



WAG

# Sanborn, Head & Associates

Consulting Engineers & Scientists

## MEMORANDUM



To: Meeting Attendees

From: <sup>JAZ</sup> Dave Cedarholm, P.E.

File: 2364

Date: July 16, 2004

Re: July 13, 2004 Construction Meeting  
Grading Modifications Project  
North Country Environmental Services, Inc.  
Bethlehem, New Hampshire

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### Meeting Attendees:

- Gene Martin, North Country Environmental Services, Inc. (NCES)
- Sean Moran, NCES
- Wayne Wheeler, New Hampshire Department of Environmental Services (NHDES)
- Gary Tomlinson, Paragon Construction Inc. (PCI)
- Bob Maccini, PCI
- James Chabot, Sanborn, Head & Associates, Inc. (SHA)
- David Cedarholm, SHA
- Dennis Porter, SHA

The Construction meeting was held in the NCES office conference room, and began at approximately 1230 hours. The following items were discussed.

### PREVIOUS MEETING MINUTES

Dave asked if there were any comments on the July 9, 2004 meeting minutes.

1. Gary Tomlinson suggested that item No. 8 under Old Business on page 2 should indicate that PCI's laborers were not stationed continuously at the bottom of the slope to catch boulders rolling down the slope. Instead, the laborers regularly visited the work areas to remove the boulders.

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7. Dave asked if PCI would be updating the construction schedule. Bob said that he would provide an updated construction schedule this Monday morning. Jim suggested that PCI send a schedule by email to test if the format is printable using software owned by SHA.
8. Bob said that PCI is planning to relocate the sideriser building superstructure by raising it off the existing foundation and placing it on a new foundation. Jim suggested that Bid Items A2-16 and A2-17 be used if the building superstructure is relocated rather than rebuilt. Upon examination of PCI's bid schedule we noted that Bid Items A1-16 and A1-17 in the awarded bid total \$2,000 more than the sum of Bid Items A2-16 and A2-17. Therefore, PCI would provide NCES a \$2,000 credit for re-using the existing timber-framed structure with modified doors as shown on the plans.
9. Gary raised the issue that RTD might need to be on-site at the same time the grout is placed in the void below the liner near the northeast corner of Stage II. Jim suggested that the secondary liner be repaired before the grout is placed, then Select Sand be placed around the secondary cleanout riser and over the void as the grout is being injected under the secondary liner. After the grout set, the primary liner would be repaired and Select Sand placed on top of the primary liner. Jim also indicated that after the liner is repaired Select Sand be placed where refuse had been removed, and 18-inches of compacted 1-inch minus till placed on top of the sand as a seal, which would restore the pre-existing condition. PCI would then place the proposed 12-inches of Select Sand.
10. Dave asked if PCI would be providing a cost estimate to reconstruct the existing liner system as discussed during the last construction meeting. Bob provided a time and materials cost estimate for PCI's efforts to date for repair of the void near the northeast corner of Stage II, and indicated he plans to provide a more complete cost estimate for the remainder of the repair when he receives a proposal for the grouting and projected costs from RTD.
11. Gene noted that the area near the outlet of the new 36-inch diameter CPP culvert on the south side of Stage I still showed signs of erosion. Gary said that PCI would address the erosion at the culvert outlet.
12. It was noted that PCI erected a tarp over their fuel containment cell to limit collection of precipitation. Gene confirmed that the spent oleophilic rags and residual liquid may be disposed in the NCES landfill if the rags are double bagged. Gary was directed to coordinate disposal of these materials with Sean Moran.
13. Gary reported that PCI repaired the silt fence around the site perimeter last week, and that PCI constructed a silt trap west of the soil stockpile area to catch sediment and storm water discharging from the existing access road west of the stockpile area.

14. Jim indicated that replacement of uniaxial geogrid in the MSE berm near where the gas main crosses under the berm would be necessary due to damage from being run over by equipment.

## PROGRESS REPORT

Gary provided a report of PCI's cumulative progress since the last construction meeting.

1. Approximately 78,102 cubic yards of 8-inch minus till has been placed, compacted and tested;
2. Approximately 98% of the 1-inch minus till has been placed in the area referred to as the "zig";
3. Approximately 6,468 cubic yards of Select Sand was on-site either in place or in a stockpile;
4. Five bentonite plugs were installed around leachate cleanout risers on the east and south sides of Stage III;
5. The PVC risers of monitoring wells B-404L and B-802 were repaired (see explanation in item No. 1 under New Business);
6. The PVC monitoring well and gas probe risers that had to be extended have been completed;
7. Four PCI employees were certified to butt-fusion weld HDPE pipe;
8. Work has begun to extend the 8-inch diameter cleanout risers;
9. Work has resumed on the gas modification items;
10. A silt trap was constructed west of the soil stockpile area;
11. PCI estimates that approximately 2,000 cubic yards of fill remains available between the existing stockpile area and the remaining excavation for Detention Pond No. 4; and
12. Gary said that PCI will be removing two off road dump trucks from the project fleet at the end of the day because most of the bulk fill placement has been completed.

## NEW BUSINESS

1. Dennis reported that while SHA was on-site last week sampling groundwater, it was discovered that PCI had accidentally damaged three monitoring wells (B-802, B-404L, and B-404U). The PVC riser for well B-404L was broken and an unknown quantity of soil entered the well. The steel casing and PVC riser for well B-404U was bent over such that the well could not be sampled. Dennis said that SHA had to redevelop well B-404L before it could be sampled. PCI has repaired all three wells with assistance from SHA. Gene reminded PCI of the importance of the monitoring wells, and that the test results from the well sampling strongly influences many of the site issues. PCI agreed to use more caution in the future when working near the monitoring wells.
2. Dave noticed that the cleanout risers on the south side of Stage III are currently within a deep depression. Dave suggested that PCI may need to excavate a trench to provide proper alignment of the leachate cleanout pipes when they are welded to the existing pipes. Gary agreed.
3. Dave asked what type of air monitoring PCI performs when workers are welding leachate and gas piping within or near the landfill. Gene also asked how air monitoring was addressed in PCI's Site Specific Health and Safety Plan. Gary indicated that PCI typically monitors the breathing zone when an excavation is classified as a confined space based on OSHA definitions. Jim suggested that a worker does not necessarily need to be in a confined space at a landfill to be affected by a hazardous atmosphere. Gary said that PCI has air monitoring equipment and a blower on-site, and indicated that PCI would employ the equipment when they feel it is appropriate when welding leachate and gas piping in the future.
4. Dave and Bob reviewed draft Pay Application No. 6.
5. Gary asked what was intended for the leachate cleanout riser for Stage I Phase I. Jim said that Detail 30 on Sheet 14 of 18 depicts the design intention for extending the cleanout and connecting the trap drain. The existing blind flange on the cleanout riser should be removed and replaced with an elastomeric end cap (Fernco end cap) as shown in the detail.

## PUNCH LIST ITEMS

Following is a Punch List of items to be completed that have been discussed in previous meetings.

1. Leachate force main installation between Valve Box 301 and the 1,000-gallon underground storage tank;

2. Backfill the electrical pull box near the toe of the MSE berm;
3. Provide a cost estimate for replacing the floor drain sump in the Quonset hut.
4. Provide RTD Enterprises's time and material invoice for extending the existing geocomposite in the Stage II anchor trench.
5. Install monitoring well extension protective casings with Royer locking caps.
6. Silt removal from the swale west of the stockpile area.

The meeting adjourned at approximately 1445 hours.

DCVAC:fr:jsb