

RESOLUTION #2024 – 40

**RESOLUTION OF THE MANTUA TOWNSHIP
MUNICIPAL UTILITIES AUTHORITY
AUTHORIZING SICKELS & ASSOCIATES PROPOSAL 2024-66 FOR
PROFESSIONAL SERVICES FOR HYDROGEOLOGICAL STUDY OF
MT. LAUREL AQUIFER AND POTABLE WELLS #6, #7, AND #8**

WHEREAS, the Mantua Township Municipal Utilities Authority (“MTMUA”), has its principal place of business at 401 Main Street, Mantua, New Jersey 08051 and Sickels & Associates (“S&A”) has its principal offices at 833 Kings Highway, Woodbury, New Jersey 08096; and

WHEREAS, the purpose of MTMUA is the provisioning of water and sewer services to the residents of Mantua Township; and

WHEREAS, the MTMUA water distribution system consists of seven (7) wells supplied by two ground water aquifers. Four (4) of these wells (Well Nos. 2, 3, 4 & 5) have an average depth of 320 feet and draw their water from the Upper Aquifer of the Potomac-Raritan-Magothy (PRM) with the remaining three (3) wells (Well Nos. 6, 7 & 8) having an average depth of 190 feet drawing water from the Wenonah-Mt. Laurel Aquifer; and

WHEREAS, the MTMUA has observed a loss of pumping capacity in Well Nos. 6, 7 & 8 over the years. These wells have been maintained and recently one of the wells has been rehabilitated. However, these efforts have resulted in only minimal improvements to the pumping capacity. The MLW wells provide a large portion of water to the distribution systems, and are critical to the operations of the water system; and

WHEREAS, based on the results from the well rehabilitation, the MTMUA is looking to recapture some of the lost pumping capacity of the well(s) by drilling another potable water well within 100 feet of the existing well(s). However, there is concern that the increased number of irrigation wells in the area may have compromised the ability of the MLW aquifer to provide a sufficient increase in capacity. Consequently prior to moving forward and investing the funding on these improvements, the MTMUA is looking to have a hydrogeological study performed to assess the potential of yield from the MLW aquifer in area of the existing water treatment plant; and

WHEREAS, Phase 1 - Section 1 (Hydrogeological Analysis of Existing Well Sites) will consist of S&A conducting hydrogeological research and review the

existing data and aquifer characteristics from supply well Nos. 6, 7 and 8; Provide a summary of the geology, hydrogeologic characteristics of the aquifers and a summary of existing nearby well data; Review area data from available sources (cross sections-sections, pump tests, geological mapping, etc.) from adjacent wells within a fixed radius; Evaluate the potential of drilling new well at the existing well sites with estimated target depths and potential yield of new wells; Review and assess the historic vs current withdrawal rates of the well field; Provide an estimate of the potential yield from new wells that may be drilled adjacent to wells 6, 7 and 8; Prepare a summary report with tables and graphs comparing historic vs current performance of the wells plus my conclusions; and

WHEREAS, Phase 1 - Section 2 (Authority to assist by providing information) will consist of the MTMUA providing pumping records (monthly/daily) for each well over the last 5 years; providing drilling logs for the wells with screening information; providing maintenance records for each of the wells, pump/motor replacements, well rehabilitations, etc.; providing historical and/or current well testing information for the wells such as Pumping rate, Well Static Levels, Well Pumping Levels, Pumping Rate, TDH/PSI, Existing step test and pump test data from well installation and any subsequent step test and pump test data; and

WHEREAS, based on the understanding of this project and description of service, the total consulting fees to complete the various activities described in the Sickels and Associates Proposal No. 2024-66 dated June 12, 2024, is estimated at **\$12,100.00** plus cost of applicable reimbursable expenses, which will be invoiced separately; and

WHEREAS, the MTMUA and S&A are authorized to execute Proposal No. 2024-66 provided by S&A included as part of the submission to the MTMUA dated June 12, 2024, which is attached hereto and incorporated herein at length.

NOW, THEREFORE, BE IT RESOLVED by the Mantua Township Municipal Utilities Authority, as follows:

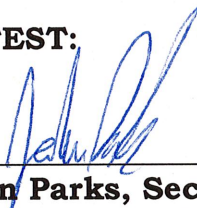
1. The Mantua Township Municipal Utilities Authority does hereby authorize the Director or Chairman to accept the proposal (2024-66) by S&A in the amount of **\$12,100.00** as attached hereto and incorporated herein at length effective June 12, 2024, unless terminated beforehand by the parties.

DULY ADOPTED at the Meeting of the Mantua Township Municipal Utilities Authority held on June 18, 2024.

**The Mantua Township
Municipal Utilities Authority**

By: 
Mario DiLiscandro, Chairman

ATTEST:


John Parks, Secretary

Governing Body

Recorded Vote

**Resolution 2024-40 S&A Proposal
No. 2024-66 – Mt. Laurel Aquifer and
Potable Wells #6, #7 and #8**

| | Mario DiLiscandro Chairman | Tim Sheehan Vice Chair | John Parks Secretary | Kevin Howarth Treasurer | Vince Voltaggio Engineering Coordinator | Jason Snyder Alt #1 | James Neely Alt #2 |
|----------------|-------------------------------|---------------------------|-------------------------|----------------------------|--|------------------------|-----------------------|
| MOTION | | | ✓ | | | | |
| SECOND | | ✓ | | | | | |
| AYE | ✓ | ✓ | ✓ | | ✓ | ✓ | |
| NAY | | | | | | | |
| ABSENT | | | | ✓ | | | ✓ |
| ABSTAIN | | | | | | | |