

TRANSCONTINENTAL GAS PIPELINE COMPANY LLC
1343D

Temporary Dewatering Permit : DWP180001

Permit Inventory

Water Diversion Sources - Water may be diverted under this permit from the following sources:

Source Designation (Well Permit No. or Intake No.)	Description	Subject Item ID
WELLPOINTS AND TRENCHES	DEWATERING SYSTEM	WSRM0001421906

Group Subject Items - The following items are grouped sources for the purpose of setting permit requirements outlined in this document:

Group Designation	Group Description	Group Subject Item ID	Group Members
TRANSCONTINENTAL GAS PIPELINE CO. LLC.	1343D DEW - ALL DIVERSION SOURCES	WSWA0001421907	WELLPOINTS AND TRENCHES, DEWATERING SYSTEM (WSRM1421906)

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Permit Requirements

Limit Requirements

The following limits apply and are the maximum permitted allocation:

Final Permit Phase

Subject Item	Parameter	Limit
TRANSCONTINENTAL GAS PIPELINE CO. LLC., 1343D DEW - ALL DIVERSION SOURCES (WSWA1421907)	Maximum Diversion Rate	<= 800 Gallons Per Minute. [N.J.A.C. 7:19- 2]
	Water Diverted	<= 6 Million Gallons Per Month. [N.J.A.C. 7:19- 2]

Other Limit Requirements

Final Permit Phase

Subject Item	Parameter	Limit
WELLPOINTS AND TRENCHES, DEWATERING SYSTEM (WSRM1421906)	Rated Pump Capacity	800 Gallons Per Minute. [N.J.A.C. 7:19- 2]

Monitoring Requirements

Final Permit Phase

Subject Item	Requirement	Frequency	Monitored Parameter	Monitoring Method
WELLPOINTS AND TRENCHES, DEWATERING SYSTEM (WSRM1421906)	The monthly diversion for each source indicated shall be monitored. [N.J.A.C. 7:19- 2]	Each Month	Water Diverted	Meter

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Record Keeping Requirements

Final Permit Phase

Subject Item	Requirement	Frequency	Monitored Parameter	Record Keeping Method
TRANSCONTINENTAL GAS PIPELINE CO. LLC., 1343D DEW - ALL DIVERSION SOURCES (WSWA1421907)	A log book of month end meter readings for each diversion source shall be maintained on site. [N.J.A.C. 7:19- 2]	Each Month	Meter Reading	Log Book

Submittal/Action Requirements

Final Permit Phase

Applicable Subject Items	Submittal/Action Type	Requirement
WELLPOINTS AND TRENCHES, DEWATERING SYSTEM (WSRM1421906)	Submit Dewatering Quarterly Report	The required monitoring results shall be recorded on the form provided by the Department. The completed form shall be submitted within 30 days after the end of each quarter. [N.J.A.C. 7:19- 2]
TRANSCONTINENTAL GAS PIPELINE CO. LLC., 1343D DEW - ALL DIVERSION SOURCES (WSWA1421907)	Submit Dewatering Completion Report	The permittee shall submit a completion report including the date the project was completed and abandonment reports for all wells and/or wellpoints used. The completed report shall be submitted within 60 days of completion of the project. [N.J.A.C. 7:19- 2]
TRANSCONTINENTAL GAS PIPELINE CO. LLC., 1343D DEW - ALL DIVERSION SOURCES (WSWA1421907)	Submit Renewal Application	A renewal application must be submitted three months prior to the expiration date. [N.J.A.C. 7:19- 2]

Text Requirements

All Phases

TRANSCONTINENTAL GAS PIPELINE CO. LLC., 1343D DEW - ALL DIVERSION SOURCES (WSWA1421907)

1. The permittee shall investigate any complaints by users of wells or surface water supplies which become damaged, dry, have reduced capacity, reduced water quality or are otherwise rendered unusable as a result of the permittee's dewatering operations. A report on these investigations shall be forwarded to the Bureau of Water Allocation and Well Permitting. Those wells or surface water supplies which become damaged, dry, have reduced capacity, reduced water quality or are otherwise rendered unusable as a result of the dewatering operation shall be repaired or replaced at the expense of the permittee. The permittee shall assume financial responsibility for the reparation, or replacement and sealing of such wells which have been rendered unusable and have been abandoned by the owner in accordance with N.J.S.A. 58:4A-4.1. The Department of Environmental Protection will make the final determination regarding the validity of such complaints and will determine how to resolve any problems resulting from the diversion. [N.J.A.C. 7:19- 2]
2. The permittee shall have a contingency plan in place to temporarily supply potable water in the event that the diversion adversely impacts the water supply of other users. [N.J.A.C. 7:19- 2]
3. The total diversion shall be metered with a totalizing flow meter. [N.J.A.C. 7:19- 2]

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Text Requirements

All Phases

TRANSCONTINENTAL GAS PIPELINE CO. LLC., 1343D DEW - ALL DIVERSION SOURCES (WSWA1421907)

4. All wells and points shall be examined after use and properly sealed in accordance with N.J.A.C. 7:9D-3.1 et seq. [N.J.A.C. 7:9D-3]
5. The Department may modify, suspend or terminate this permit, after due process, for violations of permit conditions, N.J.S.A. 58:1A-1, N.J.A.C. 7:19-1 et seq., any orders issued by the Department, or when in the public interest. [N.J.A.C. 7:19-2]
6. The permittee is subject to such initial, modification and annual fees as may be prescribed by the regulations. [N.J.A.C. 7:19-3]
7. The permittee shall have the right to apply at any time for modification of this permit by submission of the appropriate application forms. [N.J.A.C. 7:19-2]
8. The permittee may informally discuss the terms and conditions of this permit at any time with the Bureau of Water Allocation and Well Permitting. [N.J.A.C. 7:19-2]
9. This permit is revocable, or subject to modification or change at any time, pursuant to the applicable regulations, when in the judgement of the Department of Environmental Protection of the State of New Jersey such revocation, modification or change shall be necessary. [N.J.A.C. 7:19-2]
10. The issuance of this permit shall not be deemed to affect in any way action by the Department of Environmental Protection of the State of New Jersey on any future application. [N.J.A.C. 7:19-2]
11. No change in plans or specifications shall be made except with the prior written permission of the Department of Environmental Protection of the State of New Jersey. [N.J.A.C. 7:19-2]
12. The granting of this permit shall not be construed to in any way affect the title or ownership of property, and shall not make the Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:19-2]
13. 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 approval and permits have been obtained. [N.J.A.C. 7:19-2]
14. A copy of this permit shall be kept at the work site, and shall be exhibited upon request of any authorized Department representative. [N.J.A.C. 7:19-2]
15. The Department has the right to enter and inspect any site, building, or equipment, or any portion thereof, owned or operated by the permittee, at any time, in order to ascertain compliance or noncompliance with N.J.S.A. 58:1A-1 et seq., 58:4A-4.1 et seq., 58:12A-1 et seq., these rules, or any other agreement or order issued or entered into pursuant thereto. Such right shall include, but not be limited to, the right to require the testing of any equipment at the facility, to sketch or photograph any portion of the site, building or equipment, to copy or photograph any document or records necessary to determine such compliance or noncompliance, and to interview any employees or representative of the owner, operator, or permittee. Such right shall be absolute and shall not be conditioned upon any action by the Department, except the presentation of appropriate credentials as requested and compliance with appropriate standard safety procedures. [N.J.A.C. 7:19-2]
16. This permit may be transferred, with the consent of the Department, but only for the identical use of the waters. [N.J.A.C. 7:19-2]
17. If the authorized diversion privileges are not currently diverted, subject to contract, or reasonably required for a demonstrated future need, they shall revert back to the State upon renewal or modification of the permit. [N.J.A.C. 7:19-2]
18. The permittee shall protect each source from vandalism, tampering, and contamination at all times. [N.J.A.C. 7:19-2]
19. This permit shall expire as indicated on the permit approval cover page. [N.J.A.C. 7:19-2]

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03/13/2019

**STAFF REPORT
DEWATERING**

In the matter of TRANSCONTINENTAL GAS PIPELINE COMPANY LLC

Water Allocation Application No. 1343D, to temporarily divert water from trenches and pits in the following Municipality and County:

Old Bridge Township, Middlesex County

In compliance with the provisions of N.J.S.A. 58:1A-1 et seq., TRANSCONTINENTAL GAS PIPELINE COMPANY LLC, 2800 Post Oak Rd, Level 11 Houston, Texas, 77056, filed an application with the Department of Environmental Protection on March 16, 2018 and amended on May 2, 2018 for approval of plans to divert a maximum of 6 million gallons of water during any month (mgm) at a maximum rate of 800 gallons per minute from trenches and pits 7 to 15 feet deep. The trenches and pits are located along an existing Transco pipeline right of way.

Diversion is for the purpose of temporary dewatering for expansion and upgrades to the existing natural gas pipeline.

Public notice was required as this is an application for a new diversion. A notice of application and public hearing was published on March 2, 2019 in the Home News Tribune.

A hearing is scheduled by the Department and will be held on March 18, 2019 at the Jo Ann Magistro Performing Arts Center in East Brunswick.

Background/Findings of Fact

1. This permit is required as dewatering will continue for approximately 12 months after the start of the project.
2. The diversion includes trenches and pits, 7 feet to 15 feet deep.
3. According to the applicant's Engineering Report, ground water is encountered at the site from 1 to 107 feet below grade.
4. The ground surface elevations at the site vary from 16 feet to 127 feet above sea level.
5. Excavation at the site will vary from 7 feet to 15 feet below grade. Dewatering is expected to occur to a depth of 15 feet below grade.

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6. The total length of the project is 9,507 linear feet. The total length of the construction trenches will be 5,120 linear feet. The maximum length of open trench will be 250 linear feet at any one time. The average diversion in gallons of water per foot length of open trench is estimated to be 963 gallons/foot.
7. The applicant's estimate of the quantity of water to be diverted each month is based upon the project excavation depth, anticipated depth to the water table, soil classification, permeability coefficients, and soil samples from geotechnical borings, and using the Dupuit-Forchheimer equation for directional drilling launch and exit pits and estimated two-sided line form for open trenches. The requested allocation is based on the conservative assumption of two times the projected diversion needs.
8. The temporary diversion is located within the threatened portion of Critical Area 1 for the Upper Potomac Raritan Magothy aquifer. Temporary dewatering diversions are exempt from the critical area rules.
9. Other sub-surface diversions within a one quarter mile radius include 6 private domestic wells and 2 industrial wells. Records indicate that the wells range in depth from 68 feet to 203 feet. These wells include:

Well Owner	Well Permit No.	Depth (feet)	Aquifer	Capacity (gpm)	Distance (feet)
Gustave Mayer	29-3	100	Old Bridge	10	1,089
Daniel Talbot	29-19	116	Old Bridge	15	1,089
George Cherefko	29-36	203	Englishtown	8	1,089
Roy Kurre	29-2671	184	Old Bridge	60	713
Joseph Palgrey	29-2778	196	Old Bridge	10	713
S.M. Building Material Co.	29-2840	80	Old Bridge	7	125
BASF (11401W)	29-8130	68	Old Bridge	0	1,956
Reclamation Technologies	29-15345	102	Old Bridge	25	100

10. Public water supply wells within a one-mile radius include the following:

Well Owner	No. of Wells	Depth (feet)	Aquifer	Capacity (gpm)	Distance (miles)
Sayreville Borough	10	62 - 291	Old Bridge, Farrington	100 - 1,250	0.5 - 1.0

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11. According to the applicant there are 5 landfills or other potential pollution sites known to be located within a one-quarter mile radius of the dewatering activity. These include:

Name of Source	Distance (feet)	Aquifer Affected	Status
Reclamations Technologies	400	Magothy	Active
Road Department Garage Area 3-1	300	Pennsauken, Magothy	Non-Remedial
Global Sanitary Landfill Superfund Site	100	Magothy	Active
Global Sanitary Landfill CEA	100	Magothy	Active
E.I. Dupont Nemours Co. CEA	0	Magothy	Active

12. Water will be discharged to the ground surface on-site in accordance with the applicant's New Jersey Pollution Discharge Elimination System (NJPDES) permit. The discharge will be measured by a totalizing flow meter.
13. The applicant has indicated that there are freshwater wetlands within the radius of influence of the diversion. The Bureau of Urban Growth and Redevelopment has been notified of the proposed diversion.

Staff Analysis

1. The monthly allocation was based upon estimates contained in the application and accompanying Engineer's Report.

Issuance of this permit at the recommended rates will allow for the safe and proper construction of and upgrade of the existing natural gas pipeline to provide long-term growth, reliability, resiliency, and flexibility. Historically the Department has viewed governmental approval of a project as signifying that it is in the public interest. Once all necessary approvals are granted, the proposed diversion will be considered to be in the public interest in accordance with N.J.A.C. 7:19-2.3(g)1.

2. Based upon the expected maximum withdrawal rate, the characteristics for an unconfined aquifer, and the limits of dewatering, the zone of influence is expected to be less than 15 feet deep and extend less than 450 feet from the dewatering activity.

Given this and the fact that the diversion is temporary in nature and adjacent wells are screened at depths greater than the excavation depth, it has been determined that the diversion is just and equitable to other water users in accordance with N.J.A.C. 7:19-2.3(g)2.

3. As the diversion is temporary in nature and will be discharged to the ground surface at the site in accordance with their NJPDES permit conditions, it is not expected to exceed the long-term natural replenishment of ground water in the area, or adversely affect any river or stream in accordance with N.J.A.C. 7:19-2.3(g)3.

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4. The diversion is not expected to contribute to the spread of groundwater pollution due to the shallow nature of the diversion. The project will transect the E.I. DuPont Numors Company CEA. The applicant indicates that the actual groundwater contamination in the vicinity of the pipeline project is more than 150 feet below ground surface. The conventional trenching will occur at a depth of 7 to 15 feet below ground surface. The horizontal directional drilling that will occur in this area is expected at a maximum depth of 75 feet below ground surface. The applicant does not expect to encounter contaminated groundwater. If contaminated groundwater is encountered, the applicant will follow Transco's Unanticipated Discovery of Contamination Plan.
5. Temporary dewatering permits for construction related purposes are not subject to the area of critical water supply concern rules. Therefore, the diversion from the threatened portion of the Upper Potomac Raritan Magothy aquifer can be approved in accordance with N.J.A.C. 7:19-8.3(i)1.

Recommendations

Issuance of the permit is recommended with and expiration date of December 31, 2023, subject to the attached specific conditions:

Date: _____

Robert Hudgins
Bureau of Water Allocation & Well Permitting