



July 9, 2024

Jenna Giguere, Esq.
Rhode Island Department of Environmental Management
Office of Legal Services
235 Promenade Street, Suite 425
Providence, Rhode Island 02908

RE: Response to Request for Additional Detail - Conceptual Remedy for On-Site
Encapsulation of Regulated Soil at RIRM Site
434 Allen's Avenue
Providence, Rhode Island
Plat Map 47 / Lot 601 & Plat Map 55, Lot 10
RIDEM File No. SR-28-0143

Dear Ms. Giguere:

This correspondence is in response to your June 20, 2024 letter to Rhode Island Recycled Metals wherein you requested additional information relative to the preferred remedial alternative of on-site encapsulation of regulated soils at the above-referenced Site. The Department's comments are italicized below. LSE and RIRM's responses are underlined.

- 1. Area #1 – “existing narrow concrete slab at the southwest corner of the Site.” Provide detailed dimensions of the thickness of this existing concrete slab.*

The “existing narrow concrete slab at the southwest corner of the Site” we assume to mean at the entrance to the facility. This area has four inches of asphalt from the entrance at Allens Avenue to the scale, which has concrete ramps on both ends. This area is approximately 25’ wide at the gate and 110’ from Allens Avenue to the front of the scale’s ramp.

- 2. Area #1 – “new concrete pads...will consist of 4 inches of concrete.” Provide justification of how this proposed cap thickness will withstand any heavy equipment use, including detailing the types and approximate weights of equipment needed for future operations in this area.*

The concrete pads are designed primarily for storage of metals and to provide a clean working area for customers. The processing equipment that will be on the pads will be lighter equipment to manage and stage the piles, rather than heavy machinery to process. Customer vehicles/trucks will discharge their materials to these pads. Then, skid steers and front-end loaders will push the material into piles to keep the area clean for the rubber-wheeled vehicles. Heavier equipment, such as a material handler (on rubber wheels rather than steel tracks) may position on the pad, but most likely would remain to the side of the concrete pads along with any heavier equipment such as excavators with a shear or grapple. We do not foresee more than a thousand tons of light iron material on the pad at a single time, with less on the heavy metal and non-ferrous pads. A skid steer weighs approx. 3 tons, a front-end loader 13 tons, and a material handler 45 tons.

3. *Area #1 – “three to four inches of compacted ground asphalt tailings over crushed stone on top of an impervious liner.” Provide justification of how the proposed cap thickness and materials will withstand any heavy equipment use, including detailing the types and approximate weights of equipment needed for future operations in this area.*

The heavy equipment will be staged primarily on the crushed stone and ground asphalt areas, around the concrete pads. The machinery will reach onto the concrete pads in order to prepare and load material. An excavator on tracks weighs approx. 50 tons plus the weight of shear or grapple. A material handler weighs approx. 45 tons. Tractor trailers that will remove the material from site weigh approx. 40 tons. The tractor trailers will be traversing the site most often to take material from the pads and drive westerly across the site to Allens Avenue. The heaviest machinery will be engaged in vessel dismantling, which area will be characterized by one foot of crushed stone. This larger excavator weighs approx. 125 tons plus the weight of the shear. Furthermore, it is expected that periodic inspection and maintenance of the ground asphalt-covered areas will be required. Therefore, as noted in the Department’s June 20, 2024 SIR Comment Letter, the revised Environmental Land Use Restriction (ELUR) will include a soil management plan to specify the frequency of cap inspections as well as maintenance and repair procedures.

4. *Area #2 – How will marine salvage fluids (fuels, lubricants, antifreeze, etc.) be managed to ensure that the proposed passive infiltration does not pose a future risk to groundwater quality or the bay?*

Prior to vessel dismantling, any recoverable fluids would be removed from the vessel, or hazardous materials, if present, would be remediated accordingly. The vessels would be brought onto land to cut large sections off, at which point these sections would be moved to the concrete pads in Area #1 for further processing, including any sections where substances may remain, such as in the engine compartment. Dumpsters and other containers will be staged alongside the vessel for safe storage and containment of any sections as required.

In addition to answers to the above questions, the Department requires submission of a revised version of the “Site Plan Showing Details of Planned Engineering Controls Associated with Stormwater Infrastructure” that comports with the below requirements:

1. *The Drawing must be clearer, all notes must be legible.*
2. *Provide the scale.*
3. *Show Area #1 and Area #2 on the Drawing.*

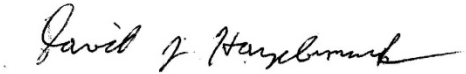
The PDF prepared by Independence Engineering for the proposed stormwater controls and engineered controls is attached which clearly shows the requested detail.

Finally, please note that the revised Environmental Land Use Restriction (ELUR) will also be required to specify the frequency of cap inspections as well as maintenance and repair procedures.

See the response to Comment #3, above.

If you have any additional questions regarding the preferred remedy for the Site, please feel free to contact the undersigned.

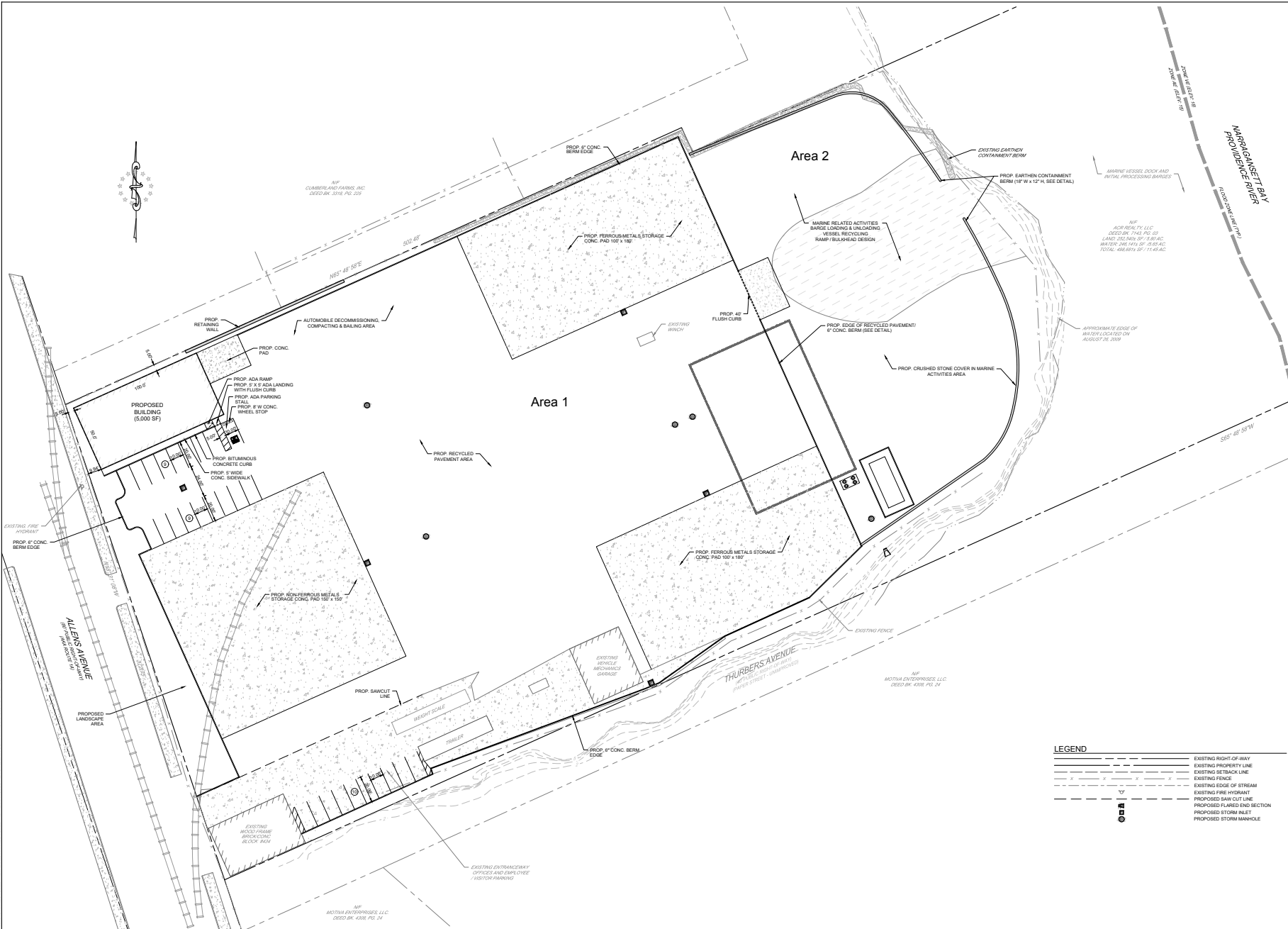
Sincerely,



David J. Hazebrouck, P.G., LSP, LEP
Principal

Attachments

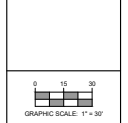
C: Richard Nicholson, Nicholson & Associates, LLC
Jared Sevinor, RIRM



REV	DATE	DESCRIPTION	BY

Independence
 ENGINEERING LLC
 151 EAST GREEN STREET, SUITE 10306
 PROVIDENCE, RHODE ISLAND 02908
 (401) 263-2908
 ROBERTSON@INDEPENDENCE-ENG.COM
 NEW JERSEY, PENNSYLVANIA, MASSACHUSETTS

PERMITTING PLANS SUBMISSION
SITE PLAN
 FOR
RHODE ISLAND RECYCLED METALS
 434 ALEXIS AVENUE
 CITY OF PROVIDENCE, RHODE ISLAND 02908



PROJECT	046-001
DATE	04/01/2024
SCALE	1" = 30'
DRAWN	MAS
DESIGNED	SMO
CHECKED	NES

NEIL E. SANDER
 No. B979
Neil E. Sander
 PROFESSIONAL ENGINEER
 CML 04810024

C400
 SHEET 4 OF 11

LEGEND

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(Solid line)	EXISTING PROPERTY LINE
(Dashed line with short dashes)	EXISTING SETBACK LINE
(Dashed line with dots)	EXISTING FENCE
(Dashed line with 'x' marks)	EXISTING EDGE OF STREAM
(Dashed line with 'x' marks)	EXISTING FIRE HYDRANT
(Dashed line with 'x' marks)	PROPOSED SAW CUT LINE
(Dashed line with 'x' marks)	PROPOSED FLARED END SECTION
(Dashed line with 'x' marks)	PROPOSED STORM INLET
(Dashed line with 'x' marks)	PROPOSED STORM MANHOLE