



SUSQUEHANNA RIVER
BASIN COMMISSION

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June 21, 2022

Mr. Mark Baker, P.E.
Operations Manager
Veolia Water Pennsylvania, Inc.
6310 Allentown Boulevard, Suite 104
Harrisburg, PA 17112-2739

Re: Reissuance Due to Name Change;
from SUEZ Water Pennsylvania Inc.
to Veolia Water Pennsylvania, Inc.;
17 Docket Approvals and 4 Grandfathered Certificates (see Table 1)

Dear Mr. Baker:

The Susquehanna River Basin Commission (Commission) received a Request for Reissuance of Approval (Commission Form #86) on April 14, 2022, for seventeen (17) Commission Docket approvals and four (4) Certificates of Registration for Grandfathered Water Use (see Table 1). This request indicated that effective March 28, 2022, SUEZ Water Pennsylvania Inc. had changed its name to Veolia Water Pennsylvania, Inc. (project sponsor). Upon review of the projects and the submitted request for reissuance, it was determined that the request is in compliance with the regulations and consistent with 18 CFR § 806.6(c). Therefore, the approvals listed on Table 1 are hereby reissued effective June 21, 2022.

Associated with the request is Commission Pending No. 2020-036, which is the application for groundwater renewal for the Grantham Operation – Well 2 that is currently under review. As a result of the name change, it is recognized the new project sponsor will take over and continue with the submitted application.

Copies of the approvals listed on Table 1 are available on the Commission's Water Application and Approval Viewer (WAAV) at www.srbc.net/waav.

In accordance with the Commission's Regulatory Program Fee Schedule, the Grantham facility is subject to the Annual Compliance and Monitoring fee (ACMF). The Center Square, Dallas, Newberry, and Shavertown facilities continue to be subject to the ACMF. The Bloomsburg, Mechanicsburg, and Harrisburg facilities are currently exempt from the ACMF. The ACMF is contained in the Regulatory Program Fee Schedule, which may be modified over the term of the approvals. The ACMF will be invoiced separately.

*A water resource agency serving
the Susquehanna River Watershed*

Please be advised that, under 18 CFR § 808.11, you have a duty to comply with all provisions of the Susquehanna River Basin Compact (Compact), as well as the Commission's rules, regulations, orders, approvals, conditions of approval, and any other requirements of the Commission. It is your obligation to fulfill all conditions of this approval within the specified time limits and provide written notification to the Commission, as appropriate, and comply with all conditions set forth therein. Failure to meet any term or condition within the specified time may subject you to enforcement action and imposition of civil penalties pursuant to 18 CFR Part 808, Subpart B, and Section 15.17 of the Compact. Penalties range from \$50 to \$1,000 per day, per condition (which includes exceeding approved quantities), with every day being a separate offense.

Pursuant to 18 CFR § 808.2 relating to administrative appeals, any appeal to this action must be made to the Commission within thirty (30) days of receipt of this notice. All appeals must be made in writing on the Commission's Notice of Appeal form and conform to the requirements of 18 CFR § 808.2. Pursuant to 18 CFR § 808.2(i), an appeal made under this section stays the commencement of the ninety (90)-day appeal period to Federal Court contained in Section 3.10(6) of the Compact.

Should you have any questions, please contact Todd Eaby, Manager of Project Review, at (717) 238-0423, extension 1234, or via e-mail at teaby@srbc.net.

Sincerely,



Andrew D. Dehoff
Executive Director

Enclosure: Table 1

cc: John Hollenbach – Veolia Water Pennsylvania, Inc.
Joe Mattucci – PADEP, South-central Regional Office
Brian Yagiello – PADEP, Northeast Regional Office
Chad Miller – PADEP, North-central Regional Office

TABLE 1

List of SRBC Approvals Approved for Reissuance from
SUEZ Water Pennsylvania Inc. to Veolia Water Pennsylvania, Inc.

Facility Name	Approval No.	Source Name
Bloomsburg Operation	20220619	Fishing Creek
Center Square Operation	20190309	Center Square Well 1
		Center Square Well 2
Dallas Operation	GF-202101154	Bunn Well
		Country Club Well
		Haddonfield Well
	20050301	Snyder Well
	20210306	Gephart Well
Grantham Operation	GF-201912074	Schooley Well
	19901104	Well 1
Harrisburg Operation	20050909	Well 2
		Stony Creek
	20180311	Susquehanna River
Mechanicsburg Operation	GF-201912066	Swatara Creek
	20220620	Interconnection
		Market Street Well
Newberry Operation	20160609	Trindle Springs
	19940708	Yellow Breeches Creek
		20190611
	20210908	Conley 1 Well
	20090917	Conley 2 Well
		20100614
	20100615	Eden Well
		Paddletown Well
		Reeser Well 1
	Reeser Well 2	
	Susquehanna Village Well 1	
	Susquehanna Village Well 2	
Shavertown Operation	GF-201911055	Hassold Well
	20171207	Salla Well
	20220621	Well 1
		Well 2
Well 4		



SUSQUEHANNA RIVER BASIN COMMISSION

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Docket No. 20090917

Approval Date: September 10, 2009

UNITED WATER PENNSYLVANIA – NEWBERRY SYSTEM

Groundwater Withdrawal (30-Day Average) of 0.121 mgd from Paddletown Well,
for Public Water Supply,
Newberry Township, York County, Pennsylvania

Review Authority

This project is subject to review pursuant to Article 3, Section 3.10, of the Susquehanna River Basin Compact (Compact), P.L. 91-575, 84 Stat. 1509 et seq., and Susquehanna River Basin Commission (Commission) Regulation 18 CFR §806.4, relating to projects requiring review and approval. The Commission received the application on May 12, 2008, and additional information regarding the aquifer testing in August 2009.

Description

Purpose. The purpose of the application is to request approval for the withdrawal of groundwater for distribution in a public water supply system.

Location. The project is located in the Lower Susquehanna Subbasin, HUC 02050305, Fishing Creek Watershed, Newberry Township, York County, Pennsylvania.

Project Features. The project sponsor has requested approval for the withdrawal (30-day average) of 0.172 million gallons per day (mgd) of water from the Paddletown Well. The project sponsor plans to use the Paddletown Well as a source for water to meet the demand for public water supply in the Newberry System. Based on the potential for adverse impacts to the users of the local groundwater system, Commission staff recommends a reduction in the quantity approved, as described below.

The withdrawal location is specified in the application and has been reviewed for sensitive habitats and threatened and endangered species. Specific location information concerning discrete water-related project features has been withheld for security reasons.

The Newberry System is comprised of three interconnected subsystems that are supplied by nine existing wells. The Commission previously approved the DuPont Well (Docket No. 19880401), the Eden Road Well (Docket No. 19910102) and the Conley 2 Well (Docket No. 19940708). The six remaining wells were in use prior to 1978 and are subject to review and

approval under Commission Regulation 18 CFR §806.4(a)(2)(i). The project sponsor has submitted applications to the Commission for these wells (Conley 1, Coppersmith, Susquehanna 1, Susquehanna 2, Resser 1, and Resser 2); these applications are currently under review and will be the subject of future action.

The Newberry System is summarized in Table 1.

Table 1. Subsystems Comprising the Newberry System

Subsystem	Well Name	Permit No.	Average Daily Withdrawal ¹ (mgd)	
			Existing	Projected
Newberry Subsystem	Conley 1 Well	SRBC – Pending	0.119	0.137
	Conley 2 Well	SRBC – 19940708	0.130	0.140
	Coppersmith Well	SRBC – Pending	0.082	0.180
	DuPont Well	SRBC – 19880401	0.067	0.100
	Eden Road Well	SRBC – 19910102	0.014	0.043
Susquehanna Village Subsystem	Susquehanna 1 Well	SRBC – Pending	0.034	0.072
	Susquehanna 2 Well	SRBC – Pending	0.034	0.072
Resser Subsystem	Resser 1 Well	SRBC – Pending	0.059	0.071
	Resser 2 Well	SRBC – Pending	0.059	0.071
	Paddletown Well	SRBC – 20090917	NA	0.121
NA – Not Available				
1 The average daily withdrawal for existing wells is based on the information submitted in the pending application and monitoring data (2008) for approved wells. Projected withdrawals are based on a 15-year projection.				

Based on the information submitted in support of the project sponsor's application, the average daily demand of the Newberry System in 2008 was approximately 0.585 mgd, and projected average daily demand through 2024 is 0.884 mgd.

The Paddletown Well is located in the Fishing Creek Watershed. The well is drilled in the Gettysburg-Newark Lowland section of the Piedmont Province, and the borehole log indicates that the well was completed in dark reddish-brown sandstone/conglomerate of the Triassic Gettysburg Formation. A mapped stratigraphic facies change in the Gettysburg

Formation, which identifies the transition from conglomerate to less transmissive shale lies to the northeast. The areas to the west and south of the well are bound by large intrusions of Jurassic-age diabase.

The Paddletown Well was constructed in an 8-inch-diameter borehole with an 8-inch-diameter steel casing from 0 to 58 feet below ground surface (bgs) and an 8-inch-diameter open-rock borehole to a total depth of 685 feet bgs. The major water-bearing zone was encountered from 463 to 470 feet bgs. Upon completion of drilling and construction, the well exhibited an artesian flow; therefore, the wellhead was equipped with a sanitary seal and pressure gauge. The recorded artesian pressure within the well was approximately 10 pounds per square inch (or a reference elevation head of 23 feet above the top of casing).

Aquifer Test. A 72-hour constant-rate aquifer test was conducted on the Paddletown Well, with prior Commission approval, on December 3-6, 2007. The well was pumped with an average discharge rate of 120 gallons per minute (gpm). Water levels were continuously recorded in the Paddletown Well, ten private wells, and three stream flumes from November 21, 2007 to December 21, 2007. During the aquifer test, temporary pipelines were used to convey the aquifer discharge water to an approved outfall location on a tributary to Fishing Creek, approximately 600 feet northwest of the Paddletown Well.

Over 315 feet of drawdown was measured in the Paddletown Well during the testing. The first water-bearing zone at 170 feet bgs was uncovered after 2.5 hours of pumping. (The blown yield of the first water-bearing zone was approximately 26 gpm.) The primary water-bearing zone, located at a depth of approximately 463 to 470 feet bgs, was not intercepted during the course of the test. (The blown yield of the primary water-bearing zone was 64 gpm.)

Monitoring demonstrated significant adverse impacts related to pumping at two private wells. The 105-foot deep Winter Well, located approximately 1,425 feet east of the Paddletown Well, was dewatered during the test. At the Shamenek 1 Well, located approximately 2,200 feet south of the Paddletown Well, water levels declined approximately 17.5 feet. Commission staff concluded that additional wells in the area of influence are likely to have similar adverse impacts.

Commission staff recommends that the approved quantity and rate be reduced and that nearby wells be mitigated prior to operation of the new well, as described below.

Coordination. Commission staff has coordinated with the Pennsylvania Department of Environmental Protection (PADEP) Southcentral Region Office during review of the project. PADEP staff has reviewed this docket for consistency with its requirements.

Findings

The project is subject to Commission approval, monitoring, and reporting requirements as per Commission Regulations 18 CFR §806.4, §806.23, and §806.30.

Commission staff reviewed the groundwater availability analysis, aquifer testing results, and supporting information submitted by the project sponsor. Commission staff calculated that during a 1-in-10-year drought the Paddletown Well has a groundwater recharge potential of 0.121 mgd. Aquifer test results support the groundwater availability analysis; therefore, Commission staff finds the requested withdrawal is not sustainable through a drought having a 1-in-10-year recurrence interval.

Commission staff evaluated the 90-day drawdown projections within the zone of influence of the Paddletown Well. Based on anticipated drawdown from pumping at 120 gpm, water level in the Paddletown Well is projected to fall below the major water-bearing zone at 463 to 470 feet bgs. Commission staff recommends approval of a reduced pumping rate of 85 gpm, which is consistent with the calculated groundwater availability. At this rate, the 90-day projection shows drawdowns on the order of tens of feet extending through a zone of influence of up to 3,800 feet from the Paddletown Well.

The project sponsor submitted a survey of wells in the vicinity of the Paddletown Well. Based on the survey that reportedly includes all wells in the zone of influence of the production well, Commission staff determined that eleven private wells have the potential to be significantly adversely impacted at a sustained pumping rate of 85 gpm. These wells are listed as follows in Table 2:

Table 2. Impacted Private Wells¹

Well Identification		Approximate Distance from the Paddletown Well (feet)	Static Water Level (feet btoc)		Total Depth of Well (feet btoc)	90-Day Projected Drawdown at 85 gpm (feet)
			November 2007	July 2009		
1	Dennis 1	642	--	--	--	65
2	Winter	1,425	65	--	105	49
3	Newberry Holiness Camp-2	1,688	--	41	105	33
4	Newberry Holiness Camp-1	1,754	--	59	151	30
5	Shamenek 2	1,878	31	--	80	30
6	Mrs. Winter	1,895	--	56	105	30
7	G. Yinger	1,940	--	41	94	30
8	R. Yinger	2,126	--	44	94	23
9	Dennis 2	1,060	--	30	300	50
10	Shamenek 1	2,197	39	--	260	20
11	Spongenburg	2,340	--	42	88	15

btoc = below top of casing
 -- = Data not collected during inspection.

¹ This information is based on a private well survey and a 90-day projection of drawdown as submitted by SAIC on behalf of the project sponsor. The survey reportedly includes all private wells located within the Paddletown Well's area of influence.

Two private wells (Dennis 2 and Shamenek 1) are sufficiently deep to likely sustain their historic use with minimal impact. A third well (Spongenburg) is located approximately 2,300 feet from the production well and the homeowner has expressed a desire for only operational monitoring at this time. The remaining eight wells are relatively shallow and have limited available drawdown, and the locations of the water-bearing zones in these wells are unknown. Commission staff finds that the project sponsor must mitigate the use of the eight wells (noted as 1 through 8 in Table 2) prior to operation of the Paddletown Well, preferably by establishing connections with the public water supply system. Commission staff finds that the project sponsor must monitor three private wells (noted as 9 through 11 in Table 2) for a minimum of one year to ensure long-term operation of the production well does not significantly adversely impact the use of these wells.

Within 60 days, the project sponsor should submit a plan for the mitigation and operational monitoring, including the elements described above and a schedule for implementation, to Commission staff for its review and approval. The mitigation must be implemented prior to operation of the Paddletown Well. Continuous water level monitoring should continue for a minimum of one year; however, the Commission should reserve the right to extend the monitoring if the objectives are not met.

PADEP also is requiring the project sponsor to conduct long-term monitoring of several private wells at varying distances and directions from the Paddletown Well. The project sponsor should coordinate its monitoring plan submission for review and approval by the PADEP with the Commission. The project sponsor should concurrently submit copies of monitoring data and any reports developed for the PADEP to the Commission.

Based on the above, Commission staff recommends approval of a 30-day average withdrawal rate of 0.121 mgd for the Paddletown Well, which is within the calculated limit of the sustainable yield of the source. Considering the cumulative effects of the proposed withdrawal, Commission staff has determined that the maximum instantaneous rate of production should not exceed 85 gpm from the Paddletown Well. At the reduced rate of withdrawal and with prior mitigation to Wells 1 through 8 listed in Table 2, Commission staff finds that the operation of the Paddletown Well should not cause permanent loss of aquifer storage, render competing supplies unreliable, or cause adverse impacts to the water resources of the basin.

The project sponsor must immediately report to the Commission any observations of pumping-induced impacts to the remaining unmitigated two existing private wells. If pumping of the Paddletown Well adversely affects the monitored private wells or any other withdrawal, the project sponsor should be required to provide an alternate water supply, reduce its withdrawal, or take other mitigation measures as deemed appropriate by Commission staff.

The project sponsor should install appropriate metering on the Paddletown Well and monitor withdrawals daily. The required daily monitoring data should be submitted electronically to the Commission quarterly, as specified in Commission Regulation 18 CFR §806.30(b)(1).

Commission staff identified that the withdrawals from Conley 1 Well, the Coppersmith Well, the Susquehanna 1 Well, the Susquehanna 2 Well, the Resser 1 Well, and the Resser 2 Well are subject to review and approval under Commission Regulation 18 CFR §806.4(a)(2)(i). At the request of Commission staff, the project sponsor submitted applications for these wells on July 30, 2009; they are currently undergoing review.

The project is subject to the Commission's water conservation requirements, as per Commission Regulation 18 CFR §806.25(a). The water system is 100 percent metered, which is in compliance with this regulation. The project sponsor reports unaccounted for water losses of 34 percent, which exceeds the 20 percent maximum set forth in Commission Regulation 18 CFR §806.25(a)(1). Commission staff finds that the project sponsor must work to reduce system losses to 20 percent or less over the next 5 years. The project sponsor should report to the Commission annually on the progress made pursuant to this requirement.

The project sponsor has paid the appropriate application fee, in accordance with Commission Regulation 18 CFR §806.13, and in accordance with Commission Resolution No. 2007-07. The project sponsor has provided all proofs of notification, as required by Commission Regulation 18 CFR §806.15.

The project is physically feasible, does not conflict with or adversely affect the Commission's Comprehensive Plan, and does not adversely influence the present or future use and development of the water resources of the basin.

Decision

1. The project's groundwater withdrawal (30-day average) of 0.121 mgd from the Paddletown Well is approved pursuant to Article 3, Section 3.10, of the Compact.
2. The foregoing findings are hereby adopted and shall be incorporated into and made a part of this decision.
3. The project sponsor shall comply with all Commission regulations, including monitoring and reporting requirements, as per Commission Regulation 18 CFR §806.30.
4. Within sixty (60) days from the date of this approval, the project sponsor shall install a meter, accurate to within five (5) percent, on the Paddletown Well. The project sponsor shall notify the Commission, in writing, and submit digital photographs of the meter when it has been installed and certify the accuracy of the measuring device to within five (5) percent of actual flow.
5. The project sponsor shall keep daily records of the metered withdrawal in the Paddletown Well. The required reporting data shall be submitted to the Commission quarterly, and as otherwise required. Monitoring reports shall be submitted on-line and are due within thirty (30) days after the close of the preceding quarter.

6. The maximum instantaneous rate of production shall not exceed 85 gpm from the Paddletown Well.

7. The project sponsor shall maintain any meters or other measuring devices approved by the Commission, accurate to within five (5) percent, so as to provide a continuous, accurate record of the groundwater withdrawal from the Paddletown Well, and certify to the Commission once every five (5) years, or as otherwise requested, the accuracy of all measuring devices and methods to within five (5) percent of actual flow.

8. Within sixty (60) days from the date of this approval and prior to the operation of Paddletown Well, the project sponsor shall submit its mitigation and monitoring plan for the private wells identified in Table 2 as wells potentially adversely impacted by the withdrawal from the Paddletown Well for Commission staff review and approval. The plan shall include a schedule for the mitigation. The water level monitoring conducted in three private wells shall ensure that the long-term operation of the production well does not adversely impact the use of these wells and shall continue for a minimum of one (1) year. The Commission reserves the right to extend the monitoring if the objectives are not met.

9. The project sponsor shall notify the Commission within twenty-four (24) hours of any impacts or alleged impacts identified by or reported to the project sponsor in the area of concern.

10. If the Commission determines that the operation of the project's groundwater withdrawal from the Paddletown Well adversely affects any existing groundwater or surface water withdrawal, the project sponsor shall be required to provide, at its expense, an alternate water supply or other mitigating measure.

11. The project sponsor shall comply with the water conservation requirements specified in Commission Regulation 18 CFR §806.25(a)(1). The project sponsor shall have reduced system losses and achieved 100 percent compliance with the requirements by September 10, 2014. The project sponsor shall report to the Commission annually on the progress made pursuant to this requirement. Annual reports are due within sixty (60) days after the close of the preceding year.

12. To satisfy the Commission's registration requirement, the project sponsor shall register with the PADEP all surface water and groundwater sources described in this docket in accordance with the Pennsylvania Water Resources Planning Act (Pennsylvania Act 220).

13. This approval shall not become effective until the project sponsor certifies to the Commission that it has received a permit from PADEP authorizing the construction of the water supply facilities related to this application.

14. The project sponsor shall submit to the Commission copies of the long-term monitoring plan, monitoring data, and any reports developed for the PADEP and related monitoring or mitigation of the Paddletown Well impacts.

15. The project is subject to the Commission's water conservation requirements, as per Commission Regulation 18 CFR §806.25(a). The project sponsor shall report its system loss to the Commission annually.

16. Commission approval shall not be construed to exempt the project sponsor from obtaining all necessary permits and/or approvals required for the project from other federal, state, or local government agencies having jurisdiction over the project. The Commission reserves the right to modify, suspend, or revoke this action if the project sponsor fails to obtain or maintain such approvals.

17. If the project sponsor fails to comply with the provisions of the Compact or any rule, regulation, or order of the Commission, or any term or condition of this docket, the project is subject to enforcement actions pursuant to Commission Regulation 18 CFR §808.

18. The Commission reserves the right to reopen any project docket or issue such additional orders, as may be necessary, to mitigate or avoid adverse impacts or otherwise to protect public health, safety, welfare, or the environment.

19. Commission approval confers no property rights upon the project sponsor. The securing of all rights necessary and incident to the project sponsor's development and operation of the project shall be the sole and exclusive responsibility of the project sponsor, and this approval shall be subject thereto.


20. This project is approved for inclusion in the Commission's Comprehensive Plan for the Water Resources of the Susquehanna River Basin.

21. This approval is effective until September 10, 2024. As specified in Commission Regulation 18 CFR §806.31(e), if the project sponsor submits an application no later than March 10, 2024, the existing approval shall be deemed extended until such time as the Commission renders decision on the application.

22. If the project is discontinued for such a period of time and under such circumstances that an abandonment of the project may reasonably be inferred, the Commission may rescind the approval of the project unless a renewal is requested by the project sponsor and approved by the Commission.

CERTIFICATION: I, Stephanie L. Richardson, Secretary to the Susquehanna River Basin Commission, do hereby certify that the foregoing project docket was approved by the Susquehanna River Basin Commission on September 10, 2009.

Dated: September 11, 2009


Stephanie L. Richardson