

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A Meeting Date: <u>8/3/06</u> Report No: <u>72</u> Report Date: <u>8/9/06</u>
Project Name:	CLOSURE CONSTRUCTION - OGS SLOPES, TOP CAPS & RELIEF DITCH, SCP-S AND PHASE II - NGS SLOPES	Project Address: 13300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County
ATTENDEES: Ardaman: Rob Werner, John Cameron, Tony Deatherage FDEP: CDM: Dean Carter, Mike Cruz, George Curry, Steve Solters, Jean Wilson Moretrench: Steve Voytko, Paul Davis, Ralph Remmert Comanco: Paul Moore Compass: Jeremy Giles, Tim Morrow		

COPY TO: FDEP: Phil Coram, Sam Zamani, John Coates
 Ardaman: Nadim Fuleihan, Rob Werner, Tom Leto, John Cameron, Tony Deatherage
 CDM: Steve Solters, Dean Carter, Michael Edgar, Michael Cruz, Dick Slovarp
 Moretrench: Al Schuman, Steve Voytko, Mike Panny, Nick Haddon, Ralph Remmert
 Comanco: Tom Topp, Paul Moore
 Compass: Tim Morrow, Jeremy Giles, Tom McSweeney

Next Meeting is Scheduled for Thursday, August 10, 2006
Site Tour at 8:00 am followed by
Construction/Engineering & CDM Operations Meetings

1.0 REVIEW MINUTES OF PREVIOUS MEETING

No corrections were noted.

2.0 SAFETY

No incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Moretrench:

- Continued work on Phase II Slope Closure - continued finish grading the south ditch, and re-installed structure no. 3 in the east ditch. Also worked on the stormwater pond perimeter dike.
- Well Water usage - none since last report.
- Equipment: 3 D-6 dozers, 1 compactor, 1 excavator, one 6-inch hydraulic pump - 8 personnel.

Comanco:

- Continued liner deployment and detail work in the SCP-S Pond Water Sump; as of 8/1/06 liner deployed totaled 118,895 sf of 80-mil textured liner and 241,899 sf of 80-mil smooth liner.
- Continued preparation, liner installation and detail work to retrofit rip-rap structure depressions in the OGS west ditch.
- Began liner deployment in the Phase II Slope Closure south stormwater ditch.
- Equipment: 1 excavator, 2 3-inch pumps, 2 loaders, 1 track crawler dump, 1 4x4 Honda 350 w/trailer, 2 pick-up trucks, 1 crew bus, 1 QC trailer, 6 generators - 23 personnel. Added 1 loader and 1 generator since last report.

Compass:

- Continued watering for dust control.
- Continued grading the SCP-S Process Water Sump dikes and pond bottom, and installed the 36-inch manhole outlet pipe, valve and valve manhole. No fill was hauled since last report.

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- Seeded and mulched the Phase II Slope Closure south and east gypsum slopes up to station 147+00 (subcontractor Tate Environmental).
- Well Water usage - 15,000 gallons since last report.
- Equipment: 2 dump trucks, 1 water wagon, 2 D-6 dozers, 2 excavators, 1 compactor, 1 Case dozer, 1 motor grader - 8 operators.

CDM

- Continued receiving soil fill material from L.A. Enterprises: 28,900cy (loose) for construction of the Phase II Slope Closure perimeter dike, and 442 cy (no change) for the OGS north ditch - cumulative totals reported as of 8/2/06.
- Received following from Lane Piping: 1 3-foot valve stem extension for the Phase II Slope Closure, and 1 4-foot valve extension for the SCP-S Process Water Sump.
- Also received additional gravel for drain construction from Conrad Yelvington: 1,000 tons (no change) for the SCP-S PWS, and 4,992.67 tons for the Phase II Slope Closure - cumulative totals reported by CDM as of 8/2/06.

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue work on Phase II Slope Closure - finish grading the stormwater ditches, and constructing the stormwater pond perimeter dike.
- Continue work to retrofit rip-rap structure depressions in the Phase I Slope Closure stormwater ditches.

Comanco:

- Continue liner deployment and detail work in the SCP-S Pond Water Sump.
- Continue work to retrofit rip-rap structure depressions in the Phase I stormwater ditches.
- Resume modifications to the NGS-N spray evaporation system (received more polypropylene ties).
- Continue liner deployment in the Phase II Slope Closure stormwater ditch.

Compass:

- Continue watering for dust control.
- Continue grading the SCP-S Process Water Sump dikes and pond bottom.
- Re-amend the Phase II Slope Closure east gypsum slope from station 147+00 to 138+00 (subcontractor Tate Environmental). Continue amending the east and north slopes, and seed and mulch pending pH testing by Ardaman.
- Seed and mulch the Phase I Slope Closure south earthen dike slope facing Buckeye Road.

5.0 SURVEY NOTES

- Compass/Edgemon performed as-built survey updates of the SCP-S Process Water Sump liner subgrade as the work progressed. As of 7/28/06, the dikes and pond bottom have been as-built west of north dike station 106+00 and south dike station 116+00.
- Moretrench/Edgemon provided as-built surveys of the OGS north ditch rip-rap depressions on 7/21/06, 7/24/06 and 7/28/06; Moretrench was requested to incorporate the as-built data into the composite as-built for the Phase I Slope Closure stormwater ditches.
- Moretrench/Edgemon performed an as-built survey for the Phase II Slope Closure south stormwater ditch on 7/28/06 from station 171+39 to 162+00; out-of-compliance grades were re-checked on 8/1/06.

6.0 PROJECT SCHEDULE

- No workdays were lost to weather this reporting period.
- The project schedule will be updated by CDM and distributed by email on 8/8/06.
- Weekend work schedule: Compass will work on Saturday.

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7.0 SHOP DRAWINGS and SUBMITTALS

All shop drawings and submittals should be submitted to Rob Werner (Ardaman) for approval, with transmittals only copied to John Cameron (Ardaman) and Steve Solters (CDM).

- Comanco distributed GSE warranty letters by email on 7/24/06 to CDM and Ardaman for the Phase I and II Slope Closure stormwater ditches. The warranty letters are being reviewed by Ardaman and FDEP. (It was noted that initial review has raised several questions.)
- CDM submitted shop drawings on 8/2/06 for the Phase II Slope Closure inlet structures #1 and #2; the drawings were approved by Ardaman on 8/2/06.
- Comanco submitted liner panel placement drawings on 7/28/06 for the Phase II Slope Closure 80-mil stormwater ditch and 60-mil stormwater pond. The 80-mil stormwater ditch was approved by Ardaman on 7/31/06, subject to minor field adjustments. The 60-mil stormwater pond requires clarification regarding cross seams.

8.0 TECHNICAL ITEMS/CLARIFICATIONS AND QUALITY ASSURANCE

Updated drawing sets, dated 9/28/05, were distributed at the 9/29/05 meeting for the NGS-S Cap and NGS-N Relief Ditch and the Phase I Slope Closure. Revised Phase I Slope Closure drawing Nos. C-2, C-5, C-6, D-6, D-9, D-10, D-11), dated 2/15/06 (various revision nos.) were distributed at the 2/16/06 construction meeting to reflect changes related to lowering the OGS south stormwater ditch seepage collection drain. Electronic (ACAD) are available for download from Ardaman's ftp web site. Current drawings, dated 12/16/05, were distributed at the 12/16/05 meeting for Slope Cover Construction - OGS Ponds. Current drawings (including all detail drawings for structures, drains, etc.), dated 12/22/05 (various revision nos.), for the Phase II Slope Closure were delivered to CDM at the site on 12/23/05. Current drawings (including all detail drawings for structures, drains, etc.), dated 1/11/06 (various revision nos.), for the SCP-South Compartment Closure were distributed on 1/12/06, along with CD's containing ACAD files for all current for the SCP-South and Phase II slope Closure drawings. Revised SCP-South Compartment Closure Drawing No. D-6, dated 2/15/06 (Rev. 1), was distributed at the 2/16/06 construction meeting to reflect changes related to the lowered the OGS south seepage collection drain - an electronic version (ACAD) was emailed to CDM and Moretrench on 2/28/06. Regarding finish grades for the SCP-S Process Water Sump, a drawing was provided by Ardaman at the 7/6/06 construction meeting (and attached to meeting minutes) indicating optional design grades for the pond bottom area, which were adopted by CDM/Compass. Drawing Nos. C-1, C-3, C-4, D-1 and L-1 will be updated for the record to indicate the revised grading plan.

Regarding specifications for the OGS Slopes, Top Cap Areas and NGS-N Relief Ditch, pertinent NGS-S Reservoir, Phase II OGS Compartment Closure and ITN specification documents shall be used. Pertinent specification sections from the Phase II and ITN sources, along with specifications for HDPE panel drains and concrete erosion control mats, were issued in a preliminary specification document (Sections 24, 25, 26, 27, 28, 29 and 30, all revision 0, dated 7/6/05) on 7/7/05. Additional supplemental specifications for "Woven Geotextile" and "General Earthwork Using Soil" (Sections 31 and 32, both revision 1, dated 1/4/06) were distributed at the meeting on 1/5/06.

- Preliminary drawings and CD's were distributed at the 9/15/05 meeting for the NGS-S Soil Slope Cover Construction, C-1 through C-5 for Contractor's use in estimating take-off quantities.
- Preliminary drawings for the NCP capacity upgrade project were revised; CAD files were emailed to CDM on 7/19/06 and 4 sets of hard copies were distributed at the 7/20/06 construction meeting. Preliminary technical specifications (revision P1) were emailed to CDM on 7/14/06.
- Drawings were distributed by Ardaman at the 7/20/06 meeting for additional panel drains required in the following areas: OGS Slope Pond, OGS-N Cap, OGS west and south ditches, and the NGS-S east ditch. CDM was requested to provide a proposal for the extra work. Copies of these figures were attached to the electronic version of the meeting minutes.

Quality Control Activities

- Ardaman had 6 technicians on site this reporting period.
- Phase 1 Slope Closure in-place gypsum/soil density tests - no change - 943 tests passing, none failing, none pending.

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- Phase 2 Slope Closure in-place gypsum/soil density tests - 82 tests passing, 1 failing (station 108+50 toe road), none pending.
- SCP-S Process Water Sump in-place gypsum/soil density tests - 152 tests passing, none failing, none pending.
- OGS-S slope cover in-place soil fill density tests - no change - 59 passing, none failing, none pending.
- SCP-S Process Water Sump liner seam destructive testing (DT's) - 35 marked, 23 passing, 9 pending. A summary of DT testing dated 8/3/06, revision 2, was distributed at the meeting
- Phase II Slope Closure 80-mil stormwater ditch liner seam destructive testing (DT's) - 1 marked.
- Phase I stormwater ditch liner anchor trench density tests - no change - 62 passing, 1 failing, none pending.

Miscellaneous

- Rainfall: CDM reported 1.80 inches from 7/26/06 through 8/1/06.
- Regarding repairs to NGS-S liner damage, Ardaman distributed a revised location plan (pdf version dated 8/2/06) by email on 8/3/06; an ACAD version will be emailed separately, with repair priorities and methodology. The liner still needs to be inspected for damage between elevation 41-42 feet; CDM indicated that the pond elevation was 41.8 feet on the day of the meeting, and should be pumped down to about elevation 41 feet on 8/7/06.
- Regarding permitting status of the Gulfstream II borrow pit, Compass indicated that Gulfstream is meeting with SWFWMD this week, and Manatee County next week, to discuss their response to initial comments. Compass was requested to clarify the Gulfstream II borrow pit permitting status by in writing.
- Compass requested acceptance criteria for sod and grassing. The issue will be reviewed and discussed next meeting.

Acceptances

- On 8/1/06, subgrade for liner installation, the SCP-S Process Water Sump north and south dikes and pond bottom, west of north dike station 106+00 and south dike station 116+00.
- On 8/1/06, subgrade for liner installation, the Phase II Slope Closure stormwater ditch, from station 171+39 to station 162+00.

9.0 COMMENTS by PROGRAM MANAGER

- Change order requests related to Phase I closure gypsum quantity adjustments and Phase I south seepage collection drain lowering were submitted by CDM to FDEP and Ardaman; discussions are in progress.
- A proposal for the gravel erosion protection, yet to be installed along the inboard slope of the access road at the toe of the OGS-S slope cover, will be emailed by CDM to FDEP and Ardaman.

10.0 COMMENTS by FDEP

FDEP was not represented at the meeting.