



RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WASTE MANAGEMENT
235 Promenade Street, Room 380
Providence, Rhode Island 02908

November 14, 2019

Mr. Arthur Palmer
AP Enterprises, LLC
28 Teal Drive
Wakefield, RI 02879

RE **Remedial Action Work Plan Addendum**
Landfill Cap Grading Plan
Former Portsmouth Landfill
RAWP Modification

Dear Mr. Palmer:

On September 28, 2010, the Department of Environmental Management (the Department), Office of Waste Management (OWM) issued a Remedial Approval Letter (RAL) for the above referenced property. The original approved Remedial Action Work Plan (RAWP) prepared by VHB in March of 2010 describe a plan to close the landfill at the above referenced site.

Subsequent to the issuance of the RAL, but prior to completion of the closure, the Department received the following documents on July 19, 2019, requesting minor grading changes to the approved plan.

1. Landfill Cap Grading Plan - Cover Letter. Prepared by Tim O'Connor, dated July 19, 2019.
2. Modified Cap Plan. Prepared by DiPrete Engineering, dated July 18, 2019.

Based upon review and consideration of the above referenced documents, the Department is in concurrence with your request so long as the following requirements are met:

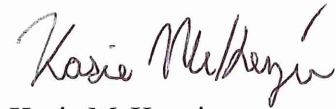
1. The overall slope meets the slope requirements of 3-33% on all areas of the landfill.
2. The cap meets the Department's requirements of 2-feet of clean soil with the top six (6) inches supporting vegetative growth. This is required even in areas labeled on the DiPrete plan as 'A-D'.

3. All soil must meet the Residential Direct Exposure Criteria (RDEC) and have compliance sampling data submitted to the Department for all new sources of material. The quarterly updates sent to the Department must include all sampling results as well as the quantity of material received. The Department has the right to ask for additional sampling on any capping material as deemed necessary.
4. Per the Notice of Violation (NOV) issued on April 30, 2018, all milestones agreed upon in the forthcoming Consent Agreement must be strictly adhered to.
5. The drainage patterns, locations and rates will remain the same as originally approved in the Department.
6. All activities, procedures, operations and schedules detailed in the RAWP, RAL, this RAL Addendum and the RAWP Modification request are strictly adhered to. Any significant changes to the RAWP shall be pre-approved by the OWM, and any minor changes shall be reported to the Department by telephone within one (1) day and in writing within five (5) working days.

This Approval Letter does not remove your obligation to obtain any other necessary permits from other local, state, and/or federal agencies.

If you have any questions regarding this letter, please contact me by telephone at (401) 222-2797, ext. 7177 or by e-mail at Kasandra.McKenzie@dem.ri.gov.

Sincerely,



Kasie McKenzie
Environmental Engineer
Office of Waste Management

cc: Tim O'Connor – Principal Engineer – Tim O'Connor & Company, LLC
Mark Dennen – Supervising Environmental Scientist – RIDEM/OWM

July 19, 2019

Ms. Kasandra McKenzie
Environmental Scientist
Rhode Island Department of Environmental Management
235 Promenade Street
Providence, Rhode Island 02908-5767

Re: Landfill Cap Grading Plan
Former Portsmouth Landfill

Dear Ms. McKenzie

Tim O'Connor and Company LLC is pleased to submit the enclosed proposed Modified Cap Plan completed by DiPrete Engineering on behalf of AP Enterprise, LLC (APE) for the former Portsmouth Landfill (the Property). This Plan is a revised version of the plan submitted to the Department in November 2018 and is the result of subsequent comments made by the Department and our meeting of May 9, 2019.

The general goal of this submittal is to quicken the completion of the ongoing landfill capping project and address several engineering concerns. In the view of the project team, these proposals minimize potential environmental regulatory concerns and the amount of construction activities necessary to complete the capping project.

Below is a list of proposed, and in one case completed, work that will decrease the time and work necessary to complete the RIDEM-required landfill cap. Each of these areas are identified on the attached plan.

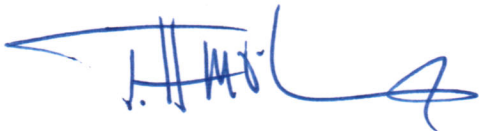
- A. There are several areas where the footprint of the cap was expanded to address areas where waste was observed or highly suspected to be present. These areas are small relative to the size of the cap and the expansion was done in a manner which was consistent with the drainage pattern of the RIDEM approved grading plan for each area.
- B. There are several areas of the Property which were proposed to be capped under the RIDEM-approved plan, however as the project progressed these areas were not capped as it was not clear that waste was present. In order to address RIDEM's concerns, these areas will be capped with at least two feet of final capping soil which is compliant with the RIDEM Direct Exposure Criteria. These areas (identified as areas of cap thickness reduction on the attached Plan) are all on the perimeter of the landfill cap and will be graded consistent with the drainage of the RIDEM-approved plan.

- C. At the northeastern extent of the Property there is an encroachment on to the APE Property by an abutter (AP 20 Lot 6). The existing perimeter fencing will be moved to the property line and the area that is proposed to be capped per the RIDEM-approved plan will be capped with two feet of final capping soil and graded consistent with the drainage of the RIDEM-approved plan.
- D. Toward the middle-portion of the Property there is an area of approximately 1.4 acres which is up to 1.5 feet above the proposed final grade per the approved grading plan. In order to maintain the approved site drainage patterns, APE proposes to regrade this area to the proper elevation by moving the soil into the existing site haul road as the project progresses toward completion. Prior to initiating work in this area, APE will arrange for a sufficient volume of final capping soil so that this entire area can be immediately covered with at least 6 inches of final capping soil. As with all site earthwork the project team will be mindful of controlling dust generation and proper controls of erosion and sedimentation.

With regard to the proposed activities discussed herein, these adjustments are viewed by the project team as minor and having no impact on the direction of the approved surface water flow pattern, the volume of potential runoff, nor the receiving water body.

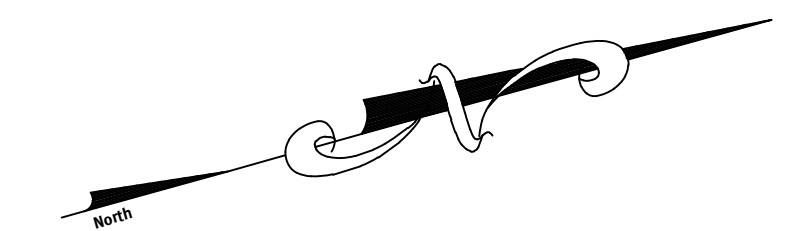
Please feel free to contact me should you have any questions regarding this matter.

Sincerely
TIM O'CONNOR & COMPANY, LLC

A handwritten signature in blue ink, appearing to read 'T. M. O'Connor', with a stylized flourish at the end.

Timothy M. O'Connor, PE, LEED-AP
Principal

z:\leiman\projects\2057-001_park_avenue\autocad_drawing\2057-001-awp.dwg Plotter: 7/19/2019



Final Grading Modifications

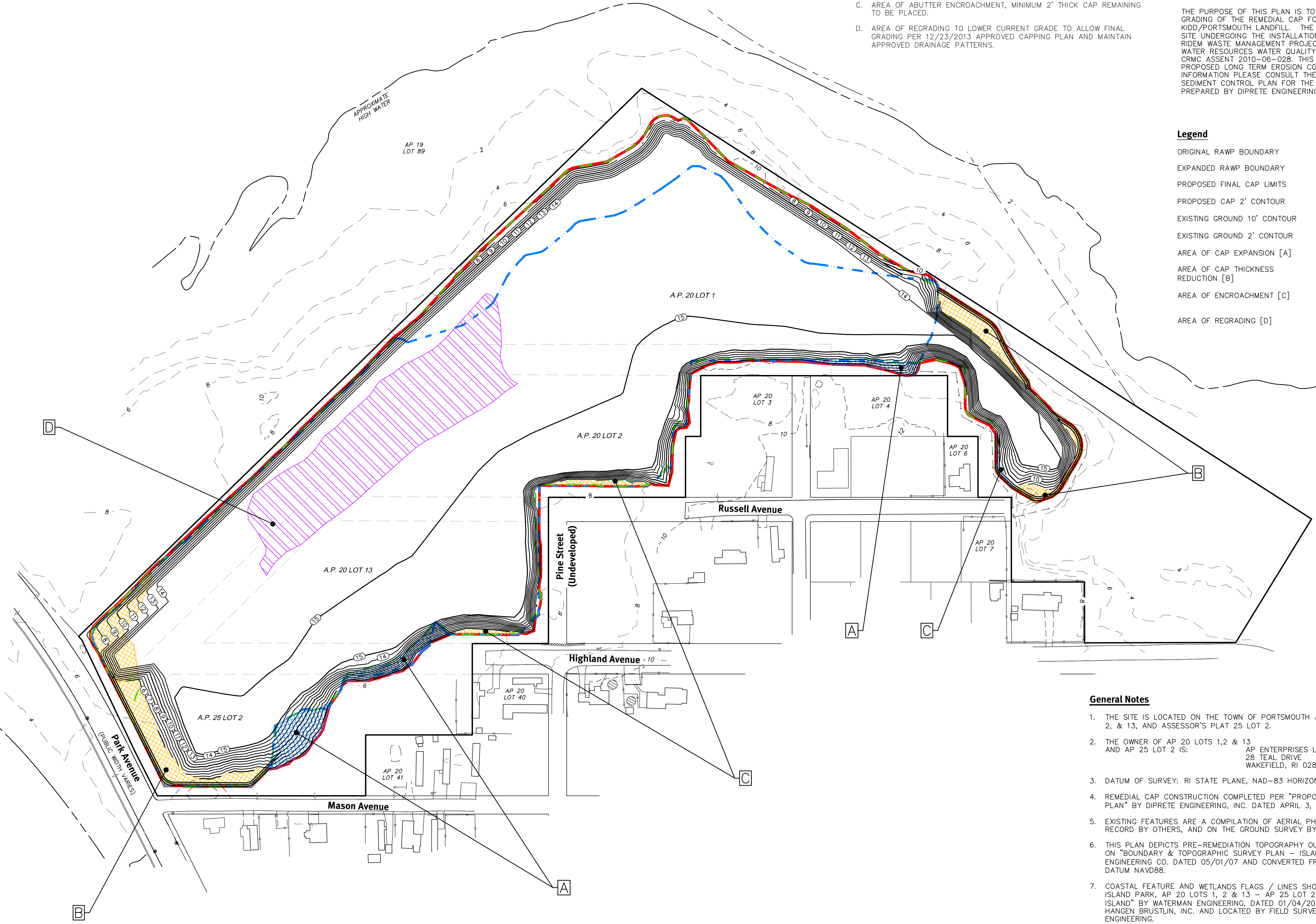
- A. FOOTPRINT OF CAP EXPANDED TO ADDRESS AREAS WHERE WASTE WAS OBSERVED OR HIGHLY SUSPECTED TO BE PRESENT.
- B. THICKNESS OF CAP REDUCED TO 2' (PROPOSED GRADING MODIFIED).
- C. AREA OF ABUTTER ENCROACHMENT, MINIMUM 2' THICK CAP REMAINING TO BE PLACED.
- D. AREA OF REGRADING TO LOWER CURRENT GRADE TO ALLOW FINAL GRADING PER 12/23/2013 APPROVED CAPPING PLAN AND MAINTAIN APPROVED DRAINAGE PATTERNS.

Plan Purpose Note

THE PURPOSE OF THIS PLAN IS TO SHOW THE MODIFIED EXTENT AND GRADING OF THE REMEDIAL CAP FOR THE FORMER KIDD/PORTSMOUTH LANDFILL. THE SITE IS A CURRENT REMEDIAL SITE UNDERGOING THE INSTALLATION OF A REMEDIAL CAP UNDER RIDEM WASTE MANAGEMENT PROJECT NO. 72257, RIDEM OFFICE OF WATER RESOURCES WATER QUALITY CERTIFICATE NO. 10-038, AND CRMC ASSENT 2010-06-028. THIS PLAN ALSO SHOWS THE PROPOSED LONG TERM EROSION CONTROL MEASURES. FOR MORE INFORMATION PLEASE CONSULT THE LATEST SOIL EROSION AND SEDIMENT CONTROL PLAN FOR THE KIDD/PORTSMOUTH LANDFILL PREPARED BY DIPRETE ENGINEERING.

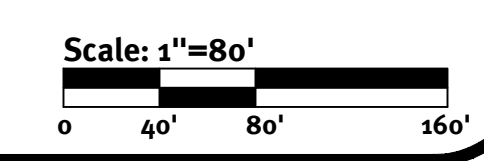
Legend

- ORIGINAL RAWP BOUNDARY
- EXPANDED RAWP BOUNDARY
- PROPOSED FINAL CAP LIMITS
- PROPOSED CAP 2' CONTOUR
- EXISTING GROUND 10' CONTOUR
- EXISTING GROUND 2' CONTOUR
- AREA OF CAP EXPANSION [A]
- AREA OF CAP THICKNESS REDUCTION [B]
- AREA OF ENCROACHMENT [C]
- AREA OF REGRADING [D]



General Notes

1. THE SITE IS LOCATED ON THE TOWN OF PORTSMOUTH ASSESSOR'S PLAT 20 LOTS 1, 2, & 13, AND ASSESSOR'S PLAT 25 LOT 2.
2. THE OWNER OF AP 20 LOTS 1, 2 & 13 AND AP 25 LOT 2 IS:
AP ENTERPRISES LLC
28 TEAL DRIVE
WAKEFIELD, RI 02879
3. DATUM OF SURVEY: RI STATE PLANE, NAD-83 HORIZONTAL, NAVD88 VERTICAL.
4. REMEDIAL CAP CONSTRUCTION COMPLETED PER "PROPOSED CAP/EROSION CONTROL PLAN" BY DIPRETE ENGINEERING, INC. DATED APRIL 3, 2014.
5. EXISTING FEATURES ARE A COMPILATION OF AERIAL PHOTOGRAPHY, PLANS OF RECORD BY OTHERS, AND ON THE GROUND SURVEY BY DIPRETE ENGINEERING, INC.
6. THIS PLAN DEPICTS PRE-REMEDIATION TOPOGRAPHY OUTSIDE CAP AREA AS SHOWN ON "BOUNDARY & TOPOGRAPHIC SURVEY PLAN - ISLAND PARK" BY WATERMAN ENGINEERING CO. DATED 05/01/07 AND CONVERTED FROM DATUM NGVD29 TO DATUM NAVD88.
7. COASTAL FEATURE AND WETLANDS FLAGS / LINES SHOWN PER "GRADING PLAN, ISLAND PARK, AP 20 LOTS 1, 2 & 13 - AP 25 LOT 2, PORTSMOUTH, RHODE ISLAND" BY WATERMAN ENGINEERING, DATED 01/04/2010. FLAGGING BY VANASSE HANGEN BRUSTLIN, INC. AND LOCATED BY FIELD SURVEY BY WATERMAN ENGINEERING.



Modified Cap Plan
Former Kidd/Portsmouth Landfill
 Park Avenue
 Portsmouth, Rhode Island
 Owner:
AP Enterprises, LLC
 28 Teal Drive, Wakefield, Rhode Island 02879

This regulatory submission set shall not be used for construction purposes unless stamped 'Issued for Construction' and signed by a DiPrete Engineering representative.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA compliance in the implementation of this plan and design.

NO.	DATE	DESCRIPTION	BY	DESIGN BY
1	7/18/2019	Modified Remedial Cap Submission	ADD	ADD
2	10/21/2018	Modified Remedial Cap Submission	ADD	ADD