



SUSQUEHANNA RIVER BASIN COMMISSION

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Docket No. 20130609

Approval Date: June 20, 2013

MUNICIPAL AUTHORITY OF THE BOROUGH OF MANSFIELD

**Groundwater Withdrawal (30-Day Average) of 0.079 mgd from Well 3,
Interconnection with Mansfield University Water System, and
Total Groundwater and Surface Water
System Withdrawal Limit (30-Day Average) of 0.494 mgd**

Section 1. Approval

After review of the record, including the technical findings of Susquehanna River Basin Commission (Commission) staff, the Commission has determined that no adverse impacts are anticipated by the operation of this project, and that 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. Accordingly, the Commission hereby approves the project described herein in accordance with the conditions set forth below.

The project sponsor currently relies on two existing Commission-approved wells (Well 1 and Well 2) and one surface water withdrawal (Webster Reservoir) under Pennsylvania Department of Environmental Protection (PADEP) approval. Well 3 is intended to increase the groundwater capacity and reduce seasonal reliance on surface water to improve water treatment capability and reduce associated costs. Interconnection with the Mansfield University water system is to allow for redundancy and backup water supply and, therefore, is not included in the total groundwater and surface water system withdrawal limit. Because Well 3 is supplementing the use of Webster Reservoir and the surface water withdrawal will not increase over historic quantities, the Commission is not requiring review and approval of Webster Reservoir as a condition of this approval.

Commission staff has coordinated with PADEP and the Pennsylvania Fish and Boat Commission (PFBC) during review of this project.

Section 2. Project Information

Information concerning the project sponsor, water use type, and location are set forth in the table below.

Project Information	
Project Sponsor:	Municipal Authority of the Borough of Mansfield
Approval Types:	Groundwater Withdrawal and Interconnection
Authorized Water Use Purpose:	Public Water Supply
Municipality:	Richmond Township
County:	Tioga County
State:	Pennsylvania

Section 3. Source Information

Information concerning the source of water from which the withdrawal will be made is set forth in the tables below.

Source Information – Well 3	
Withdrawal Type:	Groundwater
Approved Source:	Well 3
Subbasin:	Chemung River Subbasin
Watershed Boundary Dataset (WBD):	0205010409 (Tioga River)
Withdrawal Location (degrees)*:	Lat: -- Long: --
Site Flow Statistics (cfs)†:	Q7-10 = 0.07; Average Daily Flow = 3.60
Impairment†:	Attaining Designated Use
Drainage Area (square miles)†:	2.0
Aquatic Resource Class**†:	1
Special Flow Protection Required:	Yes
cfs – cubic feet per second	
* Specific location information concerning discrete water-related project features has been withheld for security reasons.	
** Refer to Commission Policy No. 2012-01 (Low Flow Protection Policy Related to Withdrawal Approvals).	
† Based on the anticipated point of impact to surface water.	

Source Information – Mansfield University Interconnection	
Withdrawal Type:	Interconnection
Approved Source:	Mansfield University Water System
Subbasin:	Chemung River Subbasin
Watershed Boundary Dataset (WBD):	0205010409 (Tioga River)
Withdrawal Location (degrees)*:	Lat: -- Long: --
* Specific location information concerning discrete water-related project features has been withheld for security reasons.	

Section 4. Aquifer Testing

The project sponsor requested that the prior review and approval of the constant-rate aquifer testing plan required by Commission Regulation 18 CFR §806.12(b) for groundwater withdrawals be waived. A 48-hour, constant-rate aquifer test of Well 3 was conducted on May 1 through May 3, 2000, at 87.8 gallons per minute (gpm) without prior approval by the Commission. Based on the analysis of the aquifer test results, construction of Well 3 and the understanding of the hydrogeologic setting, Commission staff determined that the withdrawal from Well 3 at the requested withdrawal rate, and in accordance with the conditions set forth herein, should not cause permanent loss of aquifer storage, render competing supplies unreliable, or cause adverse impacts to the water resources of the basin. Therefore, the requirement for pre-approval of the aquifer testing plan for Well 3, pursuant to Commission Regulation 18 CFR §806.12, is hereby waived.

Commission staff determined that Well 3 likely draws water from the shallow unconfined aquifer that receives recharge from Lambs Creek and recommended that a passby flow be required for the protection of aquatic resources. Due to the small watershed, other upstream withdrawals, and ongoing withdrawals from a reservoir upstream of the area of influence of Well 3, Commission staff recommended that on-stream flow monitoring of Lambs Creek be developed approximately 500 feet downstream of the Well 3 location to provide real-time monitoring that is sensitive to the site-specific conditions. Commission staff recommended the maximum instantaneous rate of production from Well 3 not exceed 55 gpm.

Section 5. Approved Withdrawal Quantities and Limitations

The withdrawal approved hereunder is subject to the quantitative limits and restrictions set forth in the tables below.

Approved Withdrawal Quantities and Limitations – Well 3		
30-Day Average Withdrawal (mgd):	0.079	
Maximum Instantaneous Withdrawal Rate (gpm):	55 (Not to Exceed)	
Total System Withdrawal Limit (30-Day Average) (mgd):	0.494 (not to include Mansfield University interconnection)	
Flow Protection Type:	Seasonal passby expressed as monthly values	
Method for Flow Protection:	On-site flow monitoring	
Passby Schedule:		
<i>Month</i>	<i>On-Site Flow Protection Rate (cfs)</i>	<i>Off-Site Monitoring Threshold for Flow Protection (cfs)</i>
January	0.6	Not Applicable
February	0.7	Not Applicable
March	1.8	Not Applicable
April	1.8	Not Applicable
May	0.9	Not Applicable

Approved Withdrawal Quantities and Limitations – Well 3 (continued)		
<i>Month</i>	<i>On-Site Flow Protection Rate (cfs)</i>	<i>Off-Site Monitoring Threshold for Flow Protection (cfs)</i>
June	0.3	Not Applicable
July	0.1	Not Applicable
August	0.1	Not Applicable
September	0.1	Not Applicable
October	0.2	Not Applicable
November	0.4	Not Applicable
December	0.8	Not Applicable

mgd – million gallons per day
1 cfs = 448.8 gpm

Approved Withdrawal Quantities and Limitations – Mansfield University Interconnection	
Peak Day Withdrawal (mgd):	0.142*
* Quantity not included in total groundwater and surface water system limit.	

The withdrawals are also subject to all other conditions set forth in this docket approval.

Section 6. Existing Approved Withdrawals

Quantities applicable to the existing approved withdrawals are listed in the table below.

Existing Approved Groundwater Withdrawals			
Source	30-Day Average Withdrawal (mgd)	Commission Docket No.	Docket Expiration Date
Well 1	0.200	19940707	July 14, 2024
Well 2	0.252	20060901	September 13, 2031

Section 7. Grandfathering Determination – Withdrawals

Quantities applicable to the project’s grandfathering determination for existing withdrawals are listed in the table below. This source listed below is currently approved by PADEP Water Allocation Permit WA-147A, with a withdrawal limit of 0.250 mgd.

Grandfathered Surface Water Withdrawals		
Source	Peak Day Withdrawal (mgd)	30-Day Average Withdrawal (mgd)*
Webster Reservoir	0.377	0.311

* Value(s) represent maximum documented 30-day average amounts that occurred prior to applicable regulatory effective date(s).

Section 8. Standard Conditions

1. The project sponsor shall comply with all Commission regulations, including metering and reporting requirements contained in Commission Regulation 18 CFR §806.30. This project is subject to the annual compliance and monitoring fee as specified in the Commission's Regulatory Program Fee Schedule, which may be modified over the term of the approval.

2. Within sixty (60) days from the date of this approval, the project sponsor shall submit a metering plan to the Commission for review and approval by Commission staff that accounts for all withdrawals listed in Sections 3 and 7, excluding the interconnection with Mansfield University which is addressed in Special Condition 24 below.

3. Prior to any withdrawal from the sources listed in Section 3, the project sponsor shall install and maintain metering in accordance with Commission Regulation 18 CFR §806.30. The project sponsor shall notify the Commission, in writing, and submit digital photographs of the meter when it has been installed, provide the serial number of the meter, and certify the accuracy of the measuring device to within five (5) percent of actual flow. Withdrawals shall not commence from the sources listed in Section 3 until Commission staff has approved the implementation of the approved metering plan and notified the project sponsor of such approval.

4. The project sponsor shall maintain the totalizing meter and other measuring devices, accurate to within five (5) percent, so as to provide an accurate record of withdrawals, 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.

5. Within ninety (90) days from the date of this approval, the project sponsor shall submit a plan to Commission staff for review and approval for the implementation of a groundwater elevation monitoring program in accordance with Commission Regulation 18 CFR §806.30(a)(4). The plan shall include proposed methods for the daily measurement and recording of groundwater elevations in the sources listed in Sections 3 and 6. Following approval, the project sponsor shall execute the plan and complete installation of water level monitoring equipment in accordance with the approved schedule. The project sponsor shall notify the Commission, in writing, and submit digital photographs of the water level monitoring equipment when it has been installed and certify the accuracy of the measuring devices. The project sponsor shall notify the Commission when the monitoring plan has been fully implemented. Thereafter, the groundwater elevation data shall be reported to the Commission quarterly, and as otherwise required. Quarterly monitoring reports shall be submitted on-line and are due within thirty (30) days after the close of the preceding quarter.

6. The project sponsor or any other person representing the project sponsor shall allow authorized employees or agents of the Commission, without advance notice, at any reasonable time and upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas where the project is being constructed, operated, or maintained, or otherwise exercise all investigative powers authorized under Commission Regulation 18 CFR §808.12.

7. The project sponsor shall keep daily records of the project's withdrawal from the sources listed in Sections 3 and 7 and shall report the data to the Commission quarterly, and as otherwise required, in the form and manner as prescribed by Commission staff. Quarterly monitoring reports shall be submitted on-line and are due within thirty (30) days after the close of the preceding quarter. Any alternative measuring, monitoring, or accounting procedure requested by the project sponsor shall be submitted for review and, if appropriate, approved by Commission staff prior to implementing or modifying existing equipment or procedures.

8. Should the project's grandfathered withdrawals be expected to exceed the amounts listed herein, the project sponsor is required to make application.

9. Should the project's anticipated total system demand be expected to exceed the approved total system withdrawal limit herein, the project sponsor is required to make application for modification to this approval.

10. The project sponsor shall comply with the water conservation requirements specified in Commission Regulation 18 CFR §806.25(a).

11. This approval is conditioned on the project sponsor maintaining legal access to the withdrawal location for the duration of the approval.

12. Annual reporting for 2011 and 2012 to PADEP indicates unaccounted for system water losses of 21 and 31 percent, respectively. The project sponsor shall comply with the water conservation requirements and reduce system water losses to less than 20 percent to comply with Commission Regulation 18 CFR §806.25(a)(1). The project sponsor shall reduce system losses and achieve compliance with the requirements within five (5) years of the effective date of this docket approval (June 20, 2018) unless an extension of time is granted due to extenuating circumstances described, in writing, by the project sponsor. 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.

13. The project sponsor shall register with the appropriate agency all surface water and groundwater sources described herein, as may be required by regulations of the member jurisdiction.

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

15. 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. All such permits and/or approvals shall be obtained prior to the withdrawal of water. The Commission reserves the right to modify, suspend, or revoke this action if the project sponsor fails to obtain or maintain such approvals.

16. 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, pursuant to Commission Regulation 18 CFR §806.32.

17. 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.

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

19. The project sponsor has a period of three (3) years from the date of this approval to commence the withdrawal from the sources listed in Section 3 or this approval will automatically expire, unless an extension is requested by the project sponsor and approved by the Commission as provided in Commission Regulation 18 CFR §806.31(b). Likewise, if the project is discontinued for such a time and under such circumstances that an abandonment of the project may be reasonably inferred, the Commission may rescind the approval of the project unless a renewal is requested by the project sponsor and approved by the Commission.

20. Should the project's anticipated withdrawals be expected to exceed the amounts listed herein, the project sponsor is required to make application for modification to this approval.

21. If the Commission determines that the operation of the project's groundwater withdrawal 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.

22. This approval is effective until June 19, 2028. As specified in Commission Regulation 18 CFR §806.31(e), if the project sponsor submits an application on or before December 19, 2027, the project sponsor may continue operation of this project pursuant to the terms and conditions of this approval until such time as the Commission acts on such application, or until otherwise notified by the Executive Director.

Section 9. Special Conditions

23. This approval authorizes the withdrawal of up to 0.142 mgd of water from the Mansfield University water system through the use of an interconnection, conditional upon receipt of an authorization letter and agreement between the project sponsor and Mansfield University. The quantity withdrawn through the interconnection shall not be included in the total groundwater and surface water system limit specified above. If approval is secured by Mansfield University for withdrawals in excess of the quantity specified herein, the project sponsor may seek an increase to the authorized interconnection quantity up to the newly approved quantity by submitting copies of the revised authorization letter and agreement between the project sponsor

and Mansfield University and requesting that the Commission approve such increase. Such increase shall not be effective unless and until an approval is issued by the Commission's Executive Director. This authorization is conditional upon Mansfield University obtaining and maintaining all other required approvals or permits for the duration of the agreement.

24. Within ninety (90) days from the execution of an agreement between the project sponsor and Mansfield University, a metering plan shall be submitted to the Commission for review and approval by Commission staff that measures all withdrawals through the interconnection. Following Commission approval of the plan and prior to withdrawal from the interconnection, the project sponsor shall install and maintain metering on the interconnection, in accordance with Commission Regulation 18 CFR §806.30(a)(1). The project sponsor shall notify the Commission, in writing, and submit digital photographs of the meters when installed and certify the accuracy of the measuring devices to within five (5) percent of actual flow.

25. Within ninety (90) days from the date of the approval of the metering plan required by Standard Condition 2, the project sponsor shall install and maintain metering on withdrawals from Webster Reservoir, in accordance with Commission Regulation 18 CFR §806.30(a)(1). The project sponsor shall notify the Commission, in writing, and submit digital photographs of the meters when installed and certify the accuracy of the measuring devices to within five (5) percent of actual flow.

26. Due to the small watershed, the presence of withdrawals from a reservoir upstream of the area of influence, and other upstream withdrawals, local on-stream flow monitoring of Lambs Creek shall be developed approximately 500 feet downstream of the Well 3 location to provide real-time monitoring that is sensitive to the site-specific conditions. The project sponsor shall submit its design and a proposed construction schedule for the on-stream flow monitoring device for Lambs Creek within ninety (90) days of the date of this approval for review and approval by Commission staff prior to any construction. The flow measurement device must include automatic recording of flow. Following approval, the project sponsor shall complete construction in accordance with the approved schedule, and shall certify to the Commission that construction has been completed in accordance with the approved design. The passby systems shall be kept fully functional and free of debris. Withdrawal from the sources listed in Section 3 shall not commence until approval of the implementation of the passby flow measurement device is received, in writing, from Commission staff. Thereafter, the passby flow data shall be reported to the Commission quarterly, and as otherwise required. Quarterly monitoring reports shall be submitted on-line and are due within thirty (30) days after the close of the preceding quarter. The project sponsor may propose alternative flow monitoring to the Commission for staff review and approval.

27. Effective upon notice of this approval, the project sponsor shall cease all withdrawals from Well 3 when streamflow, as measured at the approved on-stream passby flow measurement device specified in Section 5 and above, or at an approved alternate location, is less than the applicable flow protection threshold specified in Section 5, or an applicable site-specific equivalent thereof if alternate monitoring is approved, and shall not reinstate withdrawals until the streamflow exceeds such flow protection threshold. The project sponsor shall keep daily

records of the flow measured at the on-stream flow monitoring device and shall report the data to the Commission, as required.

28. The system limit established herein supersedes the total groundwater system limit established in Commission Docket No. 20060901.

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 June 20, 2013.

Dated: June 21, 2013


Stephanie L. Richardson