

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 05-110A	Page 1 of 4
		Meeting Date: <u>8/17/06</u>	
		Report No: <u>74</u>	Report Date: <u>8/22/06</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: John Cameron, Tony Deatherage FDEP: CDM: Dean Carter, Mike Cruz, George Curry, Jean Wilson Moretrench: Steve Voytko, Mike Panny, Ralph Remmert Comanco: Paul Moore Compass: Dylan Giles			

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 24, 2006
Site Tour at 8:00 am followed by
Construction/Engineering & CDM Operations Meetings

1.0 REVIEW MINUTES OF PREVIOUS MEETING

3.0 Summary of Work Performed by CDM - the reported quantity of 800' of 24-inch HDPE was corrected to 600'.

2.0 SAFETY

No incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Moretrench:

- Continued work on Phase II Slope Closure - grading the stormwater pond perimeter dike, and restoring a 3- to 4-foot berm adjacent to the north seepage toe ditch.
- Well Water usage - none since last report.
- Equipment: not reported (a written report was not available at the meeting) - began demobilizing on 8/15/06.

Comanco:

- Continued liner deployment, detail work and anchor trench compaction in the SCP-S Pond Water Sump; as of 8/15/06 liner deployed totaled 155,768 sf of 80-mil textured liner and 275,984 sf of 80-mil smooth liner.
- Started work to extend the Phase I Slope Closure stormwater ditch liner at the inboard anchor trench, where it is below design elevation.
- Continued detail work and began anchor trench compaction in the Phase II Slope Closure stormwater ditch; liner deployed totaled 90,205 sf of 80-mil textured liner between stations 171+39 to 152+24.
- Resumed modifications to the NGS-N spray evaporation system.
- 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.

Compass:

- Well Water usage - none since last report.
- Continued grading the SCP-S Process Water Sump dikes and pond bottom.

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- Added additional mulch on Phase II Slope Closure east gypsum slopes from station 147+00 to 138+00 (subcontractor Tate Environmental).
- Equipment: not reported (a written report was not available at the meeting) .

CDM

- Continued receiving soil fill material from L.A. Enterprises: 39,389 cy (loose) for construction of the Phase II Slope Closure perimeter dike, and 442 cy (no change) for the Phase I OGS north ditch - cumulative totals reported by CDM as of 8/16/06.
- Received following from Lane Piping for the Phase II Slope Closure: 700' of 24-inch HDPE SDR 17- 1,300' total as of 8/16/06; also 120' of 8-inch HDPE SDR 17 pipe.
- Work was discontinued in the SCP-S Cap.

4.0 PROJECTED WORK FOR NEXT WEEK

Moretrench:

- Continue demobilizing equipment. No further work is planned at this time.

Comanco:

- Continue liner deployment, detail work and anchor trench compaction in the SCP-S Pond Water Sump.
- Continue liner detail work and anchor trench compaction in the Phase II Slope Closure stormwater ditch.
- Continue work to extend the Phase I Slope Closure stormwater ditch liner at the inboard anchor trench, where it is below design elevation.
- Continue modifications to the NGS-N spray evaporation system.
- May start repair work on the NGS-S liner.

Compass:

- Continue grading the SCP-S Process Water Sump dikes and pond bottom.

5.0 SURVEY NOTES

- Compass/Edgemon continued as-built survey updates of the SCP-S Process Water Sump liner subgrade as the work progressed. As of 8/16/06, the dikes and pond bottom have been as-built north and west of east dike station 109+00, and south and west of east dike station 111+00.
- Moretrench/Edgemon provided as-built surveys of the OGS north ditch rip-rap depressions on 7/21/06, 7/24/06, 7/26/06 and 8/3/06; Moretrench was requested to incorporate the as-built data into the composite as-built for the Phase I Slope Closure stormwater ditches - Ardaman requested an ACAD version for the composite as-built.
- In response to CDM/Compass' intent to amend and grass the Phase II Slope Closure north slope and east slope (north of the east ramp), it was recommended by Ardaman at the 8/10/06 construction meeting that the slope below the 1:1 cut should be surveyed to determine if excess material, which would need to be spread on the slope above the 1:1 cut, exists prior to amending and grassing. Edgemon completed the survey for Compass on 8/14/06 - Compass is waiting on mapping.
- CDM/Comanco were requested to provide an as-built of the Phase II Slope Closure stormwater ditch liner inboard anchor trench - the anchor trench was not excavated at the time of the subgrade survey.

6.0 PROJECT SCHEDULE

- No workdays were lost to weather this reporting period.
- The project schedule will updated by CDM on 8/22/06 and distributed by email.
- Regarding permitting status of the Gulfstream II borrow pit, Compass indicated at the 8/10/06 construction meeting that the presently scheduled date of 9/29/06 is uncertain.

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- Regarding resumption of work on the Phase II Slope Closure seepage collection drain, CDM indicated that the presently scheduled date of 8/21/06 is uncertain.
- Weekend work schedule: no work is planned this weekend.

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.)
- 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.

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Quality Control Activities

- Ardaman had 4 technicians on site this reporting period.
- Phase I Slope Closure in-place gypsum/soil density tests - 945 tests passing, none failing, none pending.
- Phase II Slope Closure in-place gypsum/soil density tests - 120 tests passing, 1 failing (108+50 toe road), none pending.
- SCP-S Process Water Sump in-place gypsum/soil density tests - 172 tests passing, none failing, none pending - compaction testing is complete for the SCP-S PWS except anchor trenches - see below.
- 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) - 45 marked, 36 passing, none pending. A summary of DT testing dated 8/16/06, revision 4, was distributed at the meeting.
- Phase II Slope Closure 80-mil stormwater ditch liner seam destructive testing (DT's) - 11 marked, 6 passing, none pending. A summary of DT testing dated 8/16/06, revision 0, was distributed at the meeting.
- Phase II stormwater ditch liner anchor trench density tests - 2 passing, 1 failing, 1 pending.
- SCP-S Process Water Sump liner anchor trench density tests - 1 passing, 2 failing, none pending.

Miscellaneous

- Rainfall: CDM reported 0.66 inches from 8/8/06 through 8/15/06.
- 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 was emailed to CDM. Repair methodology was emailed on 8/10/06, and was distributed at the 8/10/06 construction meeting. The ponded water level was recently lowered to about elevation 39 feet, NGVD, by CDM and liner just above the lowered water level was subsequently inspected by Ardaman. Five additional locations having evidence of damage were identified and marked; patches will be required at three of these locations. A proposal for the repair work was delivered by Comanco to Moretrench at the meeting.
- Compass requested acceptance criteria for sod and grassing at the 8/3/06 construction meeting. Ardaman provided a copy of previously distributed supplemental sod fertilization requirements by email on 8/11/06.

Acceptances

- On 8/16/06, subgrade for liner installation, the SCP-S Process Water Sump dike and unlined pond bottom between stations 113+00 and 111+00, and stations 106+00 to 109+00.

9.0 COMMENTS by PROGRAM MANAGER

- Documentation provided by Moretrench in a report by their consultant (JBM&R) pertaining to their change order claim to CDM related to Phase I closure gypsum quantity adjustments, stormwater conveyance structures and Phase I seepage collection drain were discussed at a meeting on 8/9/06 with FDEP and Ardaman. CDM indicated that they are awaiting feedback from FDEP before submitting an official change order.
- 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, was discussed at the 8/10/06 Program Manager's meeting without resolution.
- CDM is waiting on Compass for a proposal to install additional panel drains, requested by Ardaman at the 7/20/06 construction meeting, in the OGS Slope Pond, OGS-N Cap, OGS west and south ditches, and the NGS-S east ditch.

10.0 COMMENTS by FDEP

FDEP was not represented at the meeting.