

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A	Page 1 of 4
		Meeting Date: <u>4/19/07</u>	
		Report No: <u>109</u>	Report Date: <u>4/25/07</u>
Project Name:	CLOSURE CONSTRUCTION - OGS SLOPES, TOP CAPS & RELIEF DITCH, SCP-S AND PHASE II - NGS SLOPES		Project Address: 300 U.S. Highway 41 North Palmetto, Florida 34221 Manatee County
<u>ATTENDEES:</u> Ardaman: Rob Werner (telecom), John Cameron, Tony Deatherage FDEP: CDM: Dean Carter, Mike Cruz, Jack Partin, Jean Wilson, George Curry Comanco: Compass: Mike Slovensky, Jeremy Giles HRK:			

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
 Comanco: Tom Topp, Paul Moore
 Compass: Tim Morrow, Jeremy Giles, Tom McSweeney
 HRK: Art Roth, Ivan Nance

Next Meeting is Scheduled for Thursday, April 26, 2007
Site Tour at 8:00 am followed by
Construction/Engineering and CDM Operations Meetings at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- No corrections were reported.

2.0 SAFETY

- No safety incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Compass:

- Well Water usage - none since last report.
- Continued work on sprinklers and washout repairs.
- Equipment: 6 dump trucks, 1 water truck, 2 D6 dozers, 1 D8 dozer, 2 excavators, 1 motor grader, 2 club carts - 5 personnel. Some equipment (e.g., dump trucks) is not currently being used.

CDM

- Continued dewatering, grading and compacting the SCP-S west compartment.
- Continued dewatering the SCP-N compartment.
- Continued excavating sludge from the SCP center ditch between compartments.
- Completed demolition of 2 concrete weirs on the western edge of the SCP compartments.
- Started building the west berm of the SCP sludge storage area.
- Repaired erosion damage on the NCP slopes.
- Continued installation of the 8-inch HDPE force main.
- Equipment: 3 dump trucks, 1 loader, 3 D6 dozers, 3 excavators, 1 compactor, 1 water truck, 1 4-inch double diaphragm pump, 3 6-inch service pumps - 12 personnel.
- Materials received: for SCP seepage collection drains - 850.07 tons of Alabama buff gravel, from Conrad Yelvington.

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4.0 PROJECTED WORK FOR NEXT WEEK

Compass:

- Water and repair seeded and sodded areas, work on sprinkler systems, repair washouts.
- Resume sock drain installation at Gulfstream II borrow area; start stripping at northeast corner, pending receipt of all permits.

CDM

- Continue grading and compacting the SCP-S west compartment.
- Continue dewatering the SCP-N compartment.
- Continue excavating sludge from the SCP center ditch between compartments.
- Continue building the west berm of the SCP sludge storage area.
- Start installation of SCP manhole nos. 1 and 2, and the relief drain manhole.
- Start grassing the NCP road and slopes.
- Continue force main installation.

5.0 SURVEY NOTES

- Regarding the CDM/Dredge America/Land and Sea survey, CDM received a post-dredge survey on 3/14/07 by Dredge America/Land and Sea for "top-of-remaining-sludge," and another on 3/20/07 for "hard-bottom." CDM forwarded electronic files by email to FDEP and Ardaman on 3/28/07. Ardaman has received x,y,z data for the points surveyed, since last meeting.
- An as-built survey is in progress by CDM/Edgemon of the force main installation.
- CDM/Edgemon provided survey elevations of power lines (in the plant watershed area) to Ardaman by email on 4/17/07; Ardaman requested to review the data with CDM after the construction meeting.
- CDM/Edgemon were requested last meeting to survey the elevation of the overflow notch at the southeast corner of the SCP-N compartment; the survey is in progress.

6.0 PROJECT SCHEDULE

- 2½ workdays were lost to rain by CDM this reporting period.
- CDM updated the project schedule on 4/18/07, and distributed it at the meeting. Aside from updated progress, CDM indicated that soil cover for the Relief Ditch has been re-scheduled to follow the Phase I ditches, and precede the Phase II ditches. Changes are also in progress to reverse the drain installation in Basin No. 2, starting at the south basin and then proceeding to the north.
- Compass indicated that the operating permit for the Gulfstream II borrow area is now being delayed by the WUP permit; they anticipate receiving all permits next week.
- Weekend work schedule: CDM on Saturday.

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).

- CDM/Comanco were requested to submit panel placement drawings for the SCP Phase II liner.

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.

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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.
- 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. Copies of these figures were attached to the electronic version of the meeting minutes.
- Final drawing sets for the SCP phase 2 closure, dated 11/8/08, including all detail and liner drawings, were issued for construction and distributed at the 11/16/06 meeting (hard copies and CD's). Additional signed large Drawings were distributed at the meeting. Supplemental drawings were distributed at the 3/29/07 meeting to clarify installation of the SCP-S seepage collection drain system between points between point nos. 14 and 23 (end of drain). It was noted at the 4/5/07 meeting that the east end of the drain may be shortened to accommodate installation of a cut-off wall that is being considered in conjunction with design discussions related to the proposed Buckeye Road groundwater collection drain.
- Ardaman provided hard copies and a CD for Phase II Slope Closure drawing revisions on 12/14/06 as follows: C-1, revision 2, and D-2, revision 1, both dated 12/13/06.
- Drawings C-1, C-2, D-1, D-2 and D-3 were distributed at the 4/5/07 meeting for the First 50 percent - Plant Watershed Areas.

Quality Control Activities

- Ardaman had 2 technicians on site this reporting period.
- In-place gypsum/soil density tests
 - Phase II SCP closure - 13 passing, none failing, none pending
- In-place soil fill density tests
 - OGS reservoir slope cover - no change - 59 passing, none failing, none pending
 - Phase I stormwater ditches soil cover - no change - 40 passing, none failing, none pending

Miscellaneous

- Rainfall was reported by CDM at 0.95" from 4/12/07 through 4/17/07.
- CDM and Ardaman continue to monitor the Granddaddy Boil location and at the site of the SCP-N south dike repair.
- It was noted that there is extensive erosion damage on the NGS-N north gypsum slope.
- CDM indicated that sludge excavated from the SCP that is being hauled and dumped in the southeast corner of the NCP is close to overtopping eastern NCP internal partition berm which would then cause disposed sludge accumulate at the NCP overflow weir on the south dike. CDM proposed building up the interior N-S partition dike in the NCP, east

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of the weir, with mixed soil/gypsum material (or abandoning the partition dike and adding weir boards to the overflow structure); Ardaman suggested that CDM raise this issue with FDEP and coordinate with HRK before proceeding. CDM may also explore the feasibility of relocating the NGS-N outfall pipeline from the west edge of the NCP east dike crest to the east edge to enable sludge disposal along the inboard slope of the east dike.

Acceptances

- None since last report.

9.0 COMMENTS by PROGRAM MANAGER

- A proposal for 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 last discussed by conference call on 2/13/07 between FDEP, CDM and Ardaman. [Ardaman forwarded a sketch to CDM showing a potential cross section revision that may be considered to reduce the required gravel quantity via email on 2/23/07.] It has been agreed that the existing access ramps will be left in place until this work is done.
- A conference call was held on 4/10/07 between CDM, Compass and Ardaman to discuss grassing tabulations and boundaries. Tabulations were summarized by Ardaman and reviewed at the 4/12/07 construction meeting, at which Compass was requested to review amended gypsum grassing acres, and to refine each of their estimates to an accuracy of 0.1 acre.

10.0 COMMENTS by FDEP

- FDEP was not represented at the meeting.
- FDEP requested CDM/Compass at the 4/5/07 meeting to provide a detailed cost proposal for closure of the First 50 percent - Plant Watershed Area by 4/13/07. CDM is waiting on a proposal from Compass.

11.0 COMMENTS by HRK

- HRK was not represented at the meeting.