



CHRIS CHRISTIE
GOVERNOR

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BOB MARTIN
Commissioner

Mail Code 401-04Q
Division of Water Supply & Geoscience
Water System Operations Element
Bureau of Water System Engineering
401 E. State Street - P.O. Box 420
Trenton, New Jersey 08625-0420
Tel #: (609) 292-2957 - Fax #: (609) 633-1495
<http://www.nj.gov/dep/watersupply/>

February 13, 2017

Sent electronically – no paper copy mailed

Jesse Robbins, Construction Manager
Combe Fill South Landfill WWTP
Mail Code 410 - 05R
401 E. State Street, P.O. Box 420
Trenton, NJ 08625-0420

Re: Physical Connection Permit No.: 1843-WPC170001

Dear Mr. Jesse Robbins;

Enclosed is your Renewed Physical Connection Permit for an approved physical connection comprised of one 2 inch RPZ located at Combe Fill South Landfill WWTP, 98 Parker Road, Chester Township, NJ on the domestic water service provided by Washington Township MUA which is being issued by this Department in accordance with the provisions of N.J.S.A. 58:12A-1 et seq., N.J.S.A. 58:11-9.1 et. seq., and N.J.A.C. 7:10-10.1 et. seq. in consideration of the electronically submitted Renewal Permit Application received on January 13, 2017.

Please have the Certified Tester submit the Test Results for all four quarters from the 2017 calendar year online using the Quarterly Service. This will enable you to receive a renewal permit through the Renewal Service that is auto approved for the 2018 permit year (provided that satisfactory test results for that facility have been correctly submitted online).

Note that for the 2016 permit year and going forward, the renewal fee will need to be paid online via a credit card or an e-check as part of the Renewal Service.

If you have any questions, you may contact the Bureau by email at physicalconnection@dep.nj.gov or by phone at (609) 292-2957.

Sincerely,

Diane E. Zalaskus, P.E., Bureau Chief
Bureau of Water System Engineering

Enclosures:

NJEMS\sd_phys_connect_epermit_renew_11_30_2016



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ePERMIT*

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application and applicable law 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.

Permit No.	Issuance Date	Effective Date	Expiration Date
WPC170001	June 16th, 2015	April 1, 2017	March 31, 2018
Name and Address of Applicant Combe Fill South Landfill WWTP Mail Code 410 - 05R Trenton, NJ 08625-0420		Location of Activity/Facility Chester Township, Morris County	
Physical Connection ID No. 1843		Type of Permit Renewed Physical Connection Permit	Statute(s) NJSA 58:11-9.1 et seq. & NJSA 58:12A-1 et seq.

This permit grants permission to: Maintain, own and operate a Physical Connection between an approved Public Community Water System and an Unapproved Water Supply at the named location(s), in consideration of the electronically submitted Renewal Permit Application received on January 13, 2017.

Type and Size of Backflow Preventer Valves Permitted:

Subject Item No.	Local Name	Size	Manuf.	Model No.	Serial No.	Type	BP	DC
WSPC0001126087	Process Equipment Building	2 in	Watts	009 M2QTRP	332900	Reduced Pressure Zone		

Location and supply details

BP = bypass DC = detector check

Subject Item No.	Location - Address	Lot	Block	Public Supply PWSID	Local Administrative Authority	Unapproved supply	Comments	Vault
WSPC0001126087	98 Parker Road, Chester Township	7	17	1438003	Washington Township Health Department	Process Water		

Approved by the Authority of:

Bob Martin, Commissioner
Department of Environmental Protection

Diane E. Zalaskus
Diane E. Zalaskus, P.E., Bureau Chief,
Bureau of Water System Engineering

* The word permit means approval, certification, registration etc.

**Combe Fill South Landfill WWTP
1843**

SDW Physical Connections Permit: WPC170001

Permit Requirements

Submittal/Action Requirements

Applicable Subject Items	Submittal/Action Type	Requirement
1843, Combe Fill South Landfill WWTP (WSPG1126088)	Submit Online Renewal Application	In accordance with N.J.A.C. 7:10-10.5(e) an online permit renewal shall be submitted at least sixty days prior to expiry of this permit. [N.J.A.C. 7:10-10]

Text Requirements

All Phases

1843, Combe Fill South Landfill WWTP (WSPG1126088)

- 1. For this permit to remain valid, each backflow prevention device listed on this permit shall be inspected and tested for tightness under prevailing pressure conditions at least once every three months pursuant to N.J.A.C. 7:10-10.6(a)1. [N.J.A.C. 7:10-10]**
- 2. For this permit to remain valid, each double check valve or double swing check valve assembly backflow prevention device listed on this permit shall be dismantled and internally inspected annually in the third or fourth calendar quarters. An internal inspection shall consist of the dismantling of a double check valve assembly or reduced pressure zone backflow preventer assembly to visually inspect the integrity of the internal mechanism including the clappers, discs, springs and facing rings pursuant to N.J.A.C. 7:10-10.6(a)2. After reassembly, the owner of the facility shall have the backflow prevention device tested for tightness to ensure integrity of the device. [N.J.A.C. 7:10-10]**
- 3. A reduced pressure zone backflow preventer assembly shall not be subject to the internal inspection pursuant to N.J.A.C. 7:10-10.6(a)2 above except for routine maintenance as specified by the manufacturer, or for investigation of a malfunction, or as specifically required by the supplier of water pursuant to N.J.A.C. 7:10-10.6(a)4. [N.J.A.C. 7:10-10]**
- 4. The Department shall approve a reduction in the frequency of the pressure tests conducted pursuant to N.J.A.C. 7:10-10.6(a)1 if the owner of the facility in which the physical connection is located demonstrates to the Department that the facility is not in operation during any time in a calendar year pursuant to N.J.A.C. 7:10-10.6(a)3. [N.J.A.C. 7:10-10]**
- 5. For this permit to remain valid, the inspections and testing required pursuant to N.J.A.C. 7:10-10.6(a) shall be conducted by a certified tester who holds a valid backflow prevention device tester's certificate issued by a certifying agency approved by the Department pursuant to**

N.J.A.C. 7:10-10.8. [N.J.A.C. 7:10-10]

- 6. No administrative change to an existing Physical Connection Permit shall be made without notifying the New Jersey Department of Environmental Protection within 14 days of such change pursuant to N.J.A.C. 7:10-10.7(a). [N.J.A.C. 7:10-10]**
- 7. No modification to an approved physical connection installation as listed in N.J.A.C. 7:10-10.7(b) shall be made prior to modifying this physical connection permit, except as provided in N.J.A.C. 7:10-10.7(d). [N.J.A.C. 7:10-10]**
- 8. A copy of this Permit and records of pressure tests, maintenance and annual internal inspections on the Quarterly Test and Maintenance shall be kept at the facility, for at least five (5) years and shall be exhibited upon request of Department Personnel, supplier of water or administrative authority. N.J.A.C. 7:10-10.2(f) [N.J.A.C. 7:10-10]**
- 9. Upon completion of each test and inspection, the owner of the facility shall have the results and certifications of those present recorded on the Quarterly Test and Maintenance Report Form, and shall mail copies to the local administrative authority and supplier of water within 5 days of the test. [N.J.A.C. 7:10-10]**
- 10. The permittee is advised that renewal of the permit will require the online submission of the quarterly test results by the Certified Tester prior to the online renewal submission. [N.J.A.C. 7:10-10]**
- 11. The permit is revocable, or subject to modification or change, at any time, when in the judgement of the New Jersey Department of Environmental Protection such revocation, modification or change shall be necessary. [N.J.A.C. 7:10-10]**
- 12. 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. 7:10-10]**
- 13. 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. 7:10-10]**
- 14. 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 such as plumbing permit (N.J.S.A. 5:23-2.23) have been obtained. [N.J.A.C. 7:10-10]**
- 15. As per N.J.A.C. 7:10-10.10, an applicant for a permit under this subchapter or any person, subject to the limitation on third party appeal rights set forth in P.L. 1993, c.359 (N.J.S.A. 52:4B-3.1 through 3.3), who believes himself or herself to be aggrieved with respect to any decision made by the Department regarding such permit application submitted pursuant to this subchapter, may contest the decision and request an adjudicatory hearing pursuant to the Administrative Procedure Act, N.J.S.A. 52:14B-1 et seq., and the Uniform Administrative Procedure Rules, N.J.A.C. 1:1 within 20 calendar days of the receipt of the permit decision. Filing details and the required form to be submitted are available at www.state.nj.us/dep/watersupply/dws_const.html [N.J.A.C. 7:10-10]**



State of New Jersey

Department of Environmental Protection

CHRIS CHRISTIE
Governor

BOB MARTIN
Commissioner

KIM GUADAGNO
Lt. Governor

Mail Code 401-03
DIVISION OF WATER SUPPLY
WATER SUPPLY PERMITTING
BUREAU OF WATER ALLOCATION
P.O. BOX 420
TRENTON, NEW JERSEY 08625-0420
TEL. # 609-292-2957
FAX. # 609-633-1495

March 3, 2011

Combe Fill South
P O Box 413
401 East State Street 6th Floor
Trenton, NJ 08625-0413
Attn: Jesse Robbins

Dear Mr. Robbins:

Re: **Water Allocation Permit Equivalency - Modification**
Program Interest ID: 2409E
Activity No. EQP100001

Enclosed is a Permit Equivalency issued pursuant to the Water Supply Management Act, N.J.S.A. 58:1A-1 et seq. This Equivalency becomes effective on April 1, 2011 and is to divert water from nineteen wells in the following Municipalities and Counties:

MUNICIPALITY	COUNTY
Chester Twp.	Morris
Washington Twp.	Morris

EQP100001 is your Permit Activity Number, and 2409E is now your Program interest ID and will appear on all forms and correspondence from the Bureau of Water Allocation. Please reference your Program Interest ID and Activity No. in all correspondence.

Please be advised that as you are responsible for complying with the terms and conditions of the enclosed equivalency and you should review them thoroughly. Failure to comply with any or all of the terms and conditions could result in penalties and/or revocation of the equivalency.

Very truly yours,

Diane E. Zalaskus, P.E.
Bureau Chief
Division of Water Supply

Enclosure

c: Bureau of Water Allocation
Northern Bureau of Water Compliance & Enforcement Element
James MacDonald, BWA
Eileen Swan, Highlands Council

MAR 4 2011

11-400



State of New Jersey
Department of Environmental Protection
Bureau of Water Allocation
PO Box 426, Trenton, New Jersey 08625-0426



Permit Equivalency

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.

Program Interest ID: 2409E Permit Number: EQP100001	Issuance Date: 03/03/2011	Effective Date: 04/01/2011	Expiration Date: 03/31/2021
Name and Address of Applicant COMBE FILL SOUTH P O Box 413 401 East State Street 6th Floor Trenton, NJ 08625-0413	Location of Activity/Facility Chester Twp Morris		
	Type of Permit Water Allocation Permit Equivalency - Modification		Statute(s) N.J.S.A. 58:1A-1
This permit grants permission to divert water from the approved sources in the attached permit inventory, in the following municipalities, for the following water uses:			
MUNICIPALITY Chester Twp Washington Twp	COUNTY Morris Morris	Water Uses: Pollution Control	
This permit is subject to the attached Conditions.			
Approved by the authority of: Bob Martin, Commissioner Department of Environmental Protection			
		Diane E. Zalaskus 3/3/11 Diane E. Zalaskus, P.E., Bureau Chief Bureau of Water Allocation Date	
* Permit means Certification, Approval, Registration, Equivalency, etc.			

**COMBE FILL SOUTH
2409E**

Permit Equivalency : EQP100001

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
2500043216	WELL B	WSWL0000065205
2500043217	WELL C	WSWL0000065206
2500043218	WELL J	WSWL0000065207
2500043219	WELL K	WSWL0000065208
2500043220	WELL L	WSWL0000065209
2500043221	WELL D	WSWL0000065210
2500043222	WELL E	WSWL0000065211
2500043223	WELL F	WSWL0000065212
2500043224	WELL G	WSWL0000065213
2500043225	WELL H	WSWL0000065214
2500043226	WELL I	WSWL0000065215
2500043227	WELL A	WSWL0000065216
2500043228	WELL M	WSWL0000065217
2500043229	WELL N	WSWL0000065218
2500043232	WELL Q	WSWL0000065221
2500043233	WELL R	WSWL0000065222
2500043234	WELL S	WSWL0000065223
2500056113	WELL T	WSWL0000248168
P200802638	WELL U	WSWL0000883228

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
COMBE FILL SOUTH	2409E PERMIT EQUIV - ALL DIVERSION SOURCES	WSWA0000075407	IGNEOUS & METAMORPHIC AQUIFER SOURCE, WELL T (WARG945844)
			GLACIAL AQUIFER SOURCES, WELLS A-N, Q-S, & U (WARG945845)
IGNEOUS & METAMORPHIC AQUIFER SOURCE	WELL T	WARG0000945844	2500056113, WELL T (WSWL248168)
GLACIAL AQUIFER SOURCES	WELLS A-N, Q-S, & U	WARG0000945845	2500043216, WELL B (WSWL065205)
			2500043217, WELL C (WSWL065206)

COMBE FILL SOUTH

2409E

Permit Equivalency : EQP100001

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
GLACIAL AQUIFER SOURCES	WELLS A-N, Q-S, & U	WARG0000945845	2500043218, WELL J (WSWL065207)
			2500043219, WELL K (WSWL065208)
			2500043220, WELL L (WSWL065209)
			2500043221, WELL D (WSWL065210)
			2500043222, WELL E (WSWL065211)
			2500043223, WELL F (WSWL065212)
			2500043224, WELL G (WSWL065213)
			2500043225, WELL H (WSWL065214)
			2500043226, WELL I (WSWL065215)
			2500043227, WELL A (WSWL065216)
			2500043228, WELL M (WSWL065217)
			2500043229, WELL N (WSWL065218)
			2500043232, WELL Q (WSWL065221)
			2500043233, WELL R (WSWL065222)
			2500043234, WELL S (WSWL065223)
			P200802638, WELL U (WSWL883228)

**COMBE FILL SOUTH
2409E**

Permit Equivalency : EQP100001

Permit Requirements

Limit Requirements

The following limits apply and are the maximum permitted allocation:

Final Permit Phase from 04/01/2011 -

Subject Item	Parameter	Limit
COMBE FILL SOUTH, 2409E PERMIT EQUIV - ALL DIVERSION SOURCES (WSWA75407)	Maximum Diversion Rate	<= 130 Gallons Per Minute. [N.J.A.C. 7:19- 2]
	Water Diverted	<= 5.7 Million Gallons Per Month. [N.J.A.C. 7:19- 2]
		<= 68.4 Million Gallons Per Year. [N.J.A.C. 7:19- 2]

Other Limit Requirements

Final Permit Phase from 04/01/2011 -

Subject Item	Parameter	Limit
2500043216, WELL B (WSWL65205)	Rated Pump Capacity	<= 15 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043217, WELL C (WSWL65206)	Rated Pump Capacity	<= 10 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043218, WELL J (WSWL65207)	Rated Pump Capacity	<= 30 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043219, WELL K (WSWL65208)	Rated Pump Capacity	<= 30 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043220, WELL L (WSWL65209)	Rated Pump Capacity	<= 30 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043221, WELL D (WSWL65210)	Rated Pump Capacity	<= 15 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043222, WELL E (WSWL65211)	Rated Pump Capacity	<= 15 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043223, WELL F (WSWL65212)	Rated Pump Capacity	<= 10 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043224, WELL G (WSWL65213)	Rated Pump Capacity	<= 15 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043225, WELL H (WSWL65214)	Rated Pump Capacity	<= 10 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043226, WELL I (WSWL65215)	Rated Pump Capacity	<= 15 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043227, WELL A (WSWL65216)	Rated Pump Capacity	<= 15 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043228, WELL M (WSWL65217)	Rated Pump Capacity	<= 20 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043229, WELL N (WSWL65218)	Rated Pump Capacity	<= 30 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043232, WELL Q (WSWL65221)	Rated Pump Capacity	<= 15 Gallons Per Minute. [N.J.A.C. 7:19- 2]

**COMBE FILL SOUTH
2409E**

Permit Equivalency : EQP100001

Other Limit Requirements

Final Permit Phase from 04/01/2011 -

Subject Item	Parameter	Limit
2500043233, WELL R (WSWL65222)	Rated Pump Capacity	<= 15 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500043234, WELL S (WSWL65223)	Rated Pump Capacity	<= 15 Gallons Per Minute. [N.J.A.C. 7:19- 2]
2500056113, WELL T (WSWL248168)	Rated Pump Capacity	<= 130 Gallons Per Minute. [N.J.A.C. 7:19- 2]
P200802638, WELL U (WSWL883228)	Rated Pump Capacity	<= 10 Gallons Per Minute. [N.J.A.C. 7:19- 2]

Monitoring Requirements

Final Permit Phase from 04/01/2011 -

Subject Item	Requirement	Frequency	Monitored Parameter	Monitoring Method
2500056113, WELL T (WSWL248168)	The monthly diversion from each source indicated shall be monitored. [N.J.A.C. 7:19- 2]	Each Month	Water Diverted	Meter
GLACIAL AQUIFER SOURCES, WELLS A-N, Q-S, & U (WARG945845)	The monthly diversion from the group of diversion sources indicated shall be monitored. [N.J.A.C. 7:19- 2]	Each Month	Water Diverted	Meter

Submittal/Action Requirements

Final Permit Phase from 04/01/2011 -

Applicable Subject Items	Submittal/Action Type	Requirement
GLACIAL AQUIFER SOURCES, WELLS A-N, Q-S, & U (WARG945845)	Submit Private 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]
2500056113, WELL T (WSWL248168)		
COMBE FILL SOUTH, 2409E PERMIT EQUIV - ALL DIVERSION SOURCES (WSWA75407)	Submit Renewal Application	A renewal application must be submitted three months prior to the expiration date. [N.J.A.C. 7:19- 2]

**COMBE FILL SOUTH
2409E**

Permit Equivalency : EQP100001

Text Requirements

All Phases

2500056113, WELL T (WSWL248168)

1. The diversion from Well T shall be metered with a totalizing flow meter. [N.J.A.C. 7:19- 2]

GLACIAL AQUIFER SOURCES, WELLS A-N, Q-S, & U (WARG945845)

2. The combined diversion from the Glacial aquifer sources shall be metered with a totalizing flow meter. [N.J.A.C. 7:19- 2]

COMBE FILL SOUTH, 2409E PERMIT EQUIV - ALL DIVERSION SOURCES (WSWA75407)

3. At a minimum, each diversion source flow meter shall be calibrated at least once every five years. [N.J.A.C. 7:19- 2]
4. The permittee shall investigate to the Department's satisfaction complaints by users of wells or surface water supplies within the zone of influence of its diversion to determine what impact the diversion has had on such wells or surface water supplies. A report on these investigations shall be forwarded to the Bureau of Water Allocation. Any well or surface water supply which becomes damaged, dry, has reduced capacity, reduced water quality or is otherwise rendered unusable as a water source as a result of the permittee's diversions shall be repaired or replaced at the expense of the permittee. Work shall be in accordance with all State, County and Municipal construction standards for potable water. After reviewing all applicable investigational reports the Department of Environmental Protection, along with the USEPA, will make the final determination regarding the validity of such complaints, the scope or sufficiency of such investigations, and will determine how to resolve any problems resulting from the diversion. [N.J.A.C. 7:19- 2]
5. The operation of the water withdrawal project shall not cause long-term progressive lowering of groundwater levels, permanent loss of storage capacity or substantial impact on low flows of perennial streams or serve to spread the contamination. [N.J.A.C. 7:19- 2]
6. All well construction and decommissioning activity shall be conducted in accordance with N.J.A.C. 7:9D et seq. and applicable regulations. [N.J.A.C. 7:19- 2]
7. The local Health Department shall be notified of the proposed diversion within 30 days of the issuance date of this permit equivalency and prior to the start of pumping. [N.J.A.C. 7:19- 2]
8. All well owners within the estimated zone of influence of the diversion shall be notified within 30 days of the issuance date of this permit equivalency and prior to the start of pumping. [N.J.A.C. 7:19- 2]
9. The pumping equipment capacity may be increased and well locations may be changed provided that the maximum diversion rate and the water diverted monthly and annual allocation limits are not exceeded. The permittee must notify the Bureau of Water Allocation in writing 30 days prior to any such changes. [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's and permits have been obtained. [N.J.A.C. 7:19- 2]
14. A copy of this permit shall be kept at the facility site, and shall be exhibited upon request of any person. [N.J.A.C. 7:19- 2]

**COMBE FILL SOUTH
2409E**

Permit Equivalency : EQP100001

Text Requirements

All Phases

COMBE FILL SOUTH, 2409E PERMIT EQUIV - ALL DIVERSION SOURCES (WSWA75407)

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; however, any action required pursuant to a critical area designation shall take precedence over this expiration date. [N.J.A.C. 7:19- 2]

**STAFF REPORT
ADDENDUM**

IN THE MATTER OF

Combe Fill South Landfill

Modification of Water Allocation Permit No. 2409E to divert water from 18 existing wells and new Well T in Washington Township and Chester Township, Morris County

Background

On May 5, 2009 Water Allocation Permit No.2409E was issued to NJDEP Division of Publicly Funded Site Remediation Combe Fill South Landfill with an expiration date of May 31, 2019. On July 20, 2010 the NJDEP Division of Publicly Funded Site Remediation Combe Fill South Landfill, 401 East State Street, 6th Floor, P.O. Box 413, Trenton, NJ 08625 submitted a request for a major modification of Water Allocation Permit Equivalency 2409E to add Well T and increase the monthly allocation by 0.2 mgm, the annual allocation by 2.4 mgy, and increase the maximum diversion rate by 9 gpm.

Findings of Fact

1. This major modification request to add Well T will increase the monthly allocation by 0.2 mgm, the annual allocation by 2.4 mgy, and increase the maximum diversion rate by 9 gpm.
2. The pump capacity for Well T is 130 gpm.
3. Existing wells are in the glacial drift/over burden, Well T will be into the bedrock aquifer.
4. The applicant's diversion sources are located in the Highlands Preservation Area.

Staff Analysis

1. The addition of Well T and the requested allocation increase constitutes a major modification.
2. The new monthly allocation is 5.7 mgm, the annual allocation is 68.4 mgy, and the maximum diversion rate is 130 gpm.
3. Following a review of the materials submitted it has been determined that the major modification request meets the requirements set forth in N.J.A.C. 7:19-1.5(a) 4, 5, and 6.
4. As the new well diversion is for remediation purposes and does not have the potential to cause an adverse impact either upon the water resource or other users of that resource it should be approved.

Recommendations

It is recommended that the permit be issued with an expiration date of ten years from the effective date of this permit, the changes noted above, and subject to the attached specific conditions:

Respectfully submitted,



Andy MacDonald
Bureau of Water Allocation

See 3/2/11
dy 3/2/11

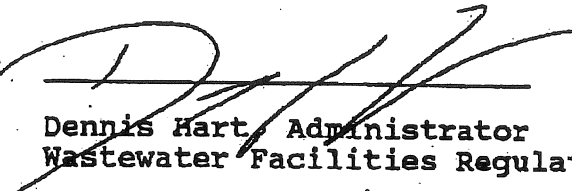
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State of New Jersey
Department of Environmental Protection and Energy
Environmental Regulation
Wastewater Facilities Regulation Program
CN 029
Trenton, NJ 08625-0029

Scott A. Weiner
Commissioner

Dennis Ha
Administrah

APPROVED: 

DATE: 6/7/12

Dennis Hart, Administrator
Wastewater Facilities Regulation Program

SUBJECT: Combe Fill South Landfill Superfund Site
Chester/Washington, Morris County
Surface Water Discharge Permit Equivalent

The attached document provides the current monitoring and reporting requirements for the 1986 Final Effluent Limitations to be used for the discharge of an average of 0.175 million gallons per day of treated ground water from the Combe Fill South Landfill (CFSL) Superfund Site to Trout Brook. This document will be considered the New Jersey Pollutant Discharge Elimination System (NJPDDES) permit equivalent for the CFSL site.

If you have any questions regarding this document, please contact Mr. Walter Olivant of the Bureau of Industrial Discharge Permits (BIDP) at 292-4860.

WFM385:wjo

Attachment

c: Asst. Director Ed Putnam, Remedial Planning & Design Element
Chief Joseph Mikulka, Northern Region-BWHW Enforcement
Chief Debra Hammond, Bureau of Permit Management
Chief Robert Oberthaler, BIDP
Betty Jane Boros-Russo, BIDP

COMBE FILL SOUTH LANDFILL (CFSL) SUPERFUND SITE

Discharge Monitoring and Reporting Requirements for the Proposed Discharge from the CFSL Superfund Site to Trout Brook:

This document provides the current monitoring and reporting requirements necessary for the discharge of treated groundwater from the Combe Fill South Landfill (CFSL) Superfund Site to Trout Brook at an average flow of 0.175 million gallons per day (MGD), which is based on the design capacity provided by the Division of Publicly Funded Site Remediation.

The discharge monitoring and reporting requirements presented in this document are prepared for all of the respective pollutants which were given Final Effluent Limitations in 1986 under the New Jersey Pollutant Discharge Elimination System (NJPDDES) permit equivalent.

A. Monitoring Frequency and Mandatory Cessation of Discharge

1. Acute toxicity testing shall initially be conducted on representative effluent samples on a monthly basis for four months after commencing the discharge. If the test results show that the effluent is consistently meeting the acute toxicity limitation of No Measurable Acute Toxicity (NMAT), then the discharge may continue (provided it also meets any other specified limits). If the effluent does not meet the specified acute toxicity limit of NMAT, then that discharge shall cease until it is determined that the effluent can consistently meet the specified limit.
2. Once it has been demonstrated that the effluent can consistently meet the specified acute toxicity limit in accordance with the conditions in Paragraph 1. above, that discharge shall be monitored for acute toxicity on a quarterly frequency. If at any time a discharge does not meet its specified acute toxicity and/or chemical specific limitations, then that discharge shall cease until it is determined that the effluent can again consistently meet the specified limitations.
3. The requirement for cessation of discharge in Paragraphs 1. and 2. above, should the discharge not meet the effluent limitations, is in accordance with N.J.A.C. 7:14A-2.8(d) since new sources do not qualify for compliance schedules and with N.J.A.C. 7:14A-2.5(a)6 which states that "The permittee shall take corrective action including ceasing discharge to mitigate the effects of violating a NJPDDES permit." Furthermore, the impact to the CFSL site, caused by the temporary cessation of discharge to surface water, should be less severe than if the discharge to surface water was continued in violation of effluent limitations.

B. Chemical Specific Testing Requirements

All analyses shall be performed in accordance with N.J.A.C. 7:14A-2.5(a)12.ii using one of the available methods with sufficient sensitivity to detect the required effluent limitation.

C. Acute Toxicity Testing Requirements

Test Species and Methodology

1. Acute toxicity test procedures shall conform to the "Regulations Governing Laboratory Certification and Standards of Performance" (N.J.A.C. 7:18). Chapter 6 of the regulations contains the criteria and procedures for acute toxicity testing and analysis. The laboratory performing your acute toxicity testing will have to be within the laboratory certification program included within those regulations.
2. The test species and test duration shall be:

Fathead minnow (Pimephales promelas), 96 hour.
3. Test results shall be expressed in terms of the mortalities in each effluent concentration and, if they can be calculated, the median lethal concentration (LC50) with confidence intervals.
4. All samples taken for the purpose of monitoring shall be representative of the monitored outfall.

D. Reporting Requirements

1. The Bureau of Industrial Discharge Permits shall be notified one month prior to the commencement of discharge of treated waters from the CFSL site to Trout Brook.
2. All test results shall be summarized and reported monthly on a Discharge Monitoring Report (DMR), a copy of which will follow shortly. The most current DMR Instruction Manual (copy attached) should be followed when completing DMRs for both concentration and mass values to ensure the consistent reporting of compliance testing results to the Department. In case of any discrepancy between the NJPDES permit equivalent and the DMR Instruction Manual, the NJPDES permit equivalent always takes precedence.
3. All monitoring shall be conducted in accordance with the Department's Field Procedures Manual, which is available through the Bureau of Monitoring Management at 292-0427.
4. All DMRs shall be submitted within 25 days of the start of the following month after the commencement of discharge and every month thereafter until the discharge is permanently terminated. Please contact the Bureau of Industrial Discharge Permits at (609)292-4860 for directions on the submittal of DMRs.
5. Acute toxicity test results shall be reported on the "NJPDES Biomonitoring Report Form - Acute Toxicity Tests" (copies of which are provided to certified laboratories).

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS FOR:
COMBE FILL SOUTH LANDFILL - OUTFALL 001

PARAMETER All values are in ug/l unless otherwise stated	EFFLUENT LIMITATIONS		DRL (1)	MONITORING REQUIREMENTS	
	Monthly Average	Daily Maximum		FREQUENCY	SAMPLE TYPE (2)
Flow (MGD)	0.175	NL	N/A	Continuous	Meter
Ammonia (mg/l)	1.0	NL	N/A	2/Month	Composite
Biochemical Oxygen Demand (BOD5) (mg/l)	8	20 (3)	N/A	2/Month	Composite
Dissolved Oxygen (mg/l)	7.0 Minimum always		N/A	2/Month	Grab
pH (s.u.)	6.5 Min.	8.5	N/A	Weekly	Grab
Total Organic Carbon (mg/l)	10	20	N/A	2/Month	Composite
Total Suspended Solids (mg/l)	8	20 (4)	N/A	2/Month	Composite
Acute Toxicity	N/A	NMAT	N/A	See Pages 1 and 2	
Cyanide, total	NL	ND	20	2/Month	Composite
Heavy Metals, TOTAL (Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium & Zinc)	NL	50	N/A	2/Month	Composite
Toxic Organics (All toxics listed under "Volatiles" and "Base/Neutrals" in Attachment 1)	NL	ND (1)	(5)	2/Month	(6)
Pesticides (All toxics listed under "Pesticides" in Attachment 1 <u>except</u> for PCBs)	NL	ND (1)	(5)	2/Month	Composite
Phenolics (All toxics listed under "Acid Compounds" in Attachment 1)	NL	ND (1)	(5)	2/Month	Composite
Polychlorinated Biphenyls (PCBs)	NL	ND (1)	0.20	2/Month	Composite

N/A - Not Applicable

NL - No Limit, with both monitoring and reporting required.

NMAT- No Measurable Acute Toxicity: Less than 10% mortality in test concentrations, including 100% effluent.

ND - Non-detectable using an analytical method with sufficient sensitivity to detect the parameter at the corresponding DRL.

(1) - A Discharge Reporting Level (DRL) is specified, which represents the Method Detection Level (MDL) obtained from the Division of Publicly Funded Site Remediation (DPFSR), since the effluent limitation is less than the sensitivity of commonly used analytical methods. The discharger is required to analyze the wastewater using an approved EPA test method (as in 40 CFR Part 136) with a detection level corresponding to the MDL. The discharger shall meet the DRL for discharge reporting purposes. Should the discharger's wastewater indicate that a pollutant is unquantified (<) at an analytical level greater than the DRL, this will be considered a reporting violation and not an effluent violation.

(2) - Composite as indicated in this table means 24-hour or work-day time-proportioned composite samples.

(3) - And 90% removal.

(4) - And 85% removal.

(5) - See Attachment 1 for individual parameters and their respective MDL.

(6) - Use GRAB for all toxics listed under "Volatiles" and COMPOSITE for all toxics under "Base/Neutrals".

ATTACHMENT 1

Table II

Organic Toxic Pollutants in Each of Four Fractions in Analysis
by Gas Chromatography/Mass Spectroscopy (GC/MS)

Volatiles

MDL ($\mu\text{g/l}$)	
1V Acrolein - 100	17V 1,2-Dichloropropane - 5
2V Acrylonitrile - 35	18V 1,3-Dichloropropylene - 5
3V Benzene - 5	19V Ethylbenzene - 5
4V Bromoform - 5	20V Methyl Bromide - 10
5V Bromoform - 5	21V Methyl Chloride - 10
6V Carbon Tetrachloride - 5	22V Methylene Chloride - 5
7V Chlorobenzene - 5	23V 1,1,2,2-Tetrachloroethane - 5
8V Chlorodibromomethane - 5	24V Tetrachloroethylene - 5
9V Chloroethane - 10	25V Toluene - 5
10V 2-Chloroethylvinyl Ether - 5	26V 1,2-trans-Dichloroethylene - 5
11V Chloroform - 5	27V 1,1,1-Trichloroethane - 5
12V Dichlorobromomethane - 5	28V 1,1,2-Trichloroethane - 5
13V Dichloromethane - 5	29V Trichloroethylene - 5
14V 1,1-Dichloroethane - 5	30V Vinyl Chloride - 10
15V 1,2-Dichloroethane - 5	31V Vinyl Chloride - 10
16V 1,1-Dichloroethylene - 5	

Acid Compounds

1A 2-Chlorophenol - 10	7A 4-Nitrophenol - 50
2A 2,4-Dichlorophenol - 10	8A p-Chloro-m-cresol - 10
3A 2,4-Dimethylphenol - 10	9A Pentachlorophenol - 50
4A 4,6-Dinitro-o-cresol - 50	10A Phenol - 10
5A 2,4-Dinitrophenol - 50	11A 2,4,6-Trichlorophenol - 10
6A 2-Nitrophenol - 10	

Base/Neutral

1B Acenaphthene - 10	16B 2-Chloronaphthalene - 10
2B Acenaphthylene - 10	17B 4-Chlorophenyl Phenyl Ether - 10
3B Anthracene - 10	18B Chrysene - 10
4B Benzidine - 80	19B Dibenzanthracene - 10
5B Benzanthrane - 10	20B 1,2-Dichlorobenzene - 10
6B Benzopyrene - 10	21B 1,3-Dichlorobenzene - 10
7B 3,4-Benzofluoranthene - 10	22B 1,4-Dichlorobenzene - 10
8B Benzoperylene - 10	23B 3,3'-Dichlorobenzidine - 20
9B Benzofluoranthene - 10	24B Diethyl Phthalate - 10
10B Bis(2-chloroethoxy)methane - 10	25B Dimethyl Phthalate - 10
11B Bis(2-chloroethyl) Ether - 10	26B Di-n-butyl Phthalate - 10
12B Bis(2-chloroisopropyl) Ether - 10	27B 2,4-Dinitrotoluene - 10
13B Bis(2-ethylhexyl) Phthalate - 10	28B 2,6-Dinitrotoluene - 10
14B 4-Bromophenyl Phenyl Ether - 10	29B Di-n-octyl Phthalate - 10
15B Butylbenzyl Phthalate - 10	30B 1,2-Diphenylhydrazine - 10 (as azobenzene)

ATTACHMENT 1 (CONT.)

7:14A APPENDIX B POLLUTANT DISCHARGE ELIMINATION SYSTEM

MDL ($\mu\text{g/l}$)

31B	Fluoranthene - 10	39B	Naphthalene - 10
32B	Fluorene - 10	40B	Nitrobenzene - 10
33B	Hexachlorobenzene - 10	41B	N-Nitrosodimethylamine - 10
34B	Hexachlorobutadiene - 10	42B	N-Nitrosodi-n-propylamine - 10
35B	Hexachlorocyclopentadiene - 10	43B	N-Nitrosodiphenylamine - 10
36B	Hexachloroethane - 10	44B	Phenanthrene - 10
37B	Indenopyrene - 10	45B	Pyrene - 10
38B	Isophorone - 10	46B	1,2,4-Trichlorobenzene - 10

Pesticides

1P	Aldrin - 0.01	14P	Endrin - 0.05
2P	alpha-BHC - 0.01	15P	Endrine Aldehyde - 0.05
3P	beta-BHC - 0.01	16P	Heptachlor - 0.01
4P	gamma-BHC (Lindane) - 0.01	17P	Heptachlor Epoxide - 0.01
5P	delta-BHC - 0.01	18P	PCB-1242 - 0.20
6P	Chlordane - 0.10	19P	PCB-1254 - 0.20
7P	4,4'-DDT - 0.05	20P	PCB-1221 - 0.20
8P	4,4'-DDE - 0.01	21P	PCB-1232 - 0.20
9P	4,4'-DDD - 0.05	22P	PCB-1248 - 0.20
10P	Dieldrin - 0.01	23P	PCB-1260 - 0.20
11P	alpha-Endosulfan - 0.01	24P	PCB-1016 - 0.20
12P	beta-Endosulfan - 0.05	25P	Toxaphene - 1.0
13P	Endosulfan Sulfate - 0.05		

Table III

Other Toxic Pollutants: Metals, Cyanide, and Total Phenols

✓ Antimony, Total - 60.0	✓ Nickel, Total - 40.0
✓ Arsenic, Total - 10	✓ Selenium, Total - 5.0
✓ Beryllium, Total - 5.0	✓ Silver, Total - 10
✓ Cadmium, Total - 5	✓ Thallium, Total - 10
✓ Chromium, Total - 10	✓ Zinc, Total - 2.0
✓ Copper, Total - 25	✓ Cyanide, Total
✓ Lead, Total - 5	Phenols, Total
✓ Mercury, Total - 0.20	



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

JON S. CORZINE
Governor

LISA P. JACKSON
Commissioner

MEMORANDUM

TO: JEFFREY READING, ASSISTANT DIRECTOR
DIVISION OF WATER QUALITY

FROM: EDWARD PUTNAM, ASSISTANT DIRECTOR
DIVISION OF PUBLICLY FUNDED REMEDIATION ELEMENT

SUBJECT: COMBE FILL SOUTH LANDFILL: REQUEST TO MODIFY DISCHARGE TO
SURFACE WATER PERMIT EQUIVALENT

DATE: OCTOBER 31, 2007

This is to advise you of our intent to increase the limit for zinc to 110 ug/l for the Combe Fill South Landfill groundwater treatment plant New Jersey Pollutant Discharge Elimination System (NJPDES) permit equivalent. This will match the New Jersey Surface Water Quality Standard (SWQS) for Zinc. The original permit equivalent is attached hereto for your reference. Currently, the permit equivalent limit is 50 ug/l for the combined concentration of antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc. We are proposing to separate zinc out of the metals group and give it an individual discharge limit of 110 ug/l and leaving the combined limit for the other listed metals at 50 ug/l.

The reason we are making this modification is because of a series of recent Zinc analysis that reported levels that exceed the 50ug/l, but are still under the SWQS. These results have only recently been reported since we began a new Operations and Maintenance contract and we are using different analytical methods as well as a different (NJDEP certified) laboratory. Over the prior two contracts we hadn't had a single Zinc level over 50ug/l, or any other metals exceedance. Short of performing an exhaustive investigation as to what, if any, method detection limit issues may have existed with the prior (NJDEP certified) laboratory as compared to the current laboratory, it will facilitate administration of the permit equivalent if zinc concentration was simply monitored with its own 110ug/l individual limit. We believe that discharging at the SWQS is a conservative and protective level, and if we can meet that standard, then conducting an extensive investigation into the analytical reason (s) for the sudden increase in zinc is moot.

If you feel there is an adverse environmental effect associated with this change, please let us know, otherwise we will amend the Permit Equivalent and DMR forms accordingly beginning with the DMR for November 2007.