

ARDAMAN & ASSOCIATES, INC. PROGRESS MEETING REPORT FOR PINEY POINT GYPSUM STACK SYSTEM CLOSURE		File No.: 06-110A Meeting Date: <u>1/25/07</u> Report No: <u>97</u>	Page 1 of 5 Report Date: <u>1/31/07</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: Nadim Fuleihan, Rob Werner, John Cameron, Tony Deatherage FDEP: John Coates, Sam Zamani CDM: Dean Carter, Mike Cruz, Jean Wilson, Steve Solters, George Curry, Mick Edgar Comanco: Paul Moore Compass: Jeremy Giles, Tim Morrow Moretrench: Ralph Remmert, Mike Panny, Ronnie Branch HRK: Art Roth, Ivan Nance			

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
 Moretrench: Mike Panny, Ralph Remmert
 HRK: Art Roth, Ivan Nance

Next Meeting is Scheduled for Thursday, February 1, 2007
Construction/Engineering Meeting at 9:00 am

1.0 REVIEW MINUTES OF PREVIOUS MEETING

- No corrections were noted.

2.0 SAFETY

- No safety incidents were reported.

3.0 SUMMARY OF WORK PERFORMED

Comanco:

- Completed Phase II stormwater ditch 80-mil liner detail work.
- Continued Phase II stormwater pond 60-mil liner installation - 283,556 sf total as of 1/24/07.
- Equipment: 1 excavator, 1 loader, 1 track crawler dump, 2 pick-up trucks, 1 Q/C trailer, 5 generators - 11 personnel.

Compass:

- Well Water usage - 175,000 gallons since last report.
- Continued washout repairs on the OGS west slope.
- Watered seeded and sodded areas.
- Continued rough grading soil cover in the Phase I stormwater ditches, including depressions for concrete uniform section mats - no soil fill was hauled since last report.
- Started installing silt fence at Gulfstream II borrow area.
- Equipment: 6 dump trucks, 2 water trucks, 2 D6 dozers, 1 D8 dozer, 2 excavators, 1 motor graders, 3 club carts, 1 ditch witch (mobilized since last report) - 9 personnel. Some equipment (e.g., dump trucks) is not currently being used.

Moretrench

- Continued fine grading the Phase II stormwater pond.
- Repaired damaged 20-inch OGS-S Cap outlet pipe at OGS west ditch.
- Equipment: 1 dozer, 1 compactor, 1 backhoe - 2 personnel.

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CDM

- Continued NGS-N wash-down and sludge removal.
- Continued demucking and dewatering SCP-S west compartment.
- Completed hauling Basin 2 soil for the NGS-N stormwater pond.
- Completed erosion repairs on the NGS-S east slope.
- Completed erosion repairs on the OGS-S toe road, including re-seeding and straw mat installation.
- Started breaking up concrete for use as rip rap.
- Equipment: 2 dump trucks, 2 dozers, 2 excavators, 1 4-inch diaphragm pump, 1 backhoe/loader equipped w/hydraulic hammer (added since last report) - 11 personnel.
- Materials received, all for the SCP seepage collection drains: 230.55 tons of gravel; 6,700' of 6" perforated pipe w/ couplings and end caps.
- Terra Firma installed concrete uniform section mats at Phase I structure nos. 5 and 8.
- Weedbusters completed removing aquatic vegetation from the SCP-N. Dredge America continued dredging the SCP-N compartment. Volume of dredged material was estimated at 492,505 cy as of 1/23/07.
- Inquip started installation of the NCP slurry wall extension. Excavation and backfill began at the northeast corner at about station 30+80, and was completed to stations 20+20 (excavation) and 21+00 (backfill) as of 1/24/07.

4.0 PROJECTED WORK FOR NEXT WEEK

Comanco:

- Continue 80-mil anchor trench work at the Phase II stormwater ditch.
- Continue 60-mil liner installation at the Phase II stormwater pond.

Compass:

- Continue repairing washouts and watering grassed areas.
- Continue grading and compacting soil fill in the Phase I stormwater ditches, up to structure no. 9.
- Re-disk and re-seed east slope at Relief Ditch north end.
- Continue silt fencing at Gulfstream II.

Moretrench

- Start grading gypsum on the NGS northeast slope.

CDM

- Continue demucking and dewatering SCP-S west compartment.
- Continue gypsum sediment removal from the Phase II stormwater ditches.
- Continue NGS-N washdown and sludge removal.
- Continue dredging the SCP-N (Dredge America).
- Start NCP slurry wall extension (Inquip).

5.0 SURVEY NOTES

- Edgemon continued as-built surveys for the Phase II Slope Closure stormwater ditch drain installation and liner subgrade as the work progressed by Comanco. Approval by Ardaman is based on field notes signed by Edgemon's surveyor and provided by Comanco/CDM. A composite drawing of as-built surveys was last updated by Edgemon on 1/17/07 through station 99+80 (end of ditch) - a hard copy was provided by CDM to Ardaman at the 1/18/07 meeting.
- CDM/Edgemon also continued as-built surveys in the same manner for the Phase II stormwater pond and liner subgrade as the work progresses by Comanco. A composite drawing of as-built surveys was last updated by Edgemon on 1/17/07 through station 111+00 - a hard copy was provided by CDM to Ardaman at the 1/18/07 meeting.

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- CDM/Dredge America provided an ACAD file of the SCP-N latest sludge survey to Ardaman via email on 12/18/06; Ardaman indicated via email to CDM on 12/22/06 that a true 3-D CAD file is needed - Ardaman has received the 3D file, and provided CDM with comments and recommendations by email on 1/24/07.

6.0 PROJECT SCHEDULE

- No workdays were lost to rain this reporting period.
- The project schedule was updated and distributed by email on 1/23/07 by CDM, and was distributed at the meeting.
- The schedule was discussed immediately after the meeting, in particular activities related to the SCP south and north compartment closures, and sequencing of soil cover activities. CDM indicated that questions raised and changes requested would be addressed in the next update.
- Regarding status of the Compass Gulfstream II borrow area, Compass indicated that the Manatee County permit is in hand, and they expect the ERP permit from SWFWMD on 1/29/07, followed by the WUP permit a few days later. Compass indicated that they should start hauling from Gulfstream II at reduced rates on 2/12/07, and ramp up to full production in about 3 weeks.
- Weekend work schedule: Dredge America 24 hrs - 7 days/wk, Inquip 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).

- No shop drawings or submittals are awaiting approval at this time.

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.

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- 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. Copies of these figures were attached to the electronic version of the meeting minutes.
- Drawings were distributed by Ardaman at the 10/5/06 meeting to add 4-inch bleeder orifices at structure #7 in the OGS Slope Pond. (CDM will complete this work which was included in the scope of the previously executed change order that involved installation of additional panel drains.)
- Preliminary drawings were distributed at the 10/19/06 meeting for the SCP-S and SCP-N as follows: C-1, C-2, C-3, C-4 and L-1, all revision 0, dated 10/20/06. Electronic versions of Dwg. Nos. C-1 and L-1 were provided via email on 10/20/06. Drawing C-1, revision 1, dated 10/31/06, was distributed at the meeting (hard copies and CD's).
- 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.
- 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.
- Ardaman provided hard copies (Drawing C-1, undated) of a preliminary Grading Plan for closure of two plant areas within the gypsum stack system watershed. HRK was requested to review and comment.

Quality Control Activities

- Ardaman had 8 technicians on site this reporting period.
- In-place gypsum/soil density tests
 - Phase I slope closure - no change - 945 passing, none failing, none pending
 - Phase II slope closure - 327 passing, 4 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 - no change - 6 passing, none failing, none pending
- Liner anchor trench density tests
 - Phase II stormwater ditch 80-mil - no change - 57 passed, none failing, none pending
 - Phase II stormwater pond 60-mil - 8 passed, none failing, none pending.
- Liner seam destructive testing (DT's)
 - Phase II stormwater ditch 80-mil - 49 marked, 49 passing, none failing, none pending. A summary of DT testing was updated on 1/24/07 (revision 9) and was distributed at the 1/4/07 meeting. DT testing is complete for this phase of the work. [Note: a corrected copy of this table is attached to the meeting minutes].
 - Phase II stormwater pond 80-mil - 33 marked, 20 passing, none failing, none pending

Miscellaneous

- Rainfall: 0.35" of rainfall was reported by CDM for the period from 1/8/07 to 1/23/07.
- CDM and Ardaman continue to monitor seepage flow at the Granddaddy Boil location.
- As reported at the 12/7/06 meeting, existing soil cover thickness was measured by Ardaman and found to be deficient at several locations along the perimeter roads around the OGS-N and OGS-S Caps on 12/4/06. It was requested at the 12/14/06 meeting that the soil cover be restored to at least 22"; Compass indicated that this will be done when full-scale hauling from the Gulfstream II borrow area starts.

Acceptances

- On 1/18/07, subgrade for liner installation, Phase II north stormwater pond, from station 118+00 to 111+00.

9.0 COMMENTS by PROGRAM MANAGER

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- 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 discussed at the 8/10/06 Program Manager's meeting. CDM and FDEP also discussed last week. CDM indicated that the gravel work should start about 2 weeks after soil cover work is resumed. See 10.0 Comments by FDEP for more.
- A tabulation for grassing work to date was received by CDM from Compass, and forwarded to FDEP on 10/2/06. CDM provided an update with acreage information to Ardaman by email on 12/13/06. Additional information is necessary, for uncompleted activities as well as those being invoiced, in order to utilize this table to substantiate invoice quantities - Ardaman met with CDM and Compass on 1/1/07 to review preliminary boundary maps and quantities prepared by Ardaman. See 10.0 Comments by FDEP for more.
- A change order request is in progress by CDM for changes to the SCP (including dredging) and the NCP slurry wall. Comanco provided liner quantities to CDM and Ardaman by email on 12/4/06 - Ardaman's last response to Comanco was by email on 12/22/06. CDM is presently reviewing language and finalizing quantities.
- Change Order No. SP644-017 (revised gypsum fill quantity for the NGS-N Relief Ditch and support and liner work related to installation of a temporary piezometer in the OGS-S storm water ditch) has been signed by CDM and sent to FDEP for signature.

10.0 COMMENTS by FDEP

- Regarding grassing invoicing, it was requested that both Ardaman and Compass/CDM submit boundary mapping and estimated quantity tabulations to the Department for comparison with the BAFO.
- Regarding CDM's pending change order request related to the gravel filter erosion protection yet to be placed along the inboard slope of the access road at the toe of the OGS-S slope cover (and for the gravel along the toe of future soil slope cover in the remaining three lined compartments), the Department indicated that a basis for a change order has yet to be established. The Department further indicated that CDM/Compass can either proceed with gravel installation at the entire perimeter of the toe road within their currently approved scope of work, or may postpone the installation pending further discussions or actions towards resolution. It was also stated that the Department is willing to discuss assignment of a value to the incomplete work (i.e., placement of the gravel materials) that can be deducted from the contract soil cover price for the purpose of computing retainage release for associated the in-place soil cover materials. CDM/Compass agreed that the access ramps to the OGS-S soil cover toe road would be left in place if they decide to postpone installation of the gravel materials.

11.0 COMMENTS by HRK

- No comments.

**SUMMARY OF DESTRUCTIVE SEAM TEST RESULTS
PHASE II STORMWATER DITCH (80-MIL)**

Sample No.	Date Sampled	Weld Type	Sheet Surface	Seam ID	Top Peel (lb/in)		Bottom Peel (lb/in)		Shear (lb/in)		FTB Y/N 4 of 5	Pass/Fail
					Avg.	Min.	Avg.	Min.	Avg.	Min.		
Specifications					109	109	160	160	160	160		
1	8/9/06	F	ST/ST	1-2	202	189	203	194	277	272	Y	PASS
2	8/9/06	F	ST/ST	5-6	199	187	192	188	276	269	Y	PASS
3	8/9/06	F	T/T	12-13	195	192	206	200	271	266	Y	PASS
4	8/9/06	F	ST/ST	26-27	194	192	202	197	266	261	Y	PASS
5	8/9/06	F	ST/ST	39-40	190	182	186	184	266	259	Y	PASS
6	8/9/06	F	ST/T	52-53	199	183	194	190	268	262	Y	PASS
7	8/21/06	F	ST/ST	62-63	205	194	186	177	273	263	Y	PASS
8	8/21/06	F	ST/ST	74-75	203	200	209	204	278	271	Y	PASS
9	8/21/06	F	ST/ST	86-87	195	193	204	197	274	267	Y	PASS
10	8/21/06	F	ST/ST	88-89	200	194	198	192	279	273	Y	PASS
11	8/21/06	F	ST/ST	95-96	198	196	200	186	273	267	Y	PASS
12	10/5/06	F	ST/ST	103-104	198	194	212	203	274	267	Y	PASS
13	10/5/06	F	ST/ST	107-108	187	184	202	198	265	261	Y	PASS
14	11/1/06	F	ST/ST	113-114	195	175	220	204	282	273	Y	PASS
15	11/1/06	F	ST/ST	120-121	207	183	190	183	279	271	Y	PASS
16	11/1/06	F	ST/ST	127-128	187	178	199	179	273	264	Y	PASS
17	11/1/06	F	ST/ST	135-136	193	184	192	186	282	273	Y	PASS
18	11/1/06	F	ST/ST	140-141	199	192	204	188	275	266	Y	PASS
19	11/1/06	F	ST/ST	150-151	202	200	190	181	273	266	Y	PASS
20	11/1/06	F	ST/ST	155-156	198	195	199	188	271	266	Y	PASS
21	11/1/06	F	ST/ST	160-161	198	196	213	196	269	262	Y	PASS
22	11/1/06	F	ST/ST	171-172	203	197	190	182	276	267	Y	PASS
23	11/1/06	F	ST/ST	178-179	190	183	183	170	274	268	Y	PASS
24	11/1/06	F	ST/ST	185-186	203	195	184	178	275	269	Y	PASS
25	11/2/06	F	ST/ST	196-197	197	188	183	170	270	264	Y	PASS
26	11/2/06	F	T/ST	201-202	194	173	195	189	269	265	Y	PASS
27	11/9/06	F	T/ST	204-205	190	185	194	190	273	268	Y	PASS
28	11/9/06	F	ST/ST	213-214	197	194	194	188	272	264	Y	PASS
29	11/9/06	F	ST/T	224-225	204	190	200	187	277	266	Y	PASS
30	11/9/06	F	ST/T	227-228	194	185	185	178	269	260	Y	PASS
31	11/14/06	F	T/ST	237-238	181	175	169	164	252	247	Y	PASS
32	11/14/06	F	T/ST	245-246	173	160	168	160	244	235	Y	PASS
33	11/22/06	F	ST/T	257-258	183	180	174	169	235	229	Y	PASS
34	11/30/06	F	T/T	267-268	181	162	170	155	241	236	Y	PASS

PHASE II STORMWATER DITCH (80-MIL)

Sample	Date	Weld	Sheet	Seam	Top Peel (lb/in)		Bottom Peel (lb/in)		Shear (lb/in)		FTB Y/N 4 of 5	Pass/Fail
No.	Sampled	Type	Surface	ID	Avg.	Min.	Avg.	Min.	Avg.	Min.		
Specifications					109	109	160	160	160	160		
35	11/30/06	F	ST/ST	274-275	173	167	183	175	240	234	Y	PASS
36	12/7/06	F	ST/ST	279-280	158	152	166	160	238	235	Y	PASS
37	12/7/06	F	ST/ST	288-289	175	168	167	162	237	232	Y	PASS
38	12/7/06	F	ST/ST	295-296	175	167	175	160	246	240	Y	PASS
39	12/7/06	F	T/T	302-303	190	183	191	183	233	228	Y	PASS
40	12/7/06	F	ST/ST	309-310	173	169	174	166	254	248	Y	PASS
41	12/14/06	F	ST/ST	315-316	193	185	177	156	251	245	Y	PASS
42	12/14/06	F	ST/ST	323-324	179	176	179	168	241	235	Y	PASS
43	12/14/06	F	ST/ST	330-331	184	170	180	173	260	253	Y	PASS
44	12/28/06	F	ST/ST	341-342	187	173	172	169	255	252	Y	PASS
45	12/28/06	F	ST/ST	348-349	181	177	177	166	235	230	Y	PASS
46	12/28/06	F	ST/ST	351-352	181	161	182	177	242	235	Y	PASS
47	1/4/07	F	ST/T	358-359	182	173	180	175	242	237	Y	PASS
48	1/18/07	F	ST/ST	361-362	170	151	169	164	238	237	Y	PASS
49	1/18/07	F	ST/T	372-373	170	166	179	172	241	228	Y	PASS