



YOUR GOALS. OUR MISSION.

November 25, 2025

via email: Dstockton@princetonnj.gov

Deanna Stockton, PE, CME
Municipal Engineer
Municipality of Princeton
400 Witherspoon Street
Princeton, New Jersey 08540

Re: Proposal for Professional Services
2026 Quarterly Landfill Gas and Gas Vent Monitoring, Groundwater and Surface Water
Sampling and Annual Landfill Cap Maintenance Inspection
Princeton Sanitary Landfill – Facility ID No. 132295
River Road (Block 1503, Lots 2 & 4)
Municipality of Princeton, Mercer County, NJ 08540
T&M Proposal No. PRINOH-25011

Dear Ms. Stockton:

T&M Associates (T&M) has prepared this proposal for Environmental and Engineer Services for the Princeton Sanitary Landfill associated with the required quarterly landfill gas and gas vent monitoring, quarterly groundwater and surface water sampling, and the annual landfill cap maintenance inspection and reporting for the calendar year 2026.

The Municipality of Princeton (Municipality) is required to perform quarterly perimeter gas monitoring and groundwater sampling, as well as an annual maintenance inspection of the landfill in accordance with the landfill's Closure and Post-Closure Care Plan issued in 2003 by the New Jersey Department of Environmental Protection (NJDEP).

The Closure Plan was last modified in October 2016 by T&M to include the constructed photovoltaic generation system (solar array) that now covers a significant portion of the landfill footprint. The solar array currently provides supplemental electricity for the adjacent River Road Wastewater Treatment Plant (WWTP) owned and operated by the Stony Brook Regional Sewerage Authority (SBRSA).

SCOPE OF SERVICES

T&M has performed the perimeter gas monitoring, quarterly groundwater sampling of the existing six (6) on-site monitoring wells, and annual maintenance inspection and reporting since 2021, and proposes to continue these services in calendar year 2026. The following is the specific scope of services to be performed by T&M:



TASK 1: Quarterly Perimeter Landfill Gas Monitoring, Gas Vent Monitoring & Reporting

On a quarterly basis, T&M will conduct a gas survey at the landfill in accordance with N.J.A.C. 7:26-2A.8(h)9. T&M will perform perimeter landfill gas monitoring at twenty (20) temporary gas sampling points (GSPs) along the perimeter of the landfill in accordance with the attached Gas Sampling Point Location plan (GSP-1 through GSP-20). A portable gas analyzer will be used to measure the subsurface concentrations of methane, carbon dioxide, oxygen, and the Lower Explosive Limit (LEL).

In addition, based on the quarterly landfill gas monitoring data since 2023, which has indicated positive methane gas concentration in GSP-9, T&M will continue to monitor quarterly and install delineation points at GSP-9 during the quarterly monitoring events when positive methane gas concentrations are recorded or at any other GSP locations which exhibit positive methane gas concentrations. T&M will also continue to monitor the eight (8) on-site landfill gas vents on a quarterly basis as requested by the NJDEP. Monitoring results will continue to be summarized and presented in the quarterly reports.

T&M personnel will attempt to conduct each quarterly monitoring event during periods of falling barometric pressure in accordance with the Department's policy. Local barometric pressure data for the time period 24 hours prior to and during the monitoring event, will be recorded, graphed, and presented in the quarterly reports submitted to the NJDEP. Within approximately 60 days after completion of the perimeter landfill gas monitoring and gas vent monitoring, a quarterly report will be prepared and submitted to the NJDEP Bureau of Solid Waste Permitting, NJDEP Compliance and Enforcement, and the Stony Brook Regional Sewerage Authority. A copy of each quarterly report will also be submitted to the Municipality.

TASK 2: Annual Landfill Cap Maintenance Inspection & Report

As required annually, T&M will visit the landfill once during the calendar year 2026, separate from the quarterly events, to conduct the engineering and maintenance inspection of the facility and landfill cap. The inspection will focus on the condition and function of the final soil cover, final cover vegetation, final cover side slopes, run-on and run-off control features, facility access controls, site conformance measures, groundwater monitoring wells, and the gas venting system.

Should any of these elements need attention, T&M will contact the Municipality to discuss potential corrective actions. Within approximately 60 days from the completion of the inspection, T&M will prepare a report summarizing our findings and recommendations, which will be submitted to the NJDEP and the Municipality.

TASK 3: Expenses

Expenses for monitoring instruments, drilling equipment, gas sampling point supplies, reproduction, mailings, and field supplies will be invoiced accordingly. T&M have estimated \$2,500 at this time for 2026.



TASK 4: Groundwater and Surface Water Monitoring Program

Pursuant to the Closure Plan and the NJPDES/DGW permit #0057312, the post-closure groundwater and surface water monitoring system consist of the existing six (6) wells and two (2) surface water monitoring points, which require monitoring on a quarterly basis.

Utilizing the assistance of a professional certified sampling technician and laboratory, T&M will collect samples from the existing six (6) on-site groundwater monitoring wells and the two (2) surface water sampling point locations on a quarterly basis (i.e., January, April, July and October) for the calendar year 2026. The professional certified sampling technician and laboratory services are included in our scope of services and are based on a standard turnaround time for the laboratory analysis.

Upon receipt, T&M will review the analytical results and compare the results to the New Jersey Pollutant Discharge Elimination System (NJPDES) Permit thresholds. A summary of the data will be presented in a quarterly report and submitted to the NJDEP for review and approval. In addition, the groundwater data from each quarterly event will be entered into the NJDEP database through the online portal. A copy of each quarterly report with summary of the results and recommendations will also be submitted to the Municipality.

SITE ACCESS COORDINATION

Coordination with NJ Clean Energy Ventures (Solar Company)

T&M currently has access to the gated/locked solar field to access monitoring locations located within the fenced area. If necessary, T&M will request assistance from the Municipality to contact and coordinate with NJ Clean Energy Ventures if site access becomes an issue.

Coordination with Princeton Police Department

The Princeton Police Department periodically utilizes the onsite rifle range for training purposes. T&M may request assistance from the Municipality to coordinate with the Police Department if access becomes an issue. We may require brief closure of the rifle range (less than 1 hour) to allow time to monitor gas sampling points in proximity of the range. Once gas monitoring is completed in the area, activity at the rifle range could safely resume.

Coordination with Stony Brook Regional Sewerage Authority (SBRSA)

T&M notes that four (4) of the twenty (20) GSPs require monitoring on the adjacent River Road WWTP owned and operated by the SBRSA. T&M will contact the SBRSA prior to each site visit to gain access to their property. T&M will contact the Municipality if further assistance is needed in this matter.



SCHEDULE AND DELIVERABLES

T&M will proceed with this project upon authorization from the Municipality. The Municipality will receive electronic copies of the annual and quarterly reports submitted to the NJDEP. T&M will provide bound reports if requested by the Municipality and NJDEP.

FEE SUMMARY

T&M will provide the scope of services described above at a fixed fee not-to-exceed **\$82,625.00** as detailed in the table below:

Task No.	Task Description	Fee
Task 1:	Quarterly Perimeter Landfill Gas Monitoring & Reporting	\$ 20,475.00
Task 2:	Annual Landfill Maintenance Inspection & Reporting	\$ 6,900.00
Task 3:	Expenses	\$ 2,500.00
Task 4:	Groundwater and Surface Water Monitoring Program	\$ 52,750.00
	Total Estimate Project Cost:	\$ 82,625.00

LIMITATIONS/EXCEPTIONS

- T&M will be provided access to the gated site during normal business hours. We will contact the Municipality if additional assistance is needed.
- T&M will contact the SBRSA directly to access monitoring points on the Authority's property. We will contact the Municipality if additional assistance is needed.
- We assume that all perimeter landfill gas sampling points can be located and sampled during our scheduled monitoring event.
- Our budgeted fee assumes the Municipality will maintain (cut/trim vegetation to the ground) along the landfill perimeter and in the general vicinity of each gas sampling point throughout the year.
- Our costs presented herein assume that the number of gas sampling points will remain constant throughout 2026. Positive concentrations of methane gas will require additional monitoring and reporting in accordance with NJDEP requirements. T&M will contact the Municipality if we anticipate costs to exceed the proposed budget.
- Property boundary, topographic, or well surveys are beyond the scope of this proposal.
- Any corrective actions required by the NJDEP associated with an exceedance of gas monitoring and/or groundwater/surface water sampling is not included in this proposal and would be provided to the Municipality in a separate proposal upon request



Quarterly Landfill Gas Monitoring and Annual Inspection for 2026
Princeton Sanitary Landfill – Facility ID No. 132295

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T&M appreciates the opportunity to submit this proposal and looks forward to continuing to work with you on this project. If you have any questions or require additional information, don't hesitate to contact us.

Best Regards,
T&M Associates

A handwritten signature in blue ink, appearing to read "Michael Heumiller".

Michael Heumiller, LSRP
Group Manager
Environmental

Copy (via email):

Robert R. Keady Jr., PE, CME, Senior Vice President, Client Leader, T&M,
Robert Fromling, LSRP – Senior Staff Environmental Scientist, T&M

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