

TRANSCONTINENTAL GAS PIPELINE COMPANY LLC

1342D

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 |
|---|-------------------|-----------------|
| OPEN PITS AND TRENCHES | DEWATERING SYSTEM | WSRM0001422485 |

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. | 1342D DEW - ALL DEWATERING SOURCES | WSWA0001422485 | OPEN PITS AND TRENCHES, DEWATERING SYSTEM (WSRM1422485) |

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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., 1342D DEW - ALL DEWATERING SOURCES (WSWA1422486) | Maximum Diversion Rate | <= 800 Gallons Per Minute. [N.J.A.C. 7:19- 2] |
| | Water Diverted | <= 17.5 Million Gallons Per Month. [N.J.A.C. 7:19- 2] |

Other Limit Requirements

Final Permit Phase

| Subject Item | Parameter | Limit |
|---|---------------------|---|
| OPEN PITS AND TRENCHES, DEWATERING SYSTEM (WSRM1422485) | 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 |
|--|--|------------|---------------------|-------------------|
| OPEN PITS AND TRENCHES DEWATERING SYSTEM (WSRM1422485) | 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., 1342D DEW - ALL DEWATERING SOURCES (WSWA1422486) | 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 |
|--|-------------------------------------|---|
| OPEN PITS AND TRENCHES, DEWATERING SYSTEM (WSRM1422485) | 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., 1342D DEW - ALL DEWATERING SOURCES (WSWA1422486) | 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., 1342D DEW - ALL DEWATERING SOURCES (WSWA1422486) | 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., 1342D DEW - ALL DEWATERING SOURCES (WSWA1422486)

- 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]
- 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]

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Text Requirements

All Phases

TRANSCONTINENTAL GAS PIPELINE CO. LLC., 1342D DEW - ALL DEWATERING SOURCES (WSWA 422486)

3. The total diversion shall be metered with a totalizing flow meter. [N.J.A.C. 7:19- 2]
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 anyway 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]

This Draft Staff Report is based upon the information received as of the date of this document. This document may change substantially as a result of the information gathered as part of the hearing process.

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03/13/2019

STAFF REPORT
DEWATERING

In the matter of TRANSCONTINENTAL GAS PIPELINE COMPANY LLC

Water Allocation Application No. 1342D, to temporarily divert water from a series of trenches and pits in the Borough of Sayreville, 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 Blvd, 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 17.5 million gallons of water during any month (mgm) at a maximum rate of 800 gallons per minute from a series of trenches and pits located along an existing pipeline right of way in the Borough of Sayreville, Middlesex County.

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 a series of trenches and pits, between 7 feet to 15 feet deep.
3. According to the applicant's Engineering Report, ground water is encountered at the site from 1 to 71 feet below grade.
4. The ground surface elevations at the site vary from 2 feet to 84 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.
6. The total length of the project is 8,632 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 2,715 gallons/foot.

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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. Other sub-surface diversions within a one quarter mile radius include five private domestic wells. Records indicate that the wells range in depth from 45 feet to 168 feet. These wells include:

| Well Owner | Well Permit No. | Depth (feet) | Aquifer | Capacity (gpm) | Distance (feet) |
|----------------------------|-----------------|--------------|------------|----------------|-----------------|
| Mariana Maritzio | 2900000742 | 168 | Old Bridge | Unknown | 1,200 |
| NJ State Highway Authority | 2900003326 | 122 | Old Bridge | 70 | 1,200 |
| Carl Baranowski | 2900003519 | 45 | Old Bridge | 10 | 900 |
| Jess Walter | 2900004842 | 48 | Old Bridge | Unknown | 1,200 |
| Joe Walters | 2900013992 | 50 | Old Bridge | 20 | 400 |

9. 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 | 5 | 111 - 291 | Old Bridge; Farrington | 400 - 1,250 | 0.2 - 0.5 |

10. According to the applicant there are two known contaminated sites located within a one-quarter mile radius of the dewatering activity. These include:

| Name of Source | Distance (feet) | Aquifer Affected | Status |
|-------------------|-----------------|------------------|----------|
| 1788 Route 35 | ~600 | Surficial | Active |
| Morgan Fire House | ~600 | Surficial | Inactive |

11. 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.

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12. 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.
13. The temporary diversion is located within the Threatened Zone of the Old Bridge Formation within Critical Area of Water Concern No. 1. Temporary dewatering diversions are exempt from the critical area rules.

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 upgrades to the existing natural gas pipeline to provide long-term growth, reliability, resiliency, and flexibility in the region. 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 range from up to 11 feet at the site of dewatering to be less than 1 foot deep at a distance of less than 457 feet from the dewatering activity. There is only one known well, permit no. 2900013992, located at the Morgan Marina under the owner's name of Joe Walters within the calculated radius of influence. This well is located approximately 400 feet from the proposed dewatering activity at a proposed depth of 50 feet and may experience between one to two feet of drawdown. A review of Safe Drinking Water documents indicated that the property, Morgan Marina, is connected to public water and that the well is no longer utilized for domestic supply.

Given this and the fact that the diversion is temporary in nature and the applicant is required to have a contingency plan in place should anyone be adversely impacted 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.
4. The diversion is not expected to contribute to the spread of groundwater pollution due to the distance to the known contaminates sites and the temporary nature of the diversion.
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.

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Recommendations

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

Date: _____

Kenneth M. Komar
Principal Geologist
Bureau of Water Allocation & Well Permitting