	380	5	0.8	1400	5	0.8	<0.08	U	0.5	0.08	<0.08	U	0.5	0.08	<0.08	U	0.5	0.08	<0.08	U	0.5	0.08		
Toluene	108-88-3	800	3E+05	1200			39	<0.2	U	0.75	0.2	<0.2	U	0.75	0.2	10	13	0.41	57	7.5	2	320	7.5	2	<0.2	U	0.75	0.2	<0.2	U	0.75	0.2	<0.2	U	0.75	0.2	<0.2	U	0.75	0.2		
o-Xylene	106-41-4	700	700	1000			12	<0.17	U	0.5	0.17	<0.17	U	0.5	0.17	22	2	0.33	630	5	1.7	460	5	1.7	<0.17	U	0.5	0.17	<0.17	U	0.5	0.17	<0.17	U	0.5	0.17	<0.17	U	0.5	0.17		
Methyl tert-butyl ether	1634-04-4	70	680	10	J	25	4.2	<0.17	U	1	0.17	21	1	0.17	7	1	0.17	7.6	2	0.33	18	10	1.7	48	10	1.7	<0.17	U	1	0.17	0.4	1	0.17	<0.17	U	1	0.17	<0.17	U	1	0.17	
p/m-Xylene	17960-23-1			8930			25	8.3	<0.33	U	1	0.33	<0.33	U	1	0.33	31	2	0.66	2400	10	3.1	1400	10	3.1	<0.33	U	1	0.33	<0.33	U	1	0.33	<0.33	U	1	0.33	<0.33	U	1	0.33	
m-Xylene	95-47-6			160			25	9.8	<0.39	U	1	0.39	<0.39	U	1	0.39	<0.39	U	1	0.78	38	10	3.9	100	10	3.9	<0.39	U	1	0.39	<0.39	U	1	0.39	<0.39	U	1	0.39	<0.39	U	1	0.39
Xylenes, Total	1330-20-7	1000	7800	9000			25	8.3	<0.33	U	1	0.33	<0.33	U	1	0.33	31	2	0.66	2400	10	3.1	2000	10	3.1	<0.33	U	1	0.33	<0.33	U	1	0.33	<0.33	U	1	0.33	<0.33	U	1	0.33	
tert-Butyl Alcohol	75-85-0	100		<0.1	U	250	35	<1.4	U	10	1.4	<1.4	U	10	1.4	14	J	20	2.8	31	J	100	14	69	J	100	14	<1.4	U	10	1.4	2.6	J	10	1.4	<1.4	U	10	1.4			
Total VOCs				12450								17			7					216.9			4247																			
Total TIC Compounds				3930	J	0	0													1050	J	0	0	2082	J	0	0															
PAHS BY GC/MS-SIM																																										
Naphthalene	91-20-3	100	300	170	0.5	0.24	0.06	J	0.1	0.05	<0.05	U	0.1	0.05	<0.05	U	0.1	0.05	9.5	0.1	0.05	110	0.2	0.1	17	0.2	0.1	<0.05	U	0.1	0.05											

APPENDIX L

Soil Disposal Documentation

STRAIGHT BILL OF LADING—SHORT FORM—ORIGINAL—NOT NEGOTIABLE

SHIPPER'S NO.

NAME OF CARRIER

DSE

CARRIER'S NO.

98

DATE

9/13/24

12927

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described below in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that any service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

FROM SHIPPER:
(ORIGIN)

ECC
DISPOSAL SYSTEMS, INC.
1696 Rt 130
No Brunswick, NJ

TO CONSIGNEE:

Miller ENV

STREET

108 E. Lake Rd

DESTINATION

Woodstown NJ 08098

ZIP CODE

DELIVERING CARRIER

DSE

ROUTE

CAR OR VEHICLE INITIALS & NO.

NO. PACKAGES	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (SUBJECT TO CORR.)	CLASS OR RATE	CHARGES (FOR CARRIER USE ONLY)
13	55 gallon drums Petroleum Mixture Solid, Nos (Sol.) Prof 11248			prof 12 11248
	55 gallon drums Petroleum Mixture Liquid Nos (gas + water) For Recovery Prof 11247			REC'D KUBM 09/13/24
24 HR. EMERGENCY RESPONSE (609) 259-6340				

REMIT C.O.D. TO:

COD AMT. \$ _____

C.O.D. FEE:

- Prepaid
- Collect \$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".

NOTE: When the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

† Shipper's imprints in lieu of stamp; not a part of bill of lading approved by the U.S. Dept. of Transportation.

\$ _____ per _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES \$

Freight charges are PREPAID unless marked collect.

Check box if charges are Collect.

"This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation".

Shipper, Per _____

Agent, Per _____

Permanent post-office address of shipper

1

THIS MEMORANDUM

is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

SHIPPER'S NO.

NAME OF CARRIER <i>Disposal Systems Inc</i>	CARRIER'S NO. <i>918</i>	DATE	12889
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RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of receipt by the carrier of the property described in the Original Bill of Lading, the property described below in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that any service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

FROM SHIPPER: (ORIGIN) <i>ECC</i> DISPOSAL SYSTEMS, INC. <i>1696 RT 130</i> <i>NO BRUNSWICK, NT</i>	TO CONSIGNEE: <i>M. Hra ENK</i> STREET <i>108 East Lake Rd</i> DESTINATION <i>Woodstown NJ</i>
	ZIP CODE

DELIVERING CARRIER <i>DSE</i>	ROUTE	CAR OR VEHICLE INITIALS & NO.
----------------------------------	-------	-------------------------------

NO. PACKAGES	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (SUBJECT TO CORR.)	CLASS OR RATE	<input checked="" type="checkbox"/>	CHARGES (FOR CARRIER USE ONLY)
<i>2</i>	<i>55 gal drums Petroleum Mixture (in 55 gal overpacks)</i>				
	<i>Solid, NOS (Sol. Ref 11248)</i>				
	<i>55 gal drums Petroleum Mixture</i>				
	<i>Liquid, Noc (gas + waste)</i>				<i>5 Overpacks</i>
	<i>FOR Recovery Ref 11247</i>				
<i>24 HR. EMERGENCY RESPONSE (609) 259-6340</i>					

REMIT C.O.D. TO: <i>DSE NJDCR-12138</i>	COD AMT. \$ _____	C.O.D. FEE: <input type="checkbox"/> Prepaid <input type="checkbox"/> Collect \$ _____
--	--------------------------	---

<p><small>*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".</small></p> <p><small>† Shipper's imprints in lieu of stamp; not a part of bill of lading approved by the U.S. Dept. of Transportation.</small></p>	<p><small>NOTE: When the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.</small></p> <p><small>The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding</small></p> <p>\$ _____ per _____</p>	<p><small>Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.</small></p> <p><small>The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.</small></p> <p style="text-align: center;">_____ (Signature of Consignor)</p>	<p>TOTAL CHARGES \$</p> <p>Freight charges/are PREPAID unless marked collect.</p> <p><input type="checkbox"/> Check box if charges are Collect.</p>
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"This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation".

[Signature]
Shipper, Per _____
Agent, Per _____

Permanent post-office address of shipper

STRAIGHT BILL OF LADING—SHORT FORM—ORIGINAL—NOT NEGOTIABLE

SHIPPER'S NO. **13007**

NAME OF CARRIER **DSI** CARRIER'S NO. **98** DATE **7/9/25**

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described below in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that any service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

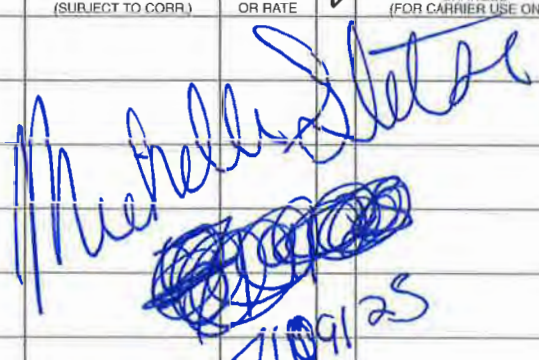
FROM SHIPPER: (ORIGIN) **1696 Rt 130, LLC (ECC) DISPOSAL SYSTEMS, INC. 1696 Rt 130 No Brunswick, NS**

TO CONSIGNEE: **Miller Env**

STREET **108 EAST LAKE Rd.**

DESTINATION **Woodstown NS 08098** ZIP CODE

DELIVERING CARRIER **DSI** ROUTE _____ CAR OR VEHICLE INITIALS & NO. _____

NO. PACKAGES	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (SUBJECT TO CORR.)	CLASS OR RATE	CHARGES (FOR CARRIER USE ONLY)
17	55 gal drums Petroleum Mixture Solid, Nos Prof 11248			 7/10/25
5	55 gal drums Petroleum Mixture Liquid Nos Prof 11247			
DSI - NJ DEP-13138				
24 HR. EMERGENCY RESPONSE (609) 259-6340				

REMIT C.O.D. TO: _____

COD AMT. \$ _____

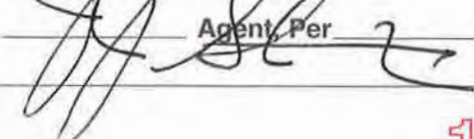
C.O.D. FEE: Prepaid Collect \$ _____

TOTAL CHARGES \$ _____

Freight charges are PREPAID unless marked collect. Check box if charges are Collect.

NOTE: When the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____ (Signature of Consignor)

"This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation".

Shipper, Per  Agent, Per 

Permanent post-office address of shipper _____

APPENDIX M

Soil Boring Logs



BORING ID **MW-1D**

WORK DATE

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	GP7822 HSA
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	Bob Dooley	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	STI	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	665009	WEATHER	

BORING LOG											
Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID			
0.0-5.0			0 - 0.5			No recovery 0.0-5.0. Air knife used to clear hole					
			0.5 - 1.0								
			1.0 - 1.5								
			1.5 - 2.0								
			2.0 - 2.5								
			2.5 - 3.0								
			3.0 - 3.5								
			3.5 - 4.0								
			4.0 - 4.5								
5.0-10.0			5.0 - 5.5			No recovery 5.0-10.0.					
			5.5 - 6.0								
			6.0 - 6.5								
			6.5 - 7.0								
			7.0 - 7.5								
			7.5 - 8.0								
			8.0 - 8.5								
			8.5 - 9.0								
			9.0 - 9.5								
10.0-15.0			10.0 - 10.5		SILT	SILT with som sand, dark brown,, 10.0-12.0					
			10.5 - 11.0	27	SILT						
			11.0 - 11.5		SILT						
			10.0-15.0			11.5 - 12.0	850	SILT	m-f SAND, gray, 12.0-15.0		MW-12
						12.0 - 12.5		SAND			
						12.5 - 13.0	180	SAND			
						13.0 - 13.5		SAND			
						13.5 - 14.0	117	SAND			
						14.0 - 14.5		SAND			
14.5 - 15.0	18	SAND									
15.0-20.0			15.0 - 15.5		SAND	m-f SAND, gray, 15.0-18.0					
			15.5 - 16.0	113	SAND						
			16.0 - 16.5		SAND						
			15.0-20.0			16.5 - 17.0	105	SAND	SILT with some clay,		
						17.0 - 17.5		SAND			
						17.5 - 18.0	127	SAND			
						18.0 - 18.5		SILT			
						18.5 - 19.0	15	SILT			
						19.0 - 19.5		SILT			
			19.5 - 20.0	0	SILT	SILT, with clay, brown, 20.0-23.0					
			20.0 - 20.5		SILT						
			20.5 - 21.0	0	SILT						
			21.0 - 21.5		SILT						
			21.5 - 22.0	0	SILT						



BORING ID **MW-1DD**

WORK DATE
6/9/2025

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	GP7822 HSA
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	William Weaver	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	STI	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	665009	WEATHER	Rainy, 60°

BORING LOG								
Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID
0.0-5.0			0 - 0.5			No recovery 0.0-5.0. Air knife used to clear hole		
			0.5 - 1.0					
			1.0 - 1.5					
			1.5 - 2.0					
			2.0 - 2.5					
			2.5 - 3.0					
			3.0 - 3.5					
			3.5 - 4.0					
			4.0 - 4.5					
5.0-10.0			5.0 - 5.5	64	SILT	sandy SILT, brown and gray, 5.0-7.5		
			5.5 - 6.0	77	SILT			
			6.0 - 6.5	41	SILT			
			6.5 - 7.0	43	SILT			
			7.0 - 7.5	169	SILT			
		7.5 - 8.0						
		8.0 - 8.5						
		8.5 - 9.0						
		9.0 - 9.5						
10.0-15.0			10.0 - 10.5	25	SAND	silty f SAND, brown, 10.0-10.5		
			10.5 - 11.0	6	SAND	c SAND, gray, 10.5-11.5		
			11.0 - 11.5	1	SAND			
		11.5 - 12.0						
		12.0 - 12.5						
		12.5 - 13.0						
		13.0 - 13.5						
		13.5 - 14.0						
		14.0 - 14.5						
15.0-20.0			15.0 - 15.5	8	SAND	m-c SAND, tan/gray, 15.0-17.0		
			15.5 - 16.0	9	SAND			
			16.0 - 16.5	12	SAND			
			16.5 - 17.0	18	SAND	m-c SAND, gray 17.0-18.5		
			17.0 - 17.5	1	SAND			
			17.5 - 18.0	0	SAND			
			18.0 - 18.5	0	SAND	m-c SAND, light brown/tan, 18.5-20.0		
			18.5 - 19.0	0	SAND			
			19.0 - 19.5	0	SAND			
			19.5 - 20.0	0	SAND	f-m SAND, light brown, 20.0-22.5		
			20.0 - 20.5	0	SAND			
			20.5 - 21.0	0	SAND			
			21.0 - 21.5	0	SAND			
			21.5 - 22.0	0	SAND			



BORING ID **MW-2D**

WORK DATE
5/28/2024

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	GP7822 HSA
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	William Weaver	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	STI	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	665009	WEATHER	Sunny, 70°

BORING LOG

Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID		
0.0-5.0			0 - 0.5			No recovery 0.0-5.0. Air knife used to clear hole				
			0.5 - 1.0							
			1.0 - 1.5							
			1.5 - 2.0							
			2.0 - 2.5							
			2.5 - 3.0							
			3.0 - 3.5							
			3.5 - 4.0							
			4.0 - 4.5							
4.5 - 5.0										
5.0-10.0			5.0 - 5.5	0	SAND	m-f SAND , brown 5.0-6.0				
			5.5 - 6.0	0	SAND					
			6.0 - 6.5	0	SILT	SILT with some clay, blue-gray 6.0-6.5				
			6.5 - 7.0	0	SAND	SAND, brown & blue-gray mottled 6.5-7.5				
			7.0 - 7.5	0	SAND					
			7.5 - 8.0	0	SILT	SILT with some clay, gray, 7.5-9.0				
			8.0 - 8.5	0	SILT					
			8.5 - 9.0	0	SILT					
			9.0 - 9.5	0	SAND	m-SAND with pebbles, brown, 9.0-9.3				
9.5 - 10.0	0	SAND	f-SAND and silt, brown to gray, 9.3-10.0							
10.0-15.0			10.0 - 10.5	0	SAND	m-f SAND, red-brown, with silt 10.0-15.0				
			10.5 - 11.0	0	SAND					
			11.0 - 11.5	0	SAND					
			11.5 - 12.0	0	SAND					
			12.0 - 12.5	0	SAND					
			12.5 - 13.0	0	SAND					
			13.0 - 13.5	0	SAND					
			13.5 - 14.0	0	SAND					
			14.0 - 14.5	0	SAND					
14.5 - 15.0	0	SAND								
15.0-20.0			15.0 - 15.5	0	SAND/SILT	m-f red-brown SAND and gray SILT 15.0-18.5				
			15.5 - 16.0	0	SAND/SILT					
			16.0 - 16.5	0	SAND/SILT					
			16.5 - 17.0	0	SAND/SILT					
			17.0 - 17.5	0	SAND/SILT					
			17.5 - 18.0	0	SAND/SILT					
				18.0 - 18.5	0	SAND/SILT				
				18.5 - 19.0						
				19.0 - 19.5						
19.5 - 20.0										
20.0-25.0			20.0 - 20.5	0	SAND/SILT	m-f SAND and SILT, red-brown to gray 20.0-22.0				
			20.5 - 21.0	0	SAND/SILT					
			21.0 - 21.5	0	SAND/SILT					
			21.5 - 22.0	0	SAND/SILT					
					22.0 - 22.5	0	SILT	red-brown to gray SILT with clay 22.0-25.0		
					22.5 - 23.0	0	SILT			
					23.0-23.5	0	SILT			



BORING ID **MW-3D**

WORK DATE
6/9/2025

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	GP7822 HSA
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	William Weaver	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	STI	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	665009	WEATHER	Rainy, 60°

BORING LOG								
Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID
0.0-5.0			0 - 0.5			No recovery 0.0-5.0. Air knife used to clear hole		
			0.5 - 1.0					
			1.0 - 1.5					
			1.5 - 2.0					
			2.0 - 2.5					
			2.5 - 3.0					
			3.0 - 3.5					
			3.5 - 4.0					
			4.0 - 4.5					
4.5 - 5.0								
5.0-10.0			5.0 - 5.5	0	SILT	SILT with some sand, gray 5.0-6.0		
			5.5 - 6.0	0	SILT			
			6.0 - 6.5	0	SAND		fine SAND with some silt, orange to reddish brown 6.0-8.0	
			6.5 - 7.0	0	SAND			
			7.0 - 7.5	0	SAND			
			7.5 - 8.0	0	SAND	fine SAND with some silt and coarse sand, orange to reddish brown 8.0-10.0		
			8.0 - 8.5	0	SAND			
			8.5 - 9.0	0	SAND			
			9.0 - 9.5	0	SAND			
9.5 - 10.0	0	SAND						
10.0-15.0			10.0 - 10.5	0	SAND	medium SAND, reddish brown to orange 10.0-13.0		
			10.5 - 11.0	0	SAND			
			11.0 - 11.5	0	SAND			
			11.5 - 12.0	0	SAND			
			12.0 - 12.5	0	SAND			
			12.5 - 13.0	0	SAND			
			13.0 - 13.5					
			13.5 - 14.0					
			14.0 - 14.5					
14.5 - 15.0								
15.0-20.0			15.0 - 15.5	0	SAND	fine SAND with silt, orange to brown 15.0-16.0		
			15.5 - 16.0	0	SAND			
			16.0 - 16.5	0	SILT	clayey SILT, gray 16.0-17.0		
			16.5 - 17.0	0	SILT			
		17.0 - 17.5						
		17.5 - 18.0						
		18.0 - 18.5						
		18.5 - 19.0						
		19.0 - 19.5						
19.5 - 20.0								
20.0-25.0			20.0 - 20.5	0	SAND	f-m SAND with some silt, reddish brown to orange		
			20.5 - 21.0	0	SAND			
			21.0 - 21.5	0	SAND			
			21.5 - 22.0	0	SAND			
			22.0 - 22.5	0	SAND			
			22.5 - 23.0	0	SILT	clayey SILT, gray 22.5-25.0		
20.0-25.0			23.0-23.5	0	SILT	clayey SILT, gray 22.5-25.0		
			23.5-24.0	0	SILT			
			24.0-24.5	0	SILT			
			24.5-25.0	0	SILT			

ASSOCIATED WELL LOG



BORING ID **MW-5D**

WORK DATE
5/28/2024

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	GP7822 HSA
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	William Weaver	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	STI	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	665009	WEATHER	Sunny, 70°

BORING LOG

Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID						
0.0-5.0			0 - 0.5			No recovery 0.0-5.0. Air knife used to clear hole								
			0.5 - 1.0											
			1.0 - 1.5											
			1.5 - 2.0											
			2.0 - 2.5											
			2.5 - 3.0											
			3.0 - 3.5											
			3.5 - 4.0											
			4.0 - 4.5											
5.0-10.0			5.0 - 5.5	0	SAND/SILT	5.0-10.0 mottled tan to gray fine sand and silt with some clay								
			5.5 - 6.0	0	SAND/SILT									
			6.0 - 6.5	0	SAND/SILT									
			6.5 - 7.0	0	SAND/SILT									
			7.0 - 7.5	0	SAND/SILT									
			7.5 - 8.0	0	SAND/SILT									
			8.0 - 8.5	0	SAND/SILT									
			8.5 - 9.0	0	SAND/SILT									
			9.0 - 9.5	0	SAND/SILT									
10.0-15.0			10.0 - 10.5	0	SAND	medium to coarse brown-tan sand 12.0-14.0								
			10.5 - 11.0	0	SAND									
			11.0 - 11.5	0	SAND									
						11.5 - 12.0	0	SAND	lighter yellow medium sand 14.0-15.0					
						12.0 - 12.5	0	SAND						
									12.5 - 13.0	0	SAND	NO RECOVERY 13.0-15.0		
									13.0 - 13.5	0				
									13.5 - 14.0	0				
									14.0 - 14.5	0				
15.0-20.0						15.0 - 15.5	0	SAND	brown and yellow coarse sand 15.0-18.0					
			15.5 - 16.0	0	SAND									
			16.0 - 16.5	0	SAND									
			16.5 - 17.0	0	SAND									
			17.0 - 17.5	0	SAND									
						17.5 - 18.0	0	SAND	medium yellow sand 18.0-19.0					
						18.0 - 18.5	0	SAND						
						18.5 - 19.0	0	SAND						
						19.0 - 19.5	0	SAND/SILT						
			19.5 - 20.0	0	SAND/SILT	medium white-gray sand with silt and some clay 19.0-20.0								
			20.0 - 20.5	0	SAND									
			20.5 - 21.0	0	SAND									
			21.0 - 21.5	0	SAND									
			21.5 - 22.0	0	SAND									
			22.0 - 22.5	0	SAND	coarse and medium tan to light brown sand 20.0-23.0								



BORING ID **MW-6D**

WORK DATE
6/10/2025

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	GP7822 HSA
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	William Weaver	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	STI	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	665009	WEATHER	Rainy, 60°

BORING LOG										
Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID		
0.0-5.0			0 - 0.5			No recovery 0.0-5.0. Air knife used to clear hole				
			0.5 - 1.0							
			1.0 - 1.5							
			1.5 - 2.0							
			2.0 - 2.5							
			2.5 - 3.0							
			3.0 - 3.5							
			3.5 - 4.0							
			4.0 - 4.5							
			4.5 - 5.0	0						
5.0-10.0			5.0 - 5.5	420	SILT	gray SILT, 5.0-5.5				
			5.5 - 6.0	1,611	SAND	m-c SAND, gray, 5.5-7.5				
			6.0 - 6.5	650	SAND					
			6.5 - 7.0	684	SAND					
			7.0 - 7.5	15	SAND					
					7.5 - 8.0					
					8.0 - 8.5					
					8.5 - 9.0					
					9.0 - 9.5					
			9.5 - 10.0							
10.0-15.0			10.0 - 10.5	772	SAND	c SAND, mottled gray and tan, 10.0-15.0				
			10.5 - 11.0	31	SAND					
			11.0 - 11.5	156	SAND					
			11.5 - 12.0	169	SAND					
			12.0 - 12.5	13	SAND					
			12.5 - 13.0	9	SAND					
			13.0 - 13.5	88	SAND					
			13.5 - 14.0	5	SAND					
			14.0 - 14.5	7	SAND					
			14.5 - 15.0	5	SAND					
15.0-20.0			15.0 - 15.5	64	SAND	silty SAND, gray, 15.0-15.5				
			15.5 - 16.0	29	SAND	c SAND, gray, 15.5-19.0				
			16.0 - 16.5	58	SAND					
			16.5 - 17.0	97	SAND					
			17.0 - 17.5	46	SAND					
			17.5 - 18.0	18	SAND					
						18.0 - 18.5			5	SAND
						18.5 - 19.0			4	SAND
						19.0 - 19.5			4	SAND
			19.5 - 20.0	6	SAND					
20.0-25.0			20.0 - 20.5	0	SAND	m SAND, gray, 20.0-23.0				
			20.5 - 21.0	0	SAND					
			21.0 - 21.5	0	SAND					
			21.5 - 22.0	0	SAND					
			22.0 - 22.5	0	SAND					



BORING ID **MW-15D**

WORK DATE

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	GP7822 HSA
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	William Weaver	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	STI	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	665009	WEATHER	Rainy, 60°

BORING LOG								
Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID
0.0-5.0			0 - 0.5			No recovery 0.0-5.0. Air knife used to clear hole		
			0.5 - 1.0					
			1.0 - 1.5					
			1.5 - 2.0					
			2.0 - 2.5					
			2.5 - 3.0					
			3.0 - 3.5					
			3.5 - 4.0					
			4.0 - 4.5					
4.5 - 5.0								
5.0-10.0			5.0 - 5.5	0	SAND	f silty SAND, alternating bands of reddish-brown and light gray and tan, 5.0-10.0		
			5.5 - 6.0	0	SAND			
			6.0 - 6.5	0	SAND			
			6.5 - 7.0	0	SAND			
			7.0 - 7.5	0	SAND			
			7.5 - 8.0	0	SAND			
			8.0 - 8.5	0	SAND			
			8.5 - 9.0	0	SAND			
			9.0 - 9.5	0	SAND			
9.5 - 10.0	0	SAND						
10.0-15.0			10.0 - 10.5	0	SAND	f silty SAND, mottled gray & tan, 10.0-10.5		
			10.5 - 11.0	0	SILT	sandy SILT, red, 10.5-11.0		
			11.0 - 11.5	0	SAND	f silty SAND, brown, gray and reddish-brown, 11.0-12.0		
			11.5 - 12.0	0	SAND	m-c SAND, light gray and light tan, 12.0-14.0		
			12.0 - 12.5	0	SAND			
			12.5 - 13.0	0	SAND			
			13.0 - 13.5	0	SAND			
			13.5 - 14.0	0	SAND			
			14.0 - 14.5					
14.5 - 15.0								
15.0-20.0			15.0 - 15.5	0	SAND	f-m SAND, light gray and light tan, 15.0-18.5		
			15.5 - 16.0	0	SAND			
			16.0 - 16.5	0	SAND			
			16.5 - 17.0	0	SAND			
			17.0 - 17.5	0	SAND			
			17.5 - 18.0	0	SAND			
			18.0 - 18.5	0	SAND			
			18.5 - 19.0	0	SILT	clayey SILT, gray and red, 18.5-20.0		
			19.0 - 19.5	0	SILT			
19.5 - 20.0	0	SILT						
20.0-25.0			20.0 - 20.5	0	SAND	f and m SAND, light tan, 20.0-22.5		
			20.5 - 21.0	0	SAND			
			21.0 - 21.5	0	SAND			
			21.5 - 22.0	0	SAND			
			22.0 - 22.5	0	SAND			



BORING ID **MW-19D**

WORK DATE
12/5/2023

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	GP7822 HSA
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	Bob Dooley	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	STI	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	665009	WEATHER	

BORING LOG								
Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID
0.0-5.0			0 - 0.5		GRAVEL	GRAVEL		
			0.5 - 1.0		GRAVEL			
			1.0 - 1.5		GRAVEL			
			1.5 - 2.0		GRAVEL			
			2.0 - 2.5		GRAVEL			
			2.5 - 3.0		GRAVEL			
			3.0 - 3.5		GRAVEL			
			3.5 - 4.0		GRAVEL			
			4.0 - 4.5		GRAVEL			
5.0-10.0			4.5 - 5.0		GRAVEL	GRAVEL		
			5.0 - 5.5		GRAVEL			
			5.5 - 6.0		GRAVEL			
			6.0 - 6.5		GRAVEL			
			6.5 - 7.0		GRAVEL			
			7.0 - 7.5		GRAVEL			
			7.5 - 8.0		GRAVEL			
			8.0 - 8.5		GRAVEL			
			8.5 - 9.0		GRAVEL			
10.0-15.0			9.0 - 9.5		GRAVEL	Light brown CLAY, some silt	[Blue Shaded]	
			9.5 - 10.0	2.7	GRAVEL			
			10.0 - 10.5					
			10.5 - 11.0	8.3				
			11.0 - 11.5					
			11.5 - 12.0	3.0				
			12.0 - 12.5					
			12.5 - 13.0	4.2				
			13.0 - 13.5					
15.0-20.0			13.5 - 14.0	1.4		Light brown CLAY, some silt	[Blue Shaded]	
			14.0 - 14.5					
			14.5 - 15.0	1.2				
			15.0 - 15.5	0				
			15.5 - 16.0	0				
			16.0 - 16.5	0				
			16.5 - 17.0	0				
			17.0 - 17.5	0				
			17.5 - 18.0	0				
20.0-25.0			18.0 - 18.5	0		Light brown CLAY, some silt	[Blue Shaded]	
			18.5 - 19.0	0				
			19.0 - 19.5	0				
			19.5 - 20.0	0				
			20.0 - 20.5	0				
			20.5 - 21.0	0		Light brown CLAY, some silt	[Blue Shaded]	
			21.0 - 21.5	0				
			21.5 - 22.0	0				
			22.0 - 22.5	0				



BORING ID **MW-19DD**

WORK DATE
5/29-30/2024

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	Geoprobe 7822DT
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	WRW	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	STI	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	Craig Daniels & Mike Suckey (665009)	WEATHER	Sunny, 70

BORING LOG											
Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID			
0.0-5.0			0 - 0.5			surface asphalt 0.0-1.0					
			0.5 - 1.0								
			1.0 - 1.5								
			1.5 - 2.0								
			2.0 - 2.5								
			2.5 - 3.0								
			3.0 - 3.5								
			3.5 - 4.0								
			4.0 - 4.5								
			4.5 - 5.0			NO RECOVERY 1.0-5.0					
5.0-10.0			5.0 - 5.5								
			5.5 - 6.0								
			6.0 - 6.5								
			6.5 - 7.0								
			7.0 - 7.5								
			7.5 - 8.0								
			8.0 - 8.5								
			8.5 - 9.0								
			9.0 - 9.5								
			9.5 - 10.0			NO RECOVERY 5.0-10.0					
10.0-15.0			10.0 - 10.5	3.5	CLAY/SILT	fine sands quickly transfer to gravel at 10.75' / gray clayey silt 10.75-11.0					
			10.5 - 11.0								
			11.0 - 11.5								
			11.5 - 12.0								
			12.0 - 12.5								
			12.5 - 13.0								
			13.0 - 13.5								
			13.5 - 14.0								
			14.0 - 14.5								
			14.5 - 15.0			NO RECOVERY 10.5-15.0					
15.0-20.0			15.0 - 15.5		CLAY/SILT	thin band of white-gray clayey silt 15.0-16.25					
			15.5 - 16.0		SAND/SILT						
						16.0 - 16.5		SAND/SILT	white-gray silty fine sand 16.25-18.0		
						16.5 - 17.0		SAND/SILT			
						17.0 - 17.5					
						17.5 - 18.0			NO RECOVERY 18.0-20.0		
			18.0 - 18.5								
			18.5 - 19.0								
			19.0 - 19.5								
19.5 - 20.0											
20.0-25.0			20.0 - 20.5		SAND	mottled tan and gray fine and medium sand 20.0-22.0					
			20.5 - 21.0		SAND						
			21.0 - 21.5		SAND						
			21.5 - 22.0		SAND						
						22.0 - 22.5		CLAY/SILT	gray clayey silt 22.0-25.0		
			22.5 - 23.0		CLAY/SILT						
			23.0-23.5		CLAY/SILT						
			23.5-24.0		CLAY/SILT						
			24.0-24.5		CLAY/SILT						
			24.5-25.0		CLAY/SILT						



BORING ID **MW-19B**

WORK DATE
6/2/25-6/3/25

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	Air Rotary
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	William Weaver	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	Talon Drilling Co.	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	592954	WEATHER	Rainy, 60°

BORING LOG								
Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID
0.0-5.0			0 - 0.5			No recovery 0.0-5.0. Air knife used to clear hole		
			0.5 - 1.0					
			1.0 - 1.5					
			1.5 - 2.0					
			2.0 - 2.5					
			2.5 - 3.0					
			3.0 - 3.5					
			3.5 - 4.0					
			4.0 - 4.5					
4.5 - 5.0								
5.0-10.0			5.0 - 5.5		GRAVEL	GRAVEL, fill material, gray		
			5.5 - 6.0		GRAVEL			
			6.0 - 6.5		GRAVEL			
			6.5 - 7.0		GRAVEL			
			7.0 - 7.5		GRAVEL			
			7.5 - 8.0		GRAVEL			
			8.0 - 8.5		GRAVEL			
			8.5 - 9.0		GRAVEL			
			9.0 - 9.5		GRAVEL			
9.5 - 10.0		GRAVEL						
10.0-15.0			10.0 - 10.5		GRAVEL	GRAVEL, fill material, gray		
			10.5 - 11.0		GRAVEL			
			11.0 - 11.5		GRAVEL			
			11.5 - 12.0		GRAVEL			
			12.0 - 12.5		CLAY/SAND		clayey sands, sand-clay mixtures	
			12.5 - 13.0		CLAY/SAND			
			13.0 - 13.5		CLAY/SAND			
			13.5 - 14.0		CLAY/SAND			
			14.0 - 14.5		CLAY/SAND			
14.5 - 15.0		CLAY/SAND						
15.0-20.0			15.0 - 15.5		CLAY/SAND	clayey sands, sand-clay mixtures		
			15.5 - 16.0		CLAY/SAND			
			16.0 - 16.5		CLAY/SAND			
			16.5 - 17.0		CLAY/SAND			
			17.0 - 17.5		CLAY/SAND			
			17.5 - 18.0		CLAY/SAND			
			18.0 - 18.5		CLAY/SAND			
			18.5 - 19.0		CLAY/SAND			
			19.0 - 19.5		CLAY/SAND			
19.5 - 20.0		CLAY/SAND						
20.0-25.0			20.0 - 20.5		CLAY/SAND	clayey sands, sand-clay mixtures		
			20.5 - 21.0		CLAY/SAND			
			21.0 - 21.5		CLAY/SAND			
			21.5 - 22.0		CLAY/SAND			
			22.0 - 22.5		CLAY/SAND			



BORING ID **MW-21D**

WORK DATE
5/28/2024

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	Geoprobe 7822DT
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	WRW	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	STI	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	Craig Daniels & Mike Suckey (665009)	WEATHER	Sunny, 70

BORING LOG

Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID			
0.0-5.0			0 - 0.5			No recovery 0.0-5.0. Air knife used to clear hole					
			0.5 - 1.0								
			1.0 - 1.5								
			1.5 - 2.0								
			2.0 - 2.5								
			2.5 - 3.0								
			3.0 - 3.5								
			3.5 - 4.0								
			4.0 - 4.5								
4.5 - 5.0											
5.0-10.0			5.0 - 5.5	0.0	CLAY/SILT	gray clayey silt 5.0-7.0					
			5.5 - 6.0	1.40	CLAY/SILT						
			6.0 - 6.5	0.30	CLAY/SILT						
			5.0-10.0			6.5 - 7.0	0.10	CLAY/SILT	gray to tan silty medium sand 7.0-8.0		
						7.0 - 7.5	2.0	SAND/SILT			
						7.5 - 8.0	0.0	SAND/SILT			
						8.0 - 8.5					
						8.5 - 9.0					
						9.0 - 9.5					
9.5 - 10.0											
10.0-15.0			10.0 - 10.5	0	SAND	medium to coarse gray sand with some gravel 13.0-15.0					
			10.5 - 11.0	3.50	SAND						
			11.0 - 11.5	2.90	SAND						
			11.5 - 12.0	0.70	SAND						
			10.0-15.0			12.0 - 12.5			NO RECOVERY 12.0-15.0		
						12.5 - 13.0					
						13.0 - 13.5					
						13.5 - 14.0					
						14.0 - 14.5					
14.5 - 15.0											
15.0-20.0			15.0 - 15.5	0	SAND	gray to white medium to fine sand 15.0-20.0					
			15.5 - 16.0	0	SAND						
			16.0 - 16.5	0	SAND						
			16.5 - 17.0	0	SAND						
			17.0 - 17.5	0	SAND						
			17.5 - 18.0	0	SAND						
			18.0 - 18.5	0	SAND						
			18.5 - 19.0	0	SAND						
			19.0 - 19.5	0	SAND						
19.5 - 20.0	0	SAND									
20.0-25.0			20.0 - 20.5	0	SAND	gray to white medium to fine sand 20.0-25.0 fine sand and silt at very end of 25' spoon BORING 25.0	gray END OF				
			20.5 - 21.0	0	SAND						
			21.0 - 21.5	0	SAND						
			21.5 - 22.0	0	SAND						
			22.0 - 22.5	0	SAND						
			22.5 - 23.0	0	SAND						
			23.0-23.5	0	SAND						
			23.5-24.0	0	SAND						
			24.0-24.5	0	SAND						
24.5-25.0	0	SAND									



BORING ID **MW-24D**

WORK DATE
5/28-29/2024

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	Geoprobe 7822DT
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	WRW	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	STI	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	Craig Daniels & Mike Suckey (665009)	WEATHER	Sunny, 70

BORING LOG								
Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID
0.0-5.0			0 - 0.5			Surface Asphalt 0.0-0.5		
			0.5 - 1.0			fine tan sand 0.5-1.0		
			1.0 - 1.5			mottled gray and tan silt with some medium sand 1.0-2.0		
			1.5 - 2.0					
			2.0 - 2.5			NO RECOVERY 2.0-5.0		
			2.5 - 3.0					
			3.0 - 3.5					
			3.5 - 4.0	0.0	SAND			
			4.0 - 4.5	0.0	SAND/SILT			
4.5 - 5.0	0.0	SAND/SILT						
5.0-10.0			5.0 - 5.5	21.8	SILT	gray silt 5.0-7.0		
			5.5 - 6.0	21.60	SILT			
			6.0 - 6.5	1.80	SILT			
			6.5 - 7.0	6.20	SILT			
			7.0 - 7.5			NO RECOVERY 7.0-10.0		
			7.5 - 8.0					
			8.0 - 8.5					
			8.5 - 9.0					
			9.0 - 9.5					
9.5 - 10.0								
10.0-15.0			10.0 - 10.5		SILT	gray clayey silt 10.0-13.0		
			10.5 - 11.0	2.0	SILT			
			11.0 - 11.5	73.0	SILT			
			11.5 - 12.0	458.0	SILT			
			12.0 - 12.5	57.5	SILT			
			12.5 - 13.0	257.3	SILT	gray clayey silt with some tan fine sand 13.0-15.0		
			13.0 - 13.5	1085	SILT/SAND			
			13.5 - 14.0	38.3	SILT/SAND			
			14.0 - 14.5	16.8	SILT/SAND			
14.5 - 15.0	177.3	SILT/SAND						
15.0-20.0			15.0 - 15.5	3.9	SAND	fine to medium sand 15.0-15.5		
			15.5 - 16.0	2.8	CLAY/SILT	dark gray clayey silt 15.5-20.0		
			16.0 - 16.5	0.6	CLAY/SILT			
			16.5 - 17.0	0.7	CLAY/SILT			
			17.0 - 17.5	1.8	CLAY/SILT			
			17.5 - 18.0	0.5	CLAY/SILT			
			18.0 - 18.5	0.7	CLAY/SILT			
			18.5 - 19.0	0.7	CLAY/SILT			
			19.0 - 19.5	0.9	CLAY/SILT			
19.5 - 20.0	0.5	CLAY/SILT						
			20.0 - 20.5	28.7	SILT	gray and tan mottled fine to mediums and with silt 20.0-21.0		
			20.5 - 21.0	34.7	SILT			
			21.0 - 21.5	160.0	SAND	medium gray sand 21.0-22.0		
			21.5 - 22.0	30.9	SAND			



BORING ID **MW-25D**

WORK DATE
6/9/2025

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	GP7822 HSA
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	William Weaver	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	STI	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	665009	WEATHER	Rainy, 60°

BORING LOG								
Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID
0.0-5.0			0 - 0.5			No recovery 0.0-5.0. Air knife used to clear hole		
			0.5 - 1.0					
			1.0 - 1.5					
			1.5 - 2.0					
			2.0 - 2.5					
			2.5 - 3.0					
			3.0 - 3.5					
			3.5 - 4.0					
			4.0 - 4.5					
4.5 - 5.0								
5.0-10.0			5.0 - 5.5	0	SAND	f silty SAND, mottled tan, gray and reddish brown, 5.0-9.0		
			5.5 - 6.0	0	SAND			
			6.0 - 6.5	0	SAND			
			6.5 - 7.0	0	SAND			
			7.0 - 7.5	0	SAND			
			7.5 - 8.0	0	SAND			
			8.0 - 8.5	0	SAND			
			8.5 - 9.0	0	SAND			
					9.0 - 9.5			NO RECOVERY 9.0-10.0
9.5 - 10.0								
10.0-15.0			10.0 - 10.5	0	SILT	SILT, mottled reddish-brown and gray, 10.0-10.5		
			10.5 - 11.0	0	SILT			
			11.0 - 11.5	0	SILT			
			11.5 - 12.0	0	SILT			
			12.0 - 12.5	0	SILT			
			12.5 - 13.0	0	SILT			
			13.0 - 13.5	0	SILT			
			13.5 - 14.0	0	SILT			
			14.0 - 14.5	0	SILT			
14.5 - 15.0	0	SILT						
15.0-20.0			15.0 - 15.5	0	SILT	clayey SILT, mottled reddish-brown and gray, 15.0-20.0		
			15.5 - 16.0	0	SILT			
			16.0 - 16.5	0	SILT			
			16.5 - 17.0	0	SILT			
			17.0 - 17.5	0	SILT			
			17.5 - 18.0	0	SILT			
			18.0 - 18.5	0	SILT			
			18.5 - 19.0	0	SILT			
			19.0 - 19.5	0	SILT			
19.5 - 20.0	0	SILT						
			20.0 - 20.5	0	SILT			
			20.5 - 21.0	0	SILT			
			21.0 - 21.5	0	SILT			
			21.5 - 22.0	0	SILT			



BORING ID **MW-26D**

WORK DATE
6/10/2025

WORK ADDRESS	1696 Route 130 North, North Brunswick, NJ		
PROJECT NAME	N-NB1696G	DRILL METHOD/EQUIPT	GP7822 HSA
PROPERTY OWNER	Noor Petroleum Service Station	SAMPLING METHOD:	
LOGGED BY	William Weaver	BORING DIAMETER (INCHES)	2"
CHECKED BY		DRILLING FLUIDS	
DRILLING CONTRACTOR	STI	PID MODEL/CALIBRATION	
DRILLER & LICENSE NO.	665009	WEATHER	Rainy, 60°

BORING LOG										
Core Interval	SAMPLE INTERVAL	Recovery (Shaded) [Top Down]	Depth Interval	PID (ppm)	SOIL TYPE	SOIL DESCRIPTION	WATER TABLE	SAMPLE ID		
0.0-5.0			0 - 0.5			No recovery 0.0-5.0. Air knife used to clear hole				
			0.5 - 1.0							
			1.0 - 1.5							
			1.5 - 2.0							
			2.0 - 2.5							
			2.5 - 3.0							
			3.0 - 3.5							
			3.5 - 4.0							
			4.0 - 4.5							
5.0-10.0		Shaded	5.0 - 5.5	0	SILT	sandy SILT; gray, 5.0-6.0				
			5.5 - 6.0	0	SILT					
		Recovery			6.0 - 6.5			NO RECOVERY 6.0-10.0		
					6.5 - 7.0					
					7.0 - 7.5					
					7.5 - 8.0					
					8.0 - 8.5					
					8.5 - 9.0					
					9.0 - 9.5					
9.5 - 10.0										
10.0-15.0		Shaded	10.0 - 10.5	0	SAND	f silt SAND, gray, 10.0-11.5				
			10.5 - 11.0	0	SAND					
			11.0 - 11.5	0	SAND					
		Recovery			11.5 - 12.0	0	SILT	clayey SILT, gray, 11.5-13.5		
					12.0 - 12.5	0	SILT			
					12.5 - 13.0	0	SILT			
					13.0 - 13.5	0	SILT			
					13.5 - 14.0					
					14.0 - 14.5					
14.5 - 15.0										
15.0-20.0		Shaded	15.0 - 15.5	0	SAND	f silty SAND, gray, 15.0-17.5				
			15.5 - 16.0	0	SAND					
			16.0 - 16.5	0	SAND					
			16.5 - 17.0	0	SAND					
		Recovery			17.0 - 17.5	0	SAND	clayey SILT, dark gray, 17.5-20.0		
					17.5 - 18.0	0	SILT			
					18.0 - 18.5	0	SILT			
					18.5 - 19.0	0	SILT			
					19.0 - 19.5	0	SILT			
Recovery			19.5 - 20.0	0	SILT	f SAND with silt, gray, 20.0-21.0				
			20.0 - 20.5	0	SAND					
			20.5 - 21.0	0	SAND					
			21.0 - 21.5	0	SILT					
Recovery			21.5 - 22.0	0	SILT	clayey SILT with some f sand, dark gray, 21.0-23.5				

APPENDIX N

Well Records

Abandonment Forms

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: 1696 ROUTE 130, LLC

Company/Organization: 1696 Route 130, LLC

Address: 555 Georges Road Dayton, New Jersey 08810

WELL LOCATION: North Brunswick Gulf

Address: 1696 Georges Road

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500207 Northing (Y): 586344
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL DECOMMISSIONED: May 25, 2021

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-5 (MW-8)

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 20 Was a New Well Drilled? N

Formation Type: Unconsolidated New Well Permit Number: _____

WELL DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	2	2	PVC	Sch 40
Screen	2	20	2	PVC	.010

MATERIALS USED

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	20	2	0	7		3.50
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

Obstruction Type: _____ Authorization Number: _____

Alternative Decomm. Method? No Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

WELL DECOMMISSIONING REPORT

PROPERTY OWNER: 1696 ROUTE 130, LLC

Company/Organization: 1696 Route 130, LLC

Address: 555 Georges Road Dayton, New Jersey 08810

WELL LOCATION: North Brunswick Gulf

Address: 1696 Georges Road aka Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500292 Northing (Y): 586404
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL DECOMMISSIONED: May 25, 2021

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-19

Reason for Decommissioning: No longer in use

Finished Well Depth (ft.): 20 Was a New Well Drilled? N

Formation Type: Unconsolidated New Well Permit Number: _____

WELL DECOMMISSIONING INFORMATION

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole					
Casing	0	5	2	PVC	Sch 40
Screen	5	20	2	PVC	.010

MATERIALS USED

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	20	2	0	7		3.50
Sand/Gravel							

ADDITIONAL INFORMATION

Obstructions: No Authorization Official: _____

Obstruction Type: _____ Authorization Number: _____

Alternative Decomm. Method? No Authorization Date: _____

Method Used _____

ATTACHMENTS: _____

Well Permits

2800054457
- 7000 -
2800054462

MONITORING WELL PERMIT

Permit No _____

Mail To
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON NJ 08625 0426

VALID ONLY AFTER APPROVAL BY THE DEP

COORD # 28.03.3 92

Owner Mr Walter Lapp
Address 1698 Georges Road (Rt 130)
North Brunswick, NJ 08902
Name of Facility North Brunswick Golf
Address - SAME -

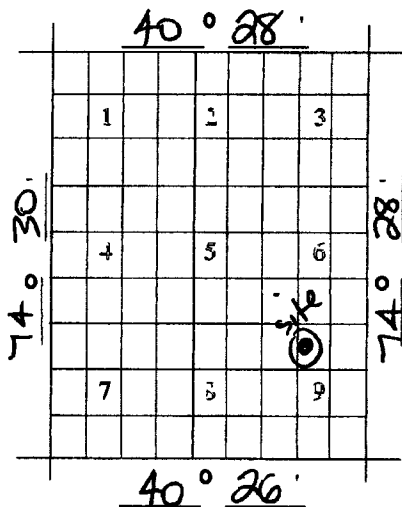
Driller EPI, Inc.
Address 18 Hornerstown Rd.
Cream Ridge, NJ 08814

Diameter of Well(s)	<u>2</u>	Inches	Proposed Depth of Well(s)	<u>20</u>	Feet
# of Wells Applied for (max 10)	<u>6</u>		Will pumping equipment be utilized?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Type of Well (see reverse)	<u>Monitor</u>		If Yes give pump capacity	<u>N/A</u> cumulative GPM	

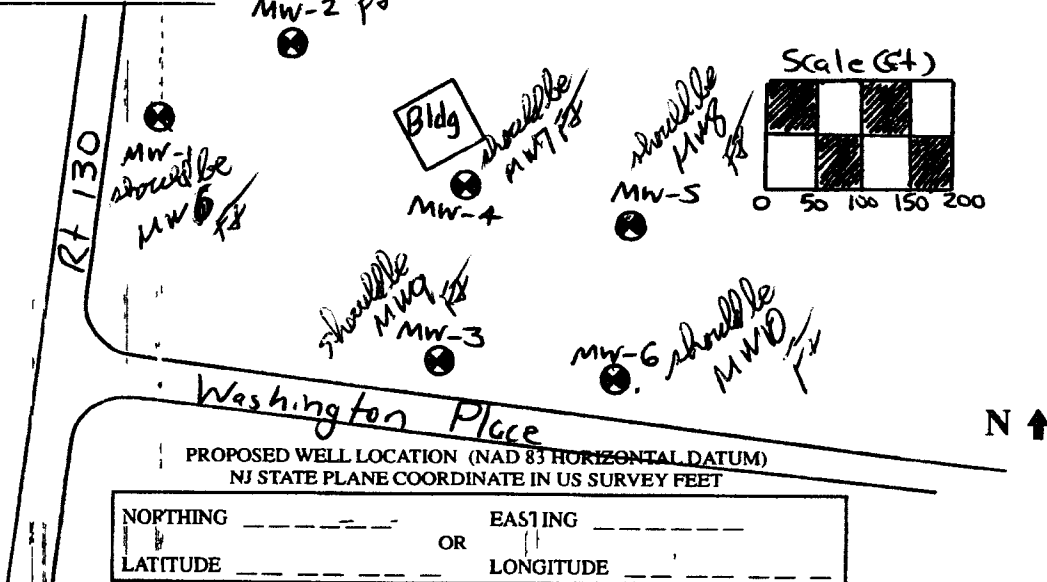
LOCATION OF WELL(S)

Lot # 1 Block # 282 Municipality North Brunswick County Middlesex

State Atlas Map No 28



Draw sketch of well(s) nearest roads, buildings, etc with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING _____ EASTING _____
OR
LATITUDE _____ LONGITUDE _____

FOR MONITORING WELLS, RECOVERY WELLS OR PIEZOMETER THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED.

- RCRA Site
- Underground Storage Tank Site
- Operational Ground Water Permit Site
- Pretreatment and Residuals Site
- Water and Hazardous Waste Enforcement Case
- Water Supply Aquifer Test Observation Well
- Other (explain) _____
- Spill Site
- ISRA Site
- CERCLA (Superfund) Site

CASE ID Number
01-08-30-1546-07

WELL PERMIT APPROVED
NJ DEP
DEC 14 2004
BUREAU OF WATER ALLOCATION

FOR DEP USE Issuance of this permit is subject to the conditions attached (see next page) For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT
In compliance with N.J.S.A. 58:4A-14 application is made for a permit to drill a well as described above.

Date 12/8/04 Signature of Driller [Signature] Registration No J0017863
Signature of Property Owner Rich Britton 732 390 5858

COPIES Water Allocation White Health Dept Yellow Owner Blue Driller White

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: MATT LAWSON, ENV RESOURCE GEOTECH LICENSE # 665009

Permit Issued to: SUBSTRATA TECHNOLOGIES INC.

Company Address: 121 HAWKINS PL #253 BOONTON, NJ 07005

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130 LLC

Address: 555 Georges Road

City: Dayton

State: New Jersey

Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: Gas Station

Address: 1696 Route 130

County: Middlesex

Municipality: North Brunswick Twp

Lot: 1

Block: 282

Easting (X): 500210 Northing (Y): 586435

Local ID: MW-1D

Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

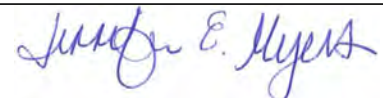
Approval Date: December 4, 2023

Expiration Date: December 3, 2024

Approved by the authority of:

Shawn M. LaTourette

Commissioner



Jennifer Myers, Section Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
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This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: MATT LAWSON, ENV RESOURCE GEOTEC LICENSE # 665009

Permit Issued to: SUBSTRATA TECHNOLOGIES INC.

Company Address: 121 HAWKINS PL #253 BOONTON, NJ 07005

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130 LLC

Address: 555 Georges Road

City: Dayton

State: New Jersey

Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: 1696 Route 130 LLC

Address: 1696 Georges Rd (aka Route 130)

County: Middlesex

Municipality: North Brunswick Twp

Lot: 1

Block: 282

Easting (X): 500215 Northing (Y): 586440

Local ID: MW-1DD

Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

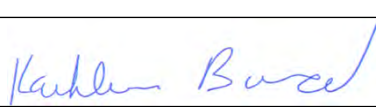
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: June 4, 2025

Expiration Date: June 4, 2026

Approved by the authority of:
Shawn M. LaTourette
Commissioner


Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
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This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

WELL PERMIT

New Well

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Certifying Driller: MATT LAWSON, ENV RESOURCE GEOTEC LICENSE # 665009

Permit Issued to: SUBSTRATA TECHNOLOGIES INC.

Company Address: 121 HAWKINS PL #253 BOONTON, NJ 07005

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130

Address: 555 Georges Road

City: North Brunswick Twp

State: New Jersey

Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: Gas Station

Address: 1696 Route 130

County: Middlesex

Municipality: North Brunswick Twp

Lot: 1

Block: 282

Easting (X): 500130 Northing (Y): 586400

Local ID: MW-2D

Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

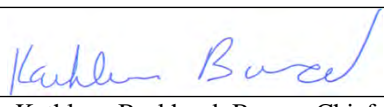
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: May 28, 2024

Expiration Date: May 28, 2025

Approved by the authority of:
Shawn M. LaTourette
Commissioner


Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
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This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

WELL PERMIT

New Well

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PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130 LLC

Address: 555 Georges Road

City: Dayton

State: New Jersey

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SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

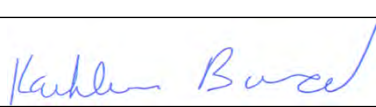
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: June 4, 2025

Expiration Date: June 4, 2026

Approved by the authority of:
Shawn M. LaTourette
Commissioner


Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

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This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

2800054457
- 7000 -
2800054462

MONITORING WELL PERMIT

Permit No _____

Mail To
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON NJ 08625 0426

VALID ONLY AFTER APPROVAL BY THE DEP

COORD # 28.03.3 92

Owner Mr Walter Lapp
Address 1698 Georges Road (Rt 130)
North Brunswick, NJ 08902
Name of Facility North Brunswick Golf
Address - SAME -

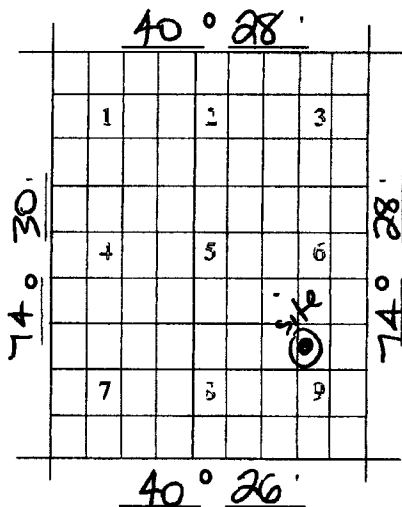
Driller EPI, Inc.
Address 18 Hornerstown Rd.
Cream Ridge, NJ 08814

Diameter of Well(s)	<u>2</u>	Inches	Proposed Depth of Well(s)	<u>20</u>	Feet
# of Wells Applied for (max 10)	<u>6</u>		Will pumping equipment be utilized?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Type of Well (see reverse)	<u>Monitor</u>		If Yes give pump capacity	<u>N/A</u> cumulative GPM	

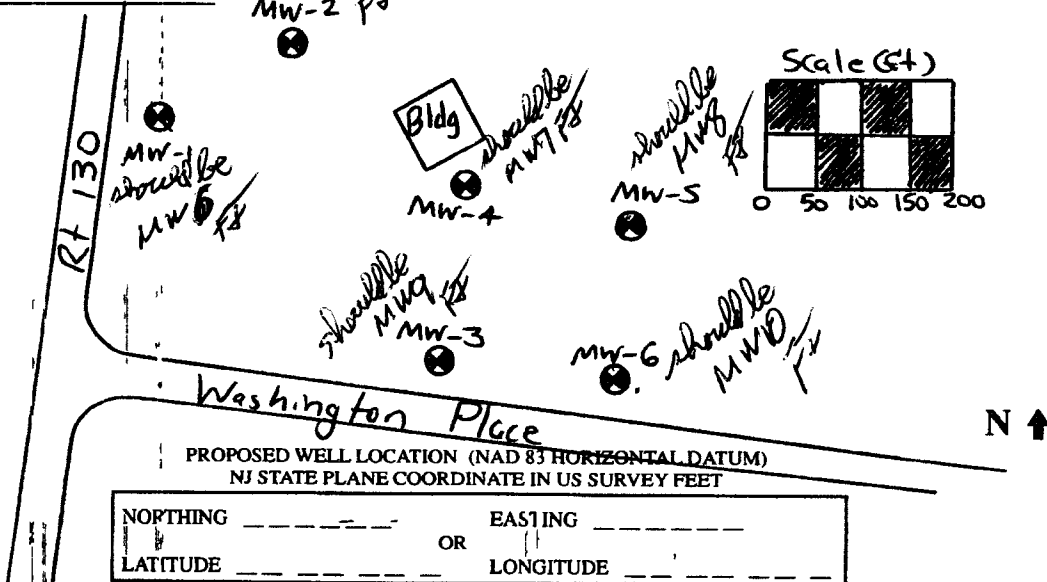
LOCATION OF WELL(S)

Lot # 1 Block # 282 Municipality North Brunswick County Middlesex

State Atlas Map No 28



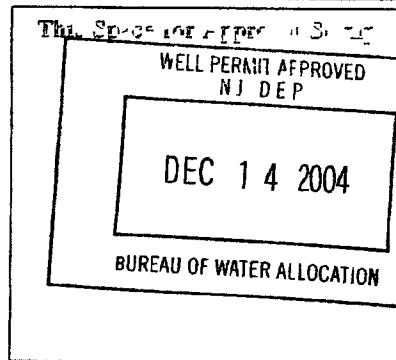
Draw sketch of well(s) nearest roads, buildings, etc with marked distances in feet Each well MUST be labeled with a name and/or number on the sketch



FOR MONITORING WELLS RECOVERY WELLS OR PIEZOMETER THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED

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CASE ID Number
01-08-30-1546-07



FOR DEP USE Issuance of this permit is subject to the conditions attached (see next page) For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT In compliance with N.J.S.A. 58:4A-14 application is made for a permit to drill a well as described above

Date 12/8/04 Signature of Driller [Signature] Registration No J0017863
Signature of Property Owner Rich Britton 732 390 5858

COPIES Water Allocation White Health Dept Yellow Owner Blue Driller White

WELL PERMIT

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Certifying Driller: MATT LAWSON, ENV RESOURCE GEOTEC LICENSE # 665009

Permit Issued to: SUBSTRATA TECHNOLOGIES INC.

Company Address: 121 HAWKINS PL #253 BOONTON, NJ 07005

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130

Address: 555 Georges Road

City: North Brunswick Twp State: New Jersey Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500265 Northing (Y): 586480
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-5D

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

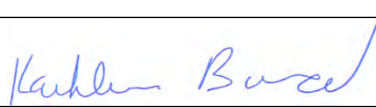
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: May 28, 2024

Expiration Date: May 28, 2025

Approved by the authority of:
Shawn M. LaTourette
Commissioner


Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: MATT LAWSON, ENV RESOURCE GEOTEC LICENSE # 665009

Permit Issued to: SUBSTRATA TECHNOLOGIES INC.

Company Address: 121 HAWKINS PL #253 BOONTON, NJ 07005

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130 LLC

Address: 555 Georges Road

City: Dayton

State: New Jersey

Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: 1696 Route 130 LLC

Address: 1696 Georges Rd (aka Route 130)

County: Middlesex

Municipality: North Brunswick Twp

Lot: 1

Block: 282

Easting (X): 500200 Northing (Y): 586455

Local ID: MW-6D

Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

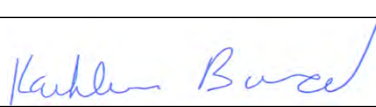
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: June 4, 2025

Expiration Date: June 4, 2026

Approved by the authority of:
Shawn M. LaTourette
Commissioner


Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
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This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

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New Well

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Certifying Driller: MATT LAWSON, ENV RESOURCE GEOTEC LICENSE # 665009

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PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130 LLC

Address: 555 Georges Road

City: Dayton State: New Jersey Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500215 Northing (Y): 586345
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-7D

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments: _____

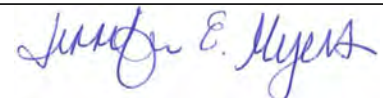
SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: December 4, 2023

Expiration Date: December 3, 2024

Approved by the authority of:

Shawn M. LaTourette
Commissioner



Jennifer Myers, Section Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

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Purpose:	
Unusual Conditions:	
Reason for Deviation:	
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This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

Permit No. 110654

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermitting@dep.state.nj.us

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 28 . 03 . 392

Owner Thomas Csepes
Address 359 Washington Place
North Brunswick, NJ 08912
Name of Facility Residence
Address SAME

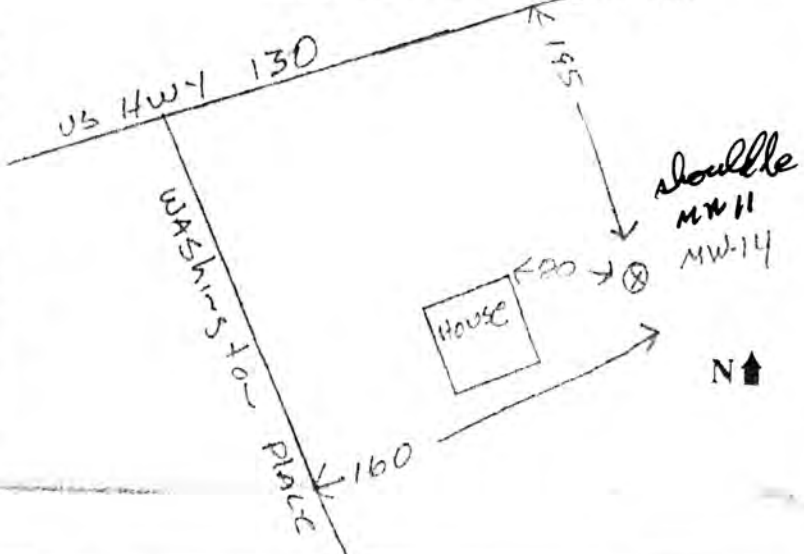
Driller Hamer, Inc
Address 665 Center Ave
Belford, NJ 07718

Diameter of Well(s)	<u>4</u>	Inches	Proposed Depth of Well(s)	<u>20</u>	Feet
# of Wells Applied for (max. 10)	<u>1</u>		Will pumping equipment be utilized?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Type of Well (see reverse)	<u>Monitoring</u>		If Yes, give pump capacity	cumulative GPM	

Lot #	Block #	Municipality	County
<u>85</u>	<u>292</u>	<u>North Brunswick</u>	<u>Middlesex</u>

LOCAL ID	NORTHING (Y)	EASTING (X)
<u>MW-14</u>	<u>586348</u>	<u>500337</u>

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD

SURVEY DIGITAL IMAGE GPS

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- RCRA Site
- Underground Storage Tank Site
- Operational Ground Water Permit Site
- Pretreatment and Residuals Site
- Water and Hazardous Waste Enforcement Case
- Water Supply Aquifer Test Observation Well
- Other (explain) _____
- Spill Site
- ISRA Site
- CERCLA (Superfund) Site

CASE I.D. Number
01-08-30-1546-00

This Space for Approval Stamp

WELL PERMIT APPROVED
NJDEP

SEP - 3 2009

BUREAU OF WATER SYSTEMS
& WELL PERMITTING

FOR D.E.P. USE Issuance of this permit is subject to the conditions attached. (see next page) For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT. In compliance with N.J.S.A.58:14-14, application is made for a permit to drill a well as described above.

Date 8/31/09 Signature of Driller [Signature] Registration No. M1212
Signature of Property Owner Thomas Csepes

COPIES: Water Systems & Well Permitting - White Health Dept. - Yellow Owner - Blue Driller - White

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermitting@dep.state.nj.us

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 28-03-392

Owner Denise LUZAK
Address 368 Washington Place
North Brunswick, NJ 08902
Name of Facility Residence
Address SAME (368)

Driller Hamer, Inc
Address 665 Center Ave
Belford, NJ 07718

Diameter of Well(s)	<u>4</u> Inches	Proposed Depth of Well(s)	<u>20</u> Feet
# of Wells	<u>1</u>	Will pumping equipment be utilized?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Applied for (max. 10)	<u>1</u>	If Yes, give pump capacity	<u>cumulative GPM</u>
Type of Well (see reverse)	<u>Monitoring</u>		

LOCATION OF WELL(S)

Lot # <u>2</u>	Block # <u>283</u>	Municipality <u>N. Brunswick</u>	County <u>Middlesex</u>
----------------	--------------------	----------------------------------	-------------------------

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.

LOCAL ID	NORTHING (Y)	EASTING (X)
<u>MW-16</u>	<u>586239</u>	<u>500157</u>



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD

SURVEY DIGITAL IMAGE GPS

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED.

- RCRA Site
- Underground Storage Tank Site
- Operational Ground Water Permit Site
- Pretreatment and Residuals Site
- Water and Hazardous Waste Enforcement Case
- Water Supply Aquifer Test Observation Well
- Other (explain) _____
- Spill Site
- ISRA Site
- CERCLA (Superfund) Site

CASE I.D. Number

01-08-301546-00

This Space for Approval Stamp

WELL PERMIT APPROVED

SEP - 3 2009

BUREAU OF WATER SYSTEMS & WELL PERMITTING

FOR D.E.P. USE Issuance of this permit is subject to the conditions attached. (see next page) For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.

In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 8/31/09 Signature of Driller [Signature] Registration No. M1212
Signature of Property Owner Denise Luzak

COPIES: Water Systems & Well Permitting - White Health Dept. - Yellow Owner - Blue Driller - White

DWR-133M
1/09

Permit No. 110651

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermitting@dep.state.nj.us

MONITORING WELL PERMIT
VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 28 . 03 . 392

Owner JACOB KRAUSER
Address 1674 US HWY 130
North Brunswick, NJ 08902
Name of Facility STIP MAIL
Address SAMP

Driller HAMEL, INC
Address 665 Center Ave
Belford, NJ 07718

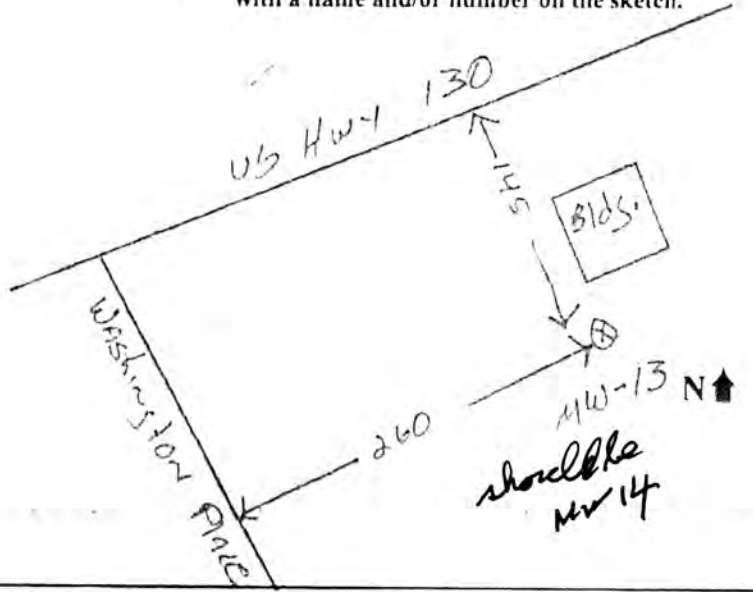
Diameter of Well(s)	<u>4</u>	Inches	Proposed Depth of Well(s)	<u>20</u>	Feet
# of Wells	<u>1</u>		Will pumping equipment be utilized?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Applied for (max. 10)	<u>1</u>		If Yes, give pump capacity		cumulative GPM
Type of Well (see reverse)	<u>Monitoring</u>				

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
<u>1</u>	<u>278</u>	<u>N. Brunswick</u>	<u>Middlesex</u>

LOCAL ID	NORTHING (Y)	EASTING (X)
<u>MW-13</u>	<u>586420</u>	<u>500379</u>

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD
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- Other (explain)
- Spill Site
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CASE I.D. Number
01-08-30-1546-00

This Space for Approval Stamp

WELL PERMIT APPROVED

SEP - 3 2009

BUREAU OF WATER SYSTEMS & WELL PERMITTING

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In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 8/31/09 Signature of Driller [Signature] Registration No. M1212
Signature of Property Owner Jacob Krauser

MONITORING WELL RECORD

Atlas Sheet Coordinates
2803392

OWNER IDENTIFICATION WALTER LAPP

Address 1696 GEORGES RD (RT. 130)

City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-12 shall be MW16

County Middlesex Municipality North Brunswick Twp Lot No. 1 Block No. 282

Address 1696 GEORGES RD (RT. 130) MW-12

WELL USE Monitoring

DATE WELL STARTED 9-22-09

DATE WELL COMPLETED 9-22-09

WELL CONSTRUCTION

Total Depth Drilled 19 ft.

Finished Well Depth 19 ft.

Borehole Diameter:

0-7 Top 10 in.
7-19 Bottom 8 in.

Well was finished: above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Steel protective casing installed?

Yes No

Static Water Level after drilling 7 ft.

Water Level was Measured Using Tape

Well was developed for .5 hours

at .5 gpm

Method of development Pump

Pump Capacity 2 gpm

Pump Type sub.

Drilling Fluid None Type of Rig Singer 2800

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	4	4"	Pvc	sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>020</u>)	4	19	4"	Pvc	sch. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	19		Mocic #2	
Grout				Neat Cement Bentonite	<u>94</u> lbs <u>5</u> lbs

Grouting Method Tremie

Drilling Method Aug Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-7' Clean Fill
7-19' Red Browned Glacial Till

AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET
NORTHING: 586519 EASTING: 500289

OR

LATITUDE: 0 ' 0 " LONGITUDE: 0 ' 0 "

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC

Well Driller (Print) James Burton

Driller's Signature [Signature]

Registration No. 513752 Date 9/22/09

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
P200910660

MONITORING WELL RECORD

Atlas Sheet Coordinates
2803392

OWNER IDENTIFICATION WALTER LAPP

Address 1696 GEORGES RD (RT. 130)

City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-11 should be MW 15

County Middlesex Municipality North Brunswick Twp Lot No. 1 Block No. 282

Address 1696 GEORGES RD (RT. 130) MW-11

WELL USE Monitoring

DATE WELL STARTED 9-22-09

DATE WELL COMPLETED 9-22-09

WELL CONSTRUCTION

Total Depth Drilled 20' ft.

Finished Well Depth 20' ft.

Borehole Diameter:

0-7' Top 10" in.

7-20' Bottom 8" in.

Well was finished: above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Steel protective casing installed?

Yes No

Static Water Level after drilling 13' ft.

Water Level was Measured Using Tape

Well was developed for 1 hours

at .5 gpm

Method of development Pump

Pump Capacity 2 gpm

Pump Type SUB.

Drilling Fluid None Type of Rig SINCO 2800

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC

Well Driller (Print) JAMES BARTON

Driller's Signature [Signature]

Registration No. 13752 Date 9/22/09

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	5'	5'	4"	Pvc	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 020)	5'	20'	4"	Pvc	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3'	20'		Morie #2	
Grout	.5'	3'		Neat Cement Bentonite	94 lbs 5 lbs

Grouting Method Trench
Drilling Method Air Rotary

GEOLOGIC LOG	
Note each depth where water was encountered in consolidated formations	
0-20'	Red Brown silty sand trace of clay very dense

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	
NJ STATE PLANE COORDINATE IN US SURVEY FEET	
NORTHING: <u>586380</u>	EASTING: <u>500099</u>
OR	
LATITUDE: <u>0</u> ' <u>0</u> "	LONGITUDE: <u>0</u> ' <u>0</u> "

MONITORING WELL RECORD

Atlas Sheet Coordinates
 2803392

OWNER IDENTIFICATION JACOB KRAUSER

Address 1674 US HWY 130
 City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address
 County Middlesex Municipality North Brunswick Twp Lot No. 1 Block No. 278
 Address 1674 US HWY 130 MW-13

Owner's Well No. MW-13
 DATE WELL STARTED 9-22-09
 DATE WELL COMPLETED 9-22-09

WELL USE Monitoring

WELL CONSTRUCTION

Total Depth Drilled 19' ft.
 Finished Well Depth 19' ft.
 Borehole Diameter:
 0-5' Top 10" in.
 5-19' Bottom 8" in.

Well was finished: above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Steel protective casing installed?
 Yes No

Static Water Level after drilling 14' ft.
 Water Level was Measured Using Tape
 Well was developed for 1 hours
 at .5 gpm

Method of development Pump
 Pump Capacity 2 gpm

Pump Type SVB
 Drilling Fluid None Type of Rig Simeo 2800

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	4'	4"	Pvc	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 000)	4'	19'	4"	Pvc	sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	19'		Modic #2	
Grout	.5	2'		Neat Cement Bentonite	94 lbs / 5 lbs

Grouting Method Tremie
 Drilling Method Air Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-13' Light Brown Silty Dense sand
 13-19' Black (F-M) silty sand

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC
 Well Driller (Print) JAMES BUELD
 Driller's Signature James C. Bueld
 Registration No. J13752 Date 9/22/09

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET
 NORTHING: 586429 EASTING: 500379

OR
 LATITUDE: 0 LONGITUDE: 0

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD

OWNER IDENTIFICATION DENICE LUZAK

Address 368 WASHINGTON PLACE
City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address
County Middlesex Municipality North Brunswick Twp Owner's Well No. MW-16 should be MW13
Address 368 WASHINGTON PLACE MW-16 Lot No. 2 Block No. 283

WELL USE Monitoring DATE WELL STARTED 9-24-09
DATE WELL COMPLETED 9-24-09

WELL CONSTRUCTION

Total Depth Drilled 19' ft.
Finished Well Depth 19' ft.
Borehole Diameter:
0-5' Top 10" in.
5-19' Bottom 8" in.
Well was finished: above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Steel protective casing installed?
 Yes No

Static Water Level after drilling 14' ft.
Water Level was Measured Using Tape

Well was developed for 1 hours
at 1 gpm

Method of development Pump
Pump Capacity 2 gpm

Pump Type Submersible

Drilling Fluid None Type of Rig Sinco 2800

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	4'	4"	PVC	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>020</u>)	4'	19'	4"	PVC	sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	19'		Morite #2	
Grout	.5	2'		Neat Cement Bentonite	94 lbs 5 lbs

Grouting Method Tremie
Drilling Method Air Rotary

GEOLOGIC LOG
Note each depth where water was encountered in consolidated formations
<u>0-19' Brown Dense (F-M) sand some silt trace of clay</u>

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET
NORTHING: <u>586235</u> EASTING: <u>500149</u>
OR
LATITUDE: _____ LONGITUDE: _____

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC
Well Driller (Print) JAMES BURTON
Driller's Signature J. C. B.
Registration No. 51375a Date 9/24/09

MONITORING WELL RECORD

Atlas Sheet Coordinates
 2803392

OWNER IDENTIFICATION THOMAS CSEPES

Address 359 WASHINGTON PLACE

City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-15 should be MW-12
 Lot No. 2 Block No. 282

County Middlesex Municipality North Brunswick Twp

Address 359 WASHINGTON PLACE MW-15

WELL USE Monitoring

DATE WELL STARTED 9-24-09
 DATE WELL COMPLETED 9-24-09

WELL CONSTRUCTION

Total Depth Drilled 18' ft.

Finished Well Depth 18' ft.

Borehole Diameter:

0-5' Top 10" in.
5-18' Bottom 8" in.

Well was finished: above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Steel protective casing installed?

Yes No

Static Water Level after drilling 11' ft.

Water Level was Measured Using Tape

Well was developed for 1 hours

at 1 gpm

Method of development Pump

Pump Capacity 2 gpm

Pump Type SUB

Drilling Fluid None Type of Rig Singer 2800

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC

Well Driller (Print) James Burton

Driller's Signature Jan C. Burton

Registration No. J13752 Date 9/24/09

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	3'	4"	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>020</u>)	3'	18'	4"	PVC	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	18'		Morie #2	
Grout	.5	2'		Neat Cement Bentonite	99 lbs 5 lbs

Grouting Method Grout
 Drilling Method Air Rotary

GEOLOGIC LOG	
Note each depth where water was encountered in consolidated formations	
<u>0-11'</u>	<u>Brown silty sand</u>
<u>11-15'</u>	<u>light Brown (F-M) sand trace of silt</u>
<u>15-18'</u>	<u>Grey (F) silt</u>

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	
NJ STATE PLANE COORDINATE IN US SURVEY FEET	
NORTHING: <u>586268</u>	EASTING: <u>500233</u>
OR	
LATITUDE: <u>0</u> ° <u>0</u> ' <u>0</u> "	LONGITUDE: <u>0</u> ° <u>0</u> ' <u>0</u> "

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD

OWNER IDENTIFICATION THOMAS CSEPES

Address 359 WASHINGTON PLACE
 City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address
 County Middlesex Municipality North Brunswick Twp Owner's Well No. MW-14 Lot No. 5 Block No. 282
 Address 359 WASHINGTON PLACE MW-14

should be MW 11
EF

WELL USE Monitoring DATE WELL STARTED 9-24-09
 DATE WELL COMPLETED 9-24-09

WELL CONSTRUCTION
 Total Depth Drilled 19' ft.
 Finished Well Depth 19' ft.
 Borehole Diameter:
 0-5' Top 10" in.
 5-19' Bottom 8" in.

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	4'	4"	Pvc	sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>020</u>)	4'	19'	4"	Pvc	sch. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	19'		Morietta	
Grout	.5	2'		Neat Cement Bentonite	94 lbs 5 lbs

Well was finished: above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Steel protective casing installed?
 Yes No

Static Water Level after drilling 13' ft.

Water Level was Measured Using Tap

Well was developed for 1 hours at 1 gpm

Method of development Pump

Pump Capacity 2 gpm

Pump Type SJB

Drilling Fluid None Type of Rig Simon 2800

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

Grouting Method Tremie
 Drilling Method Air Rotary

GEOLOGIC LOG	
Note each depth where water was encountered in consolidated formations	
<u>0-19 Brown (FM) sand</u>	
<u>Trace of clay</u>	

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC
 Well Driller (Print) James Byrdon
 Driller's Signature [Signature]
 Registration No. J13755 Date 9/24/09

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	
NJ STATE PLANE COORDINATE IN US SURVEY FEET	
NORTHING: <u>586429</u>	EASTING: <u>500379</u>
OR	
LATITUDE: <u>0</u>	LONGITUDE: <u>0</u>



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC
 List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC
 Street Address: 1696 Georges Rd Route 130
 Municipality: North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Mr. Thomas Csepec
 2. Well Location (Street Address) 359 Washington Place North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 2

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... P200910654
 2. Site Well Number as shown on application or plans): MW 11
 3. Well Completion Date: 9/22/09
 4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.10
 5. Total Depth of Well to the nearest 1/2 foot: 20'
 6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 4.10
 7. Screen Length (or length of open hole) in feet: 15'
 8. Screen or Slot Size: 0.010
 9. Screen or Slot Material: pvc
 10. Casing Material (PVC, steel, or other – specify): pvc
 11. Casing Diameter (inches): 4"
 12. Static Water Level from top of casing at the time of installation (nearest 0.01'): dry next day 9.05'
 13. Yield (gallons per minute): <0.5
 14. Development Technique (specify): submersible pump
 15. Length of Time well is developed/pumped or bailed (hours and minutes): 30 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC
List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC
Street Address: 1696 Georges Rd Route 130
Municipality: North Brunswick (Township, Borough or City)
County: Middlesex Zip Code: 08902
Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Mr. Thomas Csepes
2. Well Location (Street Address) 359 Washington Place North Brunsick, NJ 08902
3. Well Location (Municipal Block and Lot) Block# 282 Lot # 5

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... P200910653
2. Site Well Number as shown on application or plans): MW 12
3. Well Completion Date: 9/22/09
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.12
5. Total Depth of Well to the nearest 1/2 foot: 19.02'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 4.09
7. Screen Length (or length of open hole) in feet: 15'
8. Screen or Slot Size: 0.010
9. Screen or Slot Material: pvc
10. Casing Material (PVC, steel, or other – specify): pvc
11. Casing Diameter (inches): 4"
12. Static Water Level from top of casing at the time of installation (nearest 0.01'): dry next day 3.98'
13. Yield (gallons per minute): <0.5
14. Development Technique (specify): submersible pump
15. Length of Time well is developed/pumped or bailed (hours and minutes): 30 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC
List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC
Street Address: 1696 Georges Rd Route 130
Municipality: North Brunswick (Township, Borough or City)
County: Middlesex Zip Code: 08902
Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Denise Luzack
2. Well Location (Street Address) 368 Washington Place North Brunswick, NJ 08902
3. Well Location (Municipal Block and Lot) Block# 283 Lot # 2

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... P200910655
2. Site Well Number as shown on application or plans): MW 13
3. Well Completion Date: 9/22/09
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.34
5. Total Depth of Well to the nearest 1/2 foot: 19.05'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 4.05
7. Screen Length (or length of open hole) in feet: 15'
8. Screen or Slot Size: 0.010
9. Screen or Slot Material: pvc
10. Casing Material (PVC, steel, or other – specify): pvc
11. Casing Diameter (inches): 4"
12. Static Water Level from top of casing at the time of installation (nearest 0.01'): dry next day 6.27'
13. Yield (gallons per minute): <0.5
14. Development Technique (specify): submersible pump
15. Length of Time well is developed/pumped or bailed (hours and minutes): 30 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC
List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC
Street Address: 1696 Georges Rd Route 130
Municipality: North Brunswick (Township, Borough or City)
County: Middlesex Zip Code: 08902
Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Krauszer Family, LLC
2. Well Location (Street Address) 1674 Georges Rd Rt 130 North Brunswick, NJ
3. Well Location (Municipal Block and Lot) Block# 278 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... P200910659
2. Site Well Number as shown on application or plans): MW 14
3. Well Completion Date: 9/24/09
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.13
5. Total Depth of Well to the nearest 1/2 foot: 18.59'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 3.59
7. Screen Length (or length of open hole) in feet: 15'
8. Screen or Slot Size: 0.010
9. Screen or Slot Material: pvc
10. Casing Material (PVC, steel, or other – specify): pvc
11. Casing Diameter (inches): 4"
12. Static Water Level from top of casing at the time of installation (nearest 0.01'): dry
13. Yield (gallons per minute): <0.5
14. Development Technique (specify): none
15. Length of Time well is developed/pumped or bailed (hours and minutes): 0 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC

List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC

Street Address: 1696 Georges Rd Route 130

Municipality: North Brunswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Rt 130 LLC

2. Well Location (Street Address) 1696 Georges Rd North Brunswick, NJ

3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

- 1. Well Permit Number (This number must be permanently affixed to the well casing):... P200910660
- 2. Site Well Number as shown on application or plans): MW 15
- 3. Well Completion Date: 9/24/09
- 4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.11
- 5. Total Depth of Well to the nearest 1/2 foot: 17.53'
- 6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 2.53
- 7. Screen Length (or length of open hole) in feet: 15'
- 8. Screen or Slot Size: 0.010
- 9. Screen or Slot Material: pvc
- 10. Casing Material (PVC, steel, or other – specify): pvc
- 11. Casing Diameter (inches): 4"
- 12. Static Water Level from top of casing at the time of installation (nearest 0.01'): 7.92
- 13. Yield (gallons per minute): ~0.5
- 14. Development Technique (specify): submersible
- 15. Length of Time well is developed/pumped or bailed (hours and minutes): 30 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC

List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC

Street Address: 1696 Georges Rd Route 130

Municipality: North Brunswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Rt 130 LLC

2. Well Location (Street Address) 1696 Georges Rd North Brunswick, NJ

3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... P200910661

2. Site Well Number as shown on application or plans): MW 16

3. Well Completion Date: 9/24/09

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.39

5. Total Depth of Well to the nearest 1/2 foot: 18.68'

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 3.68'

7. Screen Length (or length of open hole) in feet: 15'

8. Screen or Slot Size: 0.010

9. Screen or Slot Material: pvc

10. Casing Material (PVC, steel, or other – specify): pvc

11. Casing Diameter (inches): 4"

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): 18.25

13. Yield (gallons per minute): 0 not enough water to develop

14. Development Technique (specify): none

15. Length of Time well is developed/pumped or bailed (hours and minutes): 0 minutes

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863

Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION

Company Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514

PROPERTY OWNER

Name: TOWNSHIP OF NORTH BRUNSWICK

Organization: Township of North Brunswick

Address: 710 Hermann Road

City: North Brunswick State: New Jersey Zip Code: 08902

PROPOSED WELL LOCATION

Facility Name: Shoulder Route 130 Southbound

Address: Shoulder Route 130 Southbound

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500088 Northing (Y): 586526
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-17

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 20

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

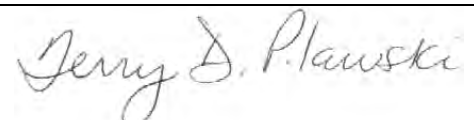
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: May 14, 2018

Expiration Date: May 14, 2019

Approved by the authority of:
Catherine R. McCabe
Acting Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

MONITORING WELL RECORD

PROPERTY OWNER: TOWNSHIP OF NORTH BRUNSWICK

Company/Organization: Township of North Brunswick

Address: 710 Hermann Road North Brunswick, New Jersey 08902

WELL LOCATION: Shoulder Route 130 Southbound

Address: Shoulder Route 130 Southbound

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): <u>500088</u> Northing (Y): <u>586526</u>
Coordinate System: <u>NJ State Plane (NAD83) - USFEET</u>

DATE WELL STARTED: May 25, 2018
DATE WELL COMPLETED: May 25, 2018

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MW-17

WELL CONSTRUCTION

Total Depth Drilled (ft.): 13 Finished Well Depth (ft.): 13 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	13	8		
Casing	0	3	2	PVC	Sch 40
Screen	3	13	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	1	8	2	6		3
Gravel Pack	1	13	8	2	Morie #1		

Grouting Method: Gravity method Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
 Static Water Level: 5 ft. below land surface
 Water Level Measure Tool: Tape
 Well Development Period: .5 hrs.
 Method of Development: Submersible
 Pump Type:

Pump Capacity: _ gpm
 Total Design Head: _ ft.
 Drilling Fluid:
 Drill Rig: Geoprobe 7822
 Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - .5: Black OT - Other Asphalt
.5 - 13: brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeremy Wilkins, MONITORING LICENSE # 763199

Company: ENVIRONMENTAL PROBING INVESTIGATION



SECTION A. SITE NAME AND LOCATION

Site Name: Lawrence Fuel LLC
List all AKAs: 1696 Route 130 LLC AKA North Brunswick Gulf
Street Address: 1696 Georges Rd Rt 130
Municipality: North Bruswick (Township, Borough or City)
County: Middlesex Zip Code: 08902
Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 RT 130 LLC
2. Well Location (Street Address) south bound lane of RT 130 by MP 81.5
3. Well Location (Municipal Block and Lot) Block# none Lot # none

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... E201804577
2. Site Well Number as shown on application or plans): MW 17
3. Well Completion Date: 05/25/2018
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.41
5. Total Depth of Well to the nearest 1/2 foot: 13.2 from top of casing
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 3.2'
7. Screen Length (or length of open hole) in feet: 10'
8. Screen or Slot Size: 0.010
9. Screen or Slot Material: PVC
10. Casing Material (PVC, steel, or other – specify): PVC
11. Casing Diameter (inches): 2-inch
12. Static Water Level from top of casing at the time of installation (nearest 0.01'): 2.72'
13. Yield (gallons per minute): 0.5
14. Development Technique (specify): submersible pump
15. Length of Time well is developed/pumped or bailed (hours and minutes): 15 minutes

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863

Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION

Company Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514

PROPERTY OWNER

Name: TOWNSHIP OF NORTH BRUNSWICK

Organization: Township of North Brunswick

Address: 710 Hermann Road

City: North Brunswick State: New Jersey Zip Code: 08902

PROPOSED WELL LOCATION

Facility Name: Washington Place ROW

Address: Washington Place ROW

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500230 Northing (Y): 586214

Local ID: MW-18

Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 20

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

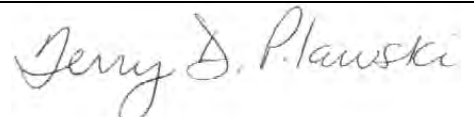
Approval Date: May 14, 2018

Expiration Date: May 14, 2019

Approved by the authority of:

Catherine R. McCabe

Acting Commissioner



Terry Pilawski, Chief

Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

MONITORING WELL RECORD

PROPERTY OWNER: TOWNSHIP OF NORTH BRUNSWICK

Company/Organization: Township of North Brunswick

Address: 710 Hermann Road North Brunswick, New Jersey 08902

WELL LOCATION: Washington Place ROW

Address: Washington Place ROW

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): <u>500230</u> Northing (Y): <u>586214</u> Coordinate System: <u>NJ State Plane (NAD83) - USFEET</u>

DATE WELL STARTED: September 13, 2018

DATE WELL COMPLETED: September 13, 2018

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-18

WELL CONSTRUCTION

Total Depth Drilled (ft.): 20 Finished Well Depth (ft.): 20 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	20	8		
Casing	0	5	2	PVC	Sch 40
Screen	5	20	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	3	8	2	15		7.50
Gravel Pack	3	20	8	2	Morie #1		

Grouting Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
 Static Water Level: 7 ft. below land surface
 Water Level Measure Tool: Tape
 Well Development Period: 1 hrs.
 Method of Development: Submersible
 Pump Type: _____

Pump Capacity: _ gpm
 Total Design Head: _ ft.
 Drilling Fluid: _____
 Drill Rig: Geoprobe 7822
 Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - .5: Black OT - Other Asphalt
 .5 - 20: Brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeremy Wilkins, MONITORING LICENSE # 763199

Company: ENVIRONMENTAL PROBING INVESTIGATION



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Lawrence Fuel, LLC
 List all AKAs: 1696 Rt 130 LLC AKA: North Brunswick Gulf
 Street Address: 1696 Georges Rd RT 130
 Municipality: North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Rt 130 LLC
 2. Well Location (Street Address) north bound lane of Washington Place
 3. Well Location (Municipal Block and Lot) Block# none Lot # none

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... E201804578
 2. Site Well Number as shown on application or plans): MW 18
 3. Well Completion Date: 09/13/20118
 4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.54'
 5. Total Depth of Well to the nearest 1/2 foot: 20.08'
 6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 5.08 from top of casing
 7. Screen Length (or length of open hole) in feet: 15'
 8. Screen or Slot Size: 0.010
 9. Screen or Slot Material: PVC
 10. Casing Material (PVC, steel, or other – specify): PVC
 11. Casing Diameter (inches): 2-inch
 12. Static Water Level from top of casing at the time of installation (nearest 0.01'): 7.46'
 13. Yield (gallons per minute): <0.30
 14. Development Technique (specify): submersible pump
 15. Length of Time well is developed/pumped or bailed (hours and minutes): 34 minutes

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863

Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION

Company Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130, LLC

Address: 555 Georges Road

City: North Brunswick State: New Jersey Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: North Brunswick Gulf

Address: 1696 Georges Road aka Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500292 Northing (Y): 586404
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-19

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 20

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

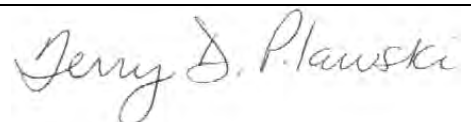
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: May 14, 2018

Expiration Date: May 14, 2019

Approved by the authority of:
Catherine R. McCabe
Acting Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130, LLC

Address: 555 Georges Road North Brunswick, New Jersey 08810

WELL LOCATION: North Brunswick Gulf

Address: 1696 Georges Road aka Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): <u>500292</u> Northing (Y): <u>586404</u> Coordinate System: <u>NJ State Plane (NAD83) - USFEET</u>

DATE WELL STARTED: May 24, 2018
DATE WELL COMPLETED: May 24, 2018

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MW-19

WELL CONSTRUCTION

Total Depth Drilled (ft.): 20 Finished Well Depth (ft.): 20 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	20	8		
Casing	0	5	2	PVC	Sch 40
Screen	5	20	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	3	8	2	15		7.5
Gravel Pack	3	20	8	2	Morie #1		

Grouting Method: Gravity method Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
 Static Water Level: 10 ft. below land surface
 Water Level Measure Tool: Tape
 Well Development Period: 1 hrs.
 Method of Development: Submersible
 Pump Type:

Pump Capacity: _ gpm
 Total Design Head: _ ft.
 Drilling Fluid:
 Drill Rig: Geoprobe 7822
 Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - 5: Back OT - Other Fill material
5 - 20: Grey SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeremy Wilkins, MONITORING LICENSE # 763199

Company: ENVIRONMENTAL PROBING INVESTIGATION



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Laawrence Fuel LLC

List all AKAs: 1696 Rt 130 LLC AKA: North Brunswick Gulf

Street Address: 1696 Georges Rd RT 130

Municipality: North Brunswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Rt 130 LLC

2. Well Location (Street Address) 1696 Georges Rd RT 130

3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

- 1. Well Permit Number (This number must be permanently affixed to the well casing):... E201804573
- 2. Site Well Number as shown on application or plans): MW 19
- 3. Well Completion Date: 05/25/2018
- 4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): -0.42
- 5. Total Depth of Well to the nearest 1/2 foot: 20.4 from top of casing
- 6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 5.4
- 7. Screen Length (or length of open hole) in feet: 15'
- 8. Screen or Slot Size: 0.010
- 9. Screen or Slot Material: PVC
- 10. Casing Material (PVC, steel, or other – specify): PVC
- 11. Casing Diameter (inches): 2-inch
- 12. Static Water Level from top of casing at the time of installation (nearest 0.01'): 3.40
- 13. Yield (gallons per minute): < 0.25
- 14. Development Technique (specify): submersible pump
- 15. Length of Time well is developed/pumped or bailed (hours and minutes): 60 minutes

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863

Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION

Company Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514

PROPERTY OWNER

Name: TOWNSHIP OF NORTH BRUNSWICK

Organization: Township of North Brunswick

Address: 710 Herman Road

City: North Brunswick State: New Jersey Zip Code: 08902

PROPOSED WELL LOCATION

Facility Name: Washington Place ROW

Address: Washington Place

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500283 Northing (Y): 586156
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-20

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 20

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

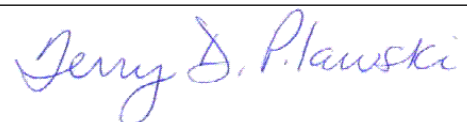
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: December 6, 2018

Expiration Date: December 6, 2019

Approved by the authority of:
Catherine R. McCabe
Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
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This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

MONITORING WELL RECORD

PROPERTY OWNER: TOWNSHIP OF NORTH BRUNSWICK

Company/Organization: Township of North Brunswick

Address: 710 Herman Road North Brunswick, New Jersey 08902

WELL LOCATION: Washington Place ROW

Address: Washington Place

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500283 Northing (Y): 586156
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: December 14, 2018

DATE WELL COMPLETED: December 14, 2018

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-20

WELL CONSTRUCTION

Total Depth Drilled (ft.): 19 Finished Well Depth (ft.): 19 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	19	8		
Casing	0	4	2	PVC	Sch 40
Screen	4	19	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	8	2	10		5
Gravel Pack	2	19	8	2	Morie #1		

Grouting Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 10 ft. below land surface

Water Level Measure Tool: Tape

Well Development Period: .5 hrs.

Method of Development: Submersible

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: Geoprobe 7822

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - .5: Black OT - Other Asphalt

.5 - 19: Brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeremy Wilkins,
MONITORING LICENSE # 763199

Company: ENVIRONMENTAL PROBING
INVESTIGATION



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Rt 130 LLC
List all AKAs: North Brunswick Gulf
Street Address: 1696 Georges Rd
Municipality: North Brunswick (Township, Borough or City)
County: Middlesex Zip Code: 08902
Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Walter Lapp & RuthFrey
2. Well Location (Street Address) north bound lane of Washington Place
3. Well Location (Municipal Block and Lot) Block# none Lot # none

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... E201812604
2. Site Well Number as shown on application or plans): MW-20
3. Well Completion Date: 12/14/2018
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.60
5. Total Depth of Well to the nearest 1/2 foot: 19.0
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'): 4.0
7. Screen Length (or length of open hole) in feet: 15
8. Screen or Slot Size: 0.010
9. Screen or Slot Material: pvc
10. Casing Material (PVC, steel, or other – specify): pvc
11. Casing Diameter (inches): 2-inch
12. Static Water Level from top of casing at the time of installation (nearest 0.01'): 18.5' 2 hrs after installation
13. Yield (gallons per minute): very slow
14. Development Technique (specify): none not enough water
15. Length of Time well is developed/pumped or bailed (hours and minutes): 0

DWR-133M
1/09

Permit No. 110651

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermitting@dep.state.nj.us

MONITORING WELL PERMIT
VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 28 . 03 . 392

Owner JACOB KRAUSER
Address 1674 US HWY 130
North Brunswick, NJ 08902
Name of Facility STIP MAIL
Address SAMP

Driller HAMEL, INC
Address 665 Center Ave
Belford, NJ 07718

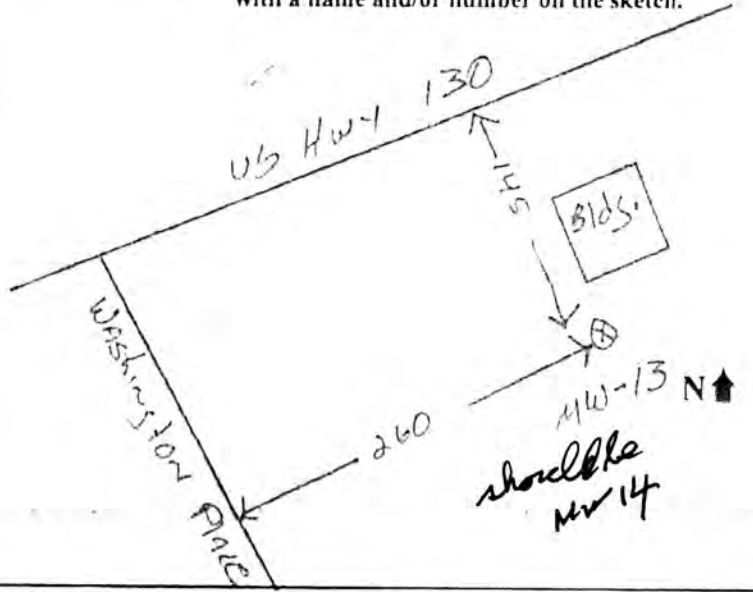
Diameter of Well(s)	<u>4</u>	Inches	Proposed Depth of Well(s)	<u>20</u>	Feet
# of Wells	<u>1</u>		Will pumping equipment be utilized?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Applied for (max. 10)	<u>1</u>		If Yes, give pump capacity		cumulative GPM
Type of Well (see reverse)	<u>Monitoring</u>				

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
<u>1</u>	<u>278</u>	<u>North Brunswick</u>	<u>Middlesex</u>

LOCAL ID	NORTHING (Y)	EASTING (X)
<u>MW-13</u>	<u>586420</u>	<u>500379</u>

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD
 SURVEY DIGITAL IMAGE GPS

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- RCRA Site
- Underground Storage Tank Site
- Operational Ground Water Permit Site
- Pretreatment and Residuals Site
- Water and Hazardous Waste Enforcement Case
- Water Supply Aquifer Test Observation Well
- Other (explain) _____
- Spill Site
- ISRA Site
- CERCLA (Superfund) Site

CASE I.D. Number
01-08-30-1546-00

This Space for Approval Stamp

WELL PERMIT APPROVED

SEP - 3 2009

BUREAU OF WATER SYSTEMS & WELL PERMITTING

FOR D.E.P. USE Issuance of this permit is subject to the conditions attached. (see next page) For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 8/31/09 Signature of Driller [Signature] Registration No. M1212
Signature of Property Owner Jacob Krauser

DWR-133M
1/09

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

SEP 30 2009

Permit No. 1500116001

Mail To:

NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermitting@dep.state.nj.us

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 28.03.372

Owner WALTER LAPP
Address 1696 Georges Rd (RT 130)
North Brunswick, NJ 08902
Name of Facility Gulf Station
Address SAME

Driller Hamer, Inc
Address 665 Center Ave
Belford, NJ 07719

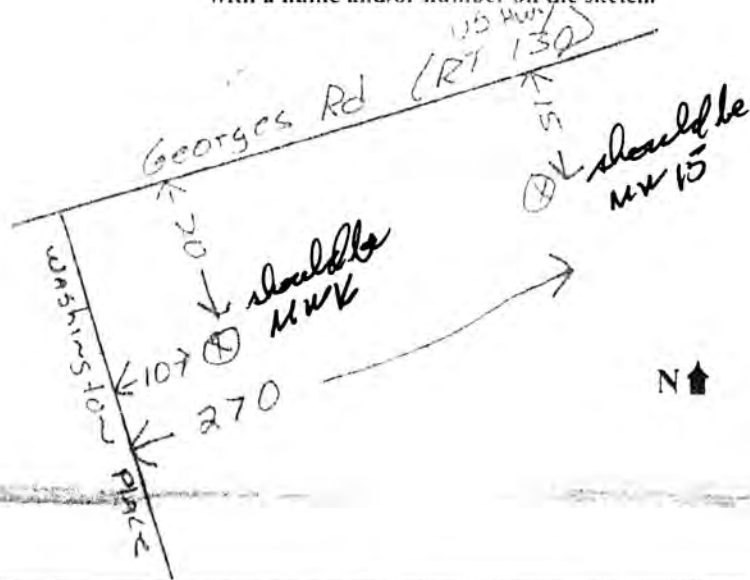
Diameter of Well(s)	<u>4"</u>	Inches	Proposed Depth of Well(s)	<u>20</u>	feet
# of Wells Applied for (max. 10)	<u>2</u>		Will pumping equipment be utilized?	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Type of Well (see reverse)	<u>monitoring</u>		If Yes, give pump capacity	cumulative GPM	

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
<u>1</u>	<u>282</u>	<u>No. Brunswick</u>	<u>Middlesex</u>

LOCAL ID	NORTHING (Y)	EASTING (X)
<u>MW-11</u>	<u>586383</u>	<u>500087</u>
<u>MW-12</u>	<u>586517</u>	<u>500290</u>

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD

- SURVEY DIGITAL IMAGE GPS

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

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 Pretreatment and Residuals Site
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 Water Supply Aquifer Test Observation Well
 Other (explain)

CASE I.D. Number

01-08-30-1546-00

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. D.E.P.

SEP - 3 2009

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SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT. In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 8/31/09

Signature of Driller [Signature]
Signature of Property Owner Walter Lapp

Registration No. M1213

COPIES: Water Systems & Well Permitting - White Health Dept - Yellow Owner - Blue Driller - White

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: MATT LAWSON, ENV RESOURCE GEOTEC LICENSE # 665009

Permit Issued to: SUBSTRATA TECHNOLOGIES INC.

Company Address: 121 HAWKINS PL #253 BOONTON, NJ 07005

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130 LLC

Address: 555 Georges Road

City: Dayton

State: New Jersey

Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: 1696 Route 130 LLC

Address: 1696 Georges Rd (aka Route 130)

County: Middlesex

Municipality: North Brunswick Twp

Lot: 1

Block: 282

Easting (X): 500300 Northing (Y): 586500

Local ID: MW-15D

Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

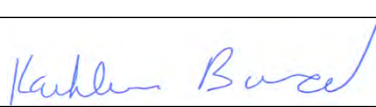
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: June 4, 2025

Expiration Date: June 4, 2026

Approved by the authority of:
Shawn M. LaTourette
Commissioner


Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
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If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
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This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863

Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION

Company Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514

PROPERTY OWNER

Name: TOWNSHIP OF NORTH BRUNSWICK

Organization: Township of North Brunswick

Address: 710 Hermann Road

City: North Brunswick State: New Jersey Zip Code: 08902

PROPOSED WELL LOCATION

Facility Name: Shoulder Route 130 Southbound

Address: Shoulder Route 130 Southbound

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500088 Northing (Y): 586526
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-17

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 20

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

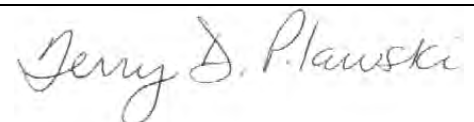
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: May 14, 2018

Expiration Date: May 14, 2019

Approved by the authority of:
Catherine R. McCabe
Acting Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
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PROPERTY OWNER

Name: TOWNSHIP OF NORTH BRUNSWICK

Organization: Township of North Brunswick

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City: North Brunswick State: New Jersey Zip Code: 08902

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Facility Name: Washington Place ROW

Address: Washington Place ROW

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500230 Northing (Y): 586214
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-18

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 20

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

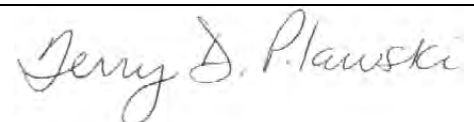
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: May 14, 2018

Expiration Date: May 14, 2019

Approved by the authority of:
Catherine R. McCabe
Acting Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

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For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
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The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863

Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION

Company Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130, LLC

Address: 555 Georges Road

City: North Brunswick State: New Jersey Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: North Brunswick Gulf

Address: 1696 Georges Road aka Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500292 Northing (Y): 586404
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-19

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 20

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

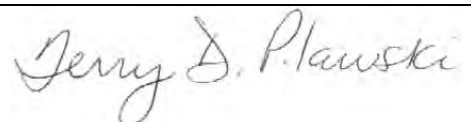
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: May 14, 2018

Expiration Date: May 14, 2019

Approved by the authority of:
Catherine R. McCabe
Acting Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
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The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: JOE DEITHORN, MASTER LICENSE # 607477

Permit Issued to: TALON DRILLING CO

Company Address: 100 LEXINGTON AVE TRENTON, NJ 08618

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130 Llc

Address: 555 Georges Road

City: Dayton

State: New Jersey

Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: NOOR Petroleum Service Station

Address: 1696 Route 130

County: Middlesex

Municipality: North Brunswick Twp

Lot: 1

Block: 282

Easting (X): 500302 Northing (Y): 586410

Local ID: MW-19B

Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program _____

Requiring Wells/Borings: _____

Depth (ft.): 45

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Air Rotary

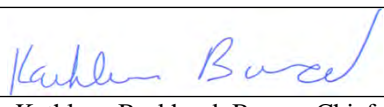
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: May 29, 2025

Expiration Date: May 29, 2026

Approved by the authority of:
Shawn M. LaTourette
Commissioner


Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
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If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
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In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
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This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: MATT LAWSON, ENV RESOURCE GEOTEC LICENSE # 665009

Permit Issued to: SUBSTRATA TECHNOLOGIES INC.

Company Address: 121 HAWKINS PL #253 BOONTON, NJ 07005

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130 LLC

Address: 555 Georges Road

City: Dayton

State: New Jersey

Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: Gas Station

Address: 1696 Route 130

County: Middlesex

Municipality: North Brunswick Twp

Lot: 1

Block: 282

Easting (X): 500290 Northing (Y): 586400

Local ID: MW-19D

Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

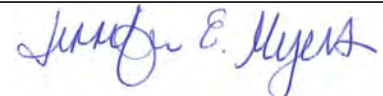
Approval Date: December 4, 2023

Expiration Date: December 3, 2024

Approved by the authority of:

Shawn M. LaTourette

Commissioner



Jennifer Myers, Section Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
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This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

WELL PERMIT

New Well

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Certifying Driller: MATT LAWSON, ENV RESOURCE GEOTEC LICENSE # 665009

Permit Issued to: SUBSTRATA TECHNOLOGIES INC.

Company Address: 121 HAWKINS PL #253 BOONTON, NJ 07005

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130

Address: 555 Georges Road

City: North Brunswick Twp

State: New Jersey

Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: Gas Station

Address: 1696 Route 130

County: Middlesex

Municipality: North Brunswick Twp

Lot: 1

Block: 282

Easting (X): 500290 Northing (Y): 586410

Local ID: MW-19DD

Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

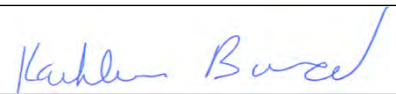
Approval Date: May 28, 2024

Expiration Date: May 28, 2025

Approved by the authority of:

Shawn M. LaTourette

Commissioner



Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS

A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
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New Well

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Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863

Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION

Company Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514

PROPERTY OWNER

Name: TOWNSHIP OF NORTH BRUNSWICK

Organization: Township of North Brunswick

Address: 710 Herman Road

City: North Brunswick State: New Jersey Zip Code: 08902

PROPOSED WELL LOCATION

Facility Name: Washington Place ROW

Address: Washington Place

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500283 Northing (Y): 586156
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-20

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 20

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

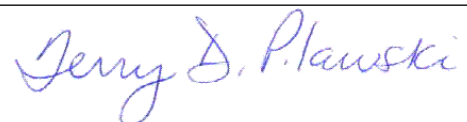
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: December 6, 2018

Expiration Date: December 6, 2019

Approved by the authority of:
Catherine R. McCabe
Commissioner



Terry Pilawski, Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

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This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
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WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: MATT LAWSON, ENV RESOURCE GEOTEC LICENSE # 665009

Permit Issued to: SUBSTRATA TECHNOLOGIES INC.

Company Address: 121 HAWKINS PL #253 BOONTON, NJ 07005

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130

Address: 555 Georges Road

City: North Brunswick Twp State: New Jersey Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500205 Northing (Y): 586353
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-21D

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING Other Use(s): _____

Diameter (in.): 2 Regulatory Program Requiring Wells/Borings: _____

Depth (ft.): 25 Case ID Number: _____

Pump Capacity (gpm): 0 Deviation Requested: N

Drilling Method: Hollow Stem Augers

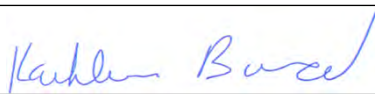
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: May 28, 2024

Expiration Date: May 28, 2025

Approved by the authority of:
Shawn M. LaTourette
Commissioner


Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
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WELL PERMIT

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Permit Issued to: SUBSTRATA TECHNOLOGIES INC.

Company Address: 121 HAWKINS PL #253 BOONTON, NJ 07005

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130

Address: 555 Georges Road

City: North Brunswick Twp

State: New Jersey

Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: Gas Station

Address: 1696 Route 130

County: Middlesex

Municipality: North Brunswick Twp

Lot: 1

Block: 282

Easting (X): 500240 Northing (Y): 586380

Local ID: MW-22

Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

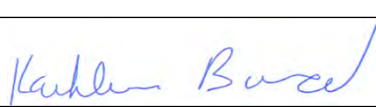
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: May 28, 2024

Expiration Date: May 28, 2025

Approved by the authority of:
Shawn M. LaTourette
Commissioner


Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

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Organization: 1696 Route 130

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State: New Jersey

Zip Code: 08810

PROPOSED WELL LOCATION

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Lot: 1

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Easting (X): 500260 Northing (Y): 586420

Local ID: MW-23

Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

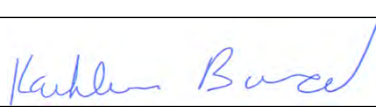
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Expiration Date: May 28, 2025

Approved by the authority of:
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Commissioner


Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

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Purpose:	
Unusual Conditions:	
Reason for Deviation:	
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Organization: 1696 Route 130

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Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

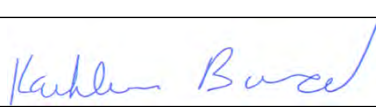
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WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
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SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

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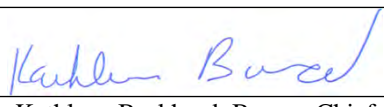
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A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: MATT LAWSON, ENV RESOURCE GEOTEC LICENSE # 665009

Permit Issued to: SUBSTRATA TECHNOLOGIES INC.

Company Address: 121 HAWKINS PL #253 BOONTON, NJ 07005

PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130 LLC

Address: 555 Georges Road

City: Dayton

State: New Jersey

Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: 1696 Route 130 LLC

Address: 1696 Georges Rd (aka Route 130)

County: Middlesex

Municipality: North Brunswick Twp

Lot: 1

Block: 282

Easting (X): 500280 Northing (Y): 586350

Local ID: MW-25D

Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

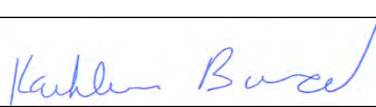
Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: June 4, 2025

Expiration Date: June 4, 2026

Approved by the authority of:
Shawn M. LaTourette
Commissioner


Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
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This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

WELL PERMIT

New Well

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PROPERTY OWNER

Name: 1696 ROUTE 130 LLC

Organization: 1696 Route 130 LLC

Address: 555 Georges Road

City: Dayton

State: New Jersey

Zip Code: 08810

PROPOSED WELL LOCATION

Facility Name: 1696 Route 130 LLC

Address: 1696 Georges Rd (aka Route 130)

County: Middlesex

Municipality: North Brunswick Twp

Lot: 1

Block: 282

Easting (X): 500340 Northing (Y): 586420

Local ID: MW-26D

Coordinate System: NJ State Plane (NAD83) - USFEET

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s): _____

Diameter (in.): 2

Regulatory Program

Requiring Wells/Borings: _____

Depth (ft.): 25

Case ID Number: _____

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments: _____

SPECIFIC CONDITIONS/REQUIREMENTS


Approval Date: June 4, 2025

Expiration Date: June 4, 2026

Approved by the authority of:

Shawn M. LaTourette

Commissioner



Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

WELL PERMIT
 New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

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This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
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This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

Permit No 2800052109

Mail To
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

VALID ONLY AFTER APPROVAL BY THE DEP

COORD # 28.03.393

Owner WALTER LAPP, SR

Driller TRISTATE PROBING/DRILLING SERVICES, INC.

Address 263 EDWARDS PLACE
NORTH BRUNSWICK, NJ 08902

Address 362 DUNKS FERRY ROAD
BENSALEM, PA 19020

Name of Facility NORTH BRUNSWICK GOLF

Diameter of Well(s)	<u>6</u>	Inches	Proposed Depth of Well(s)	<u>16</u>	Feet
# of Wells Applied for (max 10)	<u>1</u>		Will pumping equipment be utilized?	<u>NOT AT THIS TIME</u>	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Type of Well (see reverse)	<u>RECOVERY</u>		If Yes give pump capacity	<u>NA</u>	cumulative GPM

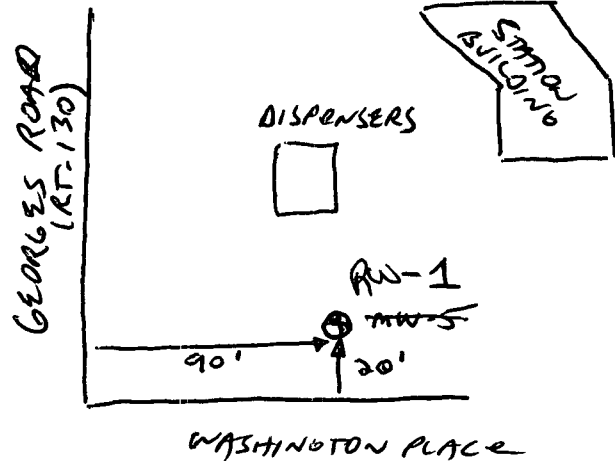
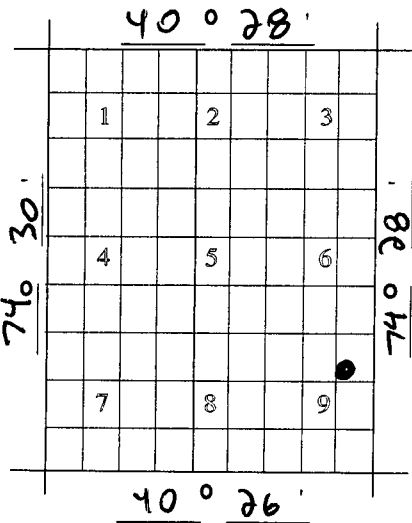
Address 1096 GEORGES ROAD (RT. 130)
NORTH BRUNSWICK, NJ

LOCATION OF WELL(S)

Lot #	<u>1</u>	Block #	<u>282</u>	Municipality	<u>NORTH BRUNSWICK</u>	County	<u>MIDDLESEX</u>
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State Atlas Map No. 28

Vac. Truck
Draw sketch of well(s) nearest roads, buildings, etc with marked distances in feet Each well MUST be labeled with a name and/or number on the sketch



FOR MONITORING WELLS RECOVERY WELLS OR PIEZOMETERS THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED

- Spill Site
- ISRA Site
- CERCLA (Superfund) Site
- RCRA Site
- Underground Storage Tank Site
- Operational Ground Water Permit Site
- Pretreatment and Residuals Site
- Water and Hazardous Waste Enforcement Case
- Water Supply Aquifer Test Observation Well
- Other (explain) _____

CASE ID Number
01-08-30-846-07

This Space for Approval Stamp

WELL PERMIT APPROVED

JUN - 2 2003

SUPERVISOR _____

FOR Issuance of this permit is subject to the conditions attached (see next page)
DEP For monitoring purposes only
USE

The well(s) may not be completed with more than 25 feet of total screen or uncased borehole

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT
In compliance with N.J.S.A. 58:4A-14 application is made for a permit to drill a well as described above

Date 5/14/03

Signature of Driller Steven Wergana

Registration No M15M 0023169

Signature of Property Owner Therese H. Schuchman FOR WALTER LAPP, SR

Well Records

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130 LLC

Address: 555 Georges Road Dayton, New Jersey 08810

WELL LOCATION: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500209 Northing (Y): 586438
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: December 5, 2023

DATE WELL COMPLETED: December 5, 2023

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-1D

WELL CONSTRUCTION

Total Depth Drilled (ft.): 23 Finished Well Depth (ft.): 23 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	23	8		
Casing	0.25	18	2	PVC	sched 40
Screen	18	23	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	16	8	2	0	460	28
Gravel Pack	16	23	8	2	#2 Morie Sand		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 9 ft. below land surface

Water Level Measure Tool: indicator probe

Well Development Period: 1 hrs.

Method of Development: submersible pump

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: Geoprobe 7822DT

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - .5: black/grey OT - Other asphalt/gravel

.5 - 23: red/brown/grey SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009

Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130 LLC

Address: 555 Georges Road Dayton, New Jersey 08810

WELL LOCATION: 1696 Route 130 LLC

Address: 1696 Georges Rd (aka Route 130)

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): <u>500209</u> Northing (Y): <u>586433</u>
Coordinate System: <u>NJ State Plane (NAD83) - USFEET</u>

DATE WELL STARTED: June 9, 2025

DATE WELL COMPLETED: June 9, 2025

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-1DD

WELL CONSTRUCTION

Total Depth Drilled (ft.): 30 Finished Well Depth (ft.): 30 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	30	8		
Casing	0.25	25	2	PVC	sched 40
Screen	25	30	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	24	8	2	4	745	45
Gravel Pack	24	30	8	2	#2 Morie Sand		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
 Static Water Level: 13 ft. below land surface
 Water Level Measure Tool: indicator probe
 Well Development Period: 1 hrs.
 Method of Development: submersible pump
 Pump Type: _____

Pump Capacity: _ gpm
 Total Design Head: _ ft.
 Drilling Fluid: _____
 Drill Rig: Geoprobe 7822DT
 Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - .5: black/grey OT - Other asphalt/gravel
.5 - 9: red/brown SM - Silty sands, sand-silt mixtures
9 - 17: red/brown GW - Well-graded gravels and gravel-sand mixtures, little or no fines
17 - 30: red/brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009 Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130

Address: 555 Georges Road North Brunswick Twp, New Jersey 08810

WELL LOCATION: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500137 Northing (Y): 586409
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: May 29, 2024

DATE WELL COMPLETED: May 29, 2024

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-2D

WELL CONSTRUCTION

Total Depth Drilled (ft.): 25 Finished Well Depth (ft.): 25 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	25	8		
Casing	0.25	20	2	PVC	shed 40
Screen	20	25	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	18	8	2	0	585	35
Gravel Pack	18	25	8	2	#2 Morie Sand		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 12 ft. below land surface

Water Level Measure Tool: indicator probe

Well Development Period: 1 hrs.

Method of Development: submersible pump

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: Geoprobe 7822DT

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - .5: black/grey OT - Other asphalt/gravel

.5 - 8: red/brown SM - Silty sands, sand-silt mixtures

8 - 17: red/brown SM - Silty sands, sand-silt mixtures with cobbles

17 - 25: red/brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009

Company: SUBSTRATA TECHNOLOGIES INC.

ENV. MAINT. CO. INC.
New Jersey Department of Environmental Protection
Bureau of Water Allocation
MONITORING WELL RECORD

Well Permit No. 28 47752

Atlas Sheet Coordinates 28 : 04 : 145

OWNER IDENTIFICATION - Owner NORTH BRUNSWICK GULF
Address 1696 RT 130 (GEORGES RD)
City NORTH BRUNSWICK State NJ Zip Code _____

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW3
County MIDDLESEX Municipality NORTH BRUNSWICK Lot No. 1 Block No. 282
Address 1696 RT 130

TYPE OF WELL (as per Well Permit Categories) MONITORING DATE WELL STARTED 2/22/02
Regulatory Program Requiring Well _____ DATE WELL COMPLETED 2/22/02
Case I.D.# TMS N010818

CONSULTING FIRM/FIELD SUPERVISOR (If applicable) Red Hawk Tele. # 1800.311.6115

WELL CONSTRUCTION

Total depth drilled 23 ft.
Well finished to 20 ft.

Borehole diameter:
Top 8 3/4 in.
Bottom 8 3/4 in.

Well was finished: above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Was steel protective casing installed?
 Yes No

Static water level after drilling 4 ft.

Water level was measured using M.S. pipe

Well was developed for 1/2 hours at 5 gpm

Method of development Pump

Was permanent pumping equipment installed? Yes No

Pump capacity _____ gpm

Pump type: _____

Drilling Fluid _____ Type of Rig B57M.b.l.c

Health and Safety Plan submitted? Yes No

Level of Protection used on site (circle one) None D C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TOTAL QUALITY DRILLING

Well Driller (Print) Michael Kavulyas

Driller's Signature Michael Kavulyas

Registration No. MO1328 Date 2/22/02

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (Inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	5'	4"	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used)	5'	20'	4"	PVC .020	40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3'	23'	#1	M2R.C	
Grout	0	3 1/2'		Neat Cement Bentonite	15 lbs.

Grouting Method TREM.C
Drilling Method HSA

GEOLOGIC LOG	
Note each depth where water was encountered in consolidated formations.	
<u>0-23' Red P. Tans. H.</u>	

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	
NJ STATE PLANE COORDINATE IN US SURVEY FEET	
NORTHING: _____	EASTING: _____
OR	
LATITUDE: _____	LONGITUDE: _____

MONITORING WELL RECORD

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Company/Organization: 1696 Route 130 LLC

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Address: 1696 Georges Rd (aka Route 130)

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): <u>500130</u> Northing (Y): <u>586333</u>
Coordinate System: <u>NJ State Plane (NAD83) - USFEET</u>

DATE WELL STARTED: June 9, 2025

DATE WELL COMPLETED: June 9, 2025

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-3D

WELL CONSTRUCTION

Total Depth Drilled (ft.): 25 Finished Well Depth (ft.): 25 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	25	8		
Casing	0.25	20	2	PVC	sched 40
Screen	20	25	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	19	8	2	4	585	35
Gravel Pack	19	25	8	2	#2 Morie Sand		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
 Static Water Level: 15 ft. below land surface
 Water Level Measure Tool: indicator probe
 Well Development Period: 1 hrs.
 Method of Development: submersible pump
 Pump Type: _____

Pump Capacity: _ gpm
 Total Design Head: _ ft.
 Drilling Fluid: _____
 Drill Rig: Geoprobe 7822DT
 Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - .5: black/grey OT - Other asphalt/gravel
.5 - 8: red/brown SM - Silty sands, sand-silt mixtures
8 - 17: red/brown GW - Well-graded gravels and gravel-sand mixtures, little or no fines some cobbles
17 - 25: red/brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009 Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

OWNER IDENTIFICATION WALTER LAPP

Address 1698 GEORGES ROAD (RT 130)

City North Brunswick Twp State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-5

County Middlesex Municipality North Brunswick Twp Lot No 1 Block No 282

Address 1698 GEORGES ROAD (RT 130) NORTH BRUNSWICK GULF



WELL USE Monitoring

DATE WELL STARTED 12-23-04

DATE WELL COMPLETED 12-23-04

WELL CONSTRUCTION

Total Depth Drilled 20 ft

Finished Well Depth 20 ft

Borehole Diameter

Top 8 in

Bottom 8 in

Well was finished above grade

flush mounted

If finished above grade, casing height (stick up) above land surface — ft

Steel protective casing installed?

Yes No

Static Water Level after drilling 12 ft

Water Level was Measured Using Tape

Well was developed for 1/2 hours

at 2 gpm

Method of development Whale pump

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Hurricane

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (B) C B A

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt/Rating (lbs/sch no)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No Used .010)	2	20	2	PVC	40
Blank Casings (No Used)					
Tail Piece					
Gravel Pack	1.5	20	8	#10/16	10/10
Grout	0	1.5	8	Neat Cement Bentonite	100 lbs / 10 lbs

Grouting Method Gravity feed

Drilling Method HSA

GEOLOGIC LOG	
Note each depth where water was encountered in consolidated formations	
<u>0-4</u>	<u>Med Sand</u>
<u>4-16</u>	<u>F.M. Sand</u>
<u>16-20</u>	<u>CLAY</u>
AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	
NJ STATE PLANE COORDINATE IN US SURVEY FEET	
NORTHING: _____	EASTING: _____
OR	
LATITUDE _____ ° ' _____ "	LONGITUDE _____ ° ' _____ "

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company ENVIRONMENTAL PROBING INVESTIGATION

Well Driller (Print) Robert T Fleming

Driller's Signature Robert T Fleming

Registration No MW 0024435 Date 1/11/05

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130

Address: 555 Georges Road North Brunswick Twp, New Jersey 08810

WELL LOCATION: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500273 Northing (Y): 586484
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: May 29, 2024

DATE WELL COMPLETED: May 29, 2024

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-5D

WELL CONSTRUCTION

Total Depth Drilled (ft.): 25 Finished Well Depth (ft.): 25 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	25	8		
Casing	0.25	20	2	PVC	shed 40
Screen	20	25	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	18	8	2	0	585	35
Gravel Pack	18	25	8	2	#2 Morie Sand		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 12 ft. below land surface

Water Level Measure Tool: indicator probe

Well Development Period: 1 hrs.

Method of Development: submersible pump

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: Geoprobe 7822DT

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - .5: red/brown OT - Other asphalt/gravel

.5 - 8: red/brown SM - Silty sands, sand-silt mixtures

8 - 17: red/brown SM - Silty sands, sand-silt mixtures with cobbles

17 - 25: red/brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009

Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

OWNER IDENTIFICATION WALTER LAPP

Address 1698 GEORGES ROAD (RT 130)
City North Brunswick Twp State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address Owner's Well No. MW-6
County Middlesex Municipality North Brunswick Twp Lot No 1 Block No 282
Address 1698 GEORGES ROAD (RT 130) NORTH BRUNSWICK GULF



WELL USE Monitoring **DATE WELL STARTED** 12-23-04
DATE WELL COMPLETED 12-23-04

WELL CONSTRUCTION

Total Depth Drilled 20 ft
Finished Well Depth 20 ft
Borehole Diameter
Top 8 in
Bottom 8 in

Well was finished above grade
 flush mounted
If finished above grade, casing height (stick up) above land surface — ft

Steel protective casing installed?
 Yes No

Static Water Level after drilling 12 ft
Water Level was Measured Using Tape

Well was developed for 1/2 hours
at 2 gpm

Method of development Whale pump

Pump Capacity — gpm
Pump Type —

Drilling Fluid — Type of Rig Hurricane

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None D C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company ENVIRONMENTAL PROBING INVESTIGATION
Well Driller (Print) Robert Flemming
Driller's Signature Robert Flemming
Registration No MW0024435 Date 1/11/05

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt /Rating (lbs/sch no)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No Used .010)	2	20	2	PVC	40
Blank Casings (No Used)					
Tail Piece					
Gravel Pack	1.5	20	8	#1 MVI E	1000
Grout	0	1.5	8	Neat Cement Bentonite	100 lbs / 16 lbs

Grouting Method Gravity Feed
Drilling Method HSA

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-4 Med Sand

4-16 F.-M. Sand

16-20 Clay

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE _____ " LONGITUDE _____ "

ORIGINAL: DEP COPIES: DRILLER OWNER HEALTH DEPARTMENT

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130 LLC

Address: 555 Georges Road Dayton, New Jersey 08810

WELL LOCATION: 1696 Route 130 LLC

Address: 1696 Georges Rd (aka Route 130)

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): <u>500195</u> Northing (Y): <u>586461</u> Coordinate System: <u>NJ State Plane (NAD83) - USFEET</u>

DATE WELL STARTED: June 10, 2025

DATE WELL COMPLETED: June 10, 2025

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-6D

WELL CONSTRUCTION

Total Depth Drilled (ft.): 25 Finished Well Depth (ft.): 25 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	25	8		
Casing	0.25	20	2	PVC	sched 40
Screen	20	25	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	19	8	2	4	585	35
Gravel Pack	19	25	8	2	#2 Morie Sand		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
 Static Water Level: 14 ft. below land surface
 Water Level Measure Tool: indicator probe
 Well Development Period: 1 hrs.
 Method of Development: submersible pump
 Pump Type: _____

Pump Capacity: _ gpm
 Total Design Head: _ ft.
 Drilling Fluid: _____
 Drill Rig: Geoprobe 7822DT
 Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - .5: black/grey OT - Other asphalt/gravel
.5 - 9: red/brown SM - Silty sands, sand-silt mixtures
9 - 17: red/brown GW - Well-graded gravels and gravel-sand mixtures, little or no fines some cobbles
17 - 25: red/brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009 Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

OWNER IDENTIFICATION WALTER LAPP

Address 1698 GEORGES ROAD (RT 130)

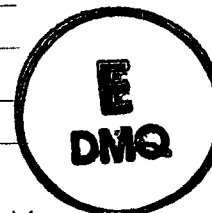
City North Brunswick Twp State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-7

County Middlesex Municipality North Brunswick Twp Lot No 1 Block No 282

Address 1698 GEORGES ROAD (RT 130) NORTH BRUNSWICK GOLF



WELL USE Monitoring

DATE WELL STARTED 12-22-04

DATE WELL COMPLETED 12-22-04

WELL CONSTRUCTION

Total Depth Drilled 20 ft

Finished Well Depth 20 ft

Borehole Diameter

Top 8 in

Bottom 8 in

Well was finished above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface — ft

Steel protective casing installed?

Yes No

Static Water Level after drilling 12 ft

Water Level was Measured Using Tape

Well was developed for 1/2 hours

at 2 gpm

Method of development Whirl pump

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Hurricane

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt /Rating (lbs/sch no)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No Used ,010)	2	20	2	PVC	40
Blank Casings (No Used)					
Tail Piece					
Gravel Pack	1.5	20	8	*1 Murie	1000
Grout	0	1.5	8	Neat Cement Bentonite	100 lbs 10 lbs

Grouting Method Gravity Feed

Drilling Method H.S.A

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-4 Med Sand

4-16 F M Sand

16-20 Clay

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE ° ' " LONGITUDE ° ' "

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company ENVIRONMENTAL PROBING INVESTIGATION

Well Driller (Print) Robert Flemming

Driller's Signature Robert J. Flemming

Registration No MW00244350 Date 1/11/05

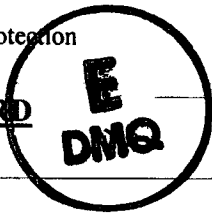
ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD



OWNER IDENTIFICATION WALTER LAPP

Address 1698 GEORGES ROAD (RT 130)
City North Brunswick Twp State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address Owner's Well No. MW-8
County Middlesex Municipality North Brunswick Twp Lot No 1 Block No 282
Address 1698 GEORGES ROAD (RT 130) NORTH BRUNSWICK GULF

WELL USE Monitoring **DATE WELL STARTED** 12-22-04
DATE WELL COMPLETED 12-22-04

WELL CONSTRUCTION

Total Depth Drilled 20 ft
Finished Well Depth 20 ft
Borehole Diameter
Top 8 in
Bottom 8 in

Well was finished above grade
 flush mounted
If finished above grade, casing height (stick up) above land surface ft

Steel protective casing installed?
 Yes No

Static Water Level after drilling 12 ft

Water Level was Measured Using Tape

Well was developed for 1/2 hours
at 2 gpm

Method of development Whale pump

Pump Capacity gpm

Pump Type

Drilling Fluid Type of Rig Hurricane

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (C) B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company ENVIRONMENTAL PROBING INVESTIGATION

Well Driller (Print) Robert Flemming

Driller's Signature Robert Flemming

Registration No MW0024435 Date 1/11/05

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt /Rating (lbs/sch no)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No Used <u>MU</u>)	2	20	2	PVC	40
Blank Casings (No Used)					
Tail Piece					
Gravel Pack	1.5	20	8	#10 sieve	1000
Grout	0	1.5	8	Neat Cement Bentonite	100 lbs 40 lbs

Grouting Method Gravity feed
Drilling Method HSA

GEOLOGIC LOG	
Note each depth where water was encountered in consolidated formations	
<u>0-4</u>	<u>Med Sand</u>
<u>4-16</u>	<u>F M Sand</u>
<u>16-20</u>	<u>CLAY</u>
AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	
NJ STATE PLANE COORDINATE IN US SURVEY FEET	
NORTHING: _____	EASTING: _____
OR	
LATITUDE _____ ° ' "	LONGITUDE _____ ° ' "

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD

OWNER IDENTIFICATION WALTER LAPP

Address 1698 GEORGES ROAD (RT 130)

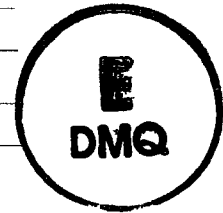
City North Brunswick Twp State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-9

County Middlesex Municipality North Brunswick Twp Lot No 1 Block No 282

Address 1698 GEORGES ROAD (RT 130) NORTH BRUNSWICK GULF



WELL USE Monitoring

DATE WELL STARTED 12-22-04

DATE WELL COMPLETED 12-22-04

WELL CONSTRUCTION

Total Depth Drilled 20 ft

Finished Well Depth 20 ft

Borehole Diameter

Top 8 in

Bottom 8 in

Well was finished above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface — ft

Steel protective casing installed?

Yes No

Static Water Level after drilling 12 ft

Water Level was Measured Using Tap

Well was developed for 1/2 hours

at 2 gpm

Method of development Whale pump

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Hurricane

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company ENVIRONMENTAL PROBING INVESTIGATION

Well Driller (Print) Robert Flemming

Driller's Signature Robert Flemming

Registration No mw0024435 Date 1/11/05

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt /Rating (lbs/sch no)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No Used)	2	20	2	PVC	40
Blank Casings (No Used)					
Tail Piece					
Gravel Pack	1.5	20	8	*1 more	1000
Grout	0	1.5	8	Neat Cement Bentonite	100 lbs 10 lbs

Grouting Method Gravity Feed

Drilling Method HSA

GEOLOGIC LOG	
Note each depth where water was encountered in consolidated formations	
0-4	Med Sand
4-16	F-m Sand
16-20	Clay
AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	
NJ STATE PLANE COORDINATE IN US SURVEY FEET	
NORTHING: _____	EASTING: _____
OR	
LATITUDE <u> </u> ° <u> </u> ' _____"	LONGITUDE <u> </u> ° <u> </u> ' _____"

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD

OWNER IDENTIFICATION WALTER LAPP

Address 1698 GEORGES ROAD (RT 130)
City North Brunswick Twp State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address Owner's Well No. MW-10
County Middlesex Municipality North Brunswick Twp Lot No 1 Block No 282
Address 1698 GEORGES ROAD (RT 130) NORTH BRUNSWICK GULF



WELL USE Monitoring

DATE WELL STARTED 12-22-04
DATE WELL COMPLETED 12-22-04

WELL CONSTRUCTION

Total Depth Drilled 20 ft
Finished Well Depth 20 ft
Borehole Diameter
Top 8 in
Bottom 8 in

Well was finished above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface — ft

Steel protective casing installed?
 Yes No

Static Water Level after drilling 12 ft

Water Level was Measured Using Tape

Well was developed for 1/2 hours
at 2 gpm

Method of development Whale Pump

Pump Capacity — gpm

Pump Type —

Drilling Fluid — Type of Rig Hurricane

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

Note Measure all depths from land surface	Depth to Top (ft)	Depth to Bottom (ft)	Diameter (inches)	Material	Wgt /Rating (lbs/sch no)
Single/Inner Casing	0	2	2	PVC	40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No Used <u>.010</u>)	2	20	2	PVC	40
Blank Casings (No Used)					
Tail Piece					
Gravel Pack	1.5	20	8	#1 MORTAR	100 lbs
Grout	0	1.5	8	Neat Cement Bentonite	10 lbs

Grouting Method Gravity Feed
Drilling Method HSA

GEOLOGIC LOG
Note each depth where water was encountered in consolidated formations
<u>0-4 med Sand</u>
<u>4-16 F.M. Sand</u>
<u>16-20 Clay</u>

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET
NORTHING: _____ EASTING: _____
OR
LATITUDE <u>—</u> ° <u>—</u> ' _____ " LONGITUDE <u>—</u> ° <u>—</u> ' _____ "

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations

Drilling Company ENVIRONMENTAL PROBING INVESTIGATION

Well Driller (Print) Robert Flemming

Driller's Signature Robert Flemming

Registration No MW0024435 Date 1/11/05

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD

Atlas Sheet Coordinates
2803392

OWNER IDENTIFICATION THOMAS CSEPES

Address 359 WASHINGTON PLACE
City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address
County Middlesex Municipality North Brunswick Twp Lot No. 5 Block No. 282
Address 359 WASHINGTON PLACE MW-14

Owner's Well No. MW-14 should be MW 11
EF

WELL USE Monitoring DATE WELL STARTED 9-24-09
DATE WELL COMPLETED 9-24-09

WELL CONSTRUCTION
Total Depth Drilled 19' ft.
Finished Well Depth 19' ft.
Borehole Diameter:
0-5' Top 10" in.
5-19' Bottom 8" in.

Well was finished: above grade
 flush mounted
If finished above grade, casing height (stick up) above land surface _____ ft.

Steel protective casing installed?
 Yes No
Static Water Level after drilling 13' ft.

Water Level was Measured Using Tap
Well was developed for 1 hours
at 1 gpm
Method of development Pump
Pump Capacity 2 gpm
Pump Type SJB
Drilling Fluid None Type of Rig Simon 2800
Health and Safety Plan Submitted? Yes No
Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	4'	4"	Pvc	sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>020</u>)	4'	19'	4"	Pvc	sch. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	19'		Moritt	
Grout	.5	2'		Neat Cement Bentonite	94 lbs / 5 lbs

Grouting Method Tremie
Drilling Method Air Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-19 Brown (FM) sand
Trace of clay

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET
NORTHING: 586429 EASTING: 500379
OR
LATITUDE: _____ " LONGITUDE: _____ "

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC
Well Driller (Print) James Byrdon
Driller's Signature [Signature]
Registration No. J13755 Date 9/24/09

MONITORING WELL RECORD

Atlas Sheet Coordinates

2803392

OWNER IDENTIFICATION THOMAS CSEPES

Address 359 WASHINGTON PLACE

City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-15 should be MW-12
Lot No. 2 Block No. 282

County Middlesex Municipality North Brunswick Twp

Address 359 WASHINGTON PLACE MW-15

WELL USE Monitoring

DATE WELL STARTED 9-24-09

DATE WELL COMPLETED 9-24-09

WELL CONSTRUCTION

Total Depth Drilled 18' ft.

Finished Well Depth 18' ft.

Borehole Diameter:

0-5' Top 10" in.
5-18' Bottom 8" in.

Well was finished: above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Steel protective casing installed?

Yes No

Static Water Level after drilling 11' ft.

Water Level was Measured Using Tape

Well was developed for 1 hours

at 1 gpm

Method of development Pump

Pump Capacity 2 gpm

Pump Type SUB

Drilling Fluid None Type of Rig Singer 2800

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC

Well Driller (Print) James Burton

Driller's Signature Jan C. Burton

Registration No. J13752 Date 9/24/09

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	3'	4"	PVC	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>020</u>)	3'	18'	4"	PVC	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	18'		Morie #2	
Grout	.5	2'		Neat Cement Bentonite	99 lbs 5 lbs

Grouting Method Grout

Drilling Method Air Rotary

GEOLOGIC LOG	
Note each depth where water was encountered in consolidated formations	
<u>0-11'</u>	<u>Brown silty sand</u>
<u>11-15'</u>	<u>light Brown (F-M) sand trace of silt</u>
<u>15-18'</u>	<u>Grey (F) silt</u>

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	
NJ STATE PLANE COORDINATE IN US SURVEY FEET	
NORTHING: <u>586268</u>	EASTING: <u>500233</u>
OR	
LATITUDE: <u>0</u> ° <u>0</u> ' <u>0</u> "	LONGITUDE: <u>0</u> ° <u>0</u> ' <u>0</u> "

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD

OWNER IDENTIFICATION DENICE LUZAK

Address 368 WASHINGTON PLACE
City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address
County Middlesex Municipality North Brunswick Twp Owner's Well No. MW-16 should be MW13
Address 368 WASHINGTON PLACE MW-16 Lot No. 2 Block No. 283

WELL USE Monitoring

DATE WELL STARTED 9-24-09
DATE WELL COMPLETED 9-24-09

WELL CONSTRUCTION

Total Depth Drilled 19' ft.
Finished Well Depth 19' ft.
Borehole Diameter:
0-5' Top 10" in.
5-19' Bottom 8" in.

Well was finished: above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Steel protective casing installed?
 Yes No

Static Water Level after drilling 14' ft.
Water Level was Measured Using Tape

Well was developed for 1 hours
at 1 gpm

Method of development Pump
Pump Capacity 2 gpm

Pump Type Submersible
Drilling Fluid None Type of Rig Sinco 2800

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	4'	4"	PVC	sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>020</u>)	4'	19'	4"	PVC	sch. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	19'		Moist #2	
Grout	.5	2'		Neat Cement Bentonite	94 lbs 5 lbs

Grouting Method Tremie
Drilling Method Air Rotary

GEOLOGIC LOG
Note each depth where water was encountered in consolidated formations
<u>0-19' Brown Dense (F-M) sand some silt trace of clay</u>

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET
NORTHING: <u>586235</u> EASTING: <u>500149</u>
OR
LATITUDE: _____ LONGITUDE: _____

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC
Well Driller (Print) JAMES BURTON
Driller's Signature J. C. B.
Registration No. 51375a Date 9/24/09

MONITORING WELL RECORD

Atlas Sheet Coordinates
 2803392

OWNER IDENTIFICATION **JACOB KRAUSER**

Address 1674 US HWY 130
 City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address
 County Middlesex Municipality North Brunswick Twp Lot No. 1 Block No. 278
 Address 1674 US HWY 130 MW-13

Owner's Well No. MW-13 *should be MW 14*

WELL USE Monitoring DATE WELL STARTED 9-22-09
 DATE WELL COMPLETED 9-22-09

WELL CONSTRUCTION
 Total Depth Drilled 19' ft.
 Finished Well Depth 19' ft.
 Borehole Diameter:
 0-5' Top 10" in.
 5-19' Bottom 8" in.
 Well was finished: above grade
 flush mounted

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	4'	4"	Pvc	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>000</u>)	4'	19'	4"	Pvc	sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2'	19'		Modic #2	
Grout	.5	2'		Neat Cement Bentonite	94 lbs / 5 lbs

If finished above grade, casing height (stick up) above land surface _____ ft.
 Steel protective casing installed?
 Yes No
 Static Water Level after drilling 14' ft.

Water Level was Measured Using Tape
 Well was developed for 1 hours at .5 gpm
 Method of development Pump

Pump Capacity 2 gpm
 Pump Type SVB
 Drilling Fluid None Type of Rig Simple 2800
 Health and Safety Plan Submitted? Yes No
 Level of Protection used on site (circle one) None (D) C B A

Grouting Method Tremie
 Drilling Method Air Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-13' Light Brown Silty Dense sand

13-19' Black (F-M) silty sand

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC
 Well Driller (Print) JAMES BUELD
 Driller's Signature James C. Bue
 Registration No. J13752 Date 9/22/09

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET
 NORTHING: 586429 EASTING: 500379
 OR
 LATITUDE: _____ LONGITUDE: _____

SEP 30 2009

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number

P200910660

Atlas Sheet Coordinates

2803392

MONITORING WELL RECORD

OWNER IDENTIFICATION WALTER LAPP

Address 1696 GEORGES RD (RT. 130)

City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-11 should be MW-15

County Middlesex Municipality North Brunswick Twp Lot No. 1 Block No. 282

Address 1696 GEORGES RD (RT. 130) MW-11

WELL USE Monitoring

DATE WELL STARTED 9-22-09

DATE WELL COMPLETED 9-22-09

WELL CONSTRUCTION

Total Depth Drilled 20' ft.

Finished Well Depth 20' ft.

Borehole Diameter:

0-7' Top 10" in.

7-20' Bottom 8" in.

Well was finished: above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Steel protective casing installed?

Yes No

Static Water Level after drilling 13' ft.

Water Level was Measured Using Tape

Well was developed for 1 hours

at .5 gpm

Method of development Pump

Pump Capacity 2 gpm

Pump Type SUB.

Drilling Fluid None Type of Rig SINCO 2800

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC

Well Driller (Print) JAMES BARTON

Driller's Signature James C. Barton

Registration No. 13752 Date 9/22/09

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	5'	5'	4"	Pvc	SCH 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 020)	5'	20'	4"	Pvc	SCH 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	3'	20'		Morie #2	
Grout	.5'	3'		Neat Cement Bentonite	94 lbs 5 lbs

Grouting Method Tech 12

Drilling Method Air Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-20' Red Brown
Silty sand trace of clay
Very dense

**AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)**

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 586380 EASTING: 500099

OR

LATITUDE: _____ " LONGITUDE: _____ "

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130 LLC

Address: 555 Georges Road Dayton, New Jersey 08810

WELL LOCATION: 1696 Route 130 LLC

Address: 1696 Georges Rd (aka Route 130)

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500295 Northing (Y): 586504
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: June 10, 2025

DATE WELL COMPLETED: June 10, 2025

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-15D

WELL CONSTRUCTION

Total Depth Drilled (ft.): 25 Finished Well Depth (ft.): 25 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	25	8		
Casing	0.25	20	2	PVC	sched 40
Screen	20	25	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	19	8	2	4	585	35
Gravel Pack	19	25	8	2	#2 Morie Sand		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 19 ft. below land surface

Water Level Measure Tool: indicator probe

Well Development Period: 1 hrs.

Method of Development: submersible pump

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: Geoprobe 7822DT

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - 6: red/brown SM - Silty sands, sand-silt mixtures

6 - 18: red/brown SM - Silty sands, sand-silt mixtures some small cobbles

18 - 25: red/brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009

Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

Atlas Sheet Coordinates
2803392

OWNER IDENTIFICATION WALTER LAPP

Address 1696 GEORGES RD (RT. 130)

City North Brunswick State New Jersey Zip Code 08902

WELL LOCATION - If not the same as owner please give address

Owner's Well No. MW-12 shall be MW16

County Middlesex Municipality North Brunswick Twp Lot No. 1 Block No. 282

Address 1696 GEORGES RD (RT. 130) MW-12

WELL USE Monitoring

DATE WELL STARTED 9-22-09

DATE WELL COMPLETED 9-22-09

WELL CONSTRUCTION

Total Depth Drilled 19 ft.

Finished Well Depth 19 ft.

Borehole Diameter:

0-7 Top 10 in.
7-19 Bottom 8 in.

Well was finished: above grade
 flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Steel protective casing installed?

Yes No

Static Water Level after drilling 7 ft.

Water Level was Measured Using Tape

Well was developed for .5 hours

at .5 gpm

Method of development Pump

Pump Capacity 2 gpm

Pump Type sub.

Drilling Fluid None Type of Rig Singer 2800

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	.5	4	4"	Pvc	sch. 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used <u>020</u>)	4	19	4"	Pvc	sch. 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	2	19		Mocic #2	
Grout				Neat Cement Bentonite	<u>94</u> lbs <u>5</u> lbs

Grouting Method Tremie

Drilling Method Aug Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-7' Clean Fill
7-19' Red Browned Glacial Till

AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET
NORTHING: 586519 EASTING: 500289

OR

LATITUDE: 0 ' 0 " LONGITUDE: 0 ' 0 "

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company HAMER INC

Well Driller (Print) James Burton

Driller's Signature [Signature]

Registration No. 513752 Date 9/22/09

ORIGINAL: DEP

COPIES: DRILLER

OWNER

HEALTH DEPARTMENT

MONITORING WELL RECORD

PROPERTY OWNER: TOWNSHIP OF NORTH BRUNSWICK

Company/Organization: Township of North Brunswick

Address: 710 Hermann Road North Brunswick, New Jersey 08902

WELL LOCATION: Shoulder Route 130 Southbound

Address: Shoulder Route 130 Southbound

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): <u>500088</u> Northing (Y): <u>586526</u> Coordinate System: <u>NJ State Plane (NAD83) - USFEET</u>

DATE WELL STARTED: May 25, 2018
DATE WELL COMPLETED: May 25, 2018

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MW-17

WELL CONSTRUCTION

Total Depth Drilled (ft.): 13 Finished Well Depth (ft.): 13 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	13	8		
Casing	0	3	2	PVC	Sch 40
Screen	3	13	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	1	8	2	6		3
Gravel Pack	1	13	8	2	Morie #1		

Grouting Method: Gravity method Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
 Static Water Level: 5 ft. below land surface
 Water Level Measure Tool: Tape
 Well Development Period: .5 hrs.
 Method of Development: Submersible
 Pump Type:

Pump Capacity: _ gpm
 Total Design Head: _ ft.
 Drilling Fluid:
 Drill Rig: Geoprobe 7822
 Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - .5: Black OT - Other Asphalt
.5 - 13: brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeremy Wilkins, MONITORING LICENSE # 763199

Company: ENVIRONMENTAL PROBING INVESTIGATION

MONITORING WELL RECORD

PROPERTY OWNER: TOWNSHIP OF NORTH BRUNSWICK

Company/Organization: Township of North Brunswick

Address: 710 Hermann Road North Brunswick, New Jersey 08902

WELL LOCATION: Washington Place ROW

Address: Washington Place ROW

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): <u>500230</u> Northing (Y): <u>586214</u> Coordinate System: <u>NJ State Plane (NAD83) - USFEET</u>

DATE WELL STARTED: September 13, 2018

DATE WELL COMPLETED: September 13, 2018

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-18

WELL CONSTRUCTION

Total Depth Drilled (ft.): 20 Finished Well Depth (ft.): 20 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	20	8		
Casing	0	5	2	PVC	Sch 40
Screen	5	20	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	3	8	2	15		7.50
Gravel Pack	3	20	8	2	Morie #1		

Grouting Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
 Static Water Level: 7 ft. below land surface
 Water Level Measure Tool: Tape
 Well Development Period: 1 hrs.
 Method of Development: Submersible
 Pump Type: _____

Pump Capacity: _ gpm
 Total Design Head: _ ft.
 Drilling Fluid: _____
 Drill Rig: Geoprobe 7822
 Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - .5: Black OT - Other Asphalt
 .5 - 20: Brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeremy Wilkins, MONITORING LICENSE # 763199

Company: ENVIRONMENTAL PROBING INVESTIGATION

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130, LLC

Address: 555 Georges Road North Brunswick, New Jersey 08810

WELL LOCATION: North Brunswick Gulf

Address: 1696 Georges Road aka Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): <u>500292</u> Northing (Y): <u>586404</u> Coordinate System: <u>NJ State Plane (NAD83) - USFEET</u>

DATE WELL STARTED: May 24, 2018
DATE WELL COMPLETED: May 24, 2018

WELL USE: MONITORING

Other Use(s): _____ **Local ID:** MW-19

WELL CONSTRUCTION

Total Depth Drilled (ft.): 20 Finished Well Depth (ft.): 20 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	20	8		
Casing	0	5	2	PVC	Sch 40
Screen	5	20	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	3	8	2	15		7.5
Gravel Pack	3	20	8	2	Morie #1		

Grouting Method: Gravity method Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
 Static Water Level: 10 ft. below land surface
 Water Level Measure Tool: Tape
 Well Development Period: 1 hrs.
 Method of Development: Submersible
 Pump Type:

Pump Capacity: _ gpm
 Total Design Head: _ ft.
 Drilling Fluid:
 Drill Rig: Geoprobe 7822
 Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - 5: Back OT - Other Fill material
5 - 20: Grey SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeremy Wilkins, MONITORING LICENSE # 763199

Company: ENVIRONMENTAL PROBING INVESTIGATION

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130 Llc

Address: 555 Georges Road Dayton, New Jersey 08810

WELL LOCATION: NOOR Petroleum Service Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): <u>500300</u> Northing (Y): <u>586397</u> Coordinate System: <u>NJ State Plane (NAD83) - USFEET</u>

DATE WELL STARTED: June 2, 2025

DATE WELL COMPLETED: June 3, 2025

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-19B

WELL CONSTRUCTION

Total Depth Drilled (ft.): 43 Finished Well Depth (ft.): 43 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	38	10		
Borehole	38	43	6		
Casing	0	38	2	PVC	sch 40
Casing	0	38	6	Steel	.188
Screen	38	43	2	PVC	010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	36	6	2	22.50	423	37.35
Grout	0	38	10	6	45	846	74.70
Gravel Pack	36	43	6	2	#1 sand		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Air Rotary

ADDITIONAL INFORMATION

Protective Casing: Yes
 Static Water Level: 16 ft. below land surface
 Water Level Measure Tool: tape
 Well Development Period: 1 hrs.
 Method of Development: Air lift
 Pump Type:

Pump Capacity: _ gpm
 Total Design Head: _ ft.
 Drilling Fluid:
 Drill Rig: Mobile B90
 Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - 12: Grey OT - Other gravel fill
12 - 28: Grey SC - Clayey sands, sand-clay mixtures
28 - 43: Red Brown CR - Competent Rock Shale

ADDITIONAL INFORMATION: 25-047

Driller of Record: Christopher Jaworski, ENV RESOURCE GEOTEC LICENSE # 592954 Company: TALON DRILLING CO

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130 LLC

Address: 555 Georges Road Dayton, New Jersey 08810

WELL LOCATION: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500290 Northing (Y): 586399
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: December 6, 2023

DATE WELL COMPLETED: December 6, 2023

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-19D

WELL CONSTRUCTION

Total Depth Drilled (ft.): 25 Finished Well Depth (ft.): 25 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	25	8		
Casing	0.25	16	2	PVC	shed 40
Screen	16	25	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	14	8	2	0	400	23
Gravel Pack	14	25	8	2	#2 Morie Sand		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 11 ft. below land surface

Water Level Measure Tool: indicator probe

Well Development Period: 1 hrs.

Method of Development: submersible pump

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: Geoprobe 7822DT

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - .5: black/grey OT - Other asphalt/gravel

.5 - 25: red/brown/grey SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009

Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130

Address: 555 Georges Road North Brunswick Twp, New Jersey 08810

WELL LOCATION: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500302 Northing (Y): 586411
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: May 28, 2024

DATE WELL COMPLETED: May 28, 2024

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-19DD

WELL CONSTRUCTION

Total Depth Drilled (ft.): 28.5 Finished Well Depth (ft.): 28.5 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	28.50	8		
Casing	0.25	23.50	2	PVC	sched 40
Screen	23.50	28.50	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	21.50	8	2	0	615	37
Gravel Pack	21.50	28.50	8	2	#2 Morie Sand		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 12 ft. below land surface
Water Level Measure Tool: indicator probe
Well Development Period: 1 hrs.
Method of Development: submersible pump
Pump Type: _____

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid: _____
Drill Rig: Geoprobe 7822DT
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - .5: black/grey OT - Other asphalt/gravel
.5 - 8: red/brown SM - Silty sands, sand-silt mixtures
8 - 17: red/brown SM - Silty sands, sand-silt mixtures with cobbles
17 - 28.5: red/brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009

Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130 LLC

Address: 555 Georges Road Dayton, New Jersey 08810

WELL LOCATION: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500286 Northing (Y): 586394
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: December 5, 2023

DATE WELL COMPLETED: December 5, 2023

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-19R

WELL CONSTRUCTION

Total Depth Drilled (ft.): 12 Finished Well Depth (ft.): 12 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	12	8		
Casing	0.25	2	2	PVC	sched 40
Screen	2	12	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	1	8	2	0	15	1
Gravel Pack	1	12	8	2	#2 Morie Sand		

Grouting Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 8 ft. below land surface

Water Level Measure Tool: indicator probe

Well Development Period: 1 hrs.

Method of Development: submersible pump

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: Geoprobe 7822DT

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - .5: black/grey OT - Other asphalt/gravel

.5 - 12: red/brown/grey SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009

Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

PROPERTY OWNER: TOWNSHIP OF NORTH BRUNSWICK

Company/Organization: Township of North Brunswick

Address: 710 Herman Road North Brunswick, New Jersey 08902

WELL LOCATION: Washington Place ROW

Address: Washington Place

County: Middlesex Municipality: North Brunswick Twp Lot: ROW Block: ROW

Easting (X): 500283 Northing (Y): 586156
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: December 14, 2018

DATE WELL COMPLETED: December 14, 2018

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-20

WELL CONSTRUCTION

Total Depth Drilled (ft.): 19 Finished Well Depth (ft.): 19 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	19	8		
Casing	0	4	2	PVC	Sch 40
Screen	4	19	2	PVC	.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0	2	8	2	10		5
Gravel Pack	2	19	8	2	Morie #1		

Grouting Method: Gravity method

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 10 ft. below land surface

Water Level Measure Tool: Tape

Well Development Period: .5 hrs.

Method of Development: Submersible

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: Geoprobe 7822

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - .5: Black OT - Other Asphalt

.5 - 19: Brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Jeremy Wilkins,
MONITORING LICENSE # 763199

Company: ENVIRONMENTAL PROBING
INVESTIGATION

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130

Address: 555 Georges Road North Brunswick Twp, New Jersey 08810

WELL LOCATION: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500199 Northing (Y): 586359
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: May 30, 2024

DATE WELL COMPLETED: May 30, 2024

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-21D

WELL CONSTRUCTION

Total Depth Drilled (ft.): 25 Finished Well Depth (ft.): 25 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	25	8		
Casing	0.25	20	2	PVC	shed 40
Screen	20	25	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	18	8	2	0	585	35
Gravel Pack	18	25	8	2	#2 Morie Sand		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 12 ft. below land surface
Water Level Measure Tool: indicator probe
Well Development Period: 1 hrs.
Method of Development: submersible pump
Pump Type:

Pump Capacity: gpm
Total Design Head: ft.
Drilling Fluid:
Drill Rig: Geoprobe 7822DT
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - .5: black/grey OT - Other asphalt/gravel
.5 - 8: red/brown SM - Silty sands, sand-silt mixtures
8 - 17: red/brown SM - Silty sands, sand-silt mixtures with cobbles
17 - 25: red/brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009 Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130

Address: 555 Georges Road North Brunswick Twp, New Jersey 08810

WELL LOCATION: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500237 Northing (Y): 586377
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: June 14, 2024

DATE WELL COMPLETED: June 14, 2024

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-22

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	4.50		
Casing	0.25	5	1	PVC	sched 40
Screen	5	15	1	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	3	4.50	1	0	25	2
Gravel Pack	3	15	4.50	1	#2 Morie Sand		

Grouting Method: Gravity method

Drilling Method: Direct Push Probe

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 9 ft. below land surface

Water Level Measure Tool: indicator probe

Well Development Period: 1 hrs.

Method of Development: submersible pump

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: Geoprobe 6620

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - .5: grey OT - Other concrete/gravel

.5 - 15: red/brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION: Prepack Screen

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009

Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130

Address: 555 Georges Road North Brunswick Twp, New Jersey 08810

WELL LOCATION: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500265 Northing (Y): 586417
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: June 14, 2024

DATE WELL COMPLETED: June 14, 2024

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-23

WELL CONSTRUCTION

Total Depth Drilled (ft.): 15 Finished Well Depth (ft.): 15 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	15	4.50		
Casing	0.25	5	1	PVC	sched 40
Screen	5	15	1	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	3	4.50	1	0	25	2
Gravel Pack	3	15	4.50	1	#2 Morie Sand		

Grouting Method: Gravity method

Drilling Method: Direct Push Probe

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 8 ft. below land surface

Water Level Measure Tool: indicator probe

Well Development Period: 1 hrs.

Method of Development: submersible pump

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: Geoprobe 6620

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - .5: grey OT - Other concrete/gravel

.5 - 15: red/brown SM - Silty sands, sand-silt mixtures

ADDITIONAL INFORMATION: Prepacked screen

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009

Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130

Address: 555 Georges Road North Brunswick Twp, New Jersey 08810

WELL LOCATION: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500321 Northing (Y): 586407
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: May 30, 2024

DATE WELL COMPLETED: May 30, 2024

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-24D

WELL CONSTRUCTION

Total Depth Drilled (ft.): 25 Finished Well Depth (ft.): 25 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	25	8		
Casing	0.25	20	2	PVC	shed 40
Screen	20	25	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	18	8	2	0	585	35
Gravel Pack	18	25	8	2	#2 Morie Sand		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 12 ft. below land surface
Water Level Measure Tool: indicator probe
Well Development Period: 1 hrs.
Method of Development: submersible pump
Pump Type:

Pump Capacity: gpm
Total Design Head: ft.
Drilling Fluid:
Drill Rig: Geoprobe 7822DT
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - .5: black/grey OT - Other asphalt/gravel
.5 - 8: red/brown SM - Silty sands, sand-silt mixtures
8 - 17: red/brown SM - Silty sands, sand-silt mixtures with cobbles
17 - 25: red/brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009 Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130

Address: 555 Georges Road North Brunswick Twp, New Jersey 08810

WELL LOCATION: Gas Station

Address: 1696 Route 130

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500265 Northing (Y): 586348
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: May 28, 2024

DATE WELL COMPLETED: May 28, 2024

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-25

WELL CONSTRUCTION

Total Depth Drilled (ft.): 13 Finished Well Depth (ft.): 13 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	13	8		
Casing	0.25	3	2	PVC	sched 40
Screen	3	13	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	2	8	2	0	50	3
Gravel Pack	2	13	8	2	#2 Morie Sand		

Grouting Method: Gravity method Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
Static Water Level: 8 ft. below land surface
Water Level Measure Tool: indicator probe
Well Development Period: 1 hrs.
Method of Development: submersible pump
Pump Type: _____

Pump Capacity: _ gpm
Total Design Head: _ ft.
Drilling Fluid: _____
Drill Rig: Geoprobe 7822DT
Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - .5: black/grey OT - Other asphalt/gravel
.5 - 8: red/brown SM - Silty sands, sand-silt mixtures
8 - 13: red/brown SM - Silty sands, sand-silt mixtures with cobbles

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009 Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130 LLC

Address: 555 Georges Road Dayton, New Jersey 08810

WELL LOCATION: 1696 Route 130 LLC

Address: 1696 Georges Rd (aka Route 130)

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): 500265 Northing (Y): 586339
Coordinate System: NJ State Plane (NAD83) - USFEET

DATE WELL STARTED: June 11, 2025

DATE WELL COMPLETED: June 11, 2025

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-25D

WELL CONSTRUCTION

Total Depth Drilled (ft.): 25 Finished Well Depth (ft.): 25 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	25	8		
Casing	0.25	20	2	PVC	sched 40
Screen	20	25	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	19	8	2	4	585	35
Gravel Pack	19	25	8	2	#2 Morie Sand		

Grouting Method: Pressure method (Tremie Pipe)

Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No

Static Water Level: 16 ft. below land surface

Water Level Measure Tool: indicator probe

Well Development Period: 1 hrs.

Method of Development: submersible pump

Pump Type: _____

Pump Capacity: _ gpm

Total Design Head: _ ft.

Drilling Fluid: _____

Drill Rig: Geoprobe 7822DT

Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG

0 - .5: black/grey OT - Other asphalt/gravel

.5 - 25: red/brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009

Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

PROPERTY OWNER: 1696 ROUTE 130 LLC

Company/Organization: 1696 Route 130 LLC

Address: 555 Georges Road Dayton, New Jersey 08810

WELL LOCATION: 1696 Route 130 LLC

Address: 1696 Georges Rd (aka Route 130)

County: Middlesex Municipality: North Brunswick Twp Lot: 1 Block: 282

Easting (X): <u>500335</u> Northing (Y): <u>586424</u>
Coordinate System: <u>NJ State Plane (NAD83) - USFEET</u>

DATE WELL STARTED: June 11, 2025

DATE WELL COMPLETED: June 11, 2025

WELL USE: MONITORING

Other Use(s): _____

Local ID: MW-26D

WELL CONSTRUCTION

Total Depth Drilled (ft.): 25 Finished Well Depth (ft.): 25 Well Surface: Flush Mount

	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt/Rating/Screen # Used (lbs/ch no.)
Borehole	0	25	8		
Casing	0.25	20	2	PVC	sched 40
Screen	20	25	2	PVC	0.010

	Depth to Top (ft.)	Depth to Bottom (ft.)	Outer Diameter (in.)	Inner Diameter (in.)	Material		
					Bentonite (lbs.)	Neat Cement (lbs.)	Water (gal.)
Grout	0.50	19	8	2	4	585	35
Gravel Pack	19	25	8	2	#2 Morie Sand		

Grouting Method: Pressure method (Tremie Pipe) Drilling Method: Hollow Stem Augers

ADDITIONAL INFORMATION

Protective Casing: No
 Static Water Level: 16 ft. below land surface
 Water Level Measure Tool: indicator probe
 Well Development Period: 1 hrs.
 Method of Development: submersible pump
 Pump Type:

Pump Capacity: _ gpm
 Total Design Head: _ ft.
 Drilling Fluid:
 Drill Rig: Geoprobe 7822DT
 Health and Safety Plan Submitted? Yes

ATTACHMENTS:

GEOLOGIC LOG
0 - .5: grey OT - Other gravel
.5 - 25: red/brown SC - Clayey sands, sand-clay mixtures

ADDITIONAL INFORMATION:

Driller of Record: Matt Lawson, ENV RESOURCE GEOTEC LICENSE # 665009 Company: SUBSTRATA TECHNOLOGIES INC.

MONITORING WELL RECORD

OWNER IDENTIFICATION WALTER LAPP, SR.
Address 263 EDWARDS PLACE
City North Brunswick Twp State New Jersey

Zip Code 08902

WELL LOCATION - If not the same as owner please give address
County Middlesex Municipality North Brunswick Twp
Address 1696 GEORGES RD. (RT. 130)

Owner's Well No. RW-1
Lot No. 1 Block No. 282

WELL USE Recovery

DATE WELL STARTED
DATE WELL COMPLETED

WELL CONSTRUCTION

Total Depth Drilled 15 ft.
Finished Well Depth 15 ft.
Borehole Diameter:
Top 10 in.
Bottom 10 in.

Note: Measure all depths from land surface

Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
0	10	4	PVC	Sch 40
10	15	4	PVC	Sch 40
8	15			

Middle Casing (for triple cased wells only)

Outer Casing (largest diameter)

Well was finished: above grade
Vault - flush mounted
If finished above grade, casing height (stick up) above land surface ft.

Open Hole or Screen (No. Used .010)

Blank Casings (No. Used)

Steel protective casing installed?
 Yes No

Tail Piece
Gravel Pack
Grout

Morie #
Near Cement 346 lbs
Bentonite 18 lbs

Static Water Level after drilling 6.78 ft.

Water Level was Measured Using Tape

Well was developed for 1 hours at 1 gpm

Grouting Method Tremie
Drilling Method HSA

Method of development Submersible Pump

Pump Capacity gpm

Pump Type

Drilling Fluid Type of Rig Hand Dug

Health and Safety Plan Submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

GEOLOGIC LOG	
Note each depth where water was encountered in consolidated formations	
6'-11"	Gravel
1'-15"	Brown silty sand
Brian Kobot / FPI, did not drill this well.	
We are submitting the well record on Tri States behalf	

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company TRISTATE PROBING/DRILLING SERVICE INC

Well Driller (Print) Brian Kobot

Driller's Signature [Signature]

Registration No. JD 0017863

Date 2/14/2017

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)	
NJ STATE PLANE COORDINATE IN US SURVEY FEET	
NORTHING: 586384	EASTING: 500178
OR	
LATITUDE: " ' "	LONGITUDE: " ' "

Form As



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



New Jersey Department of Environmental Protection
Site Remediation Program

MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC

List all AKAs: North Brunswick Gulf

Street Address: 1696 Georges Rd Route 130

Municipality: North Brunswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Mr. Walter Lapp

2. Well Location (Street Address) 1696 Georges Road North Brunswick, NJ 08902

3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... 28 49752

2. Site Well Number as shown on application or plans): MW 3

3. Well Completion Date: 02/22/2002

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.74

5. Total Depth of Well to the nearest ½ foot: 15'

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 5'

7. Screen Length (or length of open hole) in feet: 15'

8. Screen or Slot Size: 0.02

9. Screen or Slot Material: PVC

10. Casing Material (PVC, steel, or other – specify): PVC

11. Casing Diameter (inches): 4 inch

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): 9.65'

13. Yield (gallons per minute): <0.5

14. Development Techinque (specify): pumping

15. Length of Time well is developed/pumped or bailed (hours and minutes): 30 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest ½ foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC
List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC
Street Address: 1696 Georges Rd Route 130
Municipality: North Brunswick (Township, Borough or City)
County: Middlesex Zip Code: 08902
Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Mr. Thomas Csepec
2. Well Location (Street Address) 359 Washington Place North Brunswick, NJ 08902
3. Well Location (Municipal Block and Lot) Block# 282 Lot # 2

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... P200910654
2. Site Well Number as shown on application or plans): MW 11
3. Well Completion Date: 9/22/09
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.10
5. Total Depth of Well to the nearest 1/2 foot: 20'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 4.10
7. Screen Length (or length of open hole) in feet: 15'
8. Screen or Slot Size: 0.010
9. Screen or Slot Material: pvc
10. Casing Material (PVC, steel, or other – specify): pvc
11. Casing Diameter (inches): 4"
12. Static Water Level from top of casing at the time of installation (nearest 0.01'): dry next day 9.05'
13. Yield (gallons per minute): <0.5
14. Development Technique (specify): submersible pump
15. Length of Time well is developed/pumped or bailed (hours and minutes): 30 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC
 List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC
 Street Address: 1696 Georges Rd Route 130
 Municipality: North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Mr. Thomas Csepes
 2. Well Location (Street Address) 359 Washington Place North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 5

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... P200910653
 2. Site Well Number as shown on application or plans): MW 12
 3. Well Completion Date: 9/22/09
 4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.12
 5. Total Depth of Well to the nearest 1/2 foot: 19.02'
 6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 4.09
 7. Screen Length (or length of open hole) in feet: 15'
 8. Screen or Slot Size: 0.010
 9. Screen or Slot Material: pvc
 10. Casing Material (PVC, steel, or other – specify): pvc
 11. Casing Diameter (inches): 4"
 12. Static Water Level from top of casing at the time of installation (nearest 0.01'): dry next day 3.98'
 13. Yield (gallons per minute): <0.5
 14. Development Technique (specify): submersible pump
 15. Length of Time well is developed/pumped or bailed (hours and minutes): 30 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC
List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC
Street Address: 1696 Georges Rd Route 130
Municipality: North Brunswick (Township, Borough or City)
County: Middlesex Zip Code: 08902
Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Denise Luzack
2. Well Location (Street Address) 368 Washington Place North Brunswick, NJ 08902
3. Well Location (Municipal Block and Lot) Block# 283 Lot # 2

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... P200910655
2. Site Well Number as shown on application or plans): MW 13
3. Well Completion Date: 9/22/09
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.34
5. Total Depth of Well to the nearest 1/2 foot: 19.05'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 4.05
7. Screen Length (or length of open hole) in feet: 15'
8. Screen or Slot Size: 0.010
9. Screen or Slot Material: pvc
10. Casing Material (PVC, steel, or other – specify): pvc
11. Casing Diameter (inches): 4"
12. Static Water Level from top of casing at the time of installation (nearest 0.01'): dry next day 6.27'
13. Yield (gallons per minute): <0.5
14. Development Technique (specify): submersible pump
15. Length of Time well is developed/pumped or bailed (hours and minutes): 30 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC
List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC
Street Address: 1696 Georges Rd Route 130
Municipality: North Brunswick (Township, Borough or City)
County: Middlesex Zip Code: 08902
Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Krauszer Family, LLC
2. Well Location (Street Address) 1674 Georges Rd Rt 130 North Brunswick, NJ
3. Well Location (Municipal Block and Lot) Block# 278 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... P200910659
2. Site Well Number as shown on application or plans): MW 14
3. Well Completion Date: 9/24/09
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.13
5. Total Depth of Well to the nearest 1/2 foot: 18.59'
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 3.59
7. Screen Length (or length of open hole) in feet: 15'
8. Screen or Slot Size: 0.010
9. Screen or Slot Material: pvc
10. Casing Material (PVC, steel, or other – specify): pvc
11. Casing Diameter (inches): 4"
12. Static Water Level from top of casing at the time of installation (nearest 0.01'): dry
13. Yield (gallons per minute): <0.5
14. Development Technique (specify): none
15. Length of Time well is developed/pumped or bailed (hours and minutes): 0 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC

List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC

Street Address: 1696 Georges Rd Route 130

Municipality: North Brunswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Rt 130 LLC

2. Well Location (Street Address) 1696 Georges Rd North Brunswick, NJ

3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

- 1. Well Permit Number (This number must be permanently affixed to the well casing):... P200910660
- 2. Site Well Number as shown on application or plans): MW 15
- 3. Well Completion Date: 9/24/09
- 4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.11
- 5. Total Depth of Well to the nearest 1/2 foot: 17.53'
- 6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 2.53
- 7. Screen Length (or length of open hole) in feet: 15'
- 8. Screen or Slot Size: 0.010
- 9. Screen or Slot Material: pvc
- 10. Casing Material (PVC, steel, or other – specify): pvc
- 11. Casing Diameter (inches): 4"
- 12. Static Water Level from top of casing at the time of installation (nearest 0.01'): 7.92
- 13. Yield (gallons per minute): ~0.5
- 14. Development Technique (specify): submersible
- 15. Length of Time well is developed/pumped or bailed (hours and minutes): 30 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest ½ foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Route 130 LLC

List all AKAs: North Brunswick Gulf, Lawrence Fuel LLC

Street Address: 1696 Georges Rd Route 130

Municipality: North Brunswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Rt 130 LLC

2. Well Location (Street Address) 1696 Georges Rd North Brunswick, NJ

3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... P200910661

2. Site Well Number as shown on application or plans): MW 16

3. Well Completion Date: 9/24/09

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.39

5. Total Depth of Well to the nearest 1/2 foot: 18.68'

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 3.68'

7. Screen Length (or length of open hole) in feet: 15'

8. Screen or Slot Size: 0.010

9. Screen or Slot Material: pvc

10. Casing Material (PVC, steel, or other – specify): pvc

11. Casing Diameter (inches): 4"

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): 18.25

13. Yield (gallons per minute): 0 not enough water to develop

14. Development Technique (specify): none

15. Length of Time well is developed/pumped or bailed (hours and minutes): 0 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Lawrence Fuel LLC
List all AKAs: 1696 Route 130 LLC AKA North Brunswick Gulf
Street Address: 1696 Georges Rd Rt 130
Municipality: North Bruswick (Township, Borough or City)
County: Middlesex Zip Code: 08902
Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 RT 130 LLC
2. Well Location (Street Address) south bound lane of RT 130 by MP 81.5
3. Well Location (Municipal Block and Lot) Block# none Lot # none

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... E201804577
2. Site Well Number as shown on application or plans): MW 17
3. Well Completion Date: 05/25/2018
4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.41
5. Total Depth of Well to the nearest 1/2 foot: 13.2 from top of casing
6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 3.2'
7. Screen Length (or length of open hole) in feet: 10'
8. Screen or Slot Size: 0.010
9. Screen or Slot Material: PVC
10. Casing Material (PVC, steel, or other – specify): PVC
11. Casing Diameter (inches): 2-inch
12. Static Water Level from top of casing at the time of installation (nearest 0.01'): 2.72'
13. Yield (gallons per minute): 0.5
14. Development Technique (specify): submersible pump
15. Length of Time well is developed/pumped or bailed (hours and minutes): 15 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Lawrence Fuel, LLC
 List all AKAs: 1696 Rt 130 LLC AKA: North Brunswick Gulf
 Street Address: 1696 Georges Rd RT 130
 Municipality: North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Rt 130 LLC
 2. Well Location (Street Address) north bound lane of Washington Place
 3. Well Location (Municipal Block and Lot) Block# none Lot # none

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... E201804578
 2. Site Well Number as shown on application or plans): MW 18
 3. Well Completion Date: 09/13/20118
 4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.54'
 5. Total Depth of Well to the nearest 1/2 foot: 20.08'
 6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 5.08 from top of casing
 7. Screen Length (or length of open hole) in feet: 15'
 8. Screen or Slot Size: 0.010
 9. Screen or Slot Material: PVC
 10. Casing Material (PVC, steel, or other – specify): PVC
 11. Casing Diameter (inches): 2-inch
 12. Static Water Level from top of casing at the time of installation (nearest 0.01'): 7.46'
 13. Yield (gallons per minute): <0.30
 14. Development Technique (specify): submersible pump
 15. Length of Time well is developed/pumped or bailed (hours and minutes): 34 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Laawrence Fuel LLC
 List all AKAs: 1696 Rt 130 LLC AKA: North Brunswick Gulf
 Street Address: 1696 Georges Rd RT 130
 Municipality: North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Rt 130 LLC
 2. Well Location (Street Address) 1696 Georges Rd RT 130
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):... E201804573
 2. Site Well Number as shown on application or plans): MW 19
 3. Well Completion Date: 05/25/2018
 4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): -0.42
 5. Total Depth of Well to the nearest 1/2 foot: 20.4 from top of casing
 6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... 5.4
 7. Screen Length (or length of open hole) in feet: 15'
 8. Screen or Slot Size: 0.010
 9. Screen or Slot Material: PVC
 10. Casing Material (PVC, steel, or other – specify): PVC
 11. Casing Diameter (inches): 2-inch
 12. Static Water Level from top of casing at the time of installation (nearest 0.01'): 3.40
 13. Yield (gallons per minute): < 0.25
 14. Development Technique (specify): submersible pump
 15. Length of Time well is developed/pumped or bailed (hours and minutes): 60 minutes



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest ½ foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 1696 Rt 130 LLC

List all AKAs: North Brunswick Gulf

Street Address: 1696 Georges Rd

Municipality: North Brunswick (Township, Borough or City)

County: Middlesex Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner Walter Lapp & RuthFrey

2. Well Location (Street Address) north bound lane of Washington Place

3. Well Location (Municipal Block and Lot) Block# none Lot # none

SECTION C. WELL LOCATION SPECIFICS

- 1. Well Permit Number (This number must be permanently affixed to the well casing):... E201812604
- 2. Site Well Number as shown on application or plans): MW-20
- 3. Well Completion Date: 12/14/2018
- 4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): 0.60
- 5. Total Depth of Well to the nearest 1/2 foot: 19.0
- 6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'): 4.0
- 7. Screen Length (or length of open hole) in feet: 15
- 8. Screen or Slot Size: 0.010
- 9. Screen or Slot Material: pvc
- 10. Casing Material (PVC, steel, or other – specify): pvc
- 11. Casing Diameter (inches): 2-inch
- 12. Static Water Level from top of casing at the time of installation (nearest 0.01'): 18.5' 2 hrs after installation
- 13. Yield (gallons per minute): very slow
- 14. Development Technique (specify): none not enough water
- 15. Length of Time well is developed/pumped or bailed (hours and minutes): 0



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest ½ foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



New Jersey Department of Environmental Protection
 Site Remediation Program

**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
 CERTIFICATION**

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____
 List all AKAs: _____
 Street Address: _____
 Municipality: _____ (Township, Borough or City)
 County: _____ Zip Code: _____
 Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____
 2. Well Location (Street Address) _____
 3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____
 2. Site Well Number as shown on application or plans): _____
 3. Well Completion Date: _____
 4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____
 5. Total Depth of Well to the nearest ½ foot: _____
 6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____
 7. Screen Length (or length of open hole) in feet: _____
 8. Screen or Slot Size: _____
 9. Screen or Slot Material: _____
 10. Casing Material (PVC, steel, or other – specify): _____
 11. Casing Diameter (inches): _____
 12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____
 13. Yield (gallons per minute): _____
 14. Development Technique (specify): _____
 15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



New Jersey Department of Environmental Protection
 Site Remediation Program

**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
 CERTIFICATION**

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____
 List all AKAs: _____
 Street Address: _____
 Municipality: _____ (Township, Borough or City)
 County: _____ Zip Code: _____
 Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____
 2. Well Location (Street Address) _____
 3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____
 2. Site Well Number as shown on application or plans): _____
 3. Well Completion Date: _____
 4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____
 5. Total Depth of Well to the nearest 1/2 foot: _____
 6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____
 7. Screen Length (or length of open hole) in feet: _____
 8. Screen or Slot Size: _____
 9. Screen or Slot Material: _____
 10. Casing Material (PVC, steel, or other – specify): _____
 11. Casing Diameter (inches): _____
 12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____
 13. Yield (gallons per minute): _____
 14. Development Technique (specify): _____
 15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____



**MONITORING WELL CERTIFICATION FORM A - AS-BUILT
CERTIFICATION**

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: _____

List all AKAs: _____

Street Address: _____

Municipality: _____ (Township, Borough or City)

County: _____ Zip Code: _____

Program Interest (PI) Number(s): _____ Case Tracking Number(s): _____

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner _____

2. Well Location (Street Address) _____

3. Well Location (Municipal Block and Lot) Block# _____ Lot # _____

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing):.. _____

2. Site Well Number as shown on application or plans): _____

3. Well Completion Date: _____

4. Distance from Top of Casing (cap off) to ground surface (nearest 0.01'): _____

5. Total Depth of Well to the nearest 1/2 foot: _____

6. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):..... _____

7. Screen Length (or length of open hole) in feet: _____

8. Screen or Slot Size: _____

9. Screen or Slot Material: _____

10. Casing Material (PVC, steel, or other – specify): _____

11. Casing Diameter (inches): _____

12. Static Water Level from top of casing at the time of installation (nearest 0.01'): _____

13. Yield (gallons per minute): _____

14. Development Technique (specify): _____

15. Length of Time well is developed/pumped or bailed (hours and minutes): _____

Form Bs

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-49750
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-1

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586436 East 500215

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 109.95

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

March 17, 2008
DATE

William T. Ftzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER



New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: NOOR Petroleum Service Station
 List all AKAs: Lawrence Fuel LLC, Jersey Oil, North Brunswick Gulf
 Street Address: 1696 Georges Road (AKA U.S. Route 130)
 Municipality: Township of North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

17-09-01-1155-48

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Route 130, LLC
 2. Well Location (Street Address) U.S. Route 130, North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202312588
 2. Site Well Number (As shown on application or plans): MW-1D
 3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
 Latitude: North 40°26'36.28" Longitude: West 74°28'15.39"
 4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
 North 586435 East 500213
 5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 110.12'
 Elevation Top of Outer casing: 110.36' Elevation of ground: 110.3'
 Check one: NAVD 88 NVGD29 On Site Datum Other
 6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
B.M. MW-1 inner casing - Elev. = 109.95' (From Form B by others). Elevation 1.21' higher than NAVD 88
 7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: *Gerald G. DeGroat* Date 1/12/2024
 Surveyor's Name: Gerald G. DeGroat License Number: 26791
 Firm Name: Gerald G. DeGroat, L.S. Certificate of Authorization #: _____
 Mailing Address 90 Wherli Road
 City/Town: Long Valley State NJ Zip Code: 07853
 Phone Number (908) 852-5039 Ext.: _____ Fax: (908) 850-5039

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-49751
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-2

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586399 East 5001139

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 109.25

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

March 17, 2008
DATE

William T. Etzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER



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

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: NOOR Petroleum Service Station
 List all AKAs: Lawrence Fuel LLC, Jersey Oil, North Brunswick Gulf
 Street Address: 1696 Georges Road (AKA U.S. Route 130)
 Municipality: Township of North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

17-09-01-1155-48

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Route 130, LLC
 2. Well Location (Street Address) U.S. Route 130, North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202405532
 2. Site Well Number (As shown on application or plans): MW-2D
 3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
 Latitude: North 40°26'35.87" Longitude: West 74°28'16.46"
 4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
 North 586394 East 500129
 5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.15'
 Elevation Top of Outer casing: 109.49' Elevation of ground: 109.5'
 Check one: NAVD 88 NVGD29 On Site Datum Other
 6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
B.M. MW-1 inner casing - Elev. = 109.95' (From Form B by others). Elevation 1.21' higher than NAVD 88
 7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: *Gerald G. DeGroat* Date 7/31/2024
 Surveyor's Name: Gerald G. DeGroat License Number: 26791
 Firm Name: Gerald G. DeGroat, L.S. Certificate of Authorization #: _____
 Mailing Address 90 Wherli Road
 City/Town: Long Valley State NJ Zip Code: 07853
 Phone Number (908) 852-5039 Ext.: _____ Fax: (908) 850-5039

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-49752
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-3

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586331 East 500129

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 105.65

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

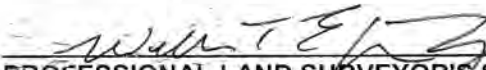
ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

AUTHENTICATION

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SEAL


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

March 17, 2008
DATE

William T. Etzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, N.J 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-49753
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-4

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586323 East 500156

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 107.42

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)


ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

AUTHENTICATION

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55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Golf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-054462
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-5

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586479 East 500256

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 110.27

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

AUTHENTICATION

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55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER



New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: NOOR Petroleum Service Station
 List all AKAs: Lawrence Fuel LLC, Jersey Oil, North Brunswick Gulf
 Street Address: 1696 Georges Road (AKA U.S. Route 130)
 Municipality: Township of North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

17-09-01-1155-48

1. Name of Well Owner 1696 Route 130, LLC
 2. Well Location (Street Address) U.S. Route 130, North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202405533
 2. Site Well Number (As shown on application or plans): MW-5D
 3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
 Latitude: North 40°26'36.77" Longitude: West 74°28'14.74"
 4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
 North 586485 East 500263
 5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 110.24'
 Elevation Top of Outer casing: 110.58' Elevation of ground: 110.6'
 Check one: NAVD 88 NVGD29 On Site Datum Other
 6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
B.M. MW-1 inner casing - Elev. = 109.95' (From Form B by others). Elevation 1.21' higher than NAVD 88
 7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

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SEAL

Professional Land Surveyor's Signature: *Gerald G. DeGroat* Date 7/31/2024
 Surveyor's Name: Gerald G. DeGroat License Number: 26791
 Firm Name: Gerald G. DeGroat, L.S. Certificate of Authorization #: _____
 Mailing Address 90 Wherli Road
 City/Town: Long Valley State NJ Zip Code: 07853
 Phone Number (908) 852-5039 Ext.: _____ Fax: (908) 850-5039

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-054461
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-6

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586460 East 500192

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 110.02

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

AUTHENTICATION

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March 17, 2008
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(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-054460
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-7

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586363 East 500232

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 109.83

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

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55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-054457
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-8

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586320 East 500222

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 107.70

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

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55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-054459
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-9

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586306 East 500157

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 105.81

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)


ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

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(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: 28-054458
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-10

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586277 East 500192

Elevation of Top of Inner Casing (cap off) at
reference mark (nearest 0.01'): 106.02

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

AUTHENTICATION

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(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Thomas Csepes

Name of Facility: Residence next to North Brunswick Gulf Station

Location: 359 Washington Place North Brunswick, NJ.

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: P200910654
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW 11

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586362 East 500337

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 106.24

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)


Elevations based on N.G.V.D. 1929 per N.G.S. monument found designated "3128"

Significant observations and notes: _____

AUTHENTICATION

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SEAL


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

December 8, 2009
DATE

William T. Etzkorn, Jr. P.L.S. NJ Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive, Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Thomas Csepes

Name of Facility: Residence next to North Brunswick Gulf

Location: 359 Washington Place North Brunswick, NJ.

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: P200910653
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW 12

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586271 East 500249

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 106.33

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Elevations based on N.G.V.D. 1929 per N.G.S. monument found designated "3128"

Significant observations and notes: _____

AUTHENTICATION

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55 Carter Drive, Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Denice Luzak

Name of Facility: Redisnce by North Brunswick Gulf

Location: 368 Washington Place North Brunswick, NJ.

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: P200910655
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW 13

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586251 East 500129

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 105.79

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Elevation based on N.G.V.D. 1929 per N.G.S. monument found designated "3128"

Significant observations and notes: _____

AUTHENTICATION

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55 Carter Drive, Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Jacob Krauser

Name of Facility: Strip Mall next to North Brunswick Gulf

Location: 1674 Georges Road North Brunswick, New Jersey

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: P200910659
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW 14

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586430 East 500372

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 106.47

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Elevations based on N.G.V.D. 1929 per N.G.S. monument found designated "3128"

Significant observations and notes: _____

AUTHENTICATION

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PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive, Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: P200910660
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW 15

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586509 East 500293

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.49

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

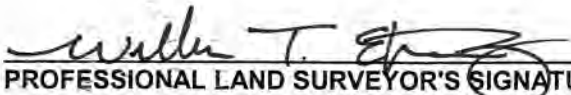
Elevation based on N.G.V.D. 1929 per N.G.S. monument found designated "3128"

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

December 8, 2009
DATE

William T. Etzkorn, Jr. P.L.S. NJ Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive, Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number: P200910661
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW 16

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586377 East 500098

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 108.72

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Elevations based on N.G.V.D. 1929 per N.G.S. monument found designated "3128"

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

William T. Etzkorn, Jr.
PROFESSIONAL LAND SURVEYOR'S SIGNATURE

December 8, 2009
DATE

William T. Etzkorn, Jr. P.L.S. NJ Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive, Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER



New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 5560-NORTH BRUNSWICK GULF SERVICE STATION

List all AKAs: LAWRENCE FUEL LLC

Street Address: 1696 GEORGES ROAD (AKA ROUTE 130)

Municipality: NORTH BRUNSWICK TOWNSHIP (Township, Borough or City)

County: MIDDLESEX Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): SEE NOTES

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner NEW JERSEY DEPARTMENT OF TRANSPORTATION

2. Well Location (Street Address) GEORGES ROAD (AKA ROUTE 130)

3. Well Location (Municipal Block and Lot) Block# ROW Lot # ROW

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201804577

2. Site Well Number (As shown on application or plans): MW-17

3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:

Latitude: North 40 ° 26 ' 37.254 " Longitude: West 74 ° 28 ' 16.764 "

4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:

North 586533.65 East 500106.13

5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.79

Elevation Top of Outer casing: 110.19 Elevation of ground: 110.20

Check one: NAVD 88 NGVD 29 On Site Datum Other

6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).

HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'

ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY

7. Significant observations and notes:

PERMIT NUMBER FROM DATA MINER SEARCH

CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. 2294LIST

Professional Land Surveyor's Signature: _____ Date 10/25/18

Surveyor's Name: JAMES M. STEWART License Number: 24GS02610800

Firm Name: DENNIS W. SKLAR, INC. Certificate of Authorization #: 24GA28150900

Mailing Address 3020 GLENN AVENUE

City/Town: BENSALEM State PENNSYLVANIA Zip Code: 19020

Phone Number (215) 268-7988 Ext.: N/A Fax: (215) 268-7966



New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: **5560-NORTH BRUNSWICK GULF SERVICE STATION**

List all AKAs: **LAWRENCE FUEL LLC**

Street Address: **1696 GEORGES ROAD (AKA ROUTE 130)**

Municipality: **NORTH BRUNSWICK TOWNSHIP** (Township, Borough or City)

County: **MIDDLESEX** Zip Code: **08902**

Program Interest (PI) Number(s): **010180** Case Tracking Number(s): **SEE NOTES**

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner **TOWNSHIP OF NORTH BRUNSWICK**

2. Well Location (Street Address) **WASHINGTON PLACE**

3. Well Location (Municipal Block and Lot) Block# **ROW** Lot # **ROW**

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): **E201804578**

2. Site Well Number (As shown on application or plans): **MW-18**

3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:

Latitude: North **40 ° 26 ' 34.011 "** Longitude: West **74 ° 28 ' 15.071 "**

4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:

North **586205.46** East **500237.12**

5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): **102.13**

Elevation Top of Outer casing: **102.70** Elevation of ground: **102.67**

Check one: NAVD 88 NGVD 29 On Site Datum Other

6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).

HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'

ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY

7. Significant observations and notes:

PERMIT NUMBER FROM DATA MINER SEARCH

CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. 2294LIST

Professional Land Surveyor's Signature: _____ Date **10/25/18**

Surveyor's Name: **JAMES M. STEWART** License Number: **24GS02610800**

Firm Name: **DENNIS W. SKLAR, INC.** Certificate of Authorization #: **24GA28150900**

Mailing Address **3020 GLENN AVENUE**

City/Town: **BENSALEM** State **PENNSYLVANIA** Zip Code: **19020**

Phone Number **(215) 268-7988** Ext.: **N/A** Fax: **(215) 268-7966**



New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 5560-NORTH BRUNSWICK GULF SERVICE STATION

List all AKAs: LAWRENCE FUEL LLC

Street Address: 1696 GEORGES ROAD (AKA ROUTE 130)

Municipality: NORTH BRUNSWICK TOWNSHIP (Township, Borough or City)

County: MIDDLESEX Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): SEE NOTES

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 ROUTE 130, LLC

2. Well Location (Street Address) 1696 GEORGES ROAD (AKA ROUTE 130)

3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201804573

2. Site Well Number (As shown on application or plans): MW-19

3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:

Latitude: North 40 ° 26 ' 35.915 " Longitude: West 74 ° 28 ' 14.340 "

4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:

North 586398.21 East 500293.54

5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.72

Elevation Top of Outer casing: 110.20 Elevation of ground: 110.14

Check one: NAVD 88 NGVD 29 On Site Datum Other

6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).

HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'

ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY

7. Significant observations and notes:

PERMIT NUMBER FROM DATA MINER SEARCH

CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROJECT NO. 2294LIST

Professional Land Surveyor's Signature: _____ Date 10/25/18

Surveyor's Name: JAMES M. STEWART License Number: 24GS02610800

Firm Name: DENNIS W. SKLAR, INC. Certificate of Authorization #: 24GA28150900

Mailing Address 3020 GLENN AVENUE

City/Town: BENSALEM State PENNSYLVANIA Zip Code: 19020

Phone Number (215) 268-7988 Ext.: N/A Fax: (215) 268-7966



New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: NOOR Petroleum Service Station
 List all AKAs: Lawrence Fuel LLC, Jersey Oil, North Brunswick Gulf
 Street Address: 1696 Georges Road (AKA U.S. Route 130)
 Municipality: Township of North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

17-09-01-1155-48

1. Name of Well Owner 1696 Route 130, LLC
 2. Well Location (Street Address) U.S. Route 130, North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202312590
 2. Site Well Number (As shown on application or plans): MW-19D
 3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
 Latitude: North 40°26'35.96" Longitude: West 74°28'14.25"
 4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
 North 586402 East 500301
 5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.34'
 Elevation Top of Outer casing: 109.57' Elevation of ground: 109.6'
 Check one: NAVD 88 NVGD29 On Site Datum Other
 6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
B.M. MW-1 inner casing - Elev. = 109.95' (From Form B by others). Elevation 1.21' higher than NAVD 88
 7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: *Gerald G. DeGroat* Date 1/12/2024
 Surveyor's Name: Gerald G. DeGroat License Number: 26791
 Firm Name: Gerald G. DeGroat, L.S. Certificate of Authorization #: _____
 Mailing Address 90 Wherli Road
 City/Town: Long Valley State NJ Zip Code: 07853
 Phone Number (908) 852-5039 Ext.: _____ Fax: (908) 850-5039



New Jersey Department of Environmental Protection
 Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: NOOR Petroleum Service Station
 List all AKAs: Lawrence Fuel LLC, Jersey Oil, North Brunswick Gulf
 Street Address: 1696 Georges Road (AKA U.S. Route 130)
 Municipality: Township of North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

17-09-01-1155-48

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner 1696 Route 130, LLC
 2. Well Location (Street Address) U.S. Route 130, North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202405534
 2. Site Well Number (As shown on application or plans): MW-19DD
 3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
 Latitude: North 40°26'35.94" Longitude: West 74°28'14.23"
 4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
 North 586400 East 500302
 5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.24'
 Elevation Top of Outer casing: 109.46' Elevation of ground: 109.4'
 Check one: NAVD 88 NVGD29 On Site Datum Other
 6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
B.M. MW-1 inner casing - Elev. = 109.95' (From Form B by others). Elevation 1.21' higher than NAVD 88
 7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: *Gerald G. DeGroat* Date 7/31/2024
 Surveyor's Name: Gerald G. DeGroat License Number: 26791
 Firm Name: Gerald G. DeGroat, L.S. Certificate of Authorization #: _____
 Mailing Address 90 Wherli Road
 City/Town: Long Valley State NJ Zip Code: 07853
 Phone Number (908) 852-5039 Ext.: _____ Fax: (908) 850-5039



New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: NOOR Petroleum Service Station
 List all AKAs: Lawrence Fuel LLC, Jersey Oil, North Brunswick Gulf
 Street Address: 1696 Georges Road (AKA U.S. Route 130)
 Municipality: Township of North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

17-09-01-1155-48

1. Name of Well Owner 1696 Route 130, LLC
 2. Well Location (Street Address) U.S. Route 130, North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202312589
 2. Site Well Number (As shown on application or plans): MW-19R
 3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
 Latitude: North 40°26'35.93" Longitude: West 74°28'14.27"
 4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
 North 586400 East 500299
 5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.18'
 Elevation Top of Outer casing: 109.47' Elevation of ground: 109.5'
 Check one: NAVD 88 NVGD29 On Site Datum Other
 6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
B.M. MW-1 inner casing - Elev. = 109.95' (From Form B by others). Elevation 1.21' higher than NAVD 88
 7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

Professional Land Surveyor's Signature: *Gerald G. DeGroat* Date 1/12/2024
 Surveyor's Name: Gerald G. DeGroat License Number: 26791
 Firm Name: Gerald G. DeGroat, L.S. Certificate of Authorization #: _____
 Mailing Address 90 Wherli Road
 City/Town: Long Valley State NJ Zip Code: 07853
 Phone Number (908) 852-5039 Ext.: _____ Fax: (908) 850-5039



New Jersey Department of Environmental Protection
 Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: 5560-NORTH BRUNSWICK GULF SERVICE STATION

List all AKAs: LAWRENCE FUEL LLC

Street Address: 1696 GEORGES ROAD (AKA ROUTE 130)

Municipality: NORTH BRUNSWICK TOWNSHIP (Township, Borough or City)

County: MIDDLESEX Zip Code: 08902

Program Interest (PI) Number(s): 010180 Case Tracking Number(s): SEE NOTES

SECTION B. WELL OWNER AND LOCATION

1. Name of Well Owner TOWNSHIP OF NORTH BRUNSWICK

2. Well Location (Street Address) WASHINGTON PLACE

3. Well Location (Municipal Block and Lot) Block# ROW Lot # ROW

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E201812604

2. Site Well Number (As shown on application or plans): MW-20

3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:

Latitude: North 40 ° 26 ' 33.662 " Longitude: West 74 ° 28 ' 14.608 "

4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:

North 586170.20 East 500272.93

5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 101.03

Elevation Top of Outer casing: 101.67 Elevation of ground: 101.63

Check one: NAVD 88 NGVD 29 On Site Datum Other

6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).

HORIZONTAL: CORS "NJDY" (EPOCH 2010.00) / VERTICAL: PVC CASING OF MW-1 FROM FORM B= 109.95'

ON-SITE DATUM ELEVATIONS REPORT 1.196' HIGHER THAN NAVD 88 DATUM ELEVATIONS REFERENCING CORS NJDY

7. Significant observations and notes:

PERMIT NUMBER FROM DATA MINER SEARCH

CASE NUMBERS: 01-08-30-1546-07 & 17-09-01-1155-48

SECTION D. LAND SURVEYOR'S CERTIFICATION

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SEAL

PROJECT NO. 2294LIST

Professional Land Surveyor's Signature: _____ Date 12/18/18

Surveyor's Name: JAMES M. STEWART License Number: 24GS02610800

Firm Name: DENNIS W. SKLAR, INC. Certificate of Authorization #: 24GA28150900

Mailing Address 3020 GLENN AVENUE

City/Town: BENSALEM State PENNSYLVANIA Zip Code: 19020

Phone Number (215) 268-7988 Ext.: N/A Fax: (215) 268-7966



New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: NOOR Petroleum Service Station
 List all AKAs: Lawrence Fuel LLC, Jersey Oil, North Brunswick Gulf
 Street Address: 1696 Georges Road (AKA U.S. Route 130)
 Municipality: Township of North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

17-09-01-1155-48

1. Name of Well Owner 1696 Route 130, LLC
 2. Well Location (Street Address) U.S. Route 130, North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202405535
 2. Site Well Number (As shown on application or plans): MW-21D
 3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
 Latitude: North 40°26'35.53" Longitude: West 74°28'15.43"
 4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
 North 586359 East 500209
 5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.41'
 Elevation Top of Outer casing: 109.70' Elevation of ground: 109.7'
 Check one: NAVD 88 NVGD29 On Site Datum Other
 6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
B.M. MW-1 inner casing - Elev. = 109.95' (From Form B by others). Elevation 1.21' higher than NAVD 88
 7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

SEAL

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Professional Land Surveyor's Signature: *Gerald G. DeGroat* Date 7/31/2024
 Surveyor's Name: Gerald G. DeGroat License Number: 26791
 Firm Name: Gerald G. DeGroat, L.S. Certificate of Authorization #: _____
 Mailing Address 90 Wherli Road
 City/Town: Long Valley State NJ Zip Code: 07853
 Phone Number (908) 852-5039 Ext.: _____ Fax: (908) 850-5039



New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: NOOR Petroleum Service Station
 List all AKAs: Lawrence Fuel LLC, Jersey Oil, North Brunswick Gulf
 Street Address: 1696 Georges Road (AKA U.S. Route 130)
 Municipality: Township of North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

17-09-01-1155-48

1. Name of Well Owner 1696 Route 130, LLC
 2. Well Location (Street Address) U.S. Route 130, North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): _____
 2. Site Well Number (As shown on application or plans): MW-21S
 3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
 Latitude: North 40°26'35.47" Longitude: West 74°28'15.38"
 4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
 North 586353 East 500213
 5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.35'
 Elevation Top of Outer casing: 109.72' Elevation of ground: 109.7'
 Check one: NAVD 88 NVGD29 On Site Datum Other
 6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
B.M. MW-1 inner casing - Elev. = 109.95' (From Form B by others). Elevation 1.21' higher than NAVD 88
 7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

SEAL

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Professional Land Surveyor's Signature: *Gerald G. DeGroat* Date 7/31/2024
 Surveyor's Name: Gerald G. DeGroat License Number: 26791
 Firm Name: Gerald G. DeGroat, L.S. Certificate of Authorization #: _____
 Mailing Address 90 Wherli Road
 City/Town: Long Valley State NJ Zip Code: 07853
 Phone Number (908) 852-5039 Ext.: _____ Fax: (908) 850-5039



New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: NOOR Petroleum Service Station
 List all AKAs: Lawrence Fuel LLC, Jersey Oil, North Brunswick Gulf
 Street Address: 1696 Georges Road (AKA U.S. Route 130)
 Municipality: Township of North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

17-09-01-1155-48

1. Name of Well Owner 1696 Route 130, LLC
 2. Well Location (Street Address) U.S. Route 130, North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202405536
 2. Site Well Number (As shown on application or plans): MW-22
 3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
 Latitude: North 40°26'35.79" Longitude: West 74°28'15.06"
 4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
 North 586385 East 500238
 5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 110.67'
 Elevation Top of Outer casing: 110.96' Elevation of ground: 110.9'
 Check one: NAVD 88 NVGD29 On Site Datum Other
 6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
B.M. MW-1 inner casing - Elev. = 109.95' (From Form B by others). Elevation 1.21' higher than NAVD 88
 7. Significant observations and notes:

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SEAL

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Monitoring Well Certification Form B - Location Certification

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: NOOR Petroleum Service Station
 List all AKAs: Lawrence Fuel LLC, Jersey Oil, North Brunswick Gulf
 Street Address: 1696 Georges Road (AKA U.S. Route 130)
 Municipality: Township of North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

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17-09-01-1155-48

1. Name of Well Owner 1696 Route 130, LLC
 2. Well Location (Street Address) U.S. Route 130, North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202405537
 2. Site Well Number (As shown on application or plans): MW-23
 3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
 Latitude: North 40°26'36.10" Longitude: West 74°28'14.80"
 4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
 North 586417 East 500258
 5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 111.09'
 Elevation Top of Outer casing: 111.35' Elevation of ground: 111.3'
 Check one: NAVD 88 NVGD29 On Site Datum Other
 6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
B.M. MW-1 inner casing - Elev. = 109.95' (From Form B by others). Elevation 1.21' higher than NAVD 88
 7. Significant observations and notes:

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New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: NOOR Petroleum Service Station
 List all AKAs: Lawrence Fuel LLC, Jersey Oil, North Brunswick Gulf
 Street Address: 1696 Georges Road (AKA U.S. Route 130)
 Municipality: Township of North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
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SECTION B. WELL OWNER AND LOCATION

17-09-01-1155-48

1. Name of Well Owner 1696 Route 130, LLC
 2. Well Location (Street Address) U.S. Route 130, North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202405538
 2. Site Well Number (As shown on application or plans): MW-24D
 3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
 Latitude: North 40°26'35.83" Longitude: West 74°28'14.05"
 4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
 North 586389 East 500316
 5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.16'
 Elevation Top of Outer casing: 109.48' Elevation of ground: 109.5'
 Check one: NAVD 88 NVGD29 On Site Datum Other
 6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
B.M. MW-1 inner casing - Elev. = 109.95' (From Form B by others). Elevation 1.21' higher than NAVD 88
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 Surveyor's Name: Gerald G. DeGroat License Number: 26791
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New Jersey Department of Environmental Protection
Site Remediation Program

Monitoring Well Certification Form B - Location Certification

Date Stamp
 (For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: NOOR Petroleum Service Station
 List all AKAs: Lawrence Fuel LLC, Jersey Oil, North Brunswick Gulf
 Street Address: 1696 Georges Road (AKA U.S. Route 130)
 Municipality: Township of North Brunswick (Township, Borough or City)
 County: Middlesex Zip Code: 08902
 Program Interest (PI) Number(s): 010180 Case Tracking Number(s): 01-08-30-1546-07

SECTION B. WELL OWNER AND LOCATION

17-09-01-1155-48

1. Name of Well Owner 1696 Route 130, LLC
 2. Well Location (Street Address) U.S. Route 130, North Brunswick, NJ 08902
 3. Well Location (Municipal Block and Lot) Block# 282 Lot # 1

SECTION C. WELL LOCATION SPECIFICS

1. Well Permit Number (This number must be permanently affixed to the well casing): E202405539
 2. Site Well Number (As shown on application or plans): MW-25
 3. Geographic Coordinate NAD 83 to nearest 1/100 of a second:
 Latitude: North 40°26'35.31" Longitude: West 74°28'14.74"
 4. New Jersey State Plane Coordinates NAD 83 datum, US survey feet units, to nearest foot:
 North 586337 East 500263
 5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 108.67'
 Elevation Top of Outer casing: 109.03' Elevation of ground: 109.0'
 Check one: NAVD 88 NVGD29 On Site Datum Other
 6. Source of elevation datum (benchmark, number/description and elevation/datum). If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation (referencing NAVD 88).
B.M. MW-1 inner casing - Elev. = 109.95' (From Form B by others). Elevation 1.21' higher than NAVD 88
 7. Significant observations and notes:

SECTION D. LAND SURVEYOR'S CERTIFICATION

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SEAL

Professional Land Surveyor's Signature: *Gerald G. DeGroat* Date 7/31/2024
 Surveyor's Name: Gerald G. DeGroat License Number: 26791
 Firm Name: Gerald G. DeGroat, L.S. Certificate of Authorization #: _____
 Mailing Address 90 Wherli Road
 City/Town: Long Valley State NJ Zip Code: 07853
 Phone Number (908) 852-5039 Ext.: _____ Fax: (908) 850-5039

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Walter Lapp

Name of Facility: North Brunswick Gulf

Location: 1696 Georges Road North Brunswick, New Jersey 08902

Case Number(s): 01-08-30-1546-07 (UST #, ISRA #, Incident #, or EPA #)

LAND SURVEYOR'S CERTIFICATION

Well Permit Number:

(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): RW-1

Geographic Coordinate NAD 83 (to nearest 1/10 of second):

Longitude: West _____ Latitude: North _____

New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:

North 586386

East 500178

Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 109.12

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)


ELEVATIONS BASED ON N.G.V.D. 1929 PER N.G.S. MONUMENT FOUND DESIGNATED "3128"

Significant observations and notes: _____

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL


PROFESSIONAL LAND SURVEYOR'S SIGNATURE

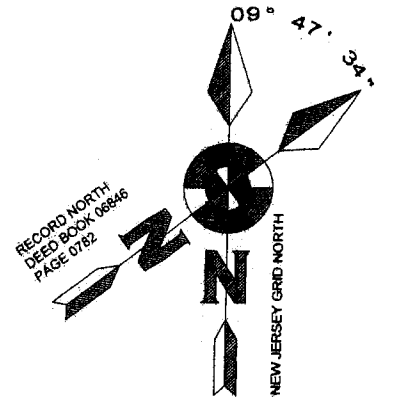
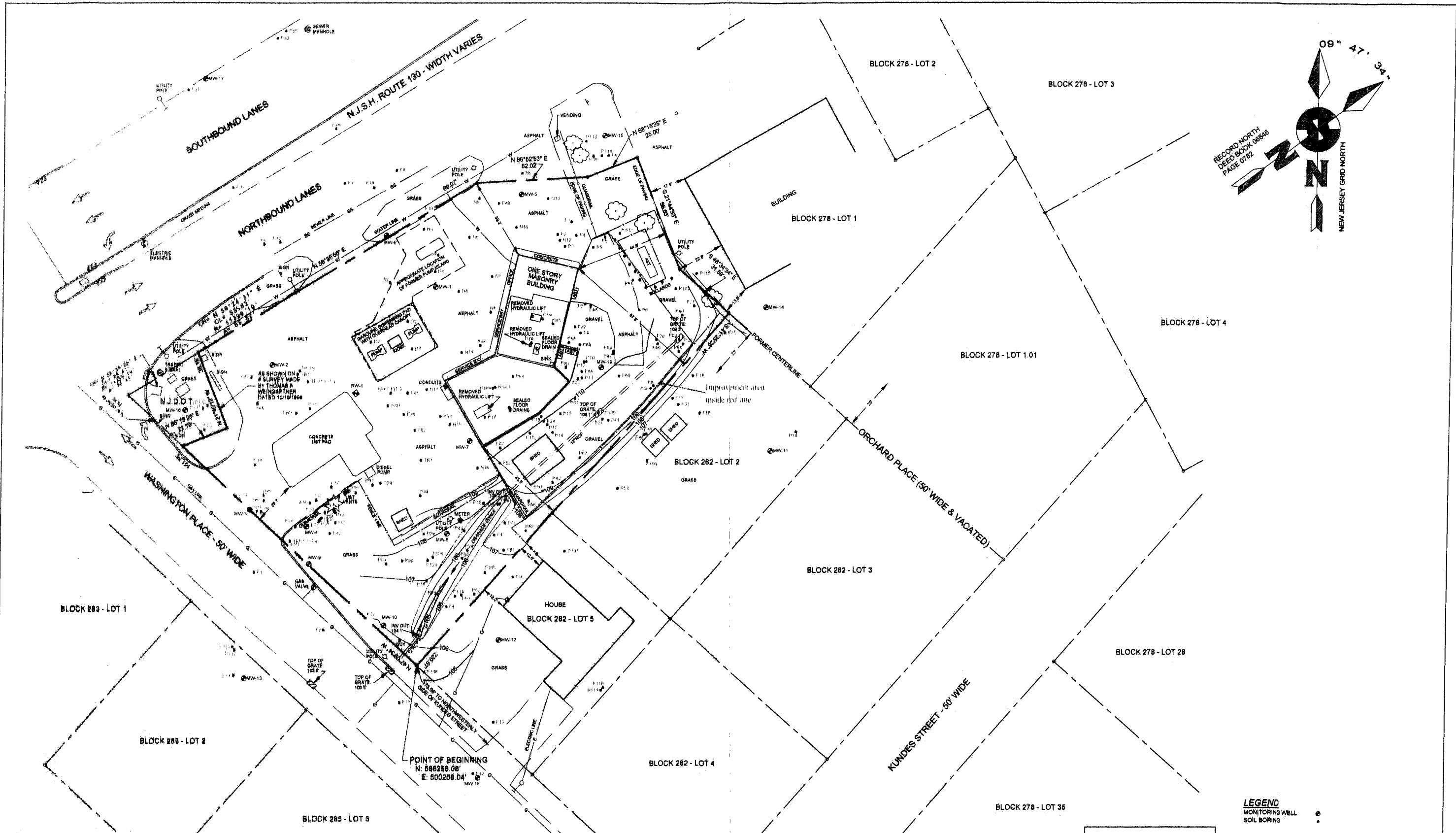
March 17, 2008
DATE

William T. Ftzkorn, Jr., P.L.S. N.J. Lic. No. GS37187
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

55 Carter Drive Edison, NJ 08817 (732) 339-9350
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

APPENDIX O

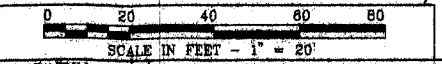
Survey Drawing



DENNIS W. SKLAR, INC.
 PROFESSIONAL LAND SURVEYING
 8837 OGDEN AVENUE
 BETHLEHEM, PA 18020
 (610) 688-7088
 DATE: JANUARY 8, 2018
 DRAWN BY: DWB
 FILE NO: 2224-01.DWG
 DRAWING NO. 2224
 SHEET 1 OF 1
 CERTIFICATE OF AUTHORIZATION NO.
 24GAB16090



BOUNDARY SURVEY - 0.7562773 ACRES
 1698 ROUTE 130, LLC
 DEED BOOK 08848 - PAGE 0782
 TAX BLOCK 282 - LOT 1
 NORTH BRUNSWICK TOWNSHIP - MIDDLESEX COUNTY - NEW JERSEY

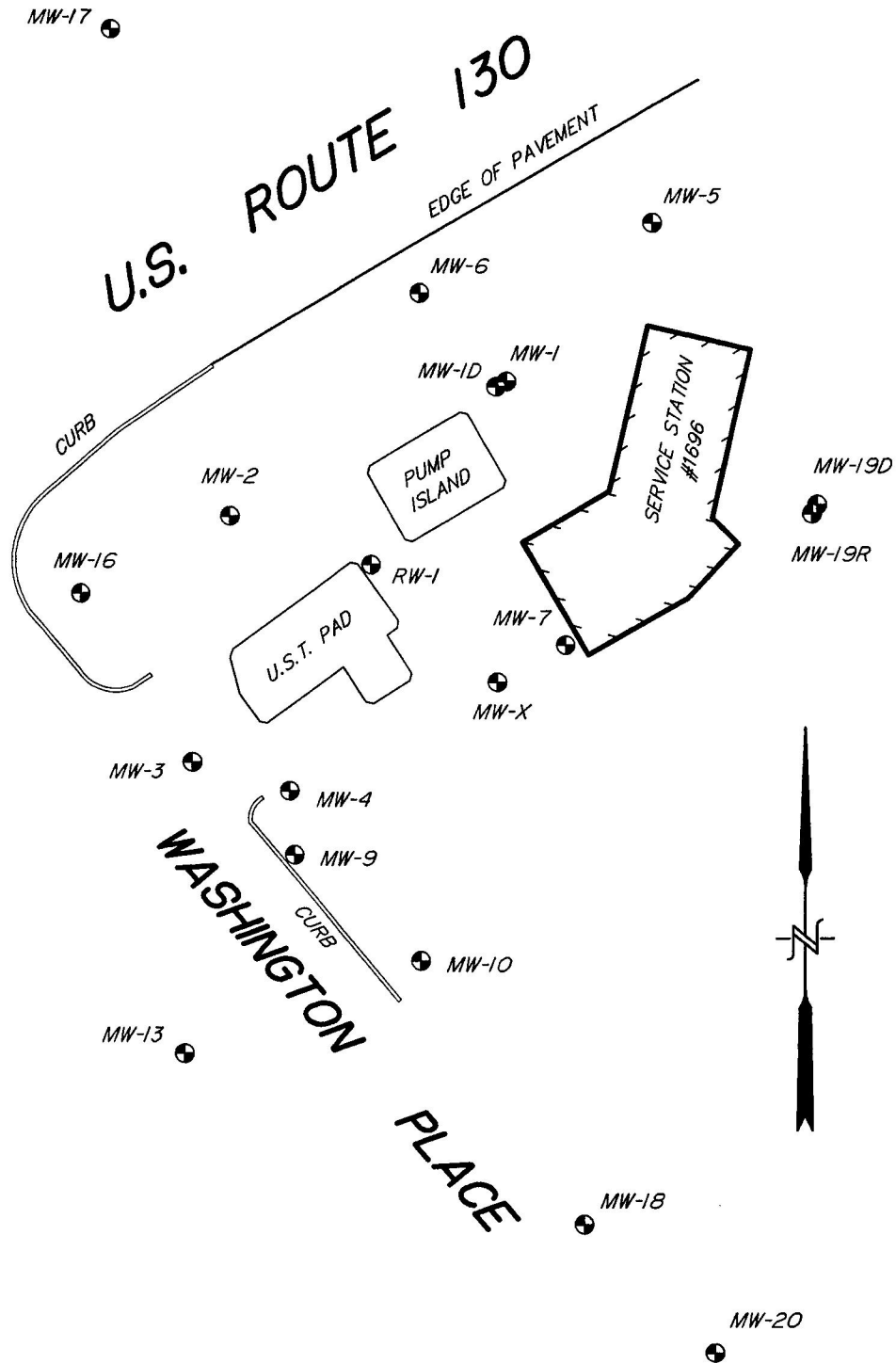


DATUM		REVISIONS	
NEW JERSEY STATE	1		
PLANE COORDINATES	2		
NAD 83_2011	3		
NAVD 88	4		
	5		

JAMES M. STEWART, PLS
 LICENSE NO. 24GS02610800

LEGEND
 MONITORING WELL
 SOIL BORING

- NOTES:**
- DENNIS W. SKLAR, INC. DOES NOT CERTIFY THE POSITIONS OF ANY UNDERGROUND UTILITIES OR SUBSURFACE FEATURES SHOWN ON THIS DRAWING. UNDERGROUND UTILITIES SHOWN ARE FROM SURFACE MARK OUTS PERFORMED BY OTHERS.
 - UNDERGROUND UTILITIES AND SUBSURFACE FEATURES MAY OR MAY NOT EXIST IN THE POSITIONS SHOWN AND ADDITIONAL UNDERGROUND UTILITIES AND SUBSURFACE FEATURES MAY EXIST THAT ARE NOT SHOWN.
 - A WRITTEN WAIVER AND DIRECTION NOT TO SET CORNER MARKERS HAS BEEN OBTAINED FROM THE ULTIMATE USER PURSUANT TO P.L. 2003, C.14 (N.J.S.A. 048:5-36.3) AND N.J.A.C. 13:40-5.1(D)



WELL ID.	PERMIT NO.	NORTHING	EASTING	LATITUDE NORTH	LONGITUDE WEST	SITE DATUM		
						CASING ELEV.	P.V.C. ELEV.	GROUND ELEV.
NAD 1983								
MW-1	2800049750	586436.10	500215.43	40°26'36.29"	74°28'15.35"	110.33'	109.95'	110.3'
MW-1D	E202312588	586434.68	500212.63	40°26'36.28"	74°28'15.39"	110.36'	110.12'	110.3'
MW-2	2800049751	586399.48	500139.06	40°26'35.93"	74°28'16.34"	109.46'	109.23'	109.6'
MW-3	2800049752	586331.67	500128.94	40°26'35.26"	74°28'16.47"	106.46'	105.67'	106.4'
MW-4	2800049753	586323.61	500155.71	40°26'35.18"	74°28'16.12"	106.73'	106.44'	106.7'
MW-5	2800054462	586479.56	500255.55	40°26'36.72"	74°28'14.83"	110.61'	110.28'	110.6'
MW-6	2800054461	586460.37	500191.78	40°26'36.53"	74°28'15.66"	110.20'	110.02'	110.2'
MW-7	2800054460	586363.69	500231.84	40°26'35.57"	74°28'15.14"	110.26'	109.82'	110.2'
MW-9	2800054459	586306.05	500157.09	40°26'35.01"	74°28'16.11"	106.23'	105.81'	106.2'
MW-10	2800054458	586277.14	500192.25	40°26'34.72"	74°28'15.65"	106.52'	106.18'	106.4'
MW-13	P200910655	586252.34	500126.92	40°26'34.47"	74°28'16.50"	106.23'	105.78'	106.2'
MW-16	P200910661	586378.33	500097.96	40°26'35.72"	74°28'16.87"	109.09'	108.76'	109.2'
MW-17	E201804577	586533.83	500106.10	40°26'37.26"	74°28'16.76"	110.18'	109.79'	110.2'
MW-18	E201804578	586205.64	500237.15	40°26'34.01"	74°28'15.07"	102.69'	102.11'	102.7'
MW-19D	E202312590	586402.25	500300.53	40°26'35.96"	74°28'14.25"	109.57'	109.34'	109.6'
MW-19R	E202312589	586399.82	500299.13	40°26'35.93"	74°28'14.27"	109.47'	109.18'	109.5'
MW-20	E201812604	586170.40	500273.02	40°26'33.66"	74°28'14.61"	101.58'	101.04'	101.6'
RW-1	2800052189	586385.94	500178.41	40°26'35.79"	74°28'15.83"	109.37'	109.14'	109.5'
MW-X		586353.46	500213.11	40°26'35.47"	74°28'15.38"	109.71'	109.35'	109.7'

PLOTTING
TOWNSHIP OF NORTH BRUNSWICK

MIDDLESEX COUNTY, NEW JERSEY

GERALD G. DEGROAT, L.S.
 LAND SURVEYING & PLANNING

P.O. BOX 10, SCHOOLEY'S MOUNTAIN, NEW JERSEY 07870

Gerald G. Degroat
 N.J. LAND SURVEYOR LIC. NO. 26791

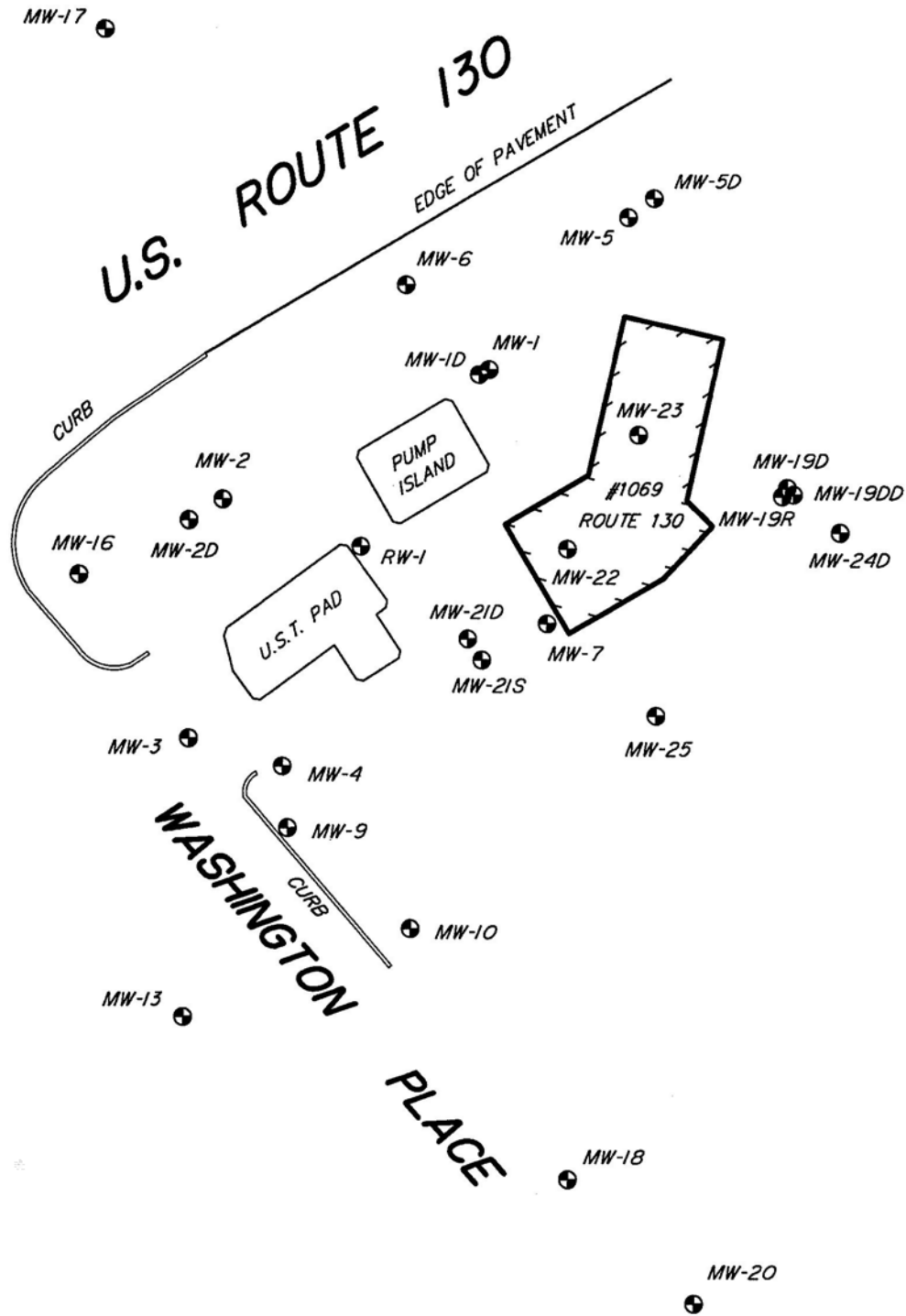
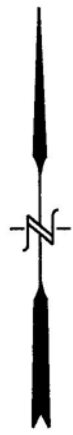
N.J. PROFESSIONAL PLANNER LIC. NO. 2399

SCALE 1" = 50' JANUARY 12, 2024

BENCH MARK - MW-1 INNER CASING - ELEV. 109.95'
 (FROM FORM B BY OTHERS)

HORIZONTAL DATUM - N.J. STATE PLANE
 COORDINATE SYSTEM (NAD 1983)





WELL ID.	PERMIT NO.	NORTHING	EASTING	LATITUDE NORTH	LONGITUDE WEST	CASING ELEV.	P.V.C. ELEV.	GROUND ELEV.
1/12/2024		NAD 1983			SITE DATUM			
MW-1	2800049750	586436.10	500215.43	40°26'36.29"	74°28'15.35"	110.33'	109.95'	110.3'
MW-1D	E202312588	586434.68	500212.63	40°26'36.28"	74°28'15.39"	110.36'	110.12'	110.3'
MW-2	2800049751	586399.48	500139.06	40°26'35.93"	74°28'16.34"	109.46'	109.23'	109.6'
MW-3	2800049752	586331.67	500128.94	40°26'35.26"	74°28'16.47"	106.46'	105.67'	106.4'
MW-4	2800049753	586323.61	500155.71	40°26'35.18"	74°28'16.12"	106.73'	106.44'	106.7'
MW-5	2800054462	586479.56	500255.55	40°26'36.72"	74°28'14.83"	110.61'	110.28'	110.6'
MW-6	2800054461	586460.37	500191.78	40°26'36.53"	74°28'15.66"	110.20'	110.02'	110.2'
MW-7	2800054460	586363.69	500231.84	40°26'35.57"	74°28'15.14"	110.26'	109.82'	110.2'
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MW-10	2800054458	586277.14	500192.25	40°26'34.72"	74°28'15.65"	106.52'	106.18'	106.4'
MW-13	P200910655	586252.34	500126.92	40°26'34.47"	74°28'16.50"	106.23'	105.78'	106.2'
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MW-17	E201804577	586533.83	500106.10	40°26'37.26"	74°28'16.76"	110.18'	109.79'	110.2'
MW-18	E201804578	586205.64	500237.15	40°26'34.01"	74°28'15.07"	102.69'	102.11'	102.7'
MW-19D	E202312590	586402.25	500300.53	40°26'35.96"	74°28'14.25"	109.57'	109.34'	109.6'
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RW-1	2800052189	586385.94	500178.41	40°26'35.79"	74°28'15.83"	109.37'	109.14'	109.5'
7/31/2024								
MW-2D	E202405532	586393.66	500129.34	40°26'35.87"	74°28'16.46"	109.49'	109.15'	109.5'
MW-5D	E202405533	586484.99	500262.98	40°26'36.77"	74°28'14.74"	110.58'	110.24'	110.6'
MW-19DD	E202405534	586400.31	500302.30	40°26'35.94"	74°28'14.23"	109.46'	109.24'	109.4'
MW-21D	E202405535	586359.40	500209.08	40°26'35.53"	74°28'15.43"	109.70'	109.41'	109.7'
MW-21S		586353.38	500213.01	40°26'35.47"	74°28'15.38"	109.72'	109.35'	109.7'
MW-22	E202405536	586385.01	500237.69	40°26'35.79"	74°28'15.06"	110.96'	110.67'	110.9'
MW-23	E202405537	586417.38	500258.24	40°26'36.10"	74°28'14.80"	111.35'	111.09'	111.3'
MW-24D	E202405538	586389.44	500315.59	40°26'35.83"	74°28'14.05"	109.48'	109.16'	109.5'
MW-25	E202405539	586337.42	500262.90	40°26'35.31"	74°28'14.74"	109.03'	108.67'	109.0'

⊕ = MONITOR WELL

BENCH MARK - MW-1 INNER CASING - ELEV. 109.95'
(FROM FORM B BY OTHERS)

HORIZONTAL DATUM - N.J. STATE PLANE
COORDINATE SYSTEM (NAD 1983)

PLOTTING
TOWNSHIP OF NORTH BRUNSWICK
MIDDLESEX COUNTY, NEW JERSEY

GERALD G. DEGROAT, L.S.
LAND SURVEYING & PLANNING

P.O. BOX 10, SCHOOLY'S MOUNTAIN, NEW JERSEY 07870

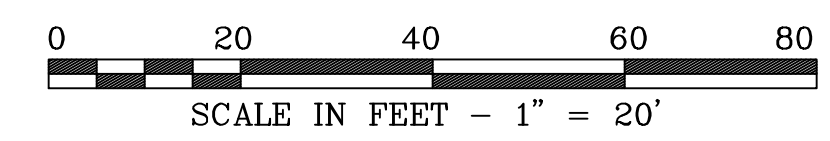
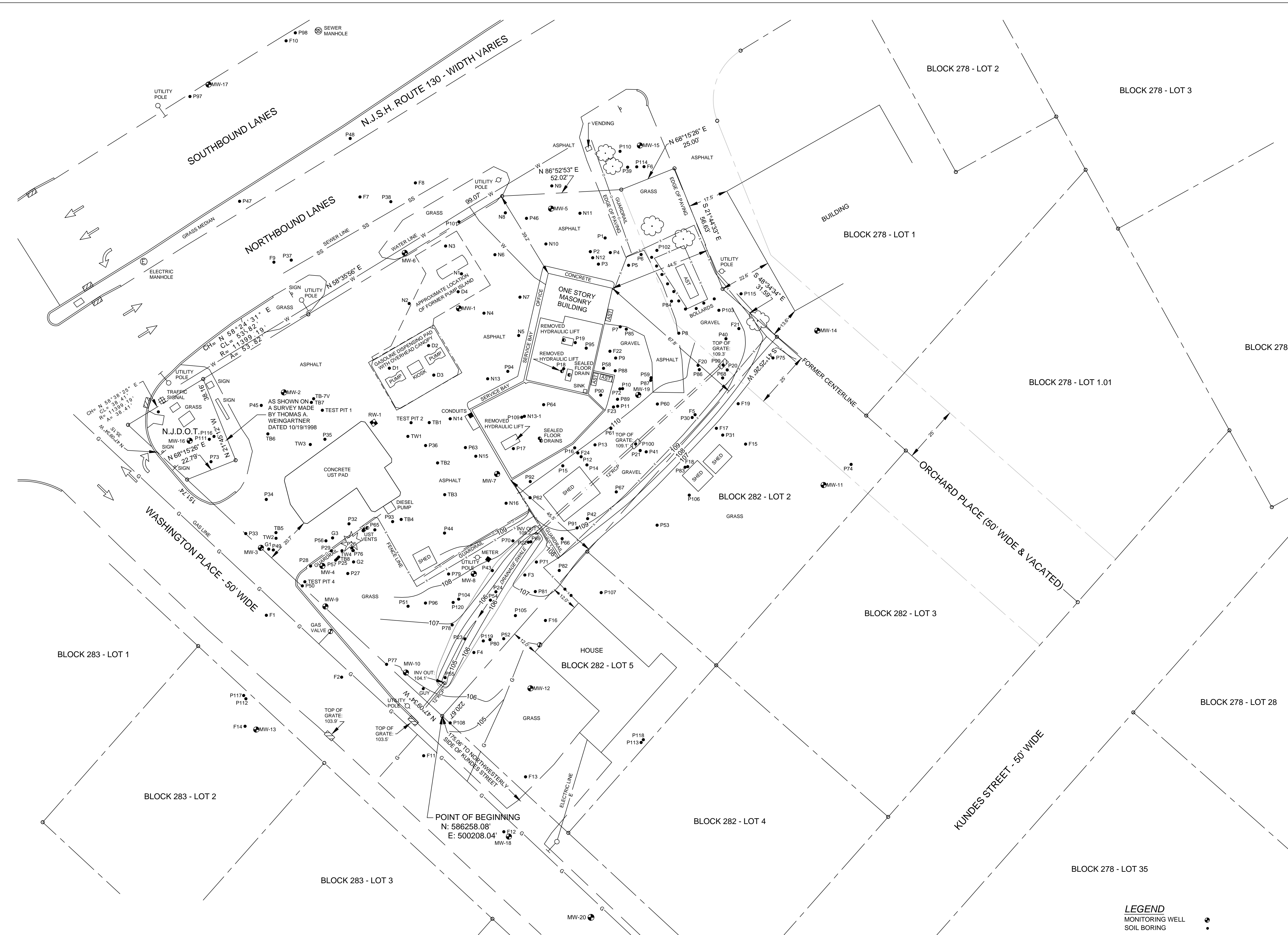
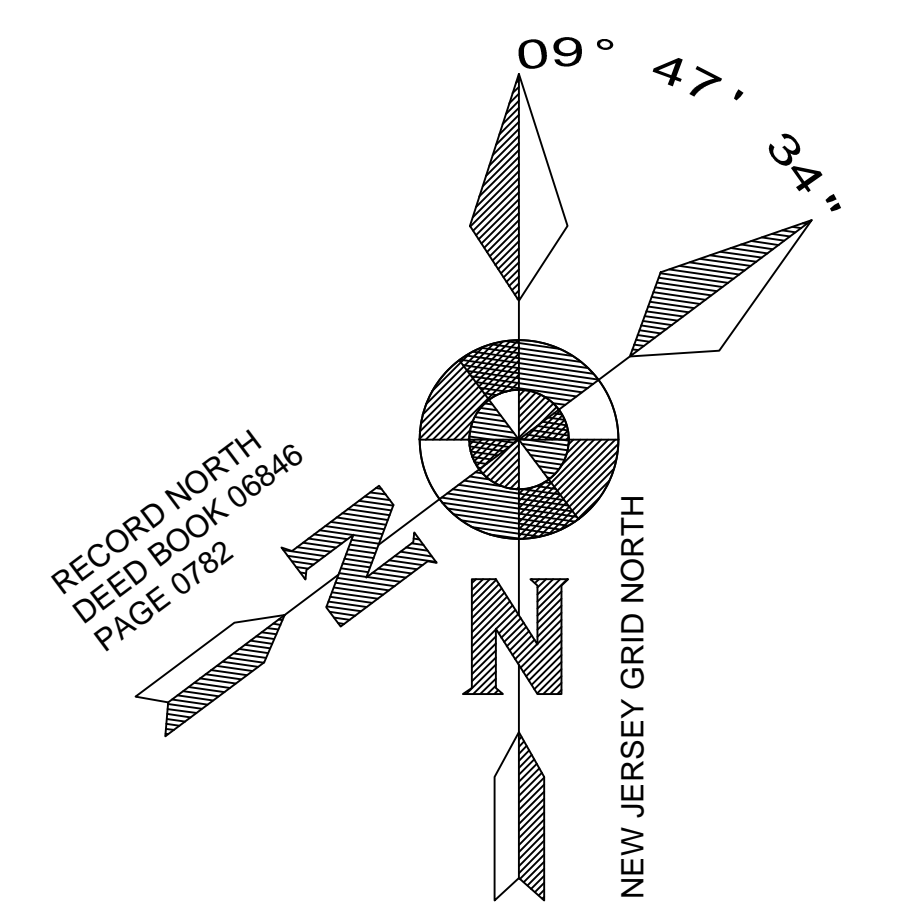
Gerald G. Degroat
N.J. LAND SURVEYOR LIC. NO. 26791

N.J. PROFESSIONAL PLANNER LIC. NO. 2399

SCALE 1" = 50' JANUARY 12, 2024



REVISED JULY 31, 2024

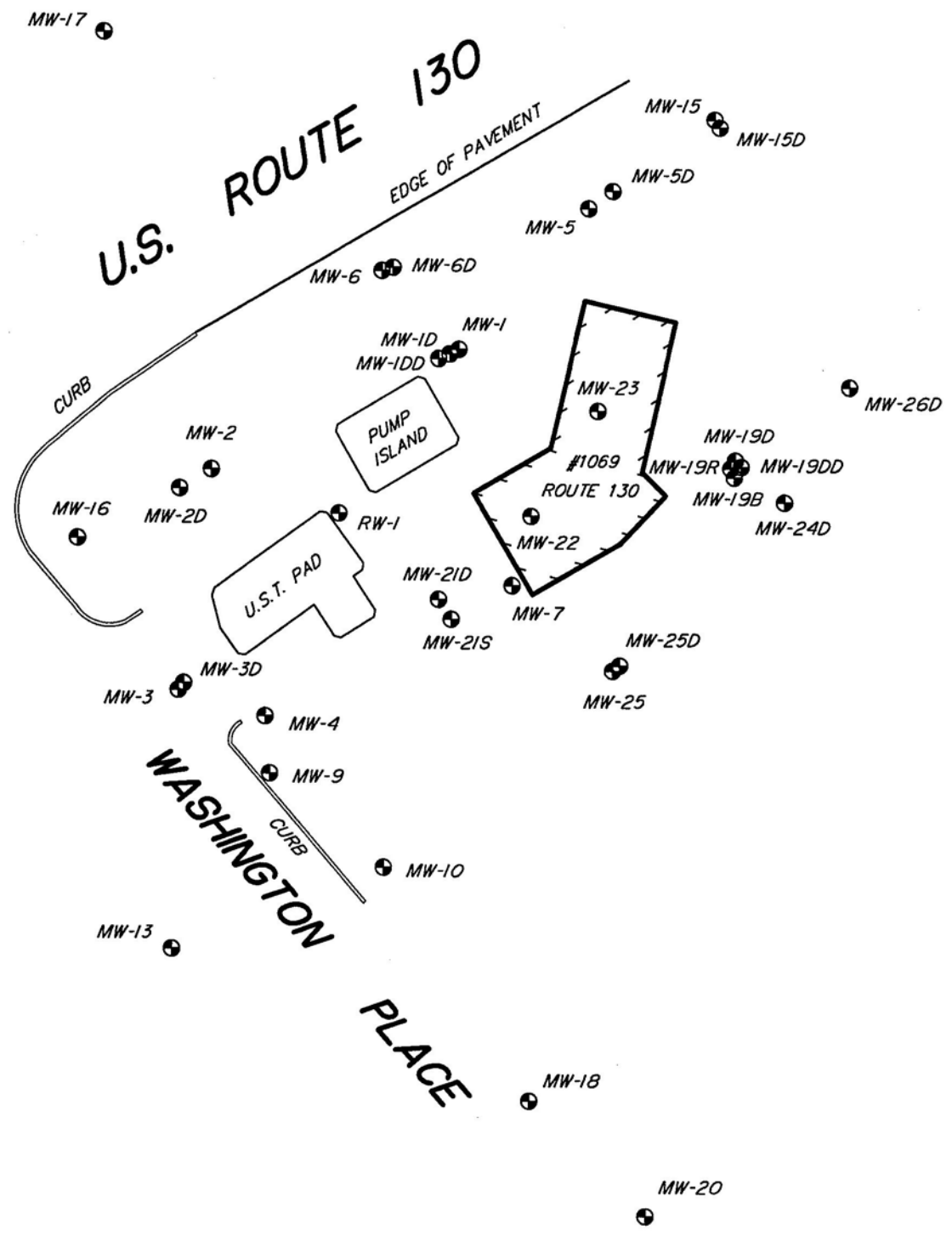


LEGEND

- MONITORING WELL
- SOIL BORING

BOUNDARY SURVEY - 0.7562773 ACRES
 1696 ROUTE 130, LLC
 DEED BOOK 06846 - PAGE 0782
 TAX BLOCK 282 - LOT 1
 NORTH BRUNSWICK TOWNSHIP - MIDDLESEX COUNTY - NEW JERSEY

DATUM
 NEW JERSEY STATE
 PLANE COORDINATES
 NAD 83_2011
 NAVD 88



WELL ID.	PERMIT NO.	NORTHING	EASTING	LATITUDE NORTH	LONGITUDE WEST	CASING ELEV.	P.V.C. ELEV.	GROUND ELEV.
1/12/2024		NAD 1983			SITE DATUM			
MW-1	2800049750	586436.10	500215.43	40°26'36.29"	74°28'15.35"	110.33'	109.95'	110.3'
MW-1D	E202312588	586434.68	500212.63	40°26'36.28"	74°28'15.39"	110.36'	110.12'	110.3'
MW-2	2800049751	586399.48	500139.06	40°26'35.93"	74°28'16.34"	109.46'	109.23'	109.6'
MW-3	2800049752	586331.67	500128.94	40°26'35.26"	74°28'16.47"	106.46'	105.67'	106.4'
MW-4	2800049753	586323.61	500155.71	40°26'35.18"	74°28'16.12"	106.73'	106.44'	106.7'
MW-5	2800054462	586479.56	500255.55	40°26'36.72"	74°28'14.83"	110.61'	110.28'	110.6'
MW-6	2800054461	586460.37	500191.78	40°26'36.53"	74°28'15.66"	110.20'	110.02'	110.2'
MW-7	2800054460	586363.69	500231.84	40°26'35.57"	74°28'15.14"	110.26'	109.82'	110.2'
MW-9	2800054459	586306.05	500157.09	40°26'35.01"	74°28'16.11"	106.23'	105.81'	106.2'
MW-10	2800054458	586277.14	500192.25	40°26'34.72"	74°28'15.65"	106.52'	106.18'	106.4'
MW-13	P200910655	586252.34	500126.92	40°26'34.47"	74°28'16.50"	106.23'	105.78'	106.2'
MW-16	P200910661	586378.33	500097.96	40°26'35.72"	74°28'16.87"	109.09'	108.76'	109.2'
MW-17	E201804577	586533.83	500106.10	40°26'37.26"	74°28'16.76"	110.18'	109.79'	110.2'
MW-18	E201804578	586205.64	500237.15	40°26'34.01"	74°28'15.07"	102.69'	102.11'	102.7'
MW-19D	E202312590	586402.25	500300.53	40°26'35.96"	74°28'14.25"	109.57'	109.34'	109.6'
MW-19R	E202312589	586399.82	500299.13	40°26'35.93"	74°28'14.27"	109.47'	109.18'	109.5'
MW-20	E201812604	586170.40	500273.02	40°26'33.66"	74°28'14.61"	101.58'	101.04'	101.6'
RW-1	2800052189	586385.94	500178.41	40°26'35.79"	74°28'15.83"	109.37'	109.14'	109.5'
7/31/2024								
MW-2D	E202405532	586393.66	500129.34	40°26'35.87"	74°28'16.46"	109.49'	109.15'	109.5'
MW-5D	E202405533	586484.99	500262.98	40°26'36.77"	74°28'14.74"	110.58'	110.24'	110.6'
MW-19DD	E202405534	586400.31	500302.30	40°26'35.94"	74°28'14.23"	109.46'	109.24'	109.4'
MW-21D	E202405535	586359.40	500209.08	40°26'35.53"	74°28'15.43"	109.70'	109.41'	109.7'
MW-21S		586353.38	500213.01	40°26'35.47"	74°28'15.38"	109.72'	109.35'	109.7'
MW-22	E202405536	586385.01	500237.69	40°26'35.79"	74°28'15.06"	110.96'	110.67'	110.9'
MW-23	E202405537	586417.38	500258.24	40°26'36.10"	74°28'14.80"	111.35'	111.09'	111.3'
MW-24D	E202405538	586389.44	500315.59	40°26'35.83"	74°28'14.05"	109.48'	109.16'	109.5'
MW-25	E202405539	586337.42	500262.90	40°26'35.31"	74°28'14.74"	109.03'	108.67'	109.0'
7/3/2025								
MW-1DD	E202505417	586433.26	500209.17	40°26'36.26"	74°28'15.43"	110.38'	110.15'	110.4'
MW-3D	E202505418	586333.78	500130.62	40°26'35.28"	74°28'16.45"	106.38'	106.13'	106.4'
MW-6D		586461.35	500195.20	40°26'36.54"	74°28'15.61"	110.16'	109.82'	110.2'
MW-15		586507.13	500294.26	40°26'36.99"	74°28'14.33"	109.62'	109.46'	109.6'
MW-15D	E202505420	586504.72	500295.76	40°26'36.97"	74°28'14.31"	109.57'	109.16'	109.5'
MW-19B	E202505140	586397.12	500300.18	40°26'35.90"	74°28'14.25"	109.19'	108.91'	109.2'
MW-25D	E202505421	586339.11	500265.09	40°26'35.33"	74°28'14.71"	109.13'	108.82'	109.1'
MW-26D	E202505422	586424.73	500335.33	40°26'36.18"	74°28'13.80"	109.07'	108.67'	109.0'
MW-19DD	E202405534	586400.31	500302.30	40°26'35.94"	74°28'14.23"	109.34'	109.17'	109.3'

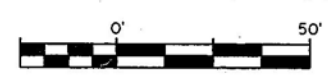
⊕ = MONITOR WELL

BENCH MARK - MW-1 INNER CASING - ELEV. 109.95'
(FROM FORM B BY OTHERS)

HORIZONTAL DATUM - N.J. STATE PLANE
COORDINATE SYSTEM (NAD 1983)

PLOTTING
TOWNSHIP OF NORTH BRUNSWICK
MIDDLESEX COUNTY, NEW JERSEY
GERALD G. DEGROAT, L.S.
LAND SURVEYING & PLANNING
P.O. BOX 10, SCHOOLLEY'S MOUNTAIN, NEW JERSEY 07870

G. G. Degroat
N.J. LAND SURVEYOR LIC. NO. 26791
N.J. PROFESSIONAL PLANNER LIC. NO. 2399
SCALE 1" = 50' JANUARY 12, 2024



REVISED JULY 31, 2024
REVISED JULY 3, 2025

APPENDIX P

NJDEP Groundwater Quality Standards

This is a courtesy copy of this rule. All of the Department's rules are compiled in Title 7 of the New Jersey Administrative Code.

N.J.A.C. 7:9C

Ground Water Quality Standards

Statutory Authority: N.J.S.A. 58:10A-1 et seq. and 58:11A-1 et seq.

Date Last Amended: August 9, 2018 (see 50 N.J.R. 1963(a)).

For regulatory history and effective dates, see the New Jersey Administrative Code.

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7:9C-1.6	Exceptions to the classification system
7:9C-1.7	Ground water quality criteria
7:9C-1.8	Antidegradation policy
7:9C-1.9	Constituent standard modifications and practical quantitation levels
7:9C-1.10	Procedures for reclassification of ground water
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SUBCHAPTER 1. GROUND WATER QUALITY STANDARDS

7:9C-1.1 Scope of chapter

- (a) Unless otherwise provided by statute, this chapter constitutes the rules of the Department of Environmental Protection concerning ground water classification, designated uses of ground water, and ground water quality criteria and constituent standards, pursuant to the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and the Water Quality Planning Act (N.J.S.A. 58:11A-1 et seq.).
- (b) This chapter provides the basis for protection of ambient ground water quality, through the establishment of constituent standards for ground water pollutants. These constituent standards are applicable to the development of: ground water protection standards pursuant to the New Jersey Pollutant Discharge Elimination System (NJPDES; N.J.A.C. 7:14A); ground water remediation standards; and other requirements and regulatory actions applicable to discharges that cause or may cause pollutants to enter the ground waters of the State, including non-point and diffuse sources regulated by the Department. Other relevant laws through which the Ground Water Quality Standards may be applied include, but are not limited to, the Spill Compensation and Control Act (N.J.S.A. 58:10-23.11 et seq.), the Brownfield and Contaminated Site Remediation Act (N.J.S.A. 58:10B-1 et seq.), the Site Remediation Reform Act (N.J.S.A. 58:10C-1 et seq.), the Solid Waste Management Act (N.J.S.A. 13:1E-1 et seq.), the Industrial Site Recovery Act (N.J.S.A. 13:1K-6 et seq.), the Underground Storage of Hazardous Substances Act (N.J.S.A. 58:10A-21 et seq.), the Realty Improvement Sewerage and Facilities Act (N.J.S.A. 58:11-23 et seq.), and the Pesticide Control Act of 1971 (N.J.S.A. 13:1F-1 et seq.).
- (c) This chapter constitutes the Department's primary basis for setting numerical criteria for limits on discharges to ground water and standards for ground water remediation.

7:9C-1.2 Policies

- (a) It is the policy of this State to restore, enhance and maintain the chemical, physical, and biological integrity of its waters, to protect public health, to safeguard fish and aquatic life and scenic and ecological values, and to enhance the domestic, municipal, recreational, industrial and other uses of water.
- (b) Discharges to ground water that subsequently discharges into surface waters shall not be permitted by the applicable regulatory program if such discharges would cause a contravention of surface water quality standards applicable to those surface waters. That is, those discharges must achieve compliance with both these standards and the surface water quality standards (N.J.A.C. 7:9B).
- (c) When existing ground water quality does not meet the constituent standards determined pursuant to N.J.A.C. 7:9C-1.7, 1.8 and 1.9, due to human activities, the Department shall, after a review of relevant and available scientific and technical data, determine in the context

of the applicable regulatory programs the management actions necessary (including, but not limited to, the requirement of remedial actions) to restore or enhance ground water quality pursuant to the policies of this chapter.

- (d) The Department shall not approve discharges or activities posing a significant risk of discharges, within the jurisdiction of and subject to regulation by the Pinelands Commission, that would contravene the rules of the Pinelands Commission with regard to the protection of ground water or surface water quality.

7:9C-1.3 Construction

This chapter shall be liberally construed to permit the Department to implement its statutory functions.

7:9C-1.4 Definitions

The following words and terms, when used in this subchapter, shall have the following meanings:

“ACL” means alternative concentration limit.

"Agricultural water" means water used for crop production, livestock, horticulture and silviculture.

"Alternative concentration limit" or “ACL” means a constituent standard or narrative description of actions, discharge controls and water quality requirements that is less stringent than the ground water quality requirements of N.J.A.C. 7:9C-1.7, 1.8 and 1.9, due to a Departmental determination pursuant to NJPDES regulations (N.J.A.C. 7:14A-10.8(b)). In order to approve an ACL, the Department must find that the relevant constituent standard(s) cannot be achieved through technologically practicable means.

"Applicable regulatory program" means any of the Department's programs which implement the regulations issued pursuant to the statutes cited in N.J.A.C. 7:9C-1.1(b) or in any other regulations that specifically cite this chapter.

"Aquifer" means a saturated geologic formation(s) or unit(s) which is sufficiently permeable to transmit water to a pumping well in usable and economic quantities. The upper level of an unconfined aquifer may vary over time; "aquifer" applies to the full saturated zone at any time.

"Aquitard" means a hydrogeologic confining unit(s) that exhibits limited permeability, bounding one or more aquifers, that does not readily yield water to wells or springs, but may serve as a storage unit for ground water and may release this water to adjacent ground water units or surface waters. Such confining units are further defined and listed in N.J.A.C. 7:9C-1.5(f)1 or may be established through reclassification under N.J.A.C. 7:9C-1.10.

"Background water quality" means the concentration of constituents in ground water which is determined to exist directly upgradient of a discharge but not influenced by the discharge, or is otherwise representative of such concentration of constituents as determined using methods and analyses consistent with the requirements of N.J.A.C. 7:14A-10.11(g).

"Carcinogen" means a constituent capable of inducing a cancer response, including Group A (Human Carcinogen), Group B (Probable Human Carcinogen) or Group C (Possible Human Carcinogen) categorized in accordance with the USEPA Guidelines for Carcinogen Risk Assessment, 51 Fed. Reg. 33992, 1986, incorporated herein by reference, as amended or supplemented.

"Classification area" means the geographic extent (lateral and vertical) of a geologic formation(s) or unit(s) wherein ground water is classified for designated uses, as described in N.J.A.C. 7:9C-1.5.

"Classification exception area" means an area within which one or more constituent standards and designated uses are suspended in accordance with N.J.A.C. 7:9C-1.6.

"Conservation restriction" means the restricting of development on property as that term is defined under the New Jersey Conservation Restriction and Historic Preservation Restriction Act, N.J.S.A. 13:8B-1 et seq.

"Constituent" means a specific chemical substance (that is, element or compound) or water quality parameter (for example, temperature, odor, color).

"Constituent standard" means the required maximum level or concentration or the required range of levels or concentrations (as applicable) for a constituent in a classification area, as established in N.J.A.C. 7:9C-1.7, 1.8 and 1.9(a) and (b). The constituent standards shall be the basis for the Department's regulation of ground water quality effects of past, present or future discharges to ground water or the land surface, pursuant to applicable authorities as defined in N.J.A.C. 7:9C-1.1.

"Conventional water supply treatment" means the chemical and physical treatment of ground water supplies for microbiological contaminants and undesirable naturally occurring substances resulting in treated water that meets all the primary and secondary standards for those constituents stipulated by the New Jersey Safe Drinking Water Act regulations (N.J.A.C. 7:10-12.1 et seq.)

"Criteria" means ground water quality criteria.

"Department" means the New Jersey Department of Environmental Protection.

"Designated use" means a present or potential use of ground water which is to be maintained, restored and enhanced within a ground water classification area, as determined by N.J.A.C. 7:9C-1.5. Designated uses may include any human withdrawal of ground water (for example, for potable, agricultural and industrial water), the discharge of ground water to surface

waters of the State which support human use or ecological systems, or the direct support of ecological systems.

"Discharge" means an intentional or unintentional action or omission resulting in the releasing, spilling, leaking, pumping, pouring, emitting, emptying or dumping of a pollutant at any time into the waters of the State, onto land or into wells from which it might flow or drain into said waters, or into waters or onto lands outside the jurisdiction of the State, which pollutant enters the waters of the State. "Discharge" includes, without limitation, the release of any pollutant into a municipal treatment works.

"Discharger" means any person, corporation, municipality, government agency or authority or other legal entity, who causes or allows a discharge, either through action or omission.

"Extensive exceedance", as used in N.J.A.C. 7:9C-1.10, means a condition where ground water quality in an area exceeds the criteria of N.J.A.C. 7:9C-1.7 for one or more constituents over the vast majority of the subject area for such constituent(s) and that such exceedances are not attributable to the past or present discharges of a single discharger or any group of active NJPDES permitted discharges.

"FW1" means those surface fresh waters defined as such in the Surface Water Quality Standards, N.J.A.C. 7:9B and shown on maps maintained by the Department.

"Ground water" means the portion of water beneath the land surface that is within the saturated zone.

"Ground water quality criteria" means the designated levels or concentrations of constituents that, when exceeded, will prohibit or significantly impair a designated use of water. Criteria may be "specific" (listed for each constituent in Appendix Table 1), "interim specific" (derived using a standard method, for constituents not listed in Appendix Table 1), or "interim generic" (as listed for carcinogenic and non-carcinogenic Synthetic Organic Chemicals in Appendix Table 2).

"Hazardous pollutant" means:

1. Any toxic pollutant;
2. Any substance regulated as a pesticide under the Federal Insecticide, Fungicide and Rodenticide Act, Pub.L.92-516 (7 U.S.C. _ 136 et seq.);
3. Any substance the use or manufacture of which is prohibited under the Federal Toxic Substances Control Act, Pub.L.94-469 (15 U.S.C. _ 2601 et seq.);
4. Any substance identified as a known carcinogen by the International Agency for Research on Cancer;
5. Any hazardous waste as designated pursuant to section 3 of P.L.1981, c.279 (N.J.S.A.13:1E-51) or the "Resource Conservation and Recovery Act," Pub.L.94-580 (42 U.S.C. 6901 et seq.); or
6. Any hazardous substance as defined pursuant to section 3 of P.L.1976, c.141 (N.J.S.A. 58:10-23.11b).

“HUC 11” or “hydrologic unit code 11” means an area within which water drains to a particular receiving surface water body, also known as a watershed, which is identified by an 11-digit hydrologic unit boundary designation, delineated within New Jersey by the United States Geological Survey.

"Industrial water" means water used for processing, heating or cooling in a manufacturing process.

"Natural Area" means an area of land or water, designated by the Department under N.J.A.C. 7:5A-1.13 and shown on maps maintained by the Office of Natural Lands Management, Division of Parks and Forestry, of the Department, which is owned in fee simple or in which a conservation restriction is held by the Department.

"Natural quality" means the concentration or level of constituents which occurs in ground water of a hydrologic unit without the influence of human activity, other than the effects of regional precipitation of air pollutants (for example, acid precipitation). The natural quality for SOCs is established as zero (0.0) except where the SOCs are the result of air transport from outside the State, enter the State from ground water transport of pollutants having their origins in other states, or are created entirely by natural processes. Where natural quality for other constituents is not ascertainable from generally acceptable scientific studies, the lowest concentrations known to exist within the same or a similar hydrologic unit and setting (that is, depth) within the classification area shall be used to represent the natural quality, provided, however, that for pH, corrosivity and hardness, the most representative concentration shall be used.

“Non-carcinogen” means a constituent not categorized as a carcinogen, including Group D (Not Classifiable as to Human Carcinogenicity) or Group E (Evidence of Non-Carcinogenicity for Humans) categorized in accordance with the USEPA Guidelines for Carcinogen Risk Assessment, 51 Fed. Reg. 33992, 1986, incorporated herein by reference, as amended or supplemented.

"NJPDES" means the New Jersey Pollutant Discharge Elimination System (N.J.A.C. 7:14A).

"NJPDES permit action" means a draft or final NJPDES permit, a permit equivalent, or a decision that a discharge is not to be regulated by NJPDES, as determined pursuant to the NJPDES regulations.

"Organoleptic effect" means an offensive taste, foul odor or other adverse aesthetic consequence caused by pollutants in a water supply and rendering the water supply unfit for potable use.

"PQL" means practical quantitation level.

"Pollutant" means any dredged spoil, solid waste, incinerator residue, sewage, garbage, refuse, oil, grease, sewage sludge, munitions, chemical wastes, biological materials, radioactive substance, thermal waste, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal or agricultural or other residue discharged into the waters of the State. "Pollutant" includes both hazardous and nonhazardous pollutants. "Industrial, municipal or agricultural or other residue" specifically includes, without limitation, constituents that are not considered wastes (that is, process chemicals) prior to discharge, but which are discharged and may or do degrade natural or existing ground water quality.

"Potable water" means water suitable for household consumption, primarily as drinking water, based upon human health, welfare and aesthetic considerations.

"Practical quantitation level" (PQL) means the lowest concentration of a constituent that can be reliably achieved among laboratories within specified limits of precision and accuracy during routine laboratory operating conditions. "Specified limits of precision and accuracy" are the criteria which have been included in applicable regulations including, but not limited to, those regulations listed at N.J.A.C. 7:9C-1.9 or are listed in the calibration specifications or quality control specifications of an analytical method.

"Saturated Zone" means the zone in which all the subsurface voids in the rock or soil are filled with water.

"SOC" means Synthetic Organic Chemical.

"Soils" means any naturally occurring or man-made unconsolidated mineral and organic matter on the surface of the earth that has been subjected to and influenced by geologic and environmental factors. "Soils" also includes fill or overburden.

"Source water" means the supply source of water (for example, private wells, public water supply) to a discharger, where the source water becomes part of a discharge.

"Surface water" means water at or above the land's surface which is neither ground water nor contained within the unsaturated zone. "Synthetic organic chemicals" (SOCs) means any compounds that contain at least one carbon atom and that result from purposeful chemical synthesis, whether as products, by-products, or waste, or from the purposeful refinement of naturally occurring substances. Where a chemical substance is sometimes found in nature and sometimes synthesized, it shall be considered an SOC only to the extent or in the proportion produced or isolated by human activity. Naturally occurring organic chemicals in their natural location are not considered a pollutant pursuant to the Ground Water Quality Standards. An SOC may be considered to be in its natural location, if, by background sampling and modeling, it is shown that such SOC has migrated to that point from the place it naturally occurred.

"Technologically practicable means" means the best available treatment or remedial technology, from an engineering perspective; "best" means that technology which achieves the most stringent numerical values attainable for a constituent at a contaminated site or for a

NJPDES-regulated discharge; "available" means field-demonstrated technology although such technology need not be in common commercial use.

"Toxic pollutant" means any pollutant identified pursuant to the Federal Water Pollution Control Act Amendments of 1972 (Pub.L.92-500, 33 U.S.C. _ 1251 et seq.), or any pollutant or combination of pollutants, including disease causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly or indirectly by ingestion through food chains, will, on the basis of information available to the Department, cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformation, in such organisms or their offspring.

"USEPA" means the United States Environmental Protection Agency.

"Unsaturated zone" (vadose zone) means the subsurface volume between the land's surface and the top of a saturated zone.

"Waters of the State" means the ocean and its estuaries, all springs, streams and bodies of surface or ground water, whether natural or artificial, within the boundaries of this State or subject to its jurisdiction.

"Zone of Contribution" means the volume of a geologic formation or unit that directly contributes ground water to a pumping well over time, or a Well Head Protection Area as defined by the Department pursuant to the Federal Safe Drinking Water Act Amendments of 1986.

7:9C-1.5 Ground water classification system and designated uses

- (a) Ground water is classified according to the hydrogeologic characteristics of the ground water resource and the designated use(s) which are to be maintained, restored and enhanced within the classification area. Classifications are regional in nature and do not reflect localized infringements on designated uses due to natural quality or pollution incidents. Ground water users should not assume that existing ground water quality everywhere meets the criteria for classification areas established herein, in view of the potential for variations in natural quality or for localized pollution caused by human activity. Additional uses may be made of ground water in any classification area, subject to applicable Department rules, but these uses are not directly protected through this chapter.
- (b) The Department shall preferentially protect the primary designated use for each classification area, and shall protect any secondary designated uses to the extent that such uses are viable using water of sufficient quality for the primary use and that the primary use is not impaired.
- (c) There are three major classes of ground water, as defined in paragraphs (d) through (f) below. They are:
 - Class I Ground Water of Special Ecological Significance
 - Class II Ground Water for Potable Water Supply

- Class III Ground Water With Uses Other Than Potable Water Supply

(d) The primary designated use for Class I ground water is the maintenance of special ecological resources supported by the ground water within the classification area. Secondary designated uses are potable water, agricultural water and industrial water to the extent that these uses are viable using water of natural quality and do not impair the primary use, such as by altering ground water quality.

1. Class I-A - Exceptional Ecological Areas: Class I-A ground water shall consist of all ground waters within those classification areas, listed at (d)1(iii) below or designated by the Department through the reclassification procedure in N.J.A.C. 7:9C-1.10, which satisfy either (d)1i or ii below. In addition, ground waters within those areas listed in (d)1iii below are classified as Class I-A ground waters, because the Department has determined that they satisfy the requirements of either (d)i or ii below. The Department may approve a Class I-A classification area if the ground water within that area:

i. Contributes to the transmittal of ground water to surface water in FW1 watersheds;
and

(1) The area involved is under government ownership (fee simple or conservation restriction); or

(2) Is owned by a private entity that petitions the Department for reclassification of the property to Class I-A pursuant to N.J.A.C. 7:9C-1.10; or

ii. Contributes to the transmittal of ground water to the land surface or to surface water in areas of exceptional ecological value. Areas of exceptional ecological value satisfy the conditions described in (d)1ii(1), (2) or (3) below, and also satisfy the conditions described in both (d)1ii(4) and (5) below:

(1) Support threatened or endangered species as determined by the United States Department of the Interior pursuant to the Endangered Species Act, 16 U.S.C. 1531 et seq., or by the Department pursuant to the Endangered and Nongame Species Conservation Act, N.J.S.A 23:2A-1 et seq.

(2) Support biotic communities within Natural Areas.

(3) Serve other exceptional ecological values such as being a part of or supporting state, nationally or internationally rare, threatened or endangered habitats where there is a significant risk that ground water pollution would impair or imperil the ecological values.

(4) The quality and transmittal of ground water is essential to the survival or maintenance of the exceptional ecological resource contained within the classification area.

- (5) The area involved is of sufficient size to provide meaningful control of ground water quality to protect the target resource, based upon the biotic resource and local hydrogeology and is under government ownership (fee simple or conservation restriction), or is owned by a private entity that petitions the Department for reclassification of the property to Class I-A pursuant to N.J.A.C. 7:9C-1.10.
 - iii. Ground water within the following areas are herein classified as Class I-A:
 - (1) Watersheds of FW1 surface waters;
 - (2) The Natural Areas as designated by the Department pursuant to N.J.A.C. 7:5A-1.13.
2. Class I-PL--Pinelands: The classification area for Class I-PL consists of all ground water in the Cohansey and Kirkwood Formations located within the Pinelands area as designated by the Pinelands Protection Act, N.J.S.A. 13:18A-1 et seq. (as indicated in figure 1 in the Appendix, incorporated herein by reference), other than those ground water areas classified as Class I-A.
 - i. Class I-PL (Preservation Area): The primary designated use is the support and preservation of unique and significant ecological resources of the Pinelands, through the restoration, maintenance and preservation of ground water quality in its natural state. Secondary designated uses include compatible agricultural uses in conformance with N.J.A.C. 7:50-6 et seq. and potable water uses.
 - ii. Class I-PL (Protection Area): The primary designated use is the preservation of Pinelands plant and animal species and their habitats through the protection and maintenance of the essential characteristics of Pinelands ground water quality. Secondary designated uses include potable and agricultural water.
- (e) The primary designated use for Class II ground waters is the provision of potable ground waters with conventional water supply treatment, either at their current water quality (Class II-A) or subsequent to enhancement or restoration of regional water quality so that the water will be of potable quality with conventional water supply treatment (Class II-B). Both existing and potential potable water uses are included in the designated use.
 1. Class II-A shall consist of all ground water of the State, except for ground water designated in Classes I, II-B or III. The primary designated use for Class II-A ground water shall be potable water and conversion (through conventional water supply treatment, mixing or other similar technique) to potable water. Class II-A secondary designated uses include agricultural water and industrial water.
 2. Specific Class II-B areas, designated uses and constituent standards will be established through rule or through reclassification pursuant to N.J.A.C. 7:9C-1.10. The designated uses of Class II-B areas generally may include any reasonable use (other than potable

use). Designated uses of Class II-B ground water shall not exacerbate existing ground water pollution or impede the ability to enhance or restore the quality of the ground water so that it will be potable or convertible to potable use with conventional water supply treatment, mixing or other similar techniques. Class II-B shall consist only of ground waters:

- i. That exhibit extensive exceedance of one or more of the ground water quality criteria in N.J.A.C. 7:9C-1.7(c) within the proposed Class II-B area, due to past discharges of ground water pollutants;
- ii. Where restoration of the ground water, where polluted, cannot be achieved using technologically practicable means;
- iii. Where the conditions listed in (e)2(1) through (4) below exist within the proposed Class II-B area, and there is no indication in the projections of the Department, public water supply systems serving the area, or municipalities of the area that those conditions will cease to exist within the next 25 years:
 - (1) No public community water supply well or Zone of Contribution for such a well exists;
 - (2) Less than five percent of the potable water supply for the area subject to the petition is derived from ground water from within the proposed Class II-B area;
 - (3) Less than five percent of the potable water supply for any municipality (or portion thereof) within the Class II-B area is derived from ground water from within the proposed Class II-B area; and
 - (4) No significant concentration of domestic water supply wells exists;
- iv. Where no significant risk of pollution migration into Class I or II-A areas exists;
- v. Where a reliance on natural attenuation processes can be relied on over the vast majority of the area for the restoration of ground water quality for criteria identified pursuant to (e)2i above and does not pose a significant risk to public health, safety and welfare; and
- vi. Where the reclassification requirements of N.J.A.C. 7:9C-1.10 are met.

3. Class II-B Classification Areas-(Reserved)

- (f) The Class III ground waters are not suitable for potable water due to natural hydrogeologic characteristics or natural water quality. Class III includes geologic formations or units that are aquitards or have a natural quality that is unsuitable for conversion to potable water (for example, saline ground water).

1. Class III-A ground water consists of ground water in those aquitards that are described below. The primary designated use for Class III-A ground water is the release or transmittal of ground water to adjacent classification areas and surface water, as relevant. Secondary designated uses in Class III-A include any reasonable uses. Class III-A ground water includes portions of the saturated zones (that meet the criteria below) of the Woodbury Formation, Merchantville Formation, Marshalltown Formation, Navesink Formation, Hornerstown Formation, aquitard formations of the Potomac-Raritan-Magothy aquifer system and the Kirkwood aquifer system, portions of the glacial moraine and glacial lake deposits, and other geologic units having the characteristics of an aquitard, excepting Class I areas. These named aquitards (excluding glacial units) outcrop approximately in municipalities depicted in Figure 2 in the Appendix. Class III-A areas shall have the following characteristics:
 - i. Average at least 50 feet in thickness within the Class III-A area;
 - ii. Have a typical hydraulic conductivity of approximately 0.1 ft/day or less within the Class III-A area; and
 - iii. Have an areal extent within the Class III-A area of at least 100 acres.
2. Any interested party may provide evidence to the Department to demonstrate that an area meets the descriptive criteria of Class III-A. Upon review and verification of such evidence the Department may provide concurrence that the Class III-A classification applies to the area of interest.
3. Class III-B ground water consists of all geologic formations or units which contain ground water having natural concentrations or regional concentrations (through the action of salt-water intrusion) exceeding 3,000 mg/l Chloride or 5,000 mg/l Total Dissolved Solids, or where the natural quality of ground water is otherwise not suitable for conversion to potable uses. The designated uses for Class III-B ground water consist of any reasonable uses for such ground water other than potable water, using water of existing quality. The classification area includes ground water in parts of formations as indicated in Figures 3 through 5 in the Appendix.
4. Class III-B areas are subject to field verification wherever necessary. Areas not indicated on the maps may also qualify as Class III-B, subject to Department concurrence through an applicable regulatory program. The precise borders of Class III-B areas shall be confirmed using site specific data in the context of applicable regulatory programs. Any interested party may provide evidence to the Department to demonstrate that an area meets the descriptive criteria of Class III-B. Upon review and verification of such evidence the Department may provide concurrence that the Class III-B classification applies to the area of interest.

7:9C-1.6 Exceptions to the classification system

- (a) The Department may establish a Classification Exception Area only when the Department determines that constituent standards for a given classification are not being met or will not be met in a localized area due to: natural quality; localized effects of a discharge approved through a NJPDES permit action; pollution caused by human activity within a contaminated site as defined by the Department in the context of an applicable regulatory program (for example, Site Remediation Program); or an ACL as approved by the Department pursuant to NJPDES. In the context of an applicable regulatory program, the Department shall determine or describe appropriate boundaries for each Classification Exception Area and include the written description of the boundaries in the appropriate permit action along with specifications as to which constituents the exception applies. Classification Exception Areas may only be established when constituent standards are not being met or will not be met due to the conditions set forth above and shall not be established for the purpose of sanctioning violations of constituent standards.
- (b) Where natural quality for any constituent contravenes the criteria established in N.J.A.C. 7:9C-1.7 such that the primary designated use is not viable within a limited area, the Department may establish a Classification Exception Area within which the Department shall define appropriate designated uses and constituent standards, based upon the natural quality. Such Classification Exception Areas shall remain in effect as long as the primary designated use of the original classification area is not viable using ground water at natural quality.
- (c) Where the Department defines, through a NJPDES permit action, an area of temporary noncompliance with specific constituent standards related to the localized effects of a permitted discharge, the ground water within that area of noncompliance shall be a Classification Exception Area for those constituents only. All other constituent standards shall apply within the Classification Exception Area. All designated uses in these Classification Exception Areas will be suspended during the life of the Classification Exception Area. Constituent standards of the surrounding classification area shall apply at the perimeter of the Classification Exception Area for the specified constituents. The Classification Exception Area shall have the same life as the approved NJPDES permit action, after which the original classification, designated uses and constituent standards shall apply.
- (d) Where a discharge has resulted or will result in localized ground water quality that contravenes one or more constituent standards, the Department may define that area as a Classification Exception Area for specified constituents pursuant to (or in accordance with) a NJPDES permit action or the remediation of a contaminated site in the context of an applicable regulatory program. All other constituent standards shall apply within the Classification Exception Area. All designated uses in each Classification Exception Area will be suspended during the life of the Classification Exception Area. Constituent standards of the surrounding classification area shall apply at the perimeter of the Classification Exception Area for the specified constituents. The Department shall restrict or require the restriction of potable ground water uses within any Classification Exception Area where there is or will be an exceedance of the Primary Drinking Water Quality Standards (in N.J.A.C. 7:10). Where the Department defines the Classification Exception Area through a NJPDES permit action, the Classification Exception Area shall have the same life as the

approved NJPDES permit action, after which the original classification, designated uses and constituent standards shall apply. Other regulatory actions creating the Classification Exception Area shall specify the longevity of the exception, after which the original classification, designated uses and constituent standards shall be applicable.

7:9C-1.7 Ground water quality criteria

- (a) Ground water quality criteria for Class I-A areas are the natural quality for each constituent. Class I-A is a nondegradation classification where natural quality is to be maintained or restored. The Department shall not approve any discharge to ground water or approve any human activity which results in a degradation of natural quality within a Class I-A classification area.

- (b) Ground water quality criteria for Class I-PL are as follows:
 - 1. Within Class I-PL (Preservation Area), ground water quality criteria shall be the natural quality for each constituent. Class I-PL (Preservation Area) is a nondegradation classification in which natural quality shall be maintained or restored. The Department shall not approve any discharge or any other activity which would result in the degradation of natural quality within a Class I-PL (Preservation Area) classification area. However, the provisions of this paragraph (b)1 shall not apply to activities that are in conformance with N.J.A.C. 7:50-6 et seq.
 - 2. Ground water quality criteria for Class I-PL (Protection Area) shall be the background water quality. The Department shall not approve any discharge or any other activity which would result in the degradation of background water quality in the Class I-PL (Protection Area) classification area. However, the provisions of this paragraph (b)2 shall not apply to activities that are in conformance with N.J.A.C. 7:50-6 et seq.
 - 3. The Department shall not approve any discharge to ground water within the Class I-PL classification area which results in a violation of the Surface Water Quality Standards applicable to the Pinelands National Reserve, as established in N.J.A.C. 7:9B or successor rules.

- (c) Ground water quality criteria for Class II-A areas are established as follows:
 - 1. Specific criteria for ground water quality in Class II-A areas are listed in Appendix Table 1.
 - 2. The Department may establish an interim specific criterion, pursuant to (c)3 below, for a constituent not listed in Appendix Table 1.
 - i. The Department shall maintain and make available to the public on its website and by request a listing of all interim specific criteria and the supplemental information used in their derivation.

- ii. Interim specific criteria shall be replaced with specific criteria as soon as reasonably possible by rule.
3. The Department shall establish ground water quality criteria as follows:
- i. If the Department promulgates in the Safe Drinking Water Act rules at N.J.A.C. 7:10 a maximum contaminant level (MCL) for a constituent, the health-based level used to establish the MCL shall be the specific ground water quality criterion for the constituent.
 - ii. For all other constituents, the Department shall develop ground water quality criteria for Class II-A ground water based upon the weight of evidence available regarding each constituent's carcinogenicity, toxicity, public welfare or organoleptic effects, as appropriate for the protection of potable water, pursuant to (c)4 below.
4. Except as provided at (c)4iv and v below, the Department shall use the equations, data sources and conventions at (c)4i through iii below to derive specific and interim specific ground water quality criteria:
- i. For constituents classified as carcinogens, the criteria shall be derived using the following equation:

$$\text{Criterion (ug/L)} = \frac{\text{Upper Bound Lifetime Excess Cancer Risk} \times \text{Carcinogenic Slope Factor}}{\text{Average Adult Weight} \times \text{Assumed Daily Water Consumption}} \times \text{Conversion Factor}$$

Where the default values are:

- Average Adult Weight = 70 kg
- Assumed Daily Water Consumption = two liters per day
- Upper Bound Lifetime Excess Cancer Risk = 1×10^{-6}
- Conversion Factor = 1,000 ug/mg
- Carcinogenic Slope Factor = value from the United States Environmental Protection Agency (USEPA) Integrated Risk Information System (IRIS) data base, <http://www.epa.gov/iris/>, incorporated herein by reference, as $(\text{mg/kg/day})^{-1}$

- ii. For constituents categorized as non-carcinogens and for constituents classified as carcinogens for which no carcinogenic slope factor is available, the criterion shall be derived using the following equation:

$$\text{Criterion (ug/L)} = \frac{\text{Reference Dose} \times \text{Average Adult Weight}}{\text{Assumed Daily}} \times \frac{\text{Conversion Factor}}{\text{Uncertainty}} \times \text{Relative Source Contribution}$$

Water Consumption Factor

Where the default values are:

Average Adult Weight	= 70 kg
Relative Source Contribution	= 20 Percent
Assumed Daily Water Consumption	= two liters per day
Conversion Factor	= 1,000 $\mu\text{g}/\text{mg}$
Reference Dose	= value from the USEPA IRIS data base, http://www.epa.gov/iris/ , incorporated herein by reference, as (mg/kg/day)
Uncertainty Factor	= 10 for carcinogens for which no carcinogenic slope factor is applicable; 1 for non-carcinogens

- iii. The criteria derived by the equations in this paragraph shall be rounded to one significant figure.
 - iv. If the Department determines, based on constituent-specific factors and/or data, as well as applicable USEPA guidance, generally accepted scientific evidence and methodologies, and/or peer-reviewed sources of information, that use of an alternative value(s) is more suitable than a default value in the equation at (c)4i or ii above for the derivation of a particular specific or interim specific criterion, the Department shall derive the criterion using the alternative value(s). The Department will explain the basis for using any alternative value in, as applicable, the supplemental information accompanying an interim specific criterion made available to the public on the Department’s website in accordance with (c)2i above, or in the Summary statement of the rulemaking for a specific criterion.
 - v. If the Department determines, based on constituent-specific factors and/or data, as well as applicable USEPA guidance, generally accepted scientific evidence and methodologies, and/or peer-reviewed sources of information, that use of a modified equation is more suitable than the equation at (c)4i or ii above for the derivation of a particular specific or interim specific criterion, the Department shall derive the criterion using the modified equation. The Department will explain the basis for using a modified equation in, as applicable, the supplemental information accompanying an interim specific criterion made available to the public on the Department’s website in accordance with (c)2i above, or in the Summary statement of the rulemaking for a specific criterion.
5. The Department shall publish in the New Jersey Register a notice of administrative change subsequent to (the effective date of this amendment):
- i. To modify or add a new specific criterion to Appendix Table 1 when the Department promulgates in the Safe Drinking Water Act rules at N.J.A.C. 7:10 a new or revised maximum contaminant level (MCL) for a ground water constituent; or

- ii. To modify a specific criterion in Appendix Table 1 where the USEPA revises the carcinogenic slope factor or reference dose data contained in the Integrated Risk Information System (IRIS) database on which a specific ground water quality criterion in Appendix Table 1 is based.
 - iii. The notice of administrative change shall identify the constituent, the basis for the administrative change and the revised criterion to be listed in Appendix Table 1.
6. For a Synthetic Organic Chemical not listed in Appendix Table 1, the applicable interim generic criterion in Appendix Table 2 shall apply until an interim specific criterion is developed or a specific criterion is promulgated in accordance with this subsection.
- (d) The ground water quality criteria for Class II-B ground waters shall be the Class II-A criteria.
- (e) The ground water quality criteria for Class III-A areas shall be the criteria of the most stringent classification for vertically or horizontally adjacent ground waters that are not Class III-A, unless the Department concludes (in the context of an applicable regulatory program) that there is no significant potential for the migration of ground water pollutants to that classification area. If there is significant potential for pollutant migration, the criteria shall be those of the classification area determined to be downgradient of the Class III-A area. If there is no significant potential for pollutant migration, criteria shall be determined for such Class III-A areas on a case by case basis in the context of applicable regulatory programs. In each case where there is no significant potential for pollutant migration, the criteria shall be no more stringent than necessary to ensure that there will be no:
1. Impairment of existing uses of the ground water;
 2. Resulting violation of Surface Water Quality Standards;
 3. Release of pollutants to the ground surface, structures or air in concentrations that pose a threat to human health;
 4. Reasonable potential for a change in hydraulic gradient that could cause pollutants to migrate from the Class III-A area to any classification area other than Class III.
- (f) The ground water quality criteria for Class III-B areas shall be determined on an area by area basis in response to case by case needs, in the context of applicable regulatory programs. In each case, the criteria shall be no more stringent than necessary to ensure that there will be no:
1. Impairment of existing uses of ground water;
 2. Resulting violation of Surface Water Quality Standards;
 3. Release of pollutants to the ground surface, structures or air in concentrations that pose a threat to human health;

4. Violation of constituent standards for downgradient classification areas to which there is a significant potential for migration of ground water pollutants.
- (g) Where ground water that receives pollutants from a discharge(s) subsequently flows to surface waters, the Department shall regulate such discharges as necessary so as not to exceed the Surface Water Quality Standards applicable to that body of surface water. The discharger may request application of only the ground water quality standards by showing, to the satisfaction of the Department, and in the context of the applicable regulatory procedure, that the flow of ground water pollutants into the surface water will not cause a violation of the Surface Water Quality Standards.
 - (h) For constituents for which specific or interim specific criteria have been derived, the Department may evaluate potential toxicological interactions between or among constituents in ground water by the sum of the risk levels of constituents with health-based criteria that are based on carcinogenic risk, and by utilizing the hazard index approach described in the USEPA Guidelines for the Health Risk Assessment of Chemical Mixtures (51 FR 34014 (1986), and any subsequent revisions) for non-carcinogens. Additional actions and more stringent criteria may be required when either of the following conditions exists:
 1. The total risk level for all carcinogens present in ground water exceeds 1×10^{-4} ; or
 2. There is a Hazard Index of greater than one for non-carcinogenic effects.
 - (i) The Department shall regulate discharges for compliance with each specific, interim specific and generic criterion applicable to the discharge pursuant to this section.

7:9C-1.8 Antidegradation policy

- (a) The Department shall protect existing ground water quality that is better than criteria from significant degradation. The Department shall not approve any further degradation of ground water quality where background water quality contravenes the criteria.
- (b) The antidegradation policy at (a) above shall be implemented as follows:
 1. The Department shall not approve a new or expanded discharge to Class I ground water if the discharge would result in the degradation of natural quality of the ground water, unless the discharge is to Class I-PL ground water and the project or activity associated with the discharge is in conformance with N.J.A.C. 7:50-6.
 2. The Department shall not approve a new or expanded discharge to ground water in the Highlands preservation area unless the project or activity associated with the discharge conforms with the Highlands Water Protection and Planning Act Rules, N.J.A.C. 7:38. "Highlands preservation area" means that portion of the Highlands region so designated by N.J.S.A. 13:20-7b.

3. Excluding those in the Highlands preservation area subject to (b)2 above, the Department shall not approve a discharge from a new or expanded domestic treatment works to Class II or Class III ground water that requires a water quality management plan amendment pursuant to N.J.A.C. 7:15 unless the Department determines, through the plan amendment process, that existing ground water quality will be maintained. A nitrate concentration of 2 mg/L, which is representative of the average existing ground water quality Statewide, shall be used in determining that existing ground water quality is maintained on a HUC 11 basis.
4. Excluding those in the Highlands preservation area subject to (b)2 above, the Department shall not approve a discharge from a new or expanded domestic treatment works to Class II or Class III ground water that requires a NJPDES discharge to ground water permit pursuant to N.J.A.C. 7:14A unless the Department determines, through the NJPDES permit process, that the total nitrate load to the property served by the treatment works, when expressed as a concentration, shall not exceed 6 mg/L nitrate. The nitrate concentration of 6 mg/L nitrate represents half of the sum of 2 mg/L nitrate, which is representative of the average existing ground water quality Statewide, and the ground water quality criterion for nitrate of 10 mg/L (that is, 10,000 ug/L) set forth in Appendix Table 1.
5. Excluding those in the Highlands preservation area subject to (b)2 above, the Department shall not approve a discharge from a new or expanded industrial treatment works to Class II or Class III ground water that requires a NJPDES industrial discharge to ground water permit pursuant to N.J.A.C. 7:14A unless the Department determines, through the NJPDES permit process, that the total load of each constituent discharged to the property served by the treatment works, when expressed as a concentration, shall not exceed half of the sum of background water quality for that constituent and the applicable ground water quality criterion, where background water quality does not exceed such criterion.

7:9C-1.9 Constituent standard modifications and practical quantitation levels

- (a) When constituents at background water quality exceed the criteria in N.J.A.C. 7:9C-1.7, the Department shall consider the following modifications in the development of constituent standards in the context of applicable regulatory programs:
 1. For discharges that derive their source water from directly upgradient of the discharge, the constituent standards shall not be more stringent than the background water quality (that is, the source water quality);
 2. For other discharges:
 - i. In areas where the criteria for the constituent are exceeded within the area due to natural quality, the constituent standards shall be established as the background water quality.

- ii. In other areas, the constituent standards shall be established such that the volume and concentration of ground water exceeding the criteria are not increased by discharges.
- (b) The Department may define Classification Exception Areas as provided for in N.J.A.C. 7:9C-1.6 within which the provisions of N.J.A.C. 7:9C-1.7, 1.8 and (a) above do not apply regarding specified constituents.
- (c) Where a constituent standard (the criterion as adjusted by the antidegradation policy and applicable criteria exceptions) is of a lower concentration than the relevant PQL (in Appendix Table 1), the Department shall not (in the context of an applicable regulatory program) consider the discharge to be causing a contravention of that constituent standard so long as the concentration of the constituent in the affected ground water is less than the relevant PQL.
1. Where interim specific criteria are derived by the Department, interim PQLs shall also be derived for those constituents as appropriate.
 2. Specific PQLs are not provided for interim generic ground water criteria. The numeric interim generic ground water criteria shall be used as the constituent standard unless a PQL applicable for an interim generic criteria is approved by the Department and published with the interim generic criteria in accordance with (c)3 below.
 3. Selection and derivation of PQLs shall be as follows:
 - i. PQLs shall be rounded to one significant figure using standard methods.
 - ii. PQLs listed in Appendix Table 1 were, and additional PQLs shall be, derived or selected for each constituent using the most sensitive analytical method providing positive constituent identification from (c)3ii(1) and (2) below, in that order of preference:
 - (1) PQLs derived from Method Detection Limit (MDL) data from the New Jersey Department of Health and Senior Services Laboratory (DHSS) multiplied by 5;
 - (2) PQLs derived from laboratory performance data that has been evaluated by the Department using the method of Sanders, Lippincott and Eaton (See Sanders, P. et al., "Determining Quantitation Levels for Regulatory Purposes." J. Amer. Water Works Assoc., 1996, March pp. 104-114).
 - iii. The Department may approve an alternative PQL. An alternative PQL shall be approved when the evidence (in the context of an applicable regulatory program) establishes that:
 - (1) Based upon site-specific, ground water matrix considerations, a PQL listed in Appendix Table 1 for a constituent is not valid;

- (2) An alternative PQL is more appropriate for that constituent with regard to compliance with this chapter;
 - (3) The alternative PQL has been determined through rigorous laboratory analysis using methods appropriate to the site-specific ground water matrix and constituent(s), including, without limitation, the derivation of an MDL using the methodology specified by Appendix B of 40 CFR Part 136; and
 - (4) The alternative PQL does not result in nondetection of any target constituent due to masking effects of other target constituents, non-target constituents, or natural substances.
- iv. The approval of an alternative PQL shall be applicable to the regulation of ground water quality affected by the discharge for which it is derived, and its approval and utilization shall be subject to the same procedural requirements as any other aspect of the regulatory decision.
4. Where ground water pollutants affect surface water quality within the meaning of N.J.A.C. 7:9C-1.7(g), more sensitive analytical techniques such as bioassays or bioaccumulation assays may be required by the Department.

7:9C-1.10 Procedures for reclassification of ground water

- (a) Reclassification of ground water areas shall be accomplished through rulemaking in accordance with the Administrative Procedure Act, N.J.S.A. 52:14B-1 et seq.
- (b) Any interested person may seek to have any ground water area reclassified by filing a petition with the Department. For the purposes of this subsection, interested persons shall include, but not be limited to:
 - 1. Any State, county or municipal governmental entity with jurisdiction over the area that is proposed for reclassification; and
 - 2. Any person residing or discharging in the area that is proposed for reclassification.
- (c) Petitions shall comply with and shall be reviewed in compliance with N.J.S.A. 52:14B-4 and N.J.A.C. 7:1D-1.1.
- (d) For purposes of this subsection, ground water areas subject to petition for reclassification shall constitute at least a significant portion of one or more geologic units or formations. In no event shall a reclassification area consist only of an area underlying property owned by a single person (except in the case of reclassification to and from Class I-A), an area affected only by one discharge, or an area affected only by a set of discharges owned or controlled by a single person.
- (e) In setting forth the reasons for its petition, the petitioner shall describe the proposed reclassification area (both lateral and vertical), and shall include appropriate ground water

quality and hydrogeologic analyses, as well as statements regarding the environmental, economic and social impacts of the proposed reclassification.

- (f) In order to grant a petition to propose a rule amendment to apply a more stringent classification to a ground water area, the Department must find that the petitioner has established that the subject area has the characteristics of the more stringent classification.
- (g) In order to grant a petition to propose a rule amendment to apply a less stringent classification to a ground water area, the Department must find that the petitioner has established that:
 - 1. The designated use cannot be maintained in the subject area;
 - 2. Based upon an analysis of background water quality of constituent standards in downgradient areas and of ground water flow vectors and gradients, contaminant attenuation, flow barriers and potential for induced movement, the reclassification will not result in significant risk of the following:
 - i. Impairment to existing uses of ground water or significant potential for pollutant migration to downgradient classification areas;
 - ii. Degradation of downgradient surface water quality in violation of the surface water quality standards;
 - iii. Degradation of the quality of source water for public water supply wells in violation of the provisions of N.J.A.C. 7:9C-1.7, 1.8 and 1.9; or
 - iv. Significant threats to public health, safety and welfare; and
 - 3. The subject area has the characteristics of the less stringent classification.
- (h) The petitioner shall provide public notice of the petition by mailing a copy of a summary of the petition, including all subsequent amendments, to:
 - 1. All owners of residences or facilities identified by local health officials or by the petitioner during the preparation of the petition as operators of wells in the subject area;
 - 2. The mayor or governing body, and the planning board and environmental commission of all municipalities in which any part of the subject area is located;
 - 3. All public water systems utilizing ground or surface water from the subject area;
 - 4. All local or county health agencies with jurisdiction over any part of the subject area; and
 - 5. Any other interested party who requests a copy of the petition summary in writing to either the Department or the petitioner.

- (i) The petitioner shall cause public newspaper notice of the petition to be published, in two daily, and one weekly, newspapers (if available) that are distributed in the municipalities of the subject area, which notice shall include a brief summary of the petition.

7:9C-1.11 Severability

If any provision of this chapter or any application of any such provision is held to be invalid, such invalidity shall not affect any other provision or application, and to this end, the provisions of this chapter are declared to be severable.

APPENDIX

Table 1

Specific Ground Water Quality Criteria - Class II-A and Practical Quantitation Levels

Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion*
Acenaphthene	83-32-9	400	10	400
Acetone	67-64-1	6,000	10	6,000
Acetophenone	98-86-2	700	10	700
Acrolein	107-02-8	4	5	5
Acrylamide	79-06-1	0.008	0.2	0.2
Acrylonitrile	107-13-1	0.06	2	2
Adipates (Di(2-ethylhexyl)adipate) (DEHA)	103-23-1	30	3	30
Alachlor	15972-60-	0.4	0.1	0.4
Aldicarb sulfone	1646-88-4	7	0.3	7
Aldrin	309-00-2	0.002	0.04	0.04
Aluminum	7429-90-5	200	30	200
Ammonia (Total)	7664-41-7	3,000	200	3,000
Aniline	62-53-3	6	2	6
Anthracene	120-12-7	2,000	10	2,000
Antimony (Total)	7440-36-0	6	3	6
Arsenic (Total)	7440-38-2	0.02	3	3
Asbestos	1332-21-4	7X10 ⁶ /L>10µm ^a	10 ⁶ f/L>10µm ^a	7X10 ⁶ /L>10µm ^a
Atrazine	1912-24-9	3	0.1	3
Barium**	7440-39-3	6,000	200	6,000
Benz(a)anthracene	56-55-3	0.05	0.1	0.1
Benzene	71-43-2	0.2	1	1
Benzidine	92-87-5	0.0002	20	20
Benzo(a)pyrene (BaP)	50-32-8	0.005	0.1	0.1
Benzo(b)fluoranthene (3,4-	205-99-2	0.05	0.2	0.2
Benzo(k)fluoranthene	207-08-9	0.5	0.3	0.5
Benzoic acid	65-85-0	30,000	50	30,000
Benzyl alcohol	100-51-6	2,000	20	2,000
Beryllium	7440-41-7	1	1	1
alpha-BHC- (alpha-HCH)	319-84-6	0.006	0.02	0.02
beta-BHC (beta-HCH)	319-85-7	0.02	0.04	0.04
gamma-BHC (gamma-HCH/Lindane)	58-89-9	0.03	0.02	0.03
1,1-Biphenyl	92-52-4	400	10	400
Bis(2-chloroethyl) ether	111-44-4	0.03	7	7
Bis(2-chloroisopropyl) ether	108-60-1	300	10	300
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	2	3	3
Bromodichloromethane	75-27-4	0.6	1	1
Bromoform	75-25-2	4	0.8	4
n-Butanol (n-Butyl alcohol)	71-36-3	700	20	700
tertiary-Butyl alcohol (TBA)	75-65-0	100	2	100
Butylbenzyl phthalate	85-68-7	100	1	100
Cadmium	7440-43-9	4	0.5	4

Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion*
Camphor	76-22-2	1,000	0.5	1,000
Caprolactam	105-60-2	4,000	60	4,000
Carbofuran	1563-66-2	40	0.5	40
Carbon disulfide	75-15-0	700	1	700
Carbon tetrachloride	56-23-5	0.4	1	1
Chlordane	57-74-9	0.01	0.5	0.5
Chloride	16887-00-	250,000	2,000	250,000
4-Chloroaniline (p-Chloroaniline)	106-47-8	30	10	30
Chlorobenzene (Monochlorobenzene)	108-90-7	50	1	50
1-Chloro-1,1-difluoroethane	75-68-3	100,000	500	100,000
Chloroform	67-66-3	70	1	70
2-Chloronaphthalene	91-58-7	600	10	600
2-Chlorophenol	95-57-8	40	20	40
Chlorpyrifos	2921-88-2	20	0.1	20
Chromium (Total)	7440-47-3	70	1	70
Chrysene	218-01-9	5	0.2	5
Cobalt	7440-48-4	100	0.5	100
Color	NA	10 CU	5 CU	10 CU
Copper	7440-50-8	1,300	4	1,300
Cresols (mixed isomers)	95-48-7 108-39-4 106-44-5	50	0.1	50
Cumene (Isopropyl benzene)	98-82-8	700	1	700
Cyanide (free Cyanide)	57-12-5	100	6	100
2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7	70	2	70
Dalapon (2,2-Dichloropropionic acid)	75-99-0	200	0.1	200
4,4'-DDD (p,p'-TDE)	72-54-8	0.1	0.02	0.1
4,4'-DDE	72-55-9	0.1	0.01	0.1
4,4'-DDT	50-29-3	0.1	0.1	0.1
Demeton	8065-48-3	0.3	1	1
Dibenz(a,h)anthracene	53-70-3	0.005	0.3	0.3
Dibromochloromethane	124-48-1	0.4	1	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.02	0.02	0.02
Di-n-butyl phthalate	84-74-2	700	1	700
1,2-Dichlorobenzene (ortho)	95-50-1	600	5	600
1,3-Dichlorobenzene (meta)	541-73-1	600	5	600
1,4-Dichlorobenzene (para)	106-46-7	75	5	75
3,3-Dichlorobenzidine	91-94-1	0.08	30	30
1,1-Dichloro-1-fluoroethane	1717-00-6	500	30	500
Dichlorodifluoromethane (Freon 12)	75-71-8	1,000	2	1,000
1,1-Dichloroethane (1,1-DCA)	75-34-3	50	1	50
1,2-Dichloroethane	107-06-2	0.3	2	2
1,1-Dichloroethylene (1,1-DCE)	75-35-4	1	1	1
cis-1,2-Dichloroethylene	156-59-2	70	1	70
trans-1,2-Dichloroethylene	156-60-5	100	1	100
Dichlormid	37764-25-	600	50	600
2,4-Dichlorophenol (DCP)	120-83-2	20	10	20
1,2-Dichloropropane	78-87-5	0.5	1	1
1,3-Dichloropropene (cis and trans)	542-75-6	0.4	1	1

Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion*
Dieldrin	60-57-1	0.002	0.03	0.03
Diethyl phthalate	84-66-2	6,000	1	6,000
Diisodecyl phthalate (DIDP)	26761-40-	100	3	100
Diisopropyl ether (DIPE)	108-20-3	20,000	5	20,000
2,4-Dimethyl phenol	105-67-9	100	20	100
4,6-Dinitro-o-cresol	534-52-1	0.7	0.03	0.7
2,4-Dinitrophenol	51-28-5	10	40	40
2,4-Dinitrotoluene/2,6-Dinitrotoluene Mix	25321-14-	0.05	10	10
Di-n-octyl phthalate	117-84-0	100	10	100
Dinoseb	88-85-7	7	2	7
1,4-Dioxane	123-91-1	0.4	0.1	0.4
Diphenyl ether	101-84-8	100	10	100
Diphenylamine	122-39-4	200	20	200
1,2-Diphenylhydrazine	122-66-7	0.04	20	20
Diquat	85-00-7	20	2	20
Endosulfan (alpha and beta)	115-29-7	40	0.1	40
alpha-Endosulfan (Endosulfan I)	959-98-8	40	0.02	40
beta-Endosulfan (Endosulfan II)	33213-65-	40	0.04	40
Endosulfan sulfate	1031-07-8	40	0.02	40
Endothall	145-73-3	100	60	100
Endrin	72-20-8	2	0.03	2
Epichlorohydrin	106-89-8	4	5	5
Ethion	563-12-2	4	0.5	4
Ethyl acetate	141-78-6	6,000	10	6,000
Ethylbenzene	100-41-4	700	2	700
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.0004	0.03	0.03
Ethylene glycol	107-21-1	300	200	300
Ethylene glycol monomethyl ether	109-86-4	7	20,000	20,000
Ethyl ether	60-29-7	1,000	50	1,000
2-Ethyl-1-hexanol	104-76-7	200	0.5	200
Fluoranthene	206-44-0	300	10	300
Fluorene	86-73-7	300	1	300
Fluoride	7782-41-4	2,000	500	2,000
Foaming agents (ABS/LAS)	NA	500	0.5	500
Formaldehyde	50-00-0	100	30	100
Glyphosate	1071-83-6	700	30	700
Hardness (as CaCO3)	NA	250,000	10,000	250,000
Heptachlor	76-44-8	0.008	0.05	0.05
Heptachlor epoxide	1024-57-3	0.004	0.2	0.2
Hexachlorobenzene	118-74-1	0.02	0.02	0.02
Hexachlorobutadiene	87-68-3	0.4	1	1
Hexachlorocyclopentadiene	77-47-4	40	0.5	40
Hexachloroethane	67-72-1	2	7	7
Hexahydro-1,3,5-trinitro-1,3,5-triazine	121-82-4	0.3	0.5	0.5
Hexane (n-Hexane)	110-54-3	30	5	30
2-Hexanone	591-78-6	40	1	40
Indeno (1,2,3-cd)pyrene	193-39-5	0.05	0.2	0.2
Iron	7439-89-6	300	20	300
Isophorone	78-59-1	40	10	40

Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion*
Lead (Total)	7439-92-1	5	5	5
Malathion	121-75-5	100	0.6	100
Manganese	7439-96-5	50	0.4	50
Mercury (Total)	7439-97-6	2	0.05	2
Methanol	67-56-1	4,000	70	4,000
Methoxychlor	72-43-5	40	0.1	40
Methyl acetate	79-20-9	7,000	0.5	7,000
Methyl bromide (Bromomethane)	74-83-9	10	1	10
2-(2-Methyl-4-chlorophenoxy) propionic	93-65-2	7	0.5	7
Methylene chloride	75-09-2	3	1	3
Methyl ethyl ketone (2-Butanone) (MEK)	78-93-3	300	2	300
2-Methylnaphthalene	91-57-6	30	10	30
Methyl Salicylate	119-36-8	4,000	50	4,000
Methyl tertiary butyl ether (MTBE)	1634-04-4	70	1	70
Metolachlor	51218-45-	100	0.5	100
Mirex	2385-85-5	0.1	0.08	0.1
Molybdenum	7439-98-7	40	2	40
Naphthalene	91-20-3	300	2	300
Nickel (Soluble salts)	7440-02-0	100	4	100
Nitrate	14797-55-	10,000	100	10,000
Nitrite	14797-65-	1,000	10	1,000
Nitrate and Nitrite	NA	10,000	10	10,000
Nitrobenzene	98-95-3	4	6	6
N-Nitrosodimethylamine	62-75-9	0.0007	0.8	0.8
N-Nitrosodiphenylamine	86-30-6	7	10	10
N-Nitrosodi-n-propylamine (Di-n-	621-64-7	0.005	10	10
Odor	NA	3 ^b	NA	3 ^b
Oil & Grease & Petroleum Hydrocarbons	NA	None Noticeable	NA	None Noticeable
Oxamyl	23135-22-	200	1	200
Parathion	56-38-2	4	0.08	4
PBBs (Polybrominated biphenyls)	67774-32-	0.004	0.001	0.004
PCBs (Polychlorinated biphenyls)	1336-36-3	0.02	0.5	0.5
Pentachlorophenol	87-86-5	0.3	0.1	0.3
Perchlorate	14797-73-	5	3	5
Perfluoronanoic acid (PFNA)***	375-95-1	0.013	0.005	0.013
pH	NA	6.5-8.5	NA	6.5-8.5
Phenol	108-95-2	2,000	10	2,000
Picloram	1918-02-1	500	1	500
Pyrene	129-00-0	200	0.1	200
Salicylic acid	69-72-7	80	30	80
Selenium (Total)	7782-49-2	40	4	40
Silver	7440-22-4	40	1	40
Simazine	122-34-9	0.3	0.8	0.8
Sodium	7440-23-5	50,000	400	50,000
Strontium	7440-24-6	2,000	5	2,000
Styrene	100-42-5	100	2	100
Sulfate	14808-79-	250,000	5,000	250,000
Taste	NA	None	NA	None Objectionable
TDS (Total dissolved solids)	NA	500,000	10,000	500,000

Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion*
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	0.0000002	0.00001	0.00001
1,1,1,2-Tetrachloroethane	630-20-6	1	1	1
1,1,2,2-Tetrachloroethane	79-34-5	1	1	1
Tetrachloroethylene (PCE)	127-18-4	0.4	1	1
2,3,4,6-Tetrachlorophenol	58-90-2	200	3	200
Tetrahydrofuran	109-99-9	10	10	10
Thallium	7440-28-0	0.5	2	2
Toluene**	108-88-3	600	1	600
Toxaphene	8001-35-2	0.03	2	2
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon	76-13-1	20,000	0.3	20,000
2,4,5-TP (2-(2,4,5-	93-72-1	60	0.6	60
1,2,4-Trichlorobenzene	120-82-1	9	1	9
1,1,1-Trichloroethane (TCA)	71-55-6	30	1	30
1,1,2-Trichloroethane	79-00-5	3	2	3
1,1,1-Trifluoroethane	420-46-2	5,000	60	5,000
Trichloroethene (TCE)	79-01-6	1	1	1
Trichlorofluoromethane (Freon 11)	75-69-4	2,000	1	2,000
2,4,5-Trichlorophenol	95-95-4	700	10	700
2,4,6-Trichlorophenol	88-06-2	1	20	20
1,2,3-Trichloropropane (TCP)***	96-18-4	0.0005	0.03	0.03
2,4,6-Trinitrotoluene (TNT)	118-96-7	1	0.3	1
Tricresyl phosphate (mixed isomers)	1330-78-5 563-04-2 78-32-0	3	0.1	3
Tri-ortho-cresyl phosphate	78-30-8	3	0.1	3
Vanadium pentoxide	1314-62-1	60	1	60
Vinyl acetate	108-05-4	7,000	5	7,000
Vinyl chloride	75-01-4	0.08	1	1
Xylenes (Total)	1330-20-7	1,000	2	1,000
Zinc	7440-66-6	2,000	10	2,000
Microbiological criteria ^m , Radionuclides & Turbidity	Standards promulgated in the Safe Drinking Water Act rules (N.J.A.C. 7:10)			

Explanation of Terms:

* = Ground water quality criteria and PQLs are expressed as micrograms per liter ($\mu\text{g/L}$) unless otherwise noted. Table 1 criteria are all maximum values unless clearly indicated as a range for which the minimum value is to the left and the maximum value is to the right.

** = revised via administrative change (see 39 N.J.R. 3538(a)).

*** = revised via administrative change (see 50 N.J.R. 1963(a)).

PQL = Practical quantitation level as defined in N.J.A.C. 7:9C-1.4

CASRN = Chemical Abstracts System Registration Number

NA = not available for this constituent.

a = Asbestos criterion is measured in terms of fibers/liter longer than 10 micrometers ($f/L > 10 \mu\text{m}$)

CU = Standard Cobalt Units

b = Threshold Odor Number

(Total) means the concentration of metal in an unfiltered sample following treatment with hot dilute mineral acid (as defined in "Methods for Chemical Analysis of Water & Wastes", USEPA-600/4-79-020, March 1979) or other digestion defined by the analytical method. However samples that contain less than 1 nephelometric turbidity unit (NTU) and are properly preserved, may be directly analyzed without digestion.

m = Pursuant to prevailing Safe Drinking Water Act rules, any positive result for fecal coliform is in violation of the MCL and is therefore an exceedance of the ground water quality criteria.

Table 2

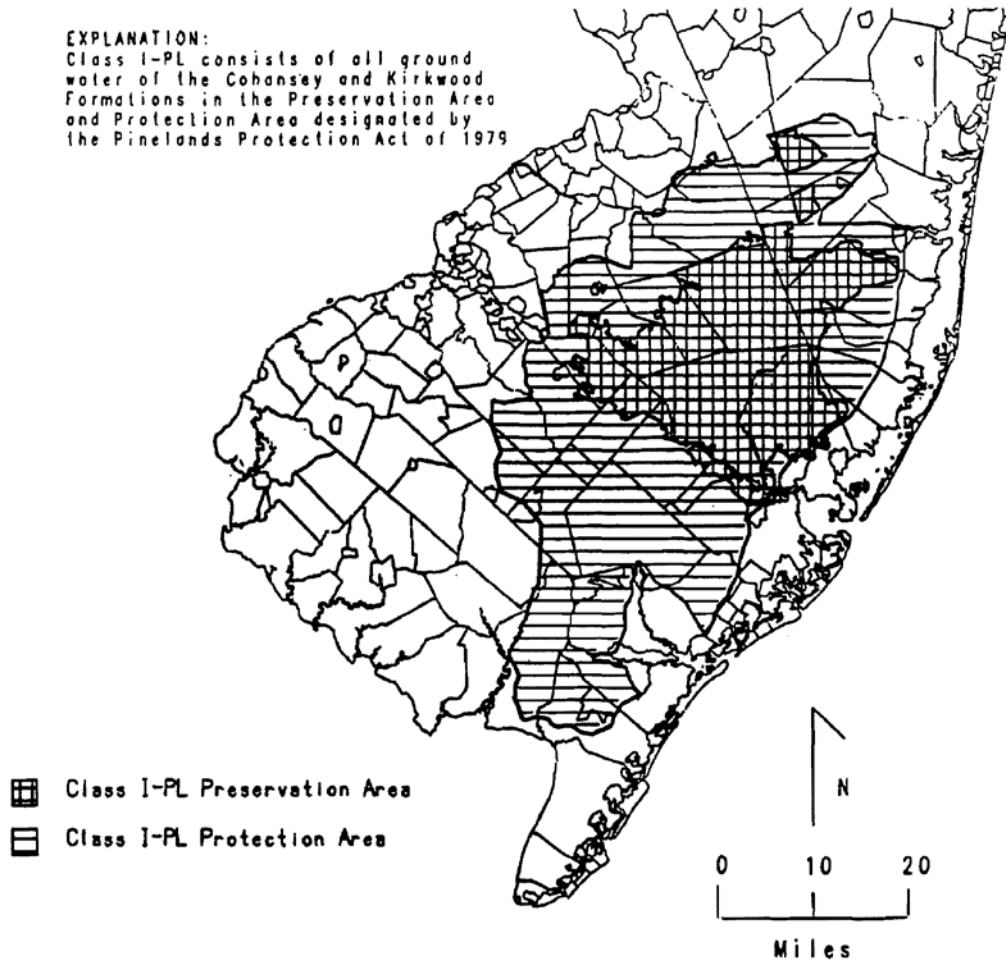
Interim Generic Ground Water Quality Criteria

Interim Generic Criteria--Synthetic Organic Chemicals (SOC)

<u>Constituent</u>	<u>Criteria</u>
SOCs defined as carcinogens in N.J.A.C. 7:9C-1.4 lacking specific or interim specific criteria	5 ug/l each 25 ug/l total
SOCs defined as non-carcinogens in N.J.A.C. 7:9C-1.4 lacking specific or interim specific criteria	100 ug/l each 500 ug/ l total

Figure 1
New Jersey Ground Water Classification System
Class I-PL - New Jersey Pinelands

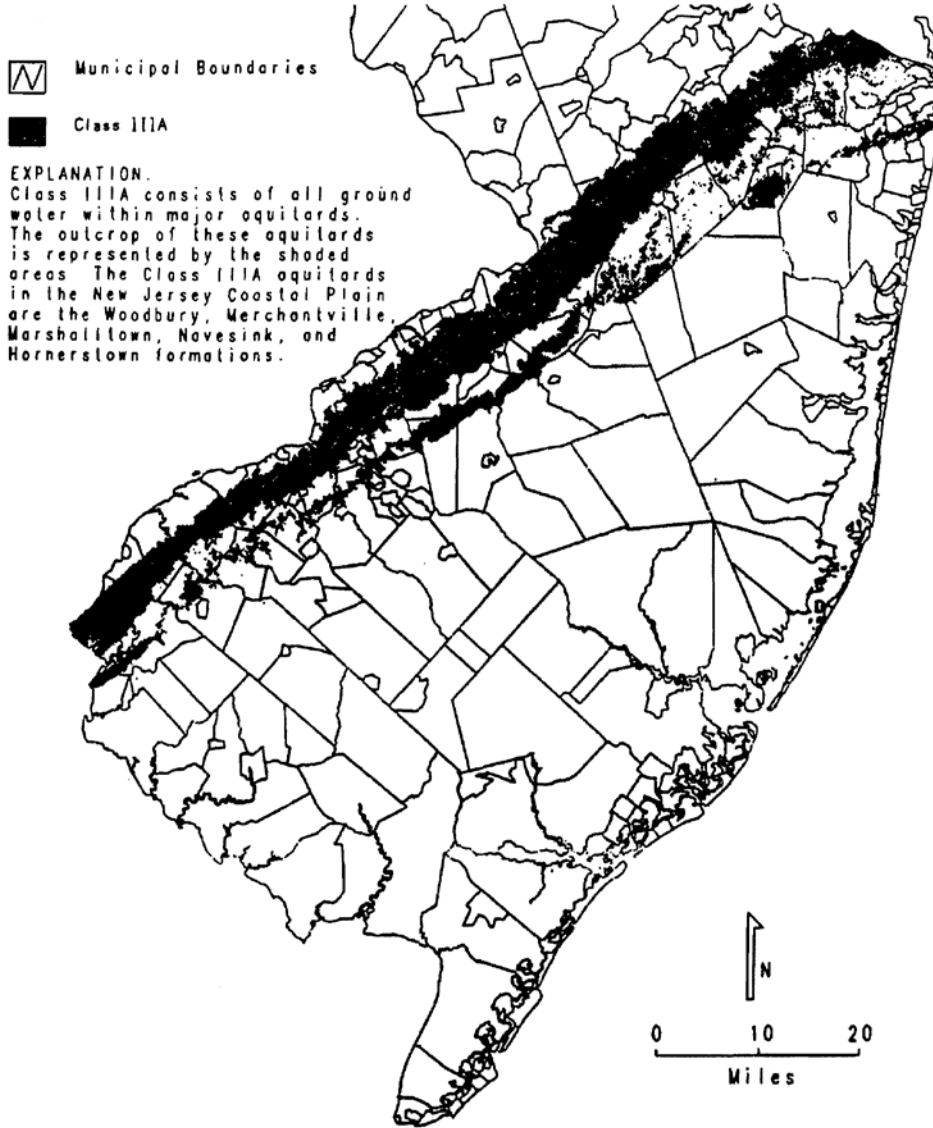
EXPLANATION:
Class I-PL consists of all ground water of the Cohansey and Kirkwood Formations in the Preservation Area and Protection Area designated by the Pinelands Protection Act of 1979



New Jersey Department of Environmental Protection
1990

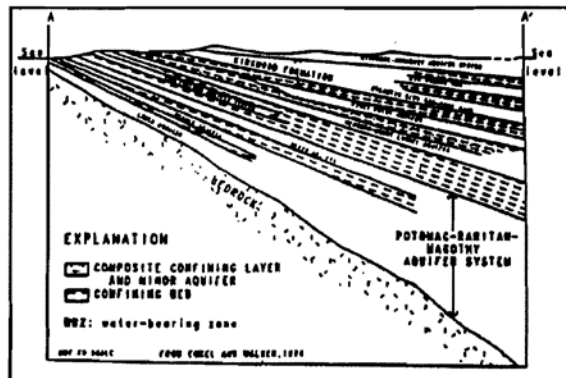
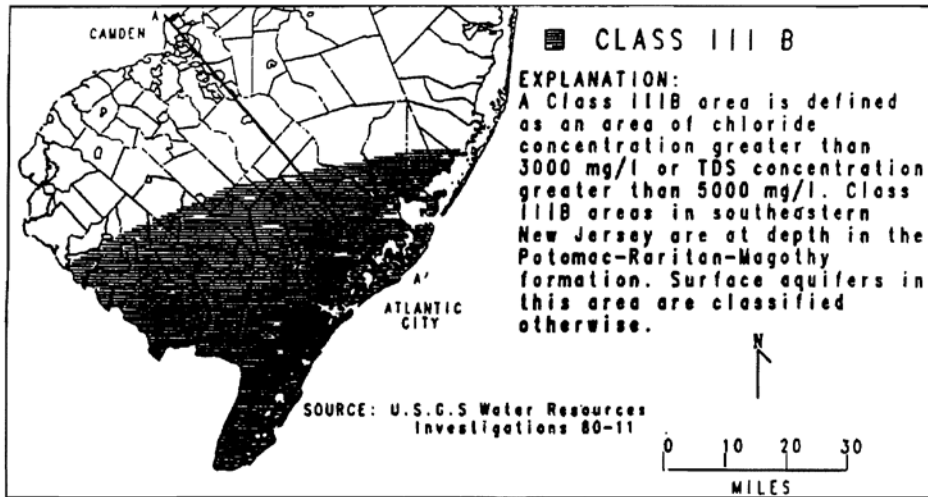
FIGURE 2

New Jersey Ground Water Classification System
Class IIIA - Aquitards of the New Jersey Coastal Plain



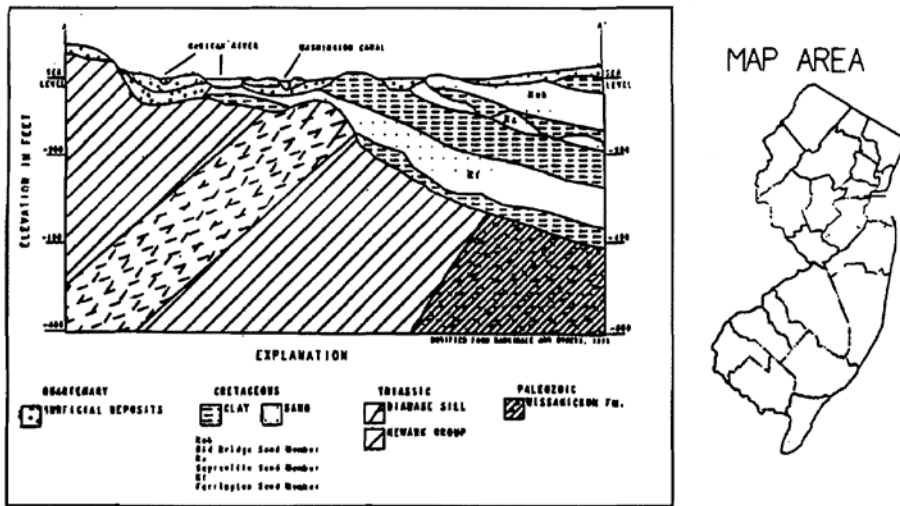
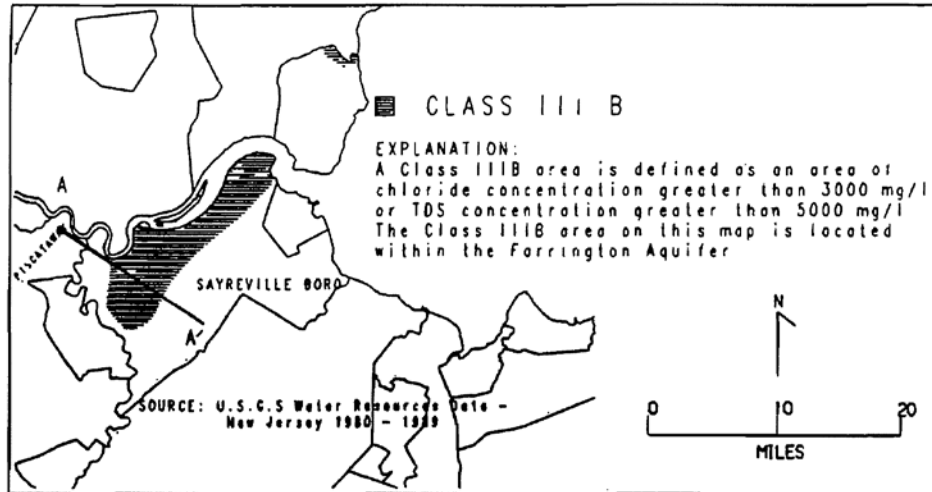
New Jersey Department of Environmental Protection
1990

FIGURE 3
 NEW JERSEY GROUND WATER CLASSIFICATION SYSTEM
CLASS III B
 CRETACEOUS POTOMAC-RARITAN-MAGOTHY FORMATION



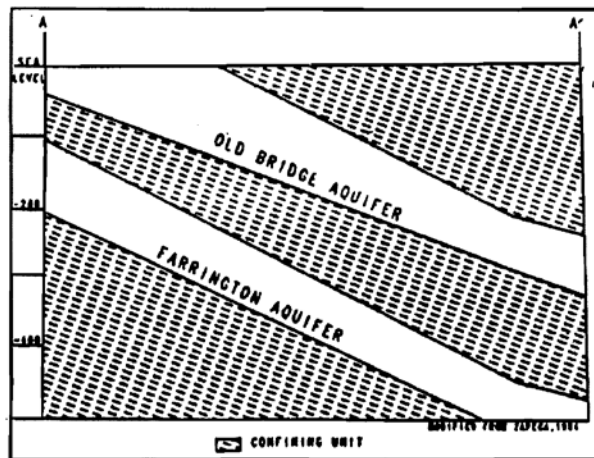
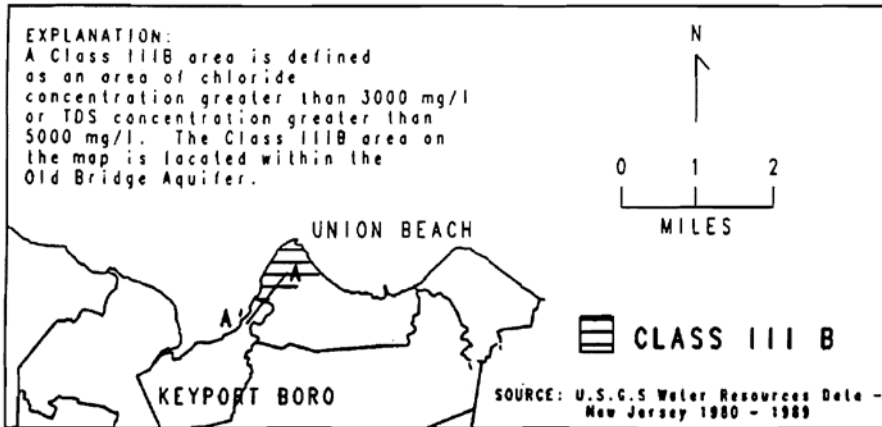
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 1990

FIGURE 4
NEW JERSEY GROUND WATER CLASSIFICATION SYSTEM
CLASS III B
FARRINGTON AQUIFER



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
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FIGURE 5
NEW JERSEY GROUND WATER CLASSIFICATION SYSTEM
CLASS III B
OLD BRIDGE AQUIFER



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ARE COMPILED IN TITLE 7 OF THE NEW JERSEY ADMINISTRATIVE CODE.

N.J.A.C. 7:9C

Ground Water Quality Standards

Statutory Authority: N.J.S.A. 58:10A-1 et seq. and 58:11A-1 et seq.

Last Amended: February 3, 2025 (57 N.J.R. 234(a))

For regulatory history and effective dates, see the New Jersey Administrative Code.

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CHAPTER 9C
GROUND WATER QUALITY STANDARDS

SUBCHAPTER 1. GROUND WATER QUALITY STANDARDS

7:9C-1.1 Scope of chapter

- (a) Unless otherwise provided by statute, this chapter constitutes the rules of the Department of Environmental Protection concerning ground water classification, designated uses of ground water, and ground water quality criteria and constituent standards, pursuant to the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and the Water Quality Planning Act (N.J.S.A. 58:11A-1 et seq.).
- (b) This chapter provides the basis for protection of ambient ground water quality, through the establishment of constituent standards for ground water pollutants. These constituent standards are applicable to the development of: ground water protection standards pursuant to the New Jersey Pollutant Discharge Elimination System (NJPDES; N.J.A.C. 7:14A); ground water remediation standards; and other requirements and regulatory actions applicable to discharges that cause or may cause pollutants to enter the ground waters of the State, including non-point and diffuse sources regulated by the Department. Other relevant laws through which the Ground Water Quality Standards may be applied include, but are not limited to, the Spill Compensation and Control Act (N.J.S.A. 58:10-23.11 et seq.), the Brownfield and Contaminated Site Remediation Act (N.J.S.A. 58:10B-1 et seq.), the Site Remediation Reform Act (N.J.S.A. 58:10C-1 et seq.), the Solid Waste Management Act (N.J.S.A. 13:1E-1 et seq.), the Industrial Site Recovery Act (N.J.S.A. 13:1K-6 et seq.), the Underground Storage of Hazardous Substances Act (N.J.S.A. 58:10A-21 et seq.), the Realty Improvement Sewerage and Facilities Act (N.J.S.A. 58:11-23 et seq.), and the Pesticide Control Act of 1971 (N.J.S.A. 13:1F-1 et seq.).
- (c) This chapter constitutes the Department's primary basis for setting numerical criteria for limits on discharges to ground water and standards for ground water remediation.

7:9C-1.2 Policies

- (a) It is the policy of this State to restore, enhance and maintain the chemical, physical, and biological integrity of its waters, to protect public health, to safeguard fish and aquatic life and scenic and ecological values, and to enhance the domestic, municipal, recreational, industrial and other uses of water.
- (b) Discharges to ground water that subsequently discharges into surface waters shall not be permitted by the applicable regulatory program if such discharges would cause a contravention of surface water quality standards applicable to those surface waters. That is, those discharges must achieve compliance with both these standards and the surface water quality standards (N.J.A.C. 7:9B).
- (c) When existing ground water quality does not meet the constituent standards determined pursuant to N.J.A.C. 7:9C-1.7, 1.8 and 1.9, due to human activities, the Department shall, after a review of relevant and available scientific and technical data, determine in the context of the

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applicable regulatory programs the management actions necessary (including, but not limited to, the requirement of remedial actions) to restore or enhance ground water quality pursuant to the policies of this chapter.

- (d) The Department shall not approve discharges or activities posing a significant risk of discharges, within the jurisdiction of and subject to regulation by the Pinelands Commission, that would contravene the rules of the Pinelands Commission with regard to the protection of ground water or surface water quality.

7:9C-1.3 Construction

This chapter shall be liberally construed to permit the Department to implement its statutory functions.

7:9C-1.4 Definitions

The following words and terms, when used in this subchapter, shall have the following meanings:

"ACL" means alternative concentration limit.

"Agricultural water" means water used for crop production, livestock, horticulture and silviculture.

"Alternative concentration limit" or "ACL" means a constituent standard or narrative description of actions, discharge controls and water quality requirements that is less stringent than the ground water quality requirements of N.J.A.C. 7:9C-1.7, 1.8 and 1.9, due to a Departmental determination pursuant to NJPDES regulations (N.J.A.C. 7:14A-10.8(b)). In order to approve an ACL, the Department must find that the relevant constituent standard(s) cannot be achieved through technologically practicable means.

"Applicable regulatory program" means any of the Department's programs which implement the regulations issued pursuant to the statutes cited in N.J.A.C. 7:9C-1.1(b) or in any other regulations that specifically cite this chapter.

"Aquifer" means a saturated geologic formation(s) or unit(s) which is sufficiently permeable to transmit water to a pumping well in usable and economic quantities. The upper level of an unconfined aquifer may vary over time; "aquifer" applies to the full saturated zone at any time.

"Aquitard" means a hydrogeologic confining unit(s) that exhibits limited permeability, bounding one or more aquifers, that does not readily yield water to wells or springs, but may serve as a storage unit for ground water and may release this water to adjacent ground water units or surface waters. Such confining units are further defined and listed in N.J.A.C. 7:9C-1.5(f)1 or may be established through reclassification under N.J.A.C. 7:9C-1.10.

"Background water quality" means the concentration of constituents in ground water which is determined to exist directly upgradient of a discharge but not influenced by the discharge, or is

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otherwise representative of such concentration of constituents as determined using methods and analyses consistent with the requirements of N.J.A.C. 7:14A-10.11(g).

“Carcinogen” means a constituent capable of inducing a cancer response, including Group A (Human Carcinogen), Group B (Probable Human Carcinogen) or Group C (Possible Human Carcinogen) categorized in accordance with the USEPA Guidelines for Carcinogen Risk Assessment, 51 Fed. Reg. 33992, 1986, incorporated herein by reference, as amended or supplemented.

"Classification area" means the geographic extent (lateral and vertical) of a geologic formation(s) or unit(s) wherein ground water is classified for designated uses, as described in N.J.A.C. 7:9C-1.5.

"Classification exception area" means an area within which one or more constituent standards and designated uses are suspended in accordance with N.J.A.C. 7:9C-1.6.

“Conservation restriction” means the restricting of development on property as that term is defined under the New Jersey Conservation Restriction and Historic Preservation Restriction Act, N.J.S.A. 13:8B-1 et seq.

"Constituent" means a specific chemical substance (that is, element or compound) or water quality parameter (for example, temperature, odor, color).

"Constituent standard" means the required maximum level or concentration or the required range of levels or concentrations (as applicable) for a constituent in a classification area, as established in N.J.A.C. 7:9C-1.7, 1.8 and 1.9(a) and (b). The constituent standards shall be the basis for the Department's regulation of ground water quality effects of past, present or future discharges to ground water or the land surface, pursuant to applicable authorities as defined in N.J.A.C. 7:9C-1.1.

"Conventional water supply treatment" means the chemical and physical treatment of ground water supplies for microbiological contaminants and undesirable naturally occurring substances resulting in treated water that meets all the primary and secondary standards for those constituents stipulated by the New Jersey Safe Drinking Water Act regulations (N.J.A.C. 7:10-12.1 et seq.)

"Criteria" means ground water quality criteria.

"Department" means the New Jersey Department of Environmental Protection.

"Designated use" means a present or potential use of ground water which is to be maintained, restored and enhanced within a ground water classification area, as determined by N.J.A.C. 7:9C-1.5. Designated uses may include any human withdrawal of ground water (for example, for potable, agricultural and industrial water), the discharge of ground water to surface waters of the State which support human use or ecological systems, or the direct support of ecological systems.

"Discharge" means an intentional or unintentional action or omission resulting in the

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releasing, spilling, leaking, pumping, pouring, emitting, emptying or dumping of a pollutant at any time into the waters of the State, onto land or into wells from which it might flow or drain into said waters, or into waters or onto lands outside the jurisdiction of the State, which pollutant enters the waters of the State. "Discharge" includes, without limitation, the release of any pollutant into a municipal treatment works.

"Discharger" means any person, corporation, municipality, government agency or authority or other legal entity, who causes or allows a discharge, either through action or omission.

"Extensive exceedance", as used in N.J.A.C. 7:9C-1.10, means a condition where ground water quality in an area exceeds the criteria of N.J.A.C. 7:9C-1.7 for one or more constituents over the vast majority of the subject area for such constituent(s) and that such exceedances are not attributable to the past or present discharges of a single discharger or any group of active NJPDES permitted discharges.

"FW1" means those surface fresh waters defined as such in the Surface Water Quality Standards, N.J.A.C. 7:9B and shown on maps maintained by the Department.

"Ground water" means the portion of water beneath the land surface that is within the saturated zone.

"Ground water quality criteria" means the designated levels or concentrations of constituents that, when exceeded, will prohibit or significantly impair a designated use of water. Criteria may be "specific" (listed for each constituent in Appendix Table 1), "interim specific" (derived using a standard method, for constituents not listed in Appendix Table 1), or "interim generic" (as listed for carcinogenic and non-carcinogenic Synthetic Organic Chemicals in Appendix Table 2).

"Hazardous pollutant" means:

1. Any toxic pollutant;
2. Any substance regulated as a pesticide under the Federal Insecticide, Fungicide and Rodenticide Act, Pub.L.92-516 (7 U.S.C. _ 136 et seq.);
3. Any substance the use or manufacture of which is prohibited under the Federal Toxic Substances Control Act, Pub.L.94-469 (15 U.S.C. _ 2601 et seq.);
4. Any substance identified as a known carcinogen by the International Agency for Research on Cancer;
5. Any hazardous waste as designated pursuant to section 3 of P.L.1981, c.279 (N.J.S.A.13:1E-51) or the "Resource Conservation and Recovery Act," Pub.L.94-580 (42 U.S.C. 6901 et seq.);
or
6. Any hazardous substance as defined pursuant to section 3 of P.L.1976, c.141 (N.J.S.A. 58:10-23.11b).

"HUC 11" or "hydrologic unit code 11" means an area within which water drains to a particular receiving surface water body, also known as a watershed, which is identified by an 11-digit hydrologic unit boundary designation, delineated within New Jersey by the United States Geological Survey.

"Industrial water" means water used for processing, heating or cooling in a manufacturing

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process.

"Natural Area" means an area of land or water, designated by the Department under N.J.A.C. 7:5A-1.13 and shown on maps maintained by the Office of Natural Lands Management, Division of Parks and Forestry, of the Department, which is owned in fee simple or in which a conservation restriction is held by the Department.

"Natural quality" means the concentration or level of constituents which occurs in ground water of a hydrologic unit without the influence of human activity, other than the effects of regional precipitation of air pollutants (for example, acid precipitation). The natural quality for SOCs is established as zero (0.0) except where the SOCs are the result of air transport from outside the State, enter the State from ground water transport of pollutants having their origins in other states, or are created entirely by natural processes. Where natural quality for other constituents is not ascertainable from generally acceptable scientific studies, the lowest concentrations known to exist within the same or a similar hydrologic unit and setting (that is, depth) within the classification area shall be used to represent the natural quality, provided, however, that for pH, corrosivity and hardness, the most representative concentration shall be used.

"Non-carcinogen" means a constituent not categorized as a carcinogen, including Group D (Not Classifiable as to Human Carcinogenicity) or Group E (Evidence of Non-Carcinogenicity for Humans) categorized in accordance with the USEPA Guidelines for Carcinogen Risk Assessment, 51 Fed. Reg. 33992, 1986, incorporated herein by reference, as amended or supplemented.

"NJPDES" means the New Jersey Pollutant Discharge Elimination System (N.J.A.C. 7:14A).

"NJPDES permit action" means a draft or final NJPDES permit, a permit equivalent, or a decision that a discharge is not to be regulated by NJPDES, as determined pursuant to the NJPDES regulations.

"Organoleptic effect" means an offensive taste, foul odor or other adverse aesthetic consequence caused by pollutants in a water supply and rendering the water supply unfit for potable use.

"PQL" means practical quantitation level.

"Pollutant" means any dredged spoil, solid waste, incinerator residue, sewage, garbage, refuse, oil, grease, sewage sludge, munitions, chemical wastes, biological materials, radioactive substance, thermal waste, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal or agricultural or other residue discharged into the waters of the State. "Pollutant" includes both hazardous and nonhazardous pollutants. "Industrial, municipal or agricultural or other residue" specifically includes, without limitation, constituents that are not considered wastes (that is, process chemicals) prior to discharge, but which are discharged and may or do degrade natural or existing ground water quality.

"Potable water" means water suitable for household consumption, primarily as drinking water, based upon human health, welfare and aesthetic considerations.

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"Practical quantitation level" (PQL) means the lowest concentration of a constituent that can be reliably achieved among laboratories within specified limits of precision and accuracy during routine laboratory operating conditions. "Specified limits of precision and accuracy" are the criteria which have been included in applicable regulations including, but not limited to, those regulations listed at N.J.A.C. 7:9C-1.9 or are listed in the calibration specifications or quality control specifications of an analytical method.

"Saturated Zone" means the zone in which all the subsurface voids in the rock or soil are filled with water.

"SOC" means Synthetic Organic Chemical.

"Soils" means any naturally occurring or man-made unconsolidated mineral and organic matter on the surface of the earth that has been subjected to and influenced by geologic and environmental factors. "Soils" also includes fill or overburden.

"Source water" means the supply source of water (for example, private wells, public water supply) to a discharger, where the source water becomes part of a discharge.

"Surface water" means water at or above the land's surface which is neither ground water nor contained within the unsaturated zone. "Synthetic organic chemicals" (SOCs) means any compounds that contain at least one carbon atom and that result from purposeful chemical synthesis, whether as products, by-products, or waste, or from the purposeful refinement of naturally occurring substances. Where a chemical substance is sometimes found in nature and sometimes synthesized, it shall be considered an SOC only to the extent or in the proportion produced or isolated by human activity. Naturally occurring organic chemicals in their natural location are not considered a pollutant pursuant to the Ground Water Quality Standards. An SOC may be considered to be in its natural location, if, by background sampling and modeling, it is shown that such SOC has migrated to that point from the place it naturally occurred.

"Technologically practicable means" means the best available treatment or remedial technology, from an engineering perspective; "best" means that technology which achieves the most stringent numerical values attainable for a constituent at a contaminated site or for a NJPDES-regulated discharge; "available" means field-demonstrated technology although such technology need not be in common commercial use.

"Toxic pollutant" means any pollutant identified pursuant to the Federal Water Pollution Control Act Amendments of 1972 (Pub.L.92-500, 33 U.S.C. _ 1251 et seq.), or any pollutant or combination of pollutants, including disease causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly or indirectly by ingestion through food chains, will, on the basis of information available to the Department, cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformation, in such organisms or their offspring.

"USEPA" means the United States Environmental Protection Agency.

"Unsaturated zone" (vadose zone) means the subsurface volume between the land's surface

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and the top of a saturated zone.

"Waters of the State" means the ocean and its estuaries, all springs, streams and bodies of surface or ground water, whether natural or artificial, within the boundaries of this State or subject to its jurisdiction.

"Zone of Contribution" means the volume of a geologic formation or unit that directly contributes ground water to a pumping well over time, or a Well Head Protection Area as defined by the Department pursuant to the Federal Safe Drinking Water Act Amendments of 1986.

7:9C-1.5 Ground water classification system and designated uses

- (a) Ground water is classified according to the hydrogeologic characteristics of the ground water resource and the designated use(s) which are to be maintained, restored and enhanced within the classification area. Classifications are regional in nature and do not reflect localized infringements on designated uses due to natural quality or pollution incidents. Ground water users should not assume that existing ground water quality everywhere meets the criteria for classification areas established herein, in view of the potential for variations in natural quality or for localized pollution caused by human activity. Additional uses may be made of ground water in any classification area, subject to applicable Department rules, but these uses are not directly protected through this chapter.
- (b) The Department shall preferentially protect the primary designated use for each classification area, and shall protect any secondary designated uses to the extent that such uses are viable using water of sufficient quality for the primary use and that the primary use is not impaired.
- (c) There are three major classes of ground water, as defined in paragraphs (d) through (f) below. They are:
- Class I Ground Water of Special Ecological Significance
 - Class II Ground Water for Potable Water Supply
 - Class III Ground Water With Uses Other Than Potable Water Supply
- (d) The primary designated use for Class I ground water is the maintenance of special ecological resources supported by the ground water within the classification area. Secondary designated uses are potable water, agricultural water and industrial water to the extent that these uses are viable using water of natural quality and do not impair the primary use, such as by altering ground water quality.
1. Class I-A - Exceptional Ecological Areas: Class I-A ground water shall consist of all ground waters within those classification areas, listed at (d)1(iii) below or designated by the Department through the reclassification procedure in N.J.A.C. 7:9C-1.10, which satisfy either (d)1i or ii below. In addition, ground waters within those areas listed in (d)1iii below are classified as Class I-A ground waters, because the Department has determined that they satisfy the requirements of either (d)i or ii below. The Department may approve a Class I-A classification area if the ground water within that area:
 - i. Contributes to the transmittal of ground water to surface water in FW1 watersheds;
and

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- (1) The area involved is under government ownership (fee simple or conservation restriction); or
 - (2) Is owned by a private entity that petitions the Department for reclassification of the property to Class I-A pursuant to N.J.A.C. 7:9C-1.10; or
 - ii. Contributes to the transmittal of ground water to the land surface or to surface water in areas of exceptional ecological value. Areas of exceptional ecological value satisfy the conditions described in (d)1ii(1), (2) or (3) below, and also satisfy the conditions described in both (d)1ii(4) and (5) below:
 - (1) Support threatened or endangered species as determined by the United States Department of the Interior pursuant to the Endangered Species Act, 16 U.S.C. 1531 et seq., or by the Department pursuant to the Endangered and Nongame Species Conservation Act, N.J.S.A 23:2A-1 et seq.
 - (2) Support biotic communities within Natural Areas.
 - (3) Serve other exceptional ecological values such as being a part of or supporting state, nationally or internationally rare, threatened or endangered habitats where there is a significant risk that ground water pollution would impair or imperil the ecological values.
 - (4) The quality and transmittal of ground water is essential to the survival or maintenance of the exceptional ecological resource contained within the classification area.
 - (5) The area involved is of sufficient size to provide meaningful control of ground water quality to protect the target resource, based upon the biotic resource and local hydrogeology and is under government ownership (fee simple or conservation restriction), or is owned by a private entity that petitions the Department for reclassification of the property to Class I-A pursuant to N.J.A.C. 7:9C-1.10.
 - iii. Ground water within the following areas are herein classified as Class I-A:
 - (1) Watersheds of FW1 surface waters;
 - (2) The Natural Areas as designated by the Department pursuant to N.J.A.C. 7:5A-1.13.
2. Class I-PL--Pinelands: The classification area for Class I-PL consists of all ground water in the Cohansey and Kirkwood Formations located within the Pinelands area as designated by the Pinelands Protection Act, N.J.S.A. 13:18A-1 et seq. (as indicated in figure 1 in the Appendix, incorporated herein by reference), other than those ground water areas classified as Class I-A.

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- i. Class I-PL (Preservation Area): The primary designated use is the support and preservation of unique and significant ecological resources of the Pinelands, through the restoration, maintenance and preservation of ground water quality in its natural state. Secondary designated uses include compatible agricultural uses in conformance with N.J.A.C. 7:50-6 et seq. and potable water uses.
 - ii. Class I-PL (Protection Area): The primary designated use is the preservation of Pinelands plant and animal species and their habitats through the protection and maintenance of the essential characteristics of Pinelands ground water quality. Secondary designated uses include potable and agricultural water.
- (e) The primary designated use for Class II ground waters is the provision of potable ground waters with conventional water supply treatment, either at their current water quality (Class II-A) or subsequent to enhancement or restoration of regional water quality so that the water will be of potable quality with conventional water supply treatment (Class II-B). Both existing and potential potable water uses are included in the designated use.
1. Class II-A shall consist of all ground water of the State, except for ground water designated in Classes I, II-B or III. The primary designated use for Class II-A ground water shall be potable water and conversion (through conventional water supply treatment, mixing or other similar technique) to potable water. Class II-A secondary designated uses include agricultural water and industrial water.
 2. Specific Class II-B areas, designated uses and constituent standards will be established through rule or through reclassification pursuant to N.J.A.C. 7:9C-1.10. The designated uses of Class II-B areas generally may include any reasonable use (other than potable use). Designated uses of Class II-B ground water shall not exacerbate existing ground water pollution or impede the ability to enhance or restore the quality of the ground water so that it will be potable or convertible to potable use with conventional water supply treatment, mixing or other similar techniques. Class II-B shall consist only of ground waters:
 - i. That exhibit extensive exceedance of one or more of the ground water quality criteria in N.J.A.C. 7:9C-1.7(c) within the proposed Class II-B area, due to past discharges of ground water pollutants;
 - ii. Where restoration of the ground water, where polluted, cannot be achieved using technologically practicable means;
 - iii. Where the conditions listed in (e)2(1) through (4) below exist within the proposed Class II-B area, and there is no indication in the projections of the Department, public water supply systems serving the area, or municipalities of the area that those conditions will cease to exist within the next 25 years:
 - (1) No public community water supply well or Zone of Contribution for such a well exists;
 - (2) Less than five percent of the potable water supply for the area subject to the petition is derived from ground water from within the proposed Class II-B area;

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- (3) Less than five percent of the potable water supply for any municipality (or portion thereof) within the Class II-B area is derived from ground water from within the proposed Class II-B area; and
 - (4) No significant concentration of domestic water supply wells exists;
 - iv. Where no significant risk of pollution migration into Class I or II-A areas exists;
 - v. Where a reliance on natural attenuation processes can be relied on over the vast majority of the area for the restoration of ground water quality for criteria identified pursuant to (e)2i above and does not pose a significant risk to public health, safety and welfare; and
 - vi. Where the reclassification requirements of N.J.A.C. 7:9C-1.10 are met.
 3. Class II-B Classification Areas-(Reserved)
 - (f) The Class III ground waters are not suitable for potable water due to natural hydrogeologic characteristics or natural water quality. Class III includes geologic formations or units that are aquitards or have a natural quality that is unsuitable for conversion to potable water (for example, saline ground water).
 1. Class III-A ground water consists of ground water in those aquitards that are described below. The primary designated use for Class III-A ground water is the release or transmittal of ground water to adjacent classification areas and surface water, as relevant. Secondary designated uses in Class III-A include any reasonable uses. Class III-A ground water includes portions of the saturated zones (that meet the criteria below) of the Woodbury Formation, Merchantville Formation, Marshalltown Formation, Navesink Formation, Hornerstown Formation, aquitard formations of the Potomac-Raritan-Magothy aquifer system and the Kirkwood aquifer system, portions of the glacial moraine and glacial lake deposits, and other geologic units having the characteristics of an aquitard, excepting Class I areas. These named aquitards (excluding glacial units) outcrop approximately in municipalities depicted in Figure 2 in the Appendix. Class III-A areas shall have the following characteristics:
 - i. Average at least 50 feet in thickness within the Class III-A area;
 - ii. Have a typical hydraulic conductivity of approximately 0.1 ft/day or less within the Class III-A area; and
 - iii. Have an areal extent within the Class III-A area of at least 100 acres.
 2. Any interested party may provide evidence to the Department to demonstrate that an area meets the descriptive criteria of Class III-A. Upon review and verification of such evidence the Department may provide concurrence that the Class III-A classification applies to the area of interest.

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3. Class III-B ground water consists of all geologic formations or units which contain ground water having natural concentrations or regional concentrations (through the action of salt-water intrusion) exceeding 3,000 mg/l Chloride or 5,000 mg/l Total Dissolved Solids, or where the natural quality of ground water is otherwise not suitable for conversion to potable uses. The designated uses for Class III-B ground water consist of any reasonable uses for such ground water other than potable water, using water of existing quality. The classification area includes ground water in parts of formations as indicated in Figures 3 through 5 in the Appendix.
4. Class III-B areas are subject to field verification wherever necessary. Areas not indicated on the maps may also qualify as Class III-B, subject to Department concurrence through an applicable regulatory program. The precise borders of Class III-B areas shall be confirmed using site specific data in the context of applicable regulatory programs. Any interested party may provide evidence to the Department to demonstrate that an area meets the descriptive criteria of Class III-B. Upon review and verification of such evidence the Department may provide concurrence that the Class III-B classification applies to the area of interest.

7:9C-1.6 Exceptions to the classification system

- (a) The Department may establish a Classification Exception Area only when the Department determines that constituent standards for a given classification are not being met or will not be met in a localized area due to: natural quality; localized effects of a discharge approved through a NJPDES permit action; pollution caused by human activity within a contaminated site as defined by the Department in the context of an applicable regulatory program (for example, Site Remediation Program); or an ACL as approved by the Department pursuant to NJPDES. In the context of an applicable regulatory program, the Department shall determine or describe appropriate boundaries for each Classification Exception Area and include the written description of the boundaries in the appropriate permit action along with specifications as to which constituents the exception applies. Classification Exception Areas may only be established when constituent standards are not being met or will not be met due to the conditions set forth above and shall not be established for the purpose of sanctioning violations of constituent standards.
- (b) Where natural quality for any constituent contravenes the criteria established in N.J.A.C. 7:9C-1.7 such that the primary designated use is not viable within a limited area, the Department may establish a Classification Exception Area within which the Department shall define appropriate designated uses and constituent standards, based upon the natural quality. Such Classification Exception Areas shall remain in effect as long as the primary designated use of the original classification area is not viable using ground water at natural quality.
- (c) Where the Department defines, through a NJPDES permit action, an area of temporary noncompliance with specific constituent standards related to the localized effects of a permitted discharge, the ground water within that area of noncompliance shall be a Classification Exception Area for those constituents only. All other constituent standards shall apply within the Classification Exception Area. All designated uses in these Classification Exception Areas will be suspended during the life of the Classification Exception Area. Constituent standards of the surrounding classification area shall apply at the perimeter of the

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Classification Exception Area for the specified constituents. The Classification Exception Area shall have the same life as the approved NJPDES permit action, after which the original classification, designated uses and constituent standards shall apply.

- (d) Where a discharge has resulted or will result in localized ground water quality that contravenes one or more constituent standards, the Department may define that area as a Classification Exception Area for specified constituents pursuant to (or in accordance with) a NJPDES permit action or the remediation of a contaminated site in the context of an applicable regulatory program. All other constituent standards shall apply within the Classification Exception Area. All designated uses in each Classification Exception Area will be suspended during the life of the Classification Exception Area. Constituent standards of the surrounding classification area shall apply at the perimeter of the Classification Exception Area for the specified constituents. The Department shall restrict or require the restriction of potable ground water uses within any Classification Exception Area where there is or will be an exceedance of the Primary Drinking Water Quality Standards (in N.J.A.C. 7:10). Where the Department defines the Classification Exception Area through a NJPDES permit action, the Classification Exception Area shall have the same life as the approved NJPDES permit action, after which the original classification, designated uses and constituent standards shall apply. Other regulatory actions creating the Classification Exception Area shall specify the longevity of the exception, after which the original classification, designated uses and constituent standards shall be applicable.

7:9C-1.7 Ground water quality criteria

- (a) Ground water quality criteria for Class I-A areas are the natural quality for each constituent. Class I-A is a nondegradation classification where natural quality is to be maintained or restored. The Department shall not approve any discharge to ground water or approve any human activity which results in a degradation of natural quality within a Class I-A classification area.
- (b) Ground water quality criteria for Class I-PL are as follows:
1. Within Class I-PL (Preservation Area), ground water quality criteria shall be the natural quality for each constituent. Class I-PL (Preservation Area) is a nondegradation classification in which natural quality shall be maintained or restored. The Department shall not approve any discharge or any other activity which would result in the degradation of natural quality within a Class I-PL (Preservation Area) classification area. However, the provisions of this paragraph (b)1 shall not apply to activities that are in conformance with N.J.A.C. 7:50-6 et seq.
 2. Ground water quality criteria for Class I-PL (Protection Area) shall be the background water quality. The Department shall not approve any discharge or any other activity which would result in the degradation of background water quality in the Class I-PL (Protection Area) classification area. However, the provisions of this paragraph (b)2 shall not apply to activities that are in conformance with N.J.A.C. 7:50-6 et seq.
 3. The Department shall not approve any discharge to ground water within the Class I-PL classification area which results in a violation of the Surface Water Quality Standards applicable to the Pinelands National Reserve, as established in N.J.A.C. 7:9B or successor

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rules.

(c) Ground water quality criteria for Class II-A areas are established as follows:

1. Specific criteria for ground water quality in Class II-A areas are listed in Appendix Table 1.
2. The Department may establish an interim specific criterion, pursuant to (c)3 below, for a constituent not listed in Appendix Table 1.
 - i. The Department shall maintain and make available to the public on its website and by request a listing of all interim specific criteria and the supplemental information used in their derivation.
 - ii. Interim specific criteria shall be replaced with specific criteria as soon as reasonably possible by rule.
3. The Department shall establish ground water quality criteria as follows:
 - i. If the Department promulgates in the Safe Drinking Water Act rules at N.J.A.C. 7:10 a maximum contaminant level (MCL) for a constituent, the health-based level used to establish the MCL shall be the specific ground water quality criterion for the constituent.
 - (1) If, subsequent to promulgation of an MCL for a constituent in accordance with (c)3i above, the Department determines, based on constituent-specific data, applicable USEPA guidance, generally accepted scientific evidence, and/or peer-reviewed sources of information, that a ground water criterion developed at (c)3ii below would more appropriately address the risk posed by the constituent than the health-based level used to establish the promulgated MCL, the Department shall establish the ground water quality criterion based on the weight of evidence approach at (c)3ii below.
 - ii. For all other constituents, the Department shall develop ground water quality criteria for Class II-A ground water based upon the weight of evidence available regarding each constituent's carcinogenicity, toxicity, public welfare or organoleptic effects, as appropriate for the protection of potable water, pursuant to (c)4 below.
4. Except as provided at (c)4iv and v below, the Department shall use the equations, data sources and conventions at (c)4i, ii, and iii below to derive specific and interim specific ground water quality criteria:
 - i. For constituents classified as carcinogens, the criteria shall be derived using the following equation:

$$\text{Criterion } (\mu\text{g/L}) = \frac{\text{Upper Bound Lifetime Excess Cancer Risk} \times \text{Average Adult Weight} \times \text{Conversion Factor}}{\text{Upper Bound Lifetime Excess Cancer Risk} \times \text{Average Adult Weight} \times \text{Conversion Factor}}$$

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$$\text{Carcinogenic Slope Factor} \times \text{Assumed Daily Water Consumption}$$

Where the default values are:

- Average Adult Weight = 80.0 kg
- Assumed Daily Water Consumption = 2.4 liters per day
- Upper Bound Lifetime Excess Cancer Risk = 1×10^{-6}
- Conversion Factor = 1,000 $\mu\text{g}/\text{mg}$
- Carcinogenic Slope Factor = Value from the United States Environmental Protection Agency (USEPA) Integrated Risk Information System (IRIS) data base, <http://www.epa.gov/iris>, incorporated herein by reference, as $(\text{mg}/\text{kg}/\text{day})^{-1}$

- ii. For constituents categorized as non-carcinogens and for constituents classified as carcinogens for which no carcinogenic slope factor is available, the criterion shall be derived using the following equation:

$$\text{Criterion } (\mu\text{g}/\text{L}) = \frac{\text{Reference Dose} \times \text{Average Adult Weight} \times \text{Conversion Factor} \times \text{Relative Source Contribution}}{\text{Assumed Daily Water Consumption} \times \text{Uncertainty Factor}}$$

Where the default values are:

- Average Adult Weight = 80.0 kg
- Relative Source Contribution = 20 percent
- Assumed Daily Water Consumption = 2.4 liters per day
- Conversion Factor = 1,000 $\mu\text{g}/\text{mg}$
- Reference Dose = Value from the United States Environmental Protection Agency (USEPA) Integrated Risk Information System (IRIS) data base, <http://www.epa.gov/iris>, incorporated herein by reference, as $\text{mg}/\text{kg}/\text{day}$
- Uncertainty Factor = 10 for carcinogens for which no carcinogenic slope factor is applicable; 1 for non-carcinogens

- iii. The criteria derived by the equations in this paragraph shall be rounded to two significant figures when all components of the equation are available in two or more significant figures. Otherwise, the final criteria shall be rounded to one significant figure.

- iv. If the Department determines, based on constituent-specific factors and/or data, as well as applicable USEPA guidance, generally accepted scientific evidence and

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methodologies, and/or peer-reviewed sources of information, that use of an alternative value(s) is more suitable than a default value in the equation at (c)4i or ii above for the derivation of a particular specific or interim specific criterion, the Department shall derive the criterion using the alternative value(s). The Department will explain the basis for using any alternative value in, as applicable, the supplemental information accompanying an interim specific criterion made available to the public on the Department's website in accordance with (c)2i above, or in the Summary statement of the rulemaking for a specific criterion.

- v. If the Department determines, based on constituent-specific factors and/or data, as well as applicable USEPA guidance, generally accepted scientific evidence and methodologies, and/or peer-reviewed sources of information, that use of a modified equation is more suitable than the equation at (c)4i or ii above for the derivation of a particular specific or interim specific criterion, the Department shall derive the criterion using the modified equation. The Department will explain the basis for using a modified equation in, as applicable, the supplemental information accompanying an interim specific criterion made available to the public on the Department's website in accordance with (c)2i above, or in the Summary statement of the rulemaking for a specific criterion.
5. The Department shall publish in the New Jersey Register a notice of administrative change subsequent to (the effective date of this amendment):
 - i. To modify or add a new specific criterion to Appendix Table 1 when the Department promulgates in the Safe Drinking Water Act rules at N.J.A.C. 7:10 a new or revised maximum contaminant level (MCL) for a ground water constituent; or
 - ii. To modify a specific criterion in Appendix Table 1 where the USEPA revises the carcinogenic slope factor or reference dose data contained in the Integrated Risk Information System (IRIS) database on which a specific ground water quality criterion in Appendix Table 1 is based.
 - iii. The notice of administrative change shall identify the constituent, the basis for the administrative change and the revised criterion to be listed in Appendix Table 1.
 6. For a Synthetic Organic Chemical not listed in Appendix Table 1, the applicable interim generic criterion in Appendix Table 2 shall apply until an interim specific criterion is developed or a specific criterion is promulgated in accordance with this subsection.
- (d) The ground water quality criteria for Class II-B ground waters shall be the Class II-A criteria.
 - (e) The ground water quality criteria for Class III-A areas shall be the criteria of the most stringent classification for vertically or horizontally adjacent ground waters that are not Class III-A, unless the Department concludes (in the context of an applicable regulatory program) that there is no significant potential for the migration of ground water pollutants to that classification area. If there is significant potential for pollutant migration, the criteria shall be those of the classification area determined to be downgradient of the Class III-A area. If there is no significant potential for pollutant migration, criteria shall be determined for such Class III-A

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areas on a case by case basis in the context of applicable regulatory programs. In each case where there is no significant potential for pollutant migration, the criteria shall be no more stringent than necessary to ensure that there will be no:

1. Impairment of existing uses of the ground water;
 2. Resulting violation of Surface Water Quality Standards;
 3. Release of pollutants to the ground surface, structures or air in concentrations that pose a threat to human health;
 4. Reasonable potential for a change in hydraulic gradient that could cause pollutants to migrate from the Class III-A area to any classification area other than Class III.
- (f) The ground water quality criteria for Class III-B areas shall be determined on an area by area basis in response to case by case needs, in the context of applicable regulatory programs. In each case, the criteria shall be no more stringent than necessary to ensure that there will be no:
1. Impairment of existing uses of ground water;
 2. Resulting violation of Surface Water Quality Standards;
 3. Release of pollutants to the ground surface, structures or air in concentrations that pose a threat to human health;
 4. Violation of constituent standards for downgradient classification areas to which there is a significant potential for migration of ground water pollutants.
- (g) Where ground water that receives pollutants from a discharge(s) subsequently flows to surface waters, the Department shall regulate such discharges as necessary so as not to exceed the Surface Water Quality Standards applicable to that body of surface water. The discharger may request application of only the ground water quality standards by showing, to the satisfaction of the Department, and in the context of the applicable regulatory procedure, that the flow of ground water pollutants into the surface water will not cause a violation of the Surface Water Quality Standards.
- (h) For constituents for which specific or interim specific criteria have been derived, the Department may evaluate potential toxicological interactions between or among constituents in ground water by the sum of the risk levels of constituents with health-based criteria that are based on carcinogenic risk, and by utilizing the hazard index approach described in the USEPA Guidelines for the Health Risk Assessment of Chemical Mixtures (51 FR 34014 (1986), and any subsequent revisions) for non-carcinogens. Additional actions and more stringent criteria may be required when either of the following conditions exists:
1. The total risk level for all carcinogens present in ground water exceeds 1×10^{-4} ; or
 2. There is a Hazard Index of greater than one for non-carcinogenic effects.

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- (i) The Department shall regulate discharges for compliance with each specific, interim specific and generic criterion applicable to the discharge pursuant to this section.

7:9C-1.8 Antidegradation policy

- (a) The Department shall protect existing ground water quality that is better than criteria from significant degradation. The Department shall not approve any further degradation of ground water quality where background water quality contravenes the criteria.
- (b) The antidegradation policy at (a) above shall be implemented as follows:
 1. The Department shall not approve a new or expanded discharge to Class I ground water if the discharge would result in the degradation of natural quality of the ground water, unless the discharge is to Class I-PL ground water and the project or activity associated with the discharge is in conformance with N.J.A.C. 7:50-6.
 2. The Department shall not approve a new or expanded discharge to ground water in the Highlands preservation area unless the project or activity associated with the discharge conforms with the Highlands Water Protection and Planning Act Rules, N.J.A.C. 7:38. "Highlands preservation area" means that portion of the Highlands region so designated by N.J.S.A. 13:20-7b.
 3. Excluding those in the Highlands preservation area subject to (b)2 above, the Department shall not approve a discharge from a new or expanded domestic treatment works to Class II or Class III ground water that requires a water quality management plan amendment pursuant to N.J.A.C. 7:15 unless the Department determines, through the plan amendment process, that existing ground water quality will be maintained. A nitrate concentration of 2 mg/L, which is representative of the average existing ground water quality Statewide, shall be used in determining that existing ground water quality is maintained on a HUC 11 basis.
 4. Excluding those in the Highlands preservation area subject to (b)2 above, the Department shall not approve a discharge from a new or expanded domestic treatment works to Class II or Class III ground water that requires a NJPDES discharge to ground water permit pursuant to N.J.A.C. 7:14A unless the Department determines, through the NJPDES permit process, that the total nitrate load to the property served by the treatment works, when expressed as a concentration, shall not exceed 6 mg/L nitrate. The nitrate concentration of 6 mg/L nitrate represents half of the sum of 2 mg/L nitrate, which is representative of the average existing ground water quality Statewide, and the ground water quality criterion for nitrate of 10 mg/L (that is, 10,000 ug/L) set forth in Appendix Table 1.
 5. Excluding those in the Highlands preservation area subject to (b)2 above, the Department shall not approve a discharge from a new or expanded industrial treatment works to Class II or Class III ground water that requires a NJPDES industrial discharge to ground water permit pursuant to N.J.A.C. 7:14A unless the Department determines, through the NJPDES permit process, that the total load of each constituent discharged to the property served by the treatment works, when expressed as a concentration, shall not exceed half of the sum of background water quality for that constituent and the applicable ground water quality criterion, where background water quality does not exceed such criterion.

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7:9C-1.9 Constituent standard modifications and practical quantitation levels

- (a) When constituents at background water quality exceed the criteria in N.J.A.C. 7:9C-1.7, the Department shall consider the following modifications in the development of constituent standards in the context of applicable regulatory programs:
1. For discharges that derive their source water from directly upgradient of the discharge, the constituent standards shall not be more stringent than the background water quality (that is, the source water quality);
 2. For other discharges:
 - i. In areas where the criteria for the constituent are exceeded within the area due to natural quality, the constituent standards shall be established as the background water quality.
 - ii. In other areas, the constituent standards shall be established such that the volume and concentration of ground water exceeding the criteria are not increased by discharges.
- (b) The Department may define Classification Exception Areas as provided for in N.J.A.C. 7:9C-1.6 within which the provisions of N.J.A.C. 7:9C-1.7, 1.8 and (a) above do not apply regarding specified constituents.
- (c) Where a constituent standard (the criterion as adjusted by the antidegradation policy and applicable criteria exceptions) is of a lower concentration than the relevant PQL (in Appendix Table 1), the Department shall not (in the context of an applicable regulatory program) consider the discharge to be causing a contravention of that constituent standard so long as the concentration of the constituent in the affected ground water is less than the relevant PQL.
1. Where interim specific criteria are derived by the Department, interim PQLs shall also be derived for those constituents as appropriate.
 2. Specific PQLs are not provided for interim generic ground water criteria. The numeric interim generic ground water criteria shall be used as the constituent standard unless a PQL applicable for an interim generic criteria is approved by the Department and published with the interim generic criteria in accordance with (c)3 below.
 3. Selection and derivation of PQLs shall be as follows:
 - i. PQLs shall be rounded to two significant figures using standard methods.
 - ii. PQLs listed in Appendix Table 1 were, and additional PQLs shall be, derived or selected for each constituent using the most sensitive analytical method providing positive constituent identification from (c)3ii(1) and (2) below, in that order of preference:
 - (1) PQLs derived from Method Detection Limit (MDL) data from the New Jersey Department of Health and Senior Services Laboratory (DHSS) multiplied by 5;

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- (2) PQLs derived from laboratory performance data that has been evaluated by the Department using the method of Sanders, Lippincott and Eaton (See Sanders, P. et al., "Determining Quantitation Levels for Regulatory Purposes." J. Amer. Water Works Assoc., 1996, March pp. 104-114).
- iii. The Department may approve an alternative PQL. An alternative PQL shall be approved when the evidence (in the context of an applicable regulatory program) establishes that:
 - (1) Based upon site-specific, ground water matrix considerations, a PQL listed in Appendix Table 1 for a constituent is not valid;
 - (2) An alternative PQL is more appropriate for that constituent with regard to compliance with this chapter;
 - (3) The alternative PQL has been determined through rigorous laboratory analysis using methods appropriate to the site-specific ground water matrix and constituent(s), including, without limitation, the derivation of an MDL using the methodology specified by Appendix B of 40 CFR Part 136; and
 - (4) The alternative PQL does not result in nondetection of any target constituent due to masking effects of other target constituents, non-target constituents, or natural substances.
- iv. The approval of an alternative PQL shall be applicable to the regulation of ground water quality affected by the discharge for which it is derived, and its approval and utilization shall be subject to the same procedural requirements as any other aspect of the regulatory decision.
4. Where ground water pollutants affect surface water quality within the meaning of N.J.A.C. 7:9C-1.7(g), more sensitive analytical techniques such as bioassays or bioaccumulation assays may be required by the Department.

7:9C-1.10 Procedures for reclassification of ground water

- (a) Reclassification of ground water areas shall be accomplished through rulemaking in accordance with the Administrative Procedure Act, N.J.S.A. 52:14B-1 et seq.
- (b) Any interested person may seek to have any ground water area reclassified by filing a petition with the Department. For the purposes of this subsection, interested persons shall include, but not be limited to:
 1. Any State, county or municipal governmental entity with jurisdiction over the area that is proposed for reclassification; and
 2. Any person residing or discharging in the area that is proposed for reclassification.

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- (c) Petitions shall comply with and shall be reviewed in compliance with N.J.S.A. 52:14B-4 and N.J.A.C. 7:1D-1.1.
- (d) For purposes of this subsection, ground water areas subject to petition for reclassification shall constitute at least a significant portion of one or more geologic units or formations. In no event shall a reclassification area consist only of an area underlying property owned by a single person (except in the case of reclassification to and from Class I-A), an area affected only by one discharge, or an area affected only by a set of discharges owned or controlled by a single person.
- (e) In setting forth the reasons for its petition, the petitioner shall describe the proposed reclassification area (both lateral and vertical), and shall include appropriate ground water quality and hydrogeologic analyses, as well as statements regarding the environmental, economic and social impacts of the proposed reclassification.
- (f) In order to grant a petition to propose a rule amendment to apply a more stringent classification to a ground water area, the Department must find that the petitioner has established that the subject area has the characteristics of the more stringent classification.
- (g) In order to grant a petition to propose a rule amendment to apply a less stringent classification to a ground water area, the Department must find that the petitioner has established that:
 - 1. The designated use cannot be maintained in the subject area;
 - 2. Based upon an analysis of background water quality of constituent standards in downgradient areas and of ground water flow vectors and gradients, contaminant attenuation, flow barriers and potential for induced movement, the reclassification will not result in significant risk of the following:
 - i. Impairment to existing uses of ground water or significant potential for pollutant migration to downgradient classification areas;
 - ii. Degradation of downgradient surface water quality in violation of the surface water quality standards;
 - iii. Degradation of the quality of source water for public water supply wells in violation of the provisions of N.J.A.C. 7:9C-1.7, 1.8 and 1.9; or
 - iv. Significant threats to public health, safety and welfare; and
 - 3. The subject area has the characteristics of the less stringent classification.
- (h) The petitioner shall provide public notice of the petition by mailing a copy of a summary of the petition, including all subsequent amendments, to:
 - 1. All owners of residences or facilities identified by local health officials or by the petitioner during the preparation of the petition as operators of wells in the subject area;

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2. The mayor or governing body, and the planning board and environmental commission of all municipalities in which any part of the subject area is located;
 3. All public water systems utilizing ground or surface water from the subject area;
 4. All local or county health agencies with jurisdiction over any part of the subject area; and
 5. Any other interested party who requests a copy of the petition summary in writing to either the Department or the petitioner.
- (i) The petitioner shall cause public newspaper notice of the petition to be published, in two daily, and one weekly, newspapers (if available) that are distributed in the municipalities of the subject area, which notice shall include a brief summary of the petition.

7:9C-1.11 Severability

If any provision of this chapter or any application of any such provision is held to be invalid, such invalidity shall not affect any other provision or application, and to this end, the provisions of this chapter are declared to be severable.

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APPENDIX

Table 1

Specific Ground Water Quality Criteria - Class II-A and Practical Quantitation Levels

Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion*
Acenaphthene	83-32-9	400	10	400
Acetone	67-64-1	6,000	10	6,000
Acetophenone	98-86-2	700	10	700
Acrolein	107-02-8	4	4.4	4.4
Acrylamide	79-06-1	0.024	0.2	0.2
Acrylonitrile	107-13-1	0.06	2	2
Adipates (Di(2-ethylhexyl) adipate) (DEHA)	103-23-1	30	3	30
Alachlor	15972-60-8	0.4	0.1	0.4
Aldicarb sulfone	1646-88-4	7	0.3	7
Aldrin	309-00-2	0.002	0.020	0.020
Aluminum	7429-90-5	200	30	200
Ammonia (Total)	7664-41-7	3,000	200	3,000
Aniline	62-53-3	6	2	6
Anthracene	120-12-7	2,000	10	2,000
Antimony (Total)	7440-36-0	6	3	6
Arsenic (Total)	7440-38-2	0.02	3	3
Asbestos	1332-21-4	$7 \times 10^6 \text{ f/L} > 10 \mu\text{m}^a$	$10^6 \text{ f/L} > 10 \mu\text{m}^a$	$7 \times 10^6 \text{ f/L} > 10 \mu\text{m}^a$
Atrazine	1912-24-9	3	0.1	3
Barium**	7440-39-3	6,000	200	6,000
Benz(a)anthracene	56-55-3	0.1	0.1	0.1
Benzene	71-43-2	0.12	0.45	0.45
Benzidine	92-87-5	0.0002	6.6	6.6
Benzo(a)pyrene (BaP)	50-32-8	0.01	0.1	0.1
Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	0.1	0.2	0.2
Benzo(k)fluoranthene	207-08-9	1	0.3	1
Benzoic acid	65-85-0	30,000	50	30,000
Benzyl alcohol	100-51-6	2,000	20	2,000
Beryllium	7440-41-7	1	1	1
alpha-BHC- (alpha-HCH)	319-84-6	0.006	0.02	0.02
beta-BHC (beta-HCH)	319-85-7	0.02	0.020	0.02
gamma-BHC (gamma-HCH/Lindane)	58-89-9	0.03	0.02	0.03
1,1-Biphenyl	92-52-4	4.1	5.0	5.0
Bis(2-chloroethyl) ether	111-44-4	0.03	7	7

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Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion*
Bis(2-chloroisopropyl) ether	108-60-1	300	10	300
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	2	3	3
Bromodichloromethane (Dichlorobromomethane)	75-27-4	0.98	0.50	0.98
Bromoform	75-25-2	7.4	0.8	7.4
n-Butanol (n-Butyl alcohol)	71-36-3	700	20	700
tertiary-Butyl alcohol (TBA)	75-65-0	100	2	100
Butylbenzyl phthalate	85-68-7	18	1	18
Cadmium	7440-43-9	0.92	0.5	0.92
Camphor	76-22-2	1,000	0.5	1,000
Caprolactam	105-60-2	4,000	60	4,000
Carbofuran	1563-66-2	40	0.5	40
Carbon disulfide	75-15-0	700	1	700
Carbon tetrachloride	56-23-5	0.4	1	1
Chlordane	57-74-9	0.01	0.20	0.20
Chloride	16887-00-6	250,000	2,000	250,000
4-Chloroaniline (p-Chloroaniline)	106-47-8	0.18	5.0	5.0
4-Chloro-3-methylphenol (3-methyl-4-chlorophenol)	59-50-7	700	0.18	700
Chlorobenzene (Monochlorobenzene)	108-90-7	50	1	50
1-Chloro-1,1-difluoroethane	75-68-3	100,000	500	100,000
Chloroform	67-66-3	70	1	70
2-Chloronaphthalene	91-58-7	600	10	600
2-Chlorophenol	95-57-8	40	20	40
Chlorpyrifos	2921-88-2	7	0.1	7
Chromium (Total)	7440-47-3	70	1	70
Chrysene	218-01-9	10	0.2	10
Cobalt	7440-48-4	2	0.45	2
Color	NA	10 CU	5 CU	10 CU
Copper	7440-50-8	1,300	4	1,300
Cresols (mixed isomers)	95-48-7 108-39-4 106-44-5	50	0.1	50
Cumene (Isopropyl benzene)	98-82-8	700	1	700
Cyanide (free Cyanide)	57-12-5	4.2	5.0	5.0
2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7	70	2	70
Dalapon (2,2-Dichloropropionic acid)	75-99-0	200	0.1	200
4,4'-DDD (p,p'-TDE)	72-54-8	0.1	0.02	0.1
4,4'-DDE	72-55-9	0.20	0.01	0.20
4,4'-DDT	50-29-3	0.1	0.1	0.1

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Demeton	8065-48-3	0.3	1	1
Dibenz(a,h)anthracene	53-70-3	0.01	0.3	0.3
Dibromochloromethane (Chlorodibromomethane)	124-48-1	0.78	0.75	0.78
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.016	0.02	0.02
Di-n-butyl phthalate	84-74-2	700	1	700
1,2-Dichlorobenzene (ortho)	95-50-1	210	5	210
1,3-Dichlorobenzene (meta)	541-73-1	4.7	5	5
1,4-Dichlorobenzene (para)	106-46-7	15	5	15
3,3-Dichlorobenzidine	91-94-1	0.08	5.2	5.2
1,1-Dichloro-1-fluoroethane	1717-00-6	500	30	500
Dichlorodifluoromethane (Freon 12)	75-71-8	1,000	2	1,000
1,1-Dichloroethane (1,1-DCA)	75-34-3	22	1	22
1,2-Dichloroethane	107-06-2	0.3	0.060	0.3
1,1-Dichloroethylene (1,1-DCE)	75-35-4	31	1	31
cis-1,2-Dichloroethylene	156-59-2	11	1	11
trans-1,2-Dichloroethylene	156-60-5	100	1	100
Dichlormid	37764-25-3	600	50	600
2,4-Dichlorophenol (DCP)	120-83-2	20	10	20
1,2-Dichloropropane	78-87-5	0.92	0.50	0.92
1,3-Dichloropropene (cis and trans)	542-75-6	0.4	0.45	0.45
Dieldrin	60-57-1	0.002	0.020	0.020
Diethyl phthalate	84-66-2	6,000	1	6,000
Diisodecyl phthalate (DIDP)	26761-40-0	100	3	100
Diisopropyl ether (DIPE)	108-20-3	20,000	5	20,000
2,4-Dimethyl phenol	105-67-9	100	20	100
Dimethyl phthalate	131-11-3	20,000	0.29	20,000
4,6-Dinitro-o-cresol	534-52-1	0.7	0.03	0.7
2,4-Dinitrophenol	51-28-5	10	10	10
2,4-Dinitrotoluene/2,6-Dinitrotoluene Mix	25321-14-6	0.05	5.2	5.2
Di-n-octyl phthalate	117-84-0	80	10	80
Dinoseb	88-85-7	7	2	7
1,4-Dioxane	123-91-1	0.4	0.1	0.4
Diphenyl ether	101-84-8	100	10	100
Diphenylamine	122-39-4	200	20	200
1,2-Diphenylhydrazine	122-66-7	0.04	2.2	2.2
Diquat	85-00-7	20	2	20
Endosulfan (alpha and beta)	115-29-7	40	0.1	40
alpha-Endosulfan (Endosulfan I)	959-98-8	40	0.02	40

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beta-Endosulfan (Endosulfan II)	33213-65-9	40	0.04	40
Endosulfan Sulfate	1031-07-8	40	0.02	40
Endothall	145-73-3	100	60	100
Endrin	72-20-8	2	0.03	2
Epichlorohydrin	106-89-8	4	5	5
Ethion	563-12-2	3	0.5	3
Ethyl acetate	141-78-6	6,000	10	6,000
Ethylbenzene	100-41-4	150	2	150
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.0004	0.03	0.03
Ethylene glycol	107-21-1	5,100	200	5,100
Ethylene glycol monomethyl ether	109-86-4	7	20,000	20,000
Ethyl ether	60-29-7	1,000	50	1,000
2-Ethyl-1-hexanol	104-76-7	200	0.5	200
Fluoranthene	206-44-0	300	10	300
Fluorene	86-73-7	300	1	300
Fluoride	7782-41-4	2,000	500	2,000
Foaming agents (ABS/LAS)	NA	500	0.5	500
Formaldehyde	50-00-0	100	30	100
Glyphosate	1071-83-6	700	30	700
Hardness (as CaCO ₃)		250,000	10,000	250,000
Heptachlor	76-44-8	0.0081	0.020	0.020
Heptachlor epoxide	1024-57-3	0.0061	0.020	0.020
Hexachlorobenzene	118-74-1	0.033	0.02	0.033
Hexachlorobutadiene	87-68-3	0.8	1	1
Hexachlorocyclopentadiene	77-47-4	40	0.5	40
Hexachloroethane	67-72-1	0.8	0.65	0.8
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	0.3	0.5	0.5
Hexane (n-Hexane)	110-54-3	30	5	30
2-Hexanone	591-78-6	40	1	40
Indeno (1,2,3-cd)pyrene	193-39-5	0.1	0.2	0.2
Iron	7439-89-6	300	20	300
Isophorone	78-59-1	40	10	40
Lead (Total)	7439-92-1	5	5	5
Malathion	121-75-5	100	0.6	100
Manganese	7439-96-5	50	0.4	50
Mercury (Total)	7439-97-6	2	0.05	2
Methanol	67-56-1	13,000	70	13,000
Methoxychlor	2-43-5	0.1	0.1	0.1

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Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion*
Methyl acetate	79-20-9	7,000	0.5	7,000
Methyl bromide (Bromomethane)	74-83-9	10	1	10
2-(2-Methyl-4-chlorophenoxy) propionic acid (MCP)	93-65-2	7	0.5	7
Methylene chloride	75-09-2	6	1	6
Methyl ethyl ketone (2-Butanone) (MEK)	78-93-3	4,300	2	4,300
2-Methylnaphthalene	91-57-6	30	10	30
Methyl Salicylate	119-36-8	4,000	50	4,000
Methyl tertiary butyl ether (MTBE)	1634-04-4	70	1	70
Metolachlor	51218-45-2	100	0.5	100
Mirex	2385-85-5	0.1	0.08	0.1
Molybdenum	7439-98-7	40	2	40
Naphthalene	91-20-3	300	2	300
Nickel (Soluble salts)	7440-02-0	100	4	100
Nitrate	14797-55-8	10,000	100	10,000
Nitrite	14797-65-0	1,000	10	1,000
Nitrate and Nitrite	NA	10,000	10	10,000
Nitrobenzene	98-95-3	1.2	0.075	1.2
N-Nitrosodimethylamine	62-75-9	0.0007	0.8	0.8
N-Nitrosodiphenylamine	86-30-6	7	10	10
N-Nitrosodi-n-propylamine (Di-n-propylnitrosamine)	621-64-7	0.005	1.6	1.6
Odor	NA	3 ^b	NA	3 ^b
Oil & Grease & Petroleum Hydrocarbons	NA	None Noticeable	NA	None Noticeable
Oxamyl	23135-22-0	200	1	200
Parathion	56-38-2	4	0.08	4
PBBs (Polybrominated biphenyls)	67774-32-7	0.004	0.001	0.004
PCBs (Polychlorinated biphenyls)	1336-36-3	0.02	0.20	0.20
Pentachlorophenol	87-86-5	0.08	0.1	0.1
Perchlorate	14797-73-0	5	3	5
Perfluorononanoic acid (PFNA)***	375-95-1	0.013	0.0025	0.013
Perfluorooctanoic acid (PFOA)	335-67-1	0.014	0.006	0.014
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.013	0.004	0.013
pH	NA	6.5-8.5	NA	6.5-8.5
Phenol	108-95-2	2,000	10	2,000
Picloram	1918-02-1	500	1	500
Pyrene	129-00-0	200	0.1	200
Salicylic acid	69-72-7	80	30	80
Selenium (Total)	7782-49-2	40	4	40

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Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion*
Silver	7440-22-4	40	1	40
Simazine	122-34-9	0.3	0.8	0.8
Sodium	7440-23-5	50,000	400	50,000
Strontium	7440-24-6	2,000	5	2,000
Styrene	100-42-5	100	2	100
Sulfate	14808-79-8	250,000	5,000	250,000
Taste	NA	None Objectionable	NA	None Objectionable
TDS (Total dissolved solids)	NA	500,000	10,000	500,000
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1746-01-6	0.000002	0.00001	0.00001
1,1,1,2-Tetrachloroethane	630-20-6	1	1	1
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.065	0.2
Tetrachloroethylene (PCE)	127-18-4	0.4	0.055	0.4
2,3,4,6-Tetrachlorophenol	58-90-2	200	3	200
Tetrahydrofuran	109-99-9	620	10	620
Thallium	7440-28-0	0.5	0.50	0.5
Toluene**	108-88-3	600	1	600
Toxaphene	8001-35-2	0.03	1.2	1.2
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	20,000	0.3	20,000
2,4,5-TP (2-(2,4,5-Trichlorophenoxy) propionic acid)	93-72-1	60	0.6	60
1,2,4-Trichlorobenzene	120-82-1	1.1	1	1.1
1,1,1-Trichloroethane (TCA)	71-55-6	1,900	1	1,900
1,1,2-Trichloroethane	79-00-5	0.58	0.24	0.58
1,1,1-Trifluoroethane	420-46-2	5,000	60	5,000
Trichloroethylene (TCE)	79-01-6	0.28	0.10	0.28
Trichlorofluoromethane (Freon 11)	75-69-4	2,000	1	2,000
2,4,5-Trichlorophenol	95-95-4	700	10	700
2,4,6-Trichlorophenol	88-06-2	3.0	0.23	3.0
1,2,3-Trichloropropane (TCP)***	96-18-4	0.0005	0.0050	0.0050
2,4,6-Trinitrotoluene (TNT)	118-96-7	1	0.3	1
Tricresyl phosphate (mixed isomers)	1330-78-5 563-04-2 78-32-0	3	0.1	3
Tri-ortho-cresyl phosphate	78-30-8	3	0.1	3
Vanadium pentoxide	1314-62-1	60	1	60
Vinyl acetate	108-05-4	7,000	5	7,000
Vinyl chloride	75-01-4	0.022	0.035	0.035
Xylenes (Total)	1330-20-7	1,000	2	1,000

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Constituent	CASRN	Ground Water Quality Criterion*	Practical Quantitation Level (PQL)*	Higher of PQL and Ground Water Quality Criterion*
Zinc	7440-66-6	2,000	10	2,000
Microbiological Criteria ^m , Radionuclides & Turbidity	Standards promulgated in the Safe Drinking Water Act Rules (N.J.A.C. 7:10)			

Explanation of Terms:

- * = Ground water quality criteria and PQLs are expressed as micrograms per liter (*ug/L*) unless otherwise noted. Table 1 criteria are all maximum values unless clearly indicated as a range for which the minimum value is to the left and the maximum value is to the right.
- ** = revised via administrative change (see 39 N.J.R. 3538(a)).
- *** = revised via administrative change (see 50 N.J.R.1963(a)).
- PQL = Practical quantitation level as defined at N.J.A.C. 7:9C-1.4
- CASRN = Chemical Abstracts Service Registry Number
- NA = not available for this constituent.
- a = Asbestos criterion is measured in terms of fibers/liter longer than 10 micrometers ($f/L > 10 \mu m$)
- CU = Standard Cobalt Units
- b = Threshold Odor Number
- (Total) means the concentration of metal in an unfiltered sample following treatment with hot dilute mineral acid (as defined in "Methods for Chemical Analysis of Water & Wastes", USEPA-600/4-79-020, March 1979) or other digestion defined by the analytical method. However samples that contain less than 1 nephelometric turbidity unit (NTU) and are properly preserved, may be directly analyzed without digestion.
- m = Pursuant to prevailing Safe Drinking Water Act rules, any positive result for fecal coliform is in violation of the MCL and is therefore an exceedance of the ground water quality criteria.

Where there is a decimal point after the ground water quality criterion or PQL, the zero, as well as the non-zero digits are considered significant.

Table 2

Interim Generic Ground Water Quality Criteria

Interim Generic Criteria--Synthetic Organic Chemicals (SOC)

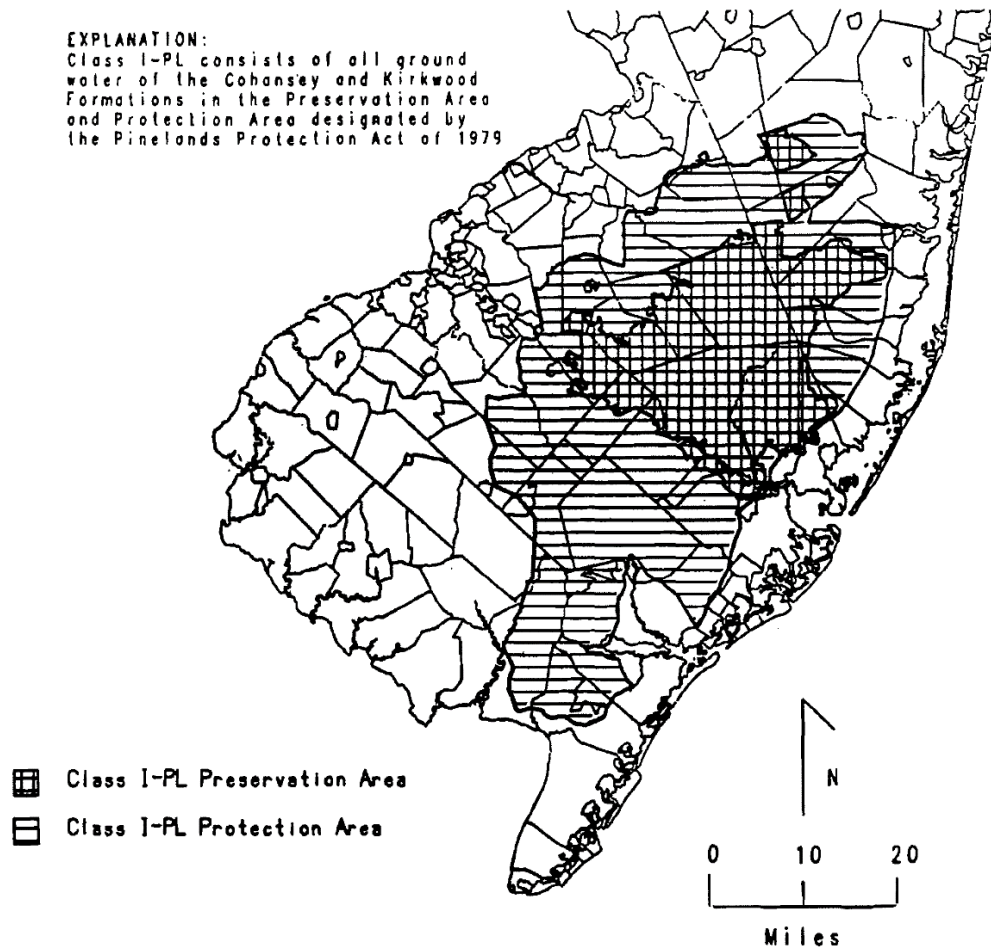
<u>Constituent</u>	<u>Criteria</u>
SOCs defined as carcinogens in N.J.A.C. 7:9C-1.4 lacking specific or interim specific criteria	5 ug/l each 25 ug/l total
SOCs defined as non-carcinogens in N.J.A.C. 7:9C-1.4 lacking specific or interim specific criteria	100 ug/l each 500 ug/ l total

Figure 1

New Jersey Ground Water Classification System

Class I-PL - New Jersey Pinelands

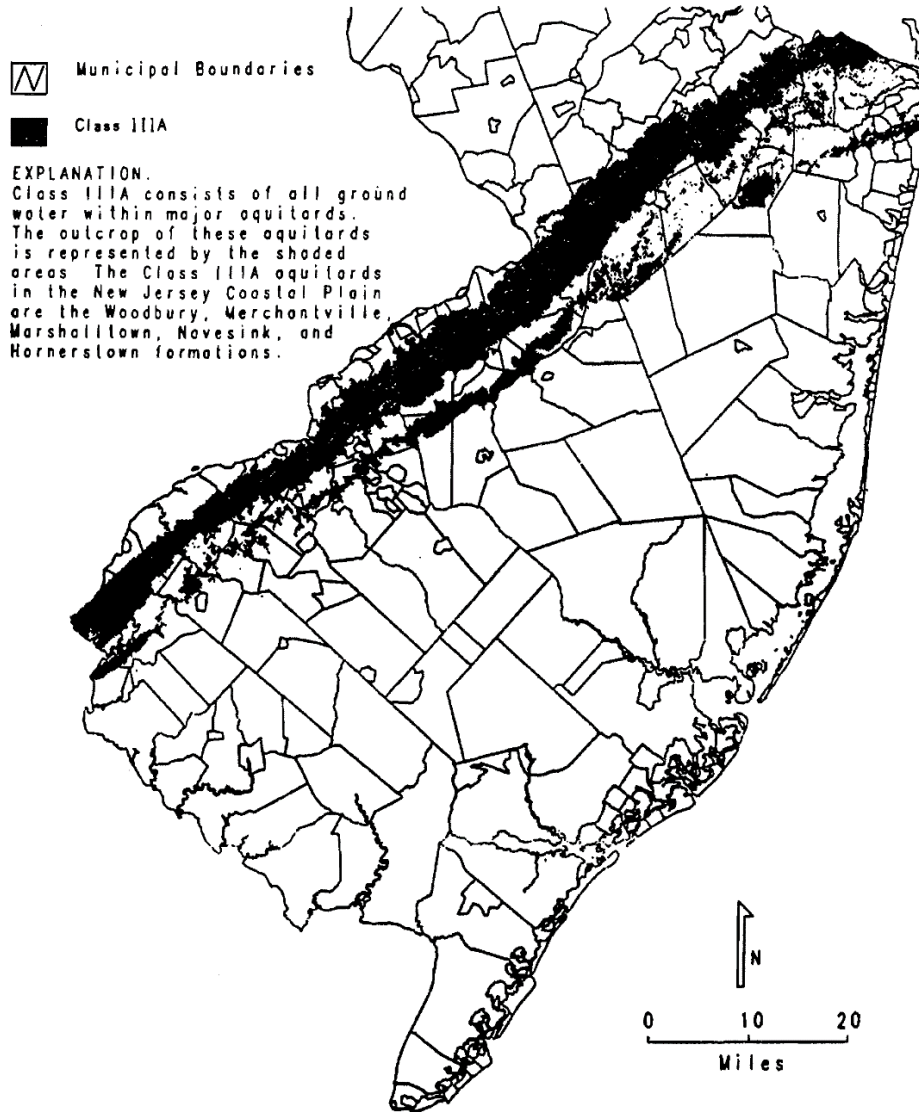
EXPLANATION:
Class I-PL consists of all ground
water of the Cohansey and Kirkwood
Formations in the Preservation Area
and Protection Area designated by
the Pinelands Protection Act of 1979



New Jersey Department of Environmental Protection
1990

FIGURE 2

New Jersey Ground Water Classification System
Class IIIA - Aquitards of the New Jersey Coastal Plain



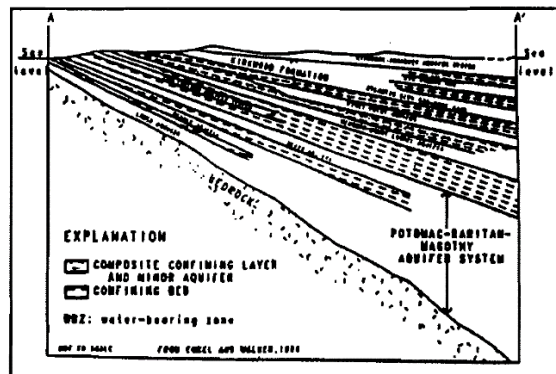
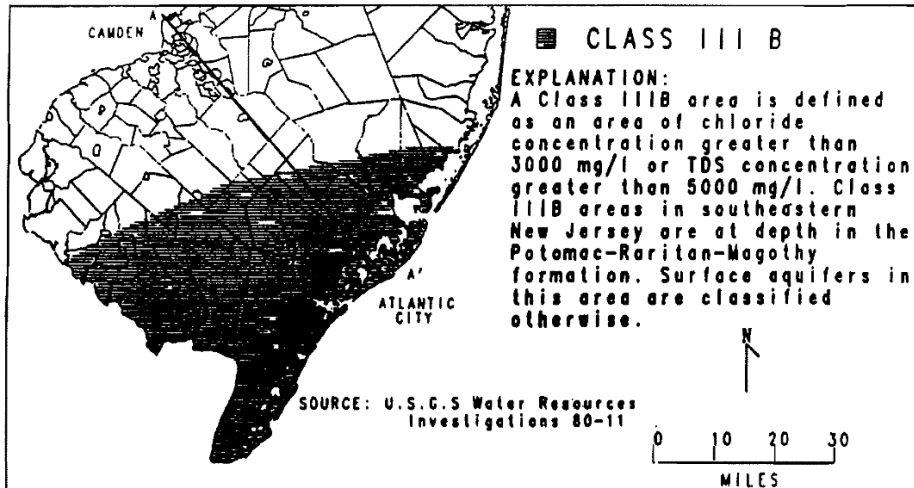
New Jersey Department of Environmental Protection
1990

FIGURE 3

NEW JERSEY GROUND WATER CLASSIFICATION SYSTEM

CLASS III B

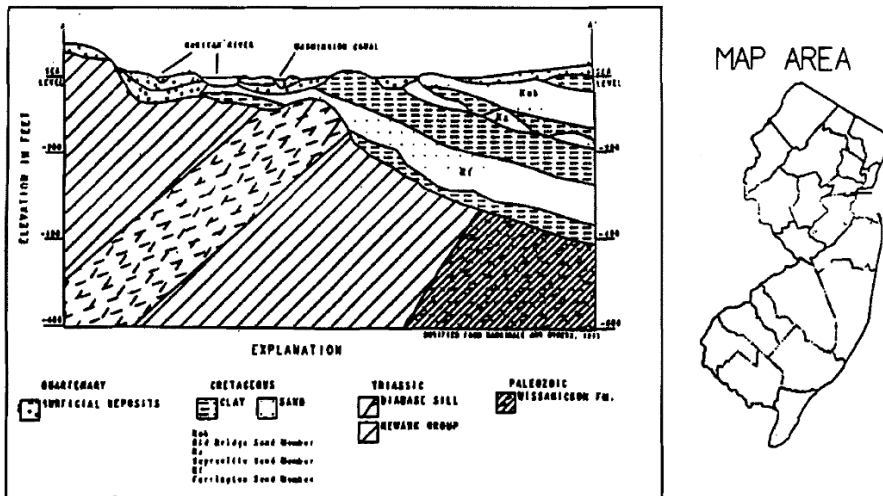
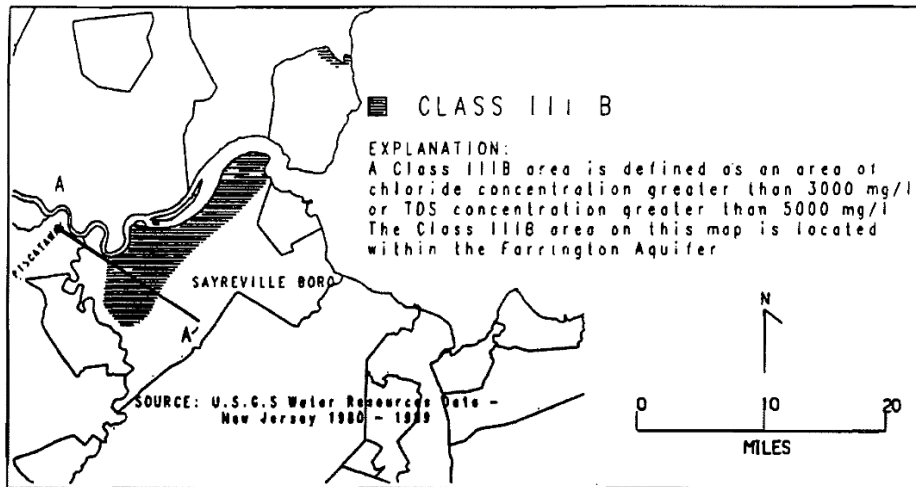
CRETACEOUS POTOMAC-RARITAN-MAGOTHY FORMATION



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
1990

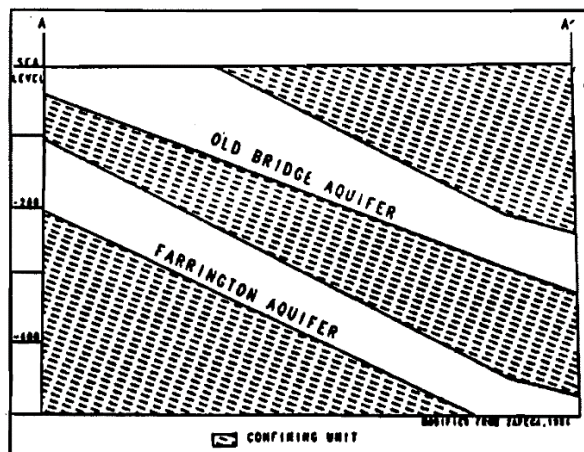
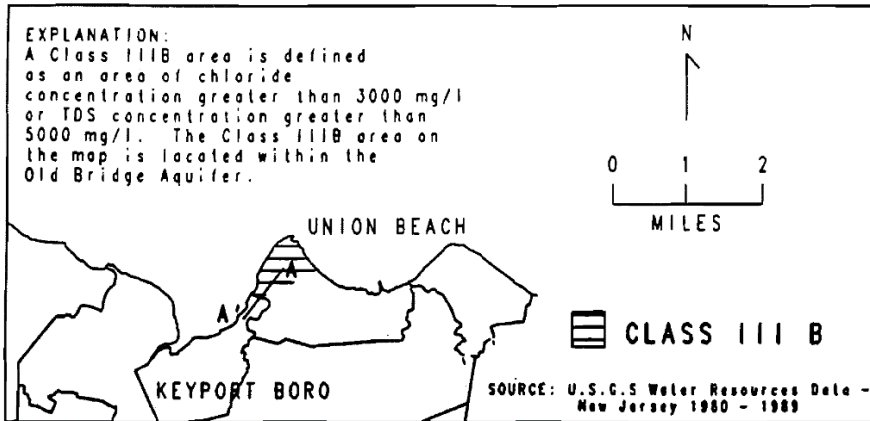
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FIGURE 4
 NEW JERSEY GROUND WATER CLASSIFICATION SYSTEM
 CLASS III B
 FARRINGTON AQUIFER



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
 1990

FIGURE 5
NEW JERSEY GROUND WATER CLASSIFICATION SYSTEM
CLASS III B
OLD BRIDGE AQUIFER



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
1990

APPENDIX Q

Safety Data Sheets

1. Identification

Product identifier PetroFix
Other means of identification None.
Recommended use Remediation of contaminants in soil and groundwater.
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name REGENESIS
Address 1011 Calle Sombra
 San Clemente, CA 92673 USA
General information 949-366-8000
E-mail CustomerService@regenesisis.com

Emergency phone number For Hazardous Materials Incidents ONLY (spill, leak, fire, exposure or accident), call CHEMTREC 24/7 at:
USA, Canada 1-800-424-9300
International 1-703-527-3887

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.
Hazard statement The mixture does not meet the criteria for classification.
Precautionary statement
Prevention Observe good industrial hygiene practices.
Response Wash hands after handling.
Storage Store away from incompatible materials.
Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Activated carbon <10 µm	7440-44-0	>25
Calcium sulfate dihydrate	10101-41-4	<10
Additive	-	<2

Composition comments All concentrations are in percent by weight unless otherwise indicated. Components not listed are either non-hazardous or are below reportable limits. Chemical ingredient identity and/or concentration information withheld for some or all components present is confidential business information (trade secret), and is being withheld as permitted by 29 CFR 1910.1200(i).

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides, nitrogen oxides, sulfur oxides, calcium oxide.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	This material will not burn until the water has evaporated. Residue can burn. When dry may form combustible dust concentrations in air.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	<p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Activated carbon <10 µm (CAS 7440-44-0)	TWA	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Activated carbon <10 µm (CAS 7440-44-0)	TWA	2 mg/m ³	Respirable fraction.
Calcium sulfate dihydrate (CAS 10101-41-4)	TWA	10 mg/m ³	Inhalable fraction.

Biological limit values	No biological exposure limits noted for the ingredient(s).
--------------------------------	--

Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Skin protection	
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Aqueous suspension.
Color	Black.
Odor	Odorless.
Odor threshold	Not available.
pH	8 - 10
Melting point/freezing point	32 °F (0 °C).
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Vapor pressure	Property has not been measured.
Vapor density	Property has not been measured.
Relative density	Property has not been measured.
Solubility(ies)	
Solubility (water)	Not determined.
Partition coefficient (n-octanol/water)	Not applicable, product is a mixture. Not applicable, product is a mixture.
Auto-ignition temperature	Property has not been measured.
Decomposition temperature	Property has not been measured.
Viscosity	Not available.
Other information	
Density	Property has not been measured.
Explosive properties	Not explosive.
Flammability	This material will not burn until the water has evaporated.
Kinematic viscosity	Property has not been measured.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

Conditions to avoid	May generate combustible dust if material dries. Contact with incompatible materials. Avoid drying out product.
Incompatible materials	Acids. Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Spray mist may irritate the respiratory system. For dry material: Dust may irritate respiratory system.
Skin contact	Prolonged or repeated exposure may cause minor irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components	Species	Test Results
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Activated carbon <10 µm (CAS 7440-44-0)

Acute

Oral

LD50

Rat

> 10000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation. Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer. Based on available data, the classification criteria are not met.

Skin sensitization This product is not expected to cause skin sensitization. Based on available data, the classification criteria are not met.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Based on available data, the classification criteria are not met.

Carcinogenicity Not classifiable as to carcinogenicity to humans. Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects. Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure Not classified. Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure Not classified. Based on available data, the classification criteria are not met.

Aspiration hazard Not an aspiration hazard. Based on available data, the classification criteria are not met.

Chronic effects Prolonged inhalation may be harmful.

Further information No other specific acute or chronic health impact noted.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	None known.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Toxic Substances Control Act (TSCA) All components of the mixture on the TSCA 8(b) inventory are designated "active".

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Calcium sulfate dihydrate (CAS 10101-41-4)

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Activated carbon <10 µm (CAS 7440-44-0)

Calcium sulfate dihydrate (CAS 10101-41-4)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	15-February-2018
Revision date	02-December-2021
Version #	02
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0 Personal protection: B

NFPA ratings**Disclaimer**

Regenesis cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/29/2015

Reviewed on 05/29/2015

1 Identification

- **Product identifier**
- **Trade name:** Petrox
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Product description** Soil bioremediation solution used to neutralize pollutants.
- **Application of the substance / the mixture** Bioremediation of soil.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Osprey Biotechnics, Inc.
1833A 57th Street
Sarasota, FL 34243
941-351-2700
- **Emergency telephone number:** Chemtrec 1-800-424-9300 or outside USA 1-703-527-3887

2 Hazard(s) Identification

- **Classification of the substance or mixture**



GHS03 Flame over circle

Ox. Sol. 2 H272 May intensify fire; oxidizer.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H332 Harmful if inhaled.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS03 GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Trade Secret
Sodium Nitrate
- **Hazard statements**
May intensify fire; oxidizer.
Harmful if swallowed or if inhaled.
Causes serious eye irritation.
May cause respiratory irritation.
- **Precautionary statements**
Take any precaution to avoid mixing with combustibles.
Keep away from heat.

(Contd. on page 2)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/29/2015

Reviewed on 05/29/2015

Trade name: Petrox

- Keep/Store away from clothing/combustible materials.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves / eye protection / face protection.
- Wear eye protection / face protection.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If swallowed: Call a poison center/doctor if you feel unwell.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- If eye irritation persists: Get medical advice/attention.
- Rinse mouth.
- In case of fire: Use for extinction: CO2, powder or water spray.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Unknown acute toxicity:**
18 percent of the mixture consists of ingredient(s) of unknown toxicity.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

The substance possesses oxidizing properties.

- **HMIS-ratings (scale 0 - 4)**



Health = 1
Fire = 3
Reactivity = 0

- **Hazard(s) not otherwise classified (HNOC):** None

2 Composition/Information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous Components:**

Trade Secret	25-50%
⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320; Combustible Dust	
7631-99-4 Sodium Nitrate	15-35%
⚠ Ox. Sol. 2, H272; ⚠ Eye Irrit. 2A, H319	

4 First aid measures

- **Description of first aid measures**
- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

(Contd. on page 3)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/29/2015

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Trade name: Petrox

- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.
In case of unconsciousness, place patient securely on side position for transportation.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
If incinerated, product will release the following: Sodium Oxides, Nitrogen Oxides (NO_x), Carbon Oxides, Sulfur Oxides.
- **Advice for firefighters**
Product has a combustible dust hazard. Avoid generating dust while extinguishing any fires.
Wet or damp material may start to decompose and release heat causing any nearby combustibles to catch fire. If containers begin to discolor or vent violently, emergency responders should evacuate area.
Use water spray to cool unopened containers.
When product decomposes, it will release oxygen, which may intensify fires. Use caution.
- **Protective equipment:**
Mouth respiratory protective device.
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
- **Information about protection against explosions and fires:**
Protect from heat.
Keep protective respiratory device available.

(Contd. on page 4)

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Issue date 05/29/2015

Reviewed on 05/29/2015

Trade name: Petrox

Conditions for safe storage, including any incompatibilities

Store away from strong acids, strong bases, strong oxidizing agents, strong reducing agents, powdered metals, organic materials, Alkali metals, Alkaline earth metals, Cyanides and Thiocyanates.

Storage:**Requirements to be met by storerooms and receptacles:**

Store below 32 °F and keep frozen until ready to hydrate.

Information about storage in one common storage facility: Not required.**Further information about storage conditions:**

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

Specific end use(s) No further relevant information available.*** Exposure controls/personal protection****Additional information about design of technical systems:** No further data; see section 7.**Control parameters**

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation of this SDS were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

Not necessary if room is well-ventilated.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:

Safety glasses

(Contd. on page 5)

Safety Data Sheet (SDS)

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Issue date 05/29/2015

Reviewed on 05/29/2015

Trade name: Petrox

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Crystalline powder

Color: Light Tan

· **Odor:** Savory

· **Odor threshold:** Not determined.

· **pH-value @ 20 °C (68 °F):** < 8

· **Change in condition**

Melting point/Melting range: Not determined.

Boiling point/Boiling range: 600 °C (1112 °F)

· **Flash point:** 210 °C (410 °F)

· **Flammability (solid, gaseous):** Contact with combustible material may cause fire.

· **Ignition temperature:**

Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapor pressure:** Not applicable.

· **Density:**

Relative density Not determined.

Vapor density Not applicable.

Evaporation rate Not applicable.

· **Solubility in / Miscibility with**

Water: Soluble.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic: Not applicable.

Kinematic: Not applicable.

· **Solvent content:**

Organic solvents: 0.0 %

Solids content: 100.0 %

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.

· **Chemical stability** Stable under normal conditions.

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

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Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/29/2015

Reviewed on 05/29/2015

Trade name: **Petrox**

- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**
Strong acids, strong bases, strong oxidizing agents, strong reducing agents, powdered metals, organic materials, Alkali metals, Alkaline earth metals, Cyanides and Thiocyanates.
- **Hazardous decomposition products:**
Sodium Oxides, Nitrogen Oxides (NOx), Carbon Oxides, Sulfur Oxides.

* 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** No irritating effect.
 - **on the eye:** Causes serious eye irritation.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
Substance is not listed.
None of the ingredients are listed.
- **NTP (National Toxicology Program)**
None of the ingredients are listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients are listed.

* 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**
7631-99-4 Sodium Nitrate
EC50 6000 mg/l (Water flea)
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

* 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.




Issue date 05/29/2015

Reviewed on 05/29/2015

Trade name: Petrox

- **Uncleaned packagings:**
- **Recommendation:**
Packagings that cannot be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

14 Transport information

- **UN-Number** UN1479
- **DOT, ADR, IMDG, IATA** UN1479
- **UN proper shipping name** Oxidizing solid, n.o.s. (Sodium nitrate)
- **DOT** UN1479 Oxidizing solid, n.o.s. (Sodium nitrate)
- **ADR** OXIDIZING SOLID, N.O.S. (SODIUM NITRATE)
- **IMDG, IATA**
- **Transport hazard class(es)**
- **DOT**
- 
 - **Class** 5.1 Oxidizing substances
 - **Label** 5.1
 - **ADR**
- 
 - **Class** 5.1 (O2) Oxidizing substances
 - **Label** 5.1
 - **IMDG, IATA**
- 
 - **Class** 5.1 Oxidizing substances
 - **Label** 5.1
 - **Packing group** III
 - **DOT, ADR, IMDG, IATA** III
 - **Environmental hazards:** Not applicable.
 - **Special precautions for user** Warning: Oxidizing substances
 - **Danger code (Kemler):** 50
 - **EMS Number:** F-A,S-Q
 - **Segregation groups** Powdered metals, ammonium compounds, cyanides, peroxides
 - **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
 - **Transport/Additional information:**
 - **DOT**
 - **Quantity limitations** On passenger aircraft/rail: 25 kg
On cargo aircraft only: 100 kg

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Safety Data Sheet (SDS)

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Issue date 05/29/2015

Reviewed on 05/29/2015

Trade name: **Petrox**

- **ADR**
- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g

- **IMDG**
- **Limited quantities (LQ)** 5 kg
- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g

- **UN "Model Regulation":** UN1479, Oxidizing solid, n.o.s. (Sodium nitrate), 5.1, III

* 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):**
None of the ingredients are listed.
- **Section 313 (Specific toxic chemical listings):**
None of the ingredients are listed.
- **TSCA (Toxic Substances Control Act):**
 - 50-99-7 glucose
 - 7631-99-4 Sodium Nitrate
 - 7772-98-7 Sodium thiosulphate
- **California Proposition 65**
- **Chemicals known to cause cancer:**
None of the ingredients are listed.
- **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients are listed.
- **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients are listed.
- **Chemicals known to cause developmental toxicity:**
None of the ingredients are listed.
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)**
None of the ingredients are listed.
- **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients are listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients are listed.
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).

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Safety Data Sheet (SDS)

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Issue date 05/29/2015

Reviewed on 05/29/2015

Trade name: *Petrox*

Hazard pictograms



GHS03 GHS07

Signal word Danger

Hazard-determining components of labeling:

Trade Secret
Sodium Nitrate

Hazard statements

May intensify fire; oxidizer.
Harmful if swallowed or if inhaled.
Causes serious eye irritation.
May cause respiratory irritation.

Precautionary statements

Take any precaution to avoid mixing with combustibles.
Keep away from heat.
Keep/Store away from clothing/combustible materials.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves / eye protection / face protection.
Wear eye protection / face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If swallowed: Call a poison center/doctor if you feel unwell.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If eye irritation persists: Get medical advice/attention.
Rinse mouth.
In case of fire: Use for extinction: CO2, powder or water spray.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

State Right to Know

	Trade Secret	25-50%
	⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320; Combustible Dust	
CAS: 50-99-7	glucose	25-50%
CAS: 7631-99-4	Sodium Nitrate	15-35%
	⚠ Ox. Sol. 2, H272; ⚠ Eye Irrit. 2A, H319	
CAS: 91079-46-8	Peptones, soybean	5-10%
CAS: 7772-98-7	Sodium thiosulphate	≤ 2.5%
RTECS: XN6476000		

All ingredients are listed.

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OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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Reviewed on 05/29/2015

Trade name: Petrox

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of preparation / last revision** 05/29/2015 / -

- **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
Ox. Sol. 2: Oxidising Solids, Hazard Category 2
Acute Tox. 4: Acute toxicity, Hazard Category 4
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

- *** Data compared to the previous version altered.**

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

Oxygen Release Compound (ORC[®])
MATERIAL SAFETY DATA SHEET (MSDS)

Last Revised: March 27, 2013

Section 1 - Material Identification

Supplier:



1011 Calle Sombra
San Clemente, CA 92673

Phone: 949.366.8000

Fax: 949.366.8090

E-mail: info@regenesis.com

Chemical Description: A mixture of Magnesium Peroxide (MgO₂), Magnesium Oxide (MgO), and Magnesium Hydroxide [Mg(OH)₂]

Chemical Family: Inorganic Chemical

Trade Name: Oxygen Release Compound (ORC[®])

Product Use: Used to remediate contaminated soil and groundwater (environmental applications)

Section 2 – Chemical Identification

<u>CAS#</u>	<u>Chemical</u>
14452-57-4	Magnesium Peroxide (MgO ₂)
1309-48-4	Magnesium Oxide (MgO)
1309-42-8	Magnesium Hydroxide [Mg(OH) ₂]
7758-11-4	Dipotassium Phosphate (HK ₂ O ₄ P)
7778-77-0	Monopotassium Phosphate (H ₂ KO ₄ P)
Assay:	25-35% Magnesium Peroxide (MgO ₂)

Regenesis-Oxygen Release Compound (ORC[®])

Section 3 - Physical Data

Melting Point:	Not Determined (ND)
Boiling Point:	ND
Flash Point:	Not Applicable (NA)
Self-Ignition Temperature:	NA
Thermal Decomposition:	Spontaneous Combustion possible at $\approx 150^{\circ}\text{C}$
Density:	0.6 – 0.8 g/cc
Solubility:	Reacts with Water
pH:	Approximately 10 in saturated solution
Appearance:	White Powder
Odor:	None
Vapor Pressure:	None
Hazardous Decomposition Products:	Not Known
Hazardous Reactions:	Hazardous Polymerization will not occur
Further Information:	Non-combustible, but will support combustion

Section 4 – Reactivity Data

Stability:	Product is stable unless heated above 150 °C. Magnesium Peroxide reacts with water to slowly release oxygen. Reaction by product is Magnesium Hydroxide
Conditions to Avoid:	Heat above 150 °C. Open Flames.
Incompatibility:	Strong Acids. Strong Chemical Agents.
Hazardous Polymerization:	None known.

Regenesis-Oxygen Release Compound (ORC[®])

Section 5 - Regulations

Permissible Exposure Limits in Air **Not Established. Should be treated as a nuisance dust.**

Section 6 – Protective Measures, Storage and Handling

Technical Protective Measures

Storage: **Keep in tightly closed container. Keep away from combustible material.**

Handling: **Use only in well ventilated areas.**

Personal Protective Equipment (PPE)

Respiratory Protection: **Recommended (HEPA Filters)**

Hand Protection: **Wear suitable gloves.**

Eye Protection: **Use chemical safety goggles.**

Other: **NA**

Industrial Hygiene: **Avoid contact with skin and eyes**

Protection Against Fire & Explosion: **NA**

Disposal: **Dispose via sanitary landfill per state/local authority**

Further Information: **Not flammable, but may intensify a fire**

After Spillage/Leakage/Gas Leakage: **Collect in suitable containers. Wash remainder with copious quantities of water.**

Extinguishing Media: **NA**

Suitable: **Carbon Dioxide, dry chemicals, foam**

Further Information: **Self contained breathing apparatus or approved gas mask should be worn due to small particle size. Use extinguishing media appropriate for surrounding fire.**

First Aid: **After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.**

Section 7 – Information on Toxicology

Toxicity Data: **Not Available**

Section 8 – Information on Ecology

**Water Pollution Hazard
Rating (WGK):** **0**

Section 9 – Further Information

After the reaction of magnesium peroxide with water to form oxygen, the resulting material, magnesium hydroxide, is mildly basic. The amounts of magnesium oxide (magnesia) and magnesium hydroxide in the initial product have an effect similar to lime, but with lower alkalinity.

The information contained in this document is the best available to the supplier at the time of writing, but is provided without warranty of any kind. Some possible hazards have been determined by analogy to similar classes of material. The items in this document are subject to change and clarification as more information become available.

APPENDIX R

Photo Log

PHOTOGRAPHIC DOCUMENTATION

RIR-RAW Addendum
Noor Petroleum
North Brunswick, NJ
ECC No. N-NB1696G
PI No. 010180



Photograph 1. View of the site building from the corner of Route 130 and Washington Place



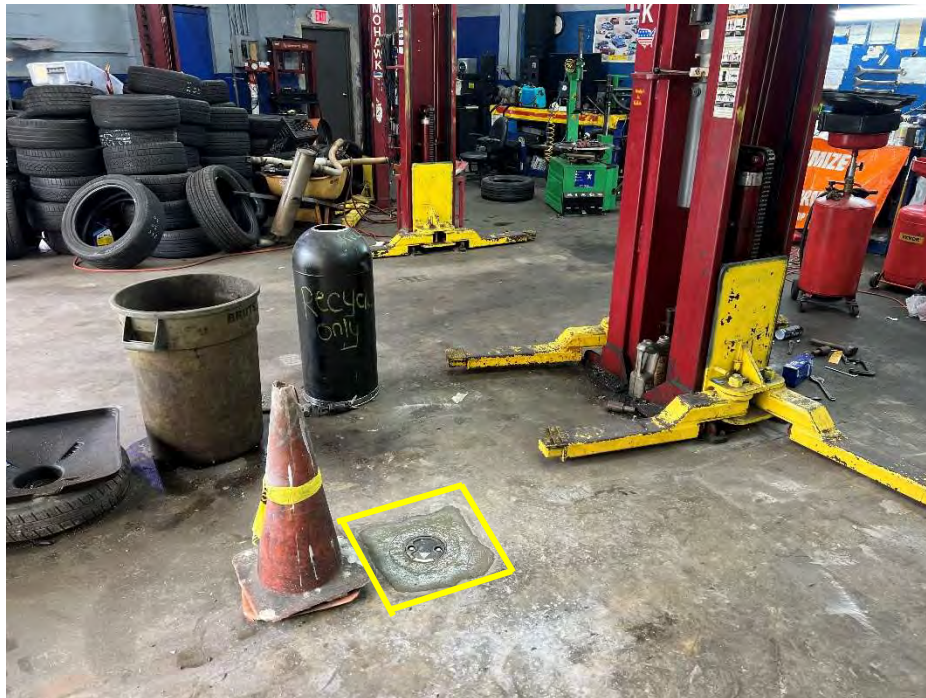
Photograph 2. View of rear parking lot as well as 3 ASTs (Aboveground Storage tanks)

PHOTOGRAPHIC DOCUMENTATION

RIR-RAW Addendum
Noor Petroleum
North Brunswick, NJ
ECC No. N-NB1696G
PI No. 010180



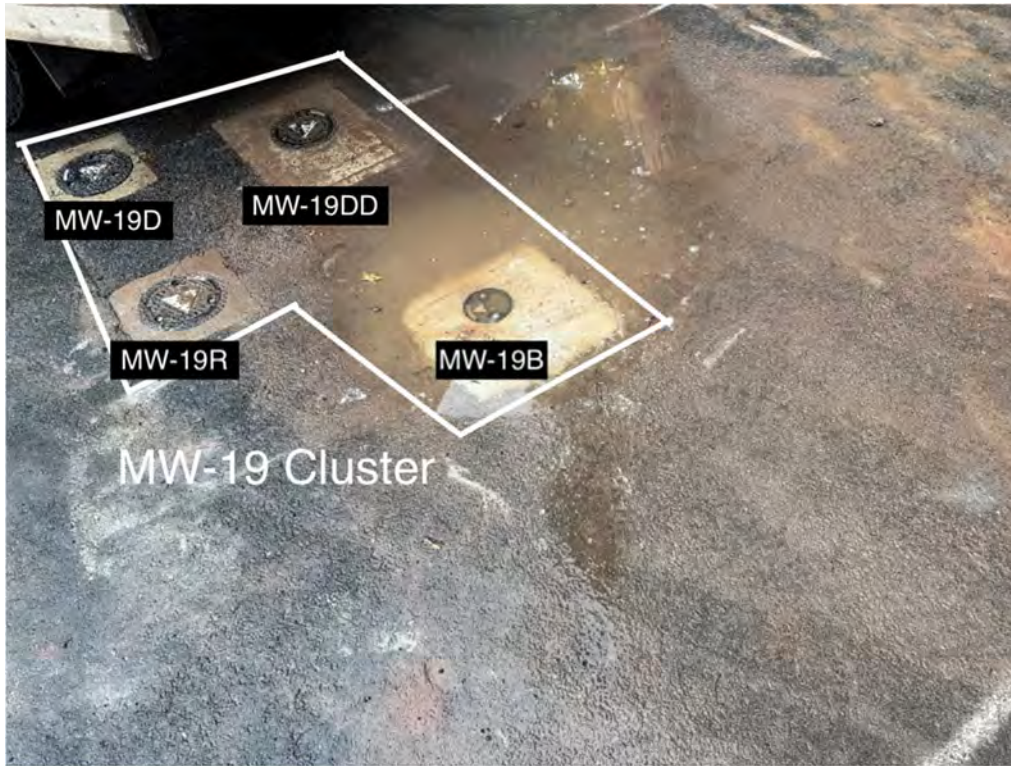
Photograph 3. MW-23 Installed in garage bay area



Photograph 4. MW-22 Installed in garage bay area

PHOTOGRAPHIC DOCUMENTATION

RIR-RAW Addendum
Noor Petroleum
North Brunswick, NJ
ECC No. N-NB1696G
PI No. 010180



Photograph 5. MW-19 Cluster of wells installed behind building. MW-19B installed to a total depth of 38 ft bgs



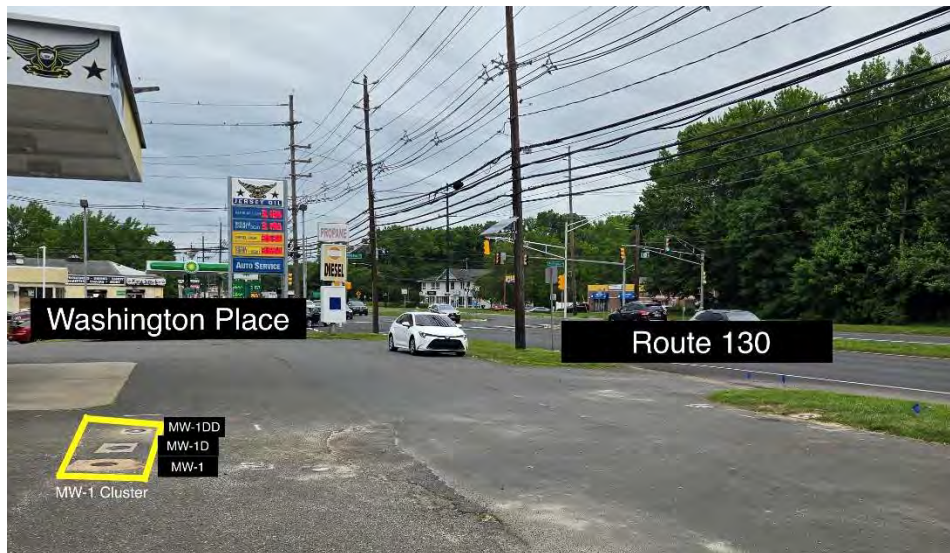
Photograph 6: Public notice of site work being conducted

PHOTOGRAPHIC DOCUMENTATION

RIR-RAW Addendum
Noor Petroleum
North Brunswick, NJ
ECC No. N-NB1696G
PI No. 010180



Photograph 7: Zoomed in photo of public notice sign



Photograph 8: MW-1 Cluster in comparison to Washington PI and Route 130

PHOTOGRAPHIC DOCUMENTATION

RIR-RAW Addendum
Noor Petroleum
North Brunswick, NJ
ECC No. N-NB1696G
PI No. 010180



Photograph 9: MW-25, 25D location in comparison to the shed in the back parking lot



Photograph 10: Fuel pump island facing Route 130.

PHOTOGRAPHIC DOCUMENTATION

RIR-RAW Addendum
Noor Petroleum
North Brunswick, NJ
ECC No. N-NB1696G
PI No. 010180



Photograph 11: Picture of MW-3 (MW-3 and 3D) Cluster facing Washington Place from the site property



Photograph 12: This photo depicts the tank field from the angle of Route 130 looking onto 1696 US-130. As well as MW-2 depicted in Green.

PHOTOGRAPHIC DOCUMENTATION

RIR-RAW Addendum
Noor Petroleum
North Brunswick, NJ
ECC No. N-NB1696G
PI No. 010180



Photograph 13: Photo depicting MW-14 behind 1674 US-130.



Photograph 14: Photo depicting MW-5 (Green) and 5D (Yellow) looking towards US-130.