

August 2, 2021

4522.001.001

Mr. Raymond Frigon
Department of Energy and Environmental Protection
Bureau of Water Protection and Land Reuse
Remediation Division
79 Elm Street
Hartford, CT 06109

Re: Request to relocate groundwater monitoring wells
NORCAP Landfill, Wapping Road, East Windsor, CT

Dear Mr. Frigon:

This letter is being submitted on behalf of our client, Gravel Pit Solar, LLC, with the approval and consent of Northern Capital Region Disposal Facility, Inc. (NORCAP, the property owner).

As DEEP is aware, our client is proposing to build a solar array on property that is part of the NORCAP Landfill site located at Wapping Road in East Windsor, Connecticut. Specifically, they are proposing to build a solar array on land to the west of the landfill which is not a part of the solid waste disposal area. This land contains groundwater monitoring wells that are part of the landfill's environmental monitoring program. The proposed solar array has received approval from the Connecticut Siting Council and the facility will be subject to state regulations to construct and operate.

This letter constitutes a request to DEEP to abandon four existing monitoring wells and replace them in kind at alternative locations. The intent is to move the wells outside of the proposed solar field and to screen the replacement wells at the same elevations in order to maintain comparable water quality and flow data. A plan showing groundwater contours and the approximate area of the solar field are attached. We are proposing to abandon four monitoring wells in place (monitoring wells MW-204, MW-213R, MW-213D/R, and MW-401), and to replace these wells in kind at alternative locations in the same general area of the site.

The existing wells would be abandoned in place by industry standard practices, to include sealing them with bentonite chips and removing the concrete collars and steel casing. The proposed replacement wells would be located outside the footprint of the proposed solar array, but in the same general area of the site and on the same parcel. We are also proposing to screen the replacement wells at the same elevation as the wells they are replacing. Tables of existing and proposed well details are attached. Once the proposed replacement wells are installed, they will be surveyed and facility mapping would be updated to reflect the location of the replacement wells.



A summary description of these wells is as follows:

- MW-204 is located within the zone of influence, approximately 90 feet west of the western landform, and is utilized for periodic monitoring of groundwater elevation; the well is not sampled as part of the environmental monitoring program. We are proposing to locate the replacement well (MW-204R) approximately 60 feet south of its current location, within the zone of influence.
- MW-213R is a shallow overburden compliance well located approximately 300 feet west of the zone of influence and approximately 900 feet west of the western landform. This well is sampled as part of the landfill's environmental monitoring program. We are proposing to locate the replacement well (MW-213R2) approximately 420 feet north of its current location, to the west of the zone of influence.
- MW-213D/R is a deep overburden compliance well paired with MW-213R and located approximately 300 feet west of the zone of influence and approximately 900 feet west of the western landform. This well is sampled as part of the landfill's environmental monitoring program. We are proposing to locate the replacement well (MW-213D/R2) approximately 420 feet north of its current location to the west of the zone of influence.
- MW-401 is located approximately 1,000 feet west the zone of influence, approximately 1,700 feet northwest of the western landform, and is utilized for periodic monitoring of groundwater elevation; the well is not sampled as part of the environmental monitoring program. We are proposing to locate the replacement well (MW-401R) approximately 55 feet north of its current location.

We have attached to this letter a map showing the current layout of the facility, with the existing monitoring wells, the location of the proposed solar array, and the approximate locations of the proposed replacement monitoring wells. Please note, this request is only to relocate monitoring wells. We are not requesting any modifications to the existing landfill's environmental monitoring plan.

If you have any questions, please contact either of us at (860) 633-8770.

Sincerely,

A handwritten signature in blue ink that reads "Patrick J. McKay".

Patrick J. McKay
Senior Staff Environmental Scientist

A handwritten signature in blue ink that reads "D. Scott Atkin".

D. Scott Atkin, LEP
Senior Associate

Attachments

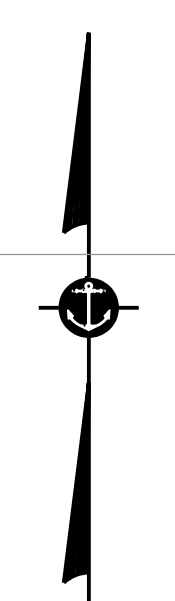
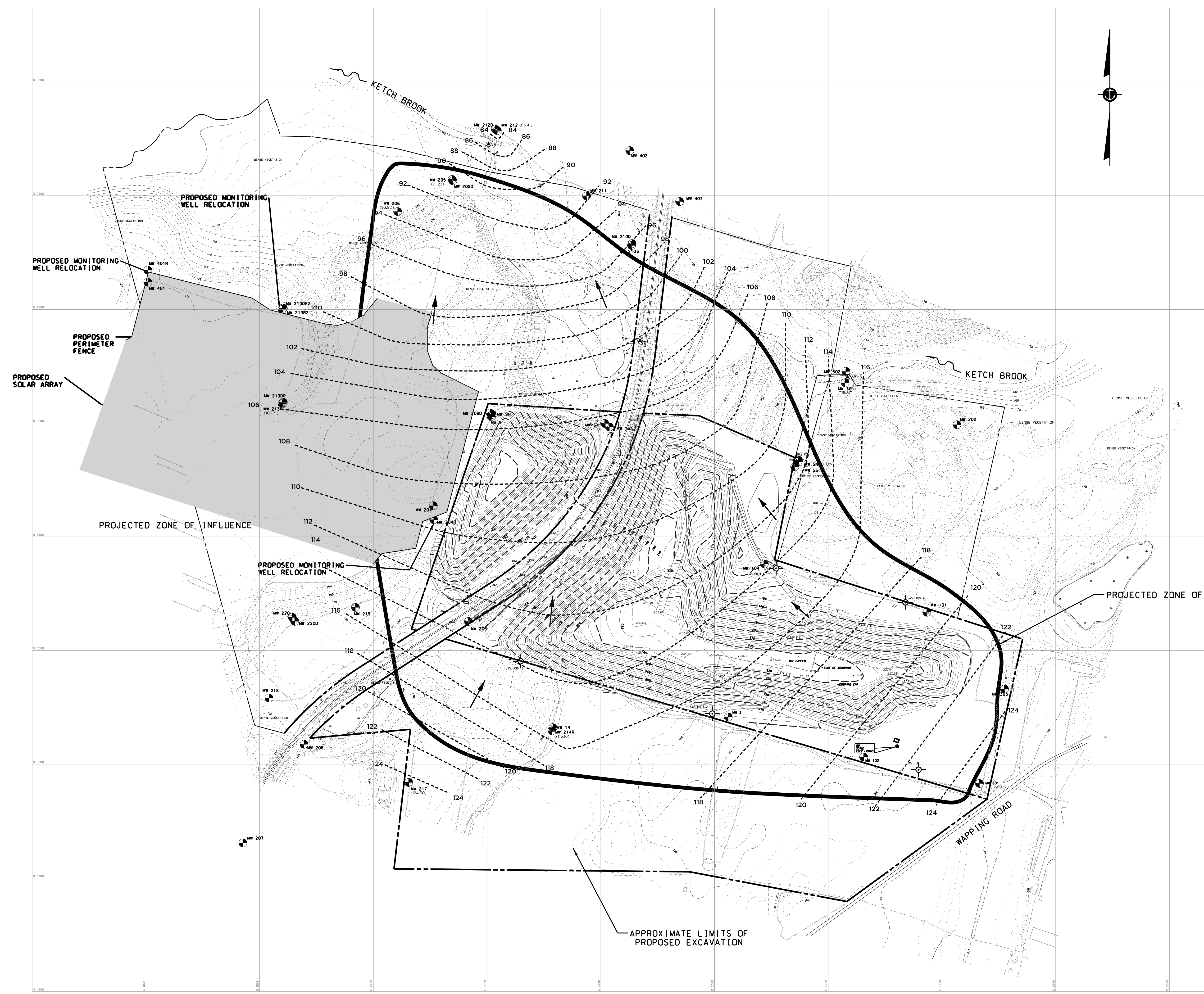
cc: Robert Isner; DEEP WEED
David McKeegan; DEEP WEED
Hy Martin; Gravel Pit Solar, LLC
Jonathan Gravel; North Light Energy
Dennis Botticello; NORCAP, Inc.

TABLE 1
 EXISTING WELL DATA

Well Number	Top of PVC Elev	Ground Elev (approx)	well depth (ft bgs)	elevation of 10' slotted screen interval
204	171.23	169	75	106-96
213R	158.49	155	57	108-98
213D/R	158.04	155	114	51-41
401	171.08	168	75	103-93

TABLE 2
 REPLACEMENT WELL DATA

Replacement Well Number	Anticipated Ground Elev (approx)	Estimated Stick up (ft)	Estimated depth (ft bgs)	elevation of 10' slotted screen interval (ft)
MW-204R	168	3	69	106-96
MW-213R2	166	3	65	108-98
MW-213D/R2	165	3	121	51-41
MW-401R	166	3	67	103-93

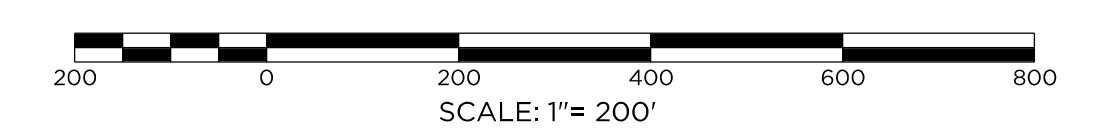


LEGEND:

- 115--- MAY 2020 GROUNDWATER CONTOUR LINE (DASHED WHERE INFERRED)
- (113.94) MONITORING WELL, GROUNDWATER ELEVATION INCLUDED IN PARENTHESES.
- ↖ INFERRED GROUNDWATER FLOW DIRECTION
- ⌋ ZONE OF INFLUENCE (SEE NOTE 3 FOR DEFINITION)

GENERAL NOTES:

1. SHALLOW OVERBURDEN WATER LEVELS WERE RECORDED IN THE FIELD BY ANCHOR ENGINEERING SERVICES, INC. PERSONNEL, ON MAY 28, 2020.
2. WATER LEVELS MAY FLUCTUATE WITH SEASON, PRECIPITATION, TEMPERATURE, ACTIVITIES IN THE AREA AND OTHER FACTORS.
3. ZONE OF INFLUENCE: THE DEFINITION OF "ZONE OF INFLUENCE" WHICH IS PRESENTED ON PAGE 4 OF THE MAY 7, 1996 CONSENT ORDER SW-379 (SECTION B.8.c) IS DEFINED AS THE AREA OF SOIL AND GROUNDWATER WITHIN WHICH THE TREATMENT OF THE LEACHATE DISCHARGE BY SOIL AND MIXING OF LEACHATE WITH GROUNDWATER OCCURS, AND COULD REASONABLY BE EXPECTED TO OCCUR AND THEREFORE, WITHIN WHICH SOME DEGRADATION OF GROUNDWATER QUALITY HAS OCCURRED OR IS ANTICIPATED TO OCCUR.



Barton & Loguidice
ANCHOR

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Phone: (860) 633-9770
Fax: (860) 633-5971
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PROJ. ENGINEER	KLM	PREPARED FOR	
PROJ. MANAGER	DSA	NORCAP LANDFILL	
OFFICE REVIEW	DSA	GRAVEL PIT SOLAR, LLC	
REVISIONS		MONITORING WELL RELOCATION	
		WAPPING ROAD WINDSORVILLE, CT	
PROJECT	DATE	SHEET NO.	1 OF 1
4522-001	7/28/21	1	1
SCALE: 1"=200'			

CONDITIONAL APPROVAL

Dennis Botticello
321 Olcott Street
Manchester, CT 06040

November 24, 2021

RE: Request to relocate groundwater monitoring wells
NORCAP Landfill, Wapping Road, East Windsor

Dear Mr. Botticello:

The Remediation Division of the Connecticut Department of Energy and Environmental Protection has reviewed the request to relocate four groundwater monitoring wells, dated August 2, 2021, prepared for NORCAP Landfill by Barton & Loguidice and received on October 18, 2021.

The request proposes a solar array to be constructed and operated at this location.

The portion of the proposed request describes the abandonment of four monitoring wells and to replace these wells in an alternative location in the general area of the site. The request is hereby approved on the condition that the monitoring wells are screened in the same interval as those being abandoned. Additionally, if any waste material is encountered during the replacement of the monitoring wells, it will be the responsibility of the consultant to contact the Waste Engineering and Enforcement Division of the Bureau of Material Management & Compliance Assurance.

Nothing in this approval shall affect the Commissioner's Authority to institute any proceeding or take any other action to prevent or abate pollution, to recover costs and natural resource damages, and to impose penalties for violations of law including but not limited to violations of any permit issued by the Commissioner. If at any time the Commissioner determines that the approved actions have not prevented pollution, the Commissioner may institute any proceeding, or take any action to require further action to prevent or abate pollution. This approval relates only to pollution or contamination identified in the above referenced request.

In addition, nothing in this determination shall relieve any person of his or her obligations under applicable federal, state and local law.

No provision of this approval and no action or inaction by the Commissioner shall be construed to constitute an assurance by the Commissioner that the actions taken pursuant to this approval will result in compliance or abate pollution.

If you have any questions pertaining to this matter, please contact MaryAnne Danyluk of my staff at (860) 424-3796 or at MaryAnne.Danyluk@ct.gov .

Sincerely,



Jan M. Czeczotka
Director
Remediation Division
Bureau of Water Protection and Land Reuse

JMC: mad

CC: D. Scott Atkin, LEP, Barton & Loguidice, 41 Sequin Drive, Glastonbury, CT 06033
Hy Martin , Gravel Pit Solar, LLC, 166 Avenues of the Americas, 9th floor, NY, NY 10036
Dave McKeegan, WEED DEEP
MaryAnne Danyluk, DEEP
Selena Thornhill-Moody, DEEP

Sent Certified Mail
Return Receipt Requested