Field Report

CMA ENGINEERS, INC.
35 BOW STREET
PORTSMOUTH, NH 03801

REPORT NO: 037
DATE: 06/05/13
WEATHER: AM: Clear 49F at 07:00 **PM:** Clear, 66F at 13:00

Project: North Country Environmental Services Landfill – Phase II-B
Bethlehem, NH
CMA Project No: 865 *(file: Field Reports: 865 C.1)*

Contractor: Pike Industries, Inc.
3 Eastgate Park
Belmont, NH 03220

Equipment:	**Personnel:**
John Deere 370E Dump Truck	1 Operator
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John Deere 744K Loader	1 Operator
Caterpillar 345 BL Excavator	1 Operator
Caterpillar 336 EL Excavator	1 Operator
John Deere 750K Bulldozer	1 Operator
Caterpillar CS56 Roller	1 Operator
Water Truck	1 Operator

Engineer: CMA Engineers, Inc. (CMA): Jack Kareckas
Others:

Kevin Roy, NCES
Josh Casey, NCES
Matt Willey (Supt), Adam (Surveyor) Pike
Robbie, Lance (Supt/QC), 6 person liner crew (RTD). (Rob on site part time AM)
Ames Quimby, CES (QA)

Construction Activities:

07:00 – Arrived on site.
Pike continued loading and hauling waste from Northerly side to South side of landfill (345 exc, 2 Rock Trucks, 744 ldr (loader worked part time screening till))

Pike 336 exc, 750 dozer and labor crew continued prep of tie-in area working east to west through AM hours.

09:00-RTD crew arrived. Found several saturated soil areas (It appears water is moving laterally and down through screened till). 336 excavator moved to remove saturated soil and replace with drier material; laborers raked the affected areas following compaction.

Robbie took exception to the geometry of the prepared anchor trench along the side of the road. Pike excavator shaped the anchor trench (see field book sketch and photos) to RTD's satisfaction. CMA took no exceptions to the prepared condition whick eliminated a "hard bend" at the top of AT.

RTD crew opened existing primary liner (Appears to be National Seal product; smooth, shiney, flat-die extruded sheet) at proposed tie-in. Pike crew uncovered several areas, near the former 12" HDPE stormwater drain, of equipment damaged primary and secondary existing geomembrane. This damage appears to be old damaged sheet dating back to original construction (SANCO?).

Figure 1 Existing Landfill Equipment Damage below Proposed Tie-in Seam.

Figure 2 Existing Landfill Construction Damage

12:30- Following subgrade preparation, RTD deployed initial panel (S1) of secondary geomembrane (Solmax460 RT Textured-smooth edges. Two wedges passed trial seam tests and was witnessed by QA. Both wedges deployed for alternate seam welding. Seams ~80' in long. Noticing accumulated resin build up and deposition on sheet. Need to check these areas for possible patches as a defect.

14:00-Second roll secondary 60 mil HDPE deployed starting at panel S7and running to S12.

15:40-Third roll starting at S13 and running to S18.

16:55-Fourth roll starting at S19 to S22 (Partial roll)

Through the mid to late afternoon the Pike tie-in seam excavation crew (336, etc.) worked to expose easterly seam running on a bias line up to the top anchor trench.

Project photos for this date stored in field office computer in Libraries/Pictures/NCES20130605.

Crew picking up at18:00; off job at 18:15.