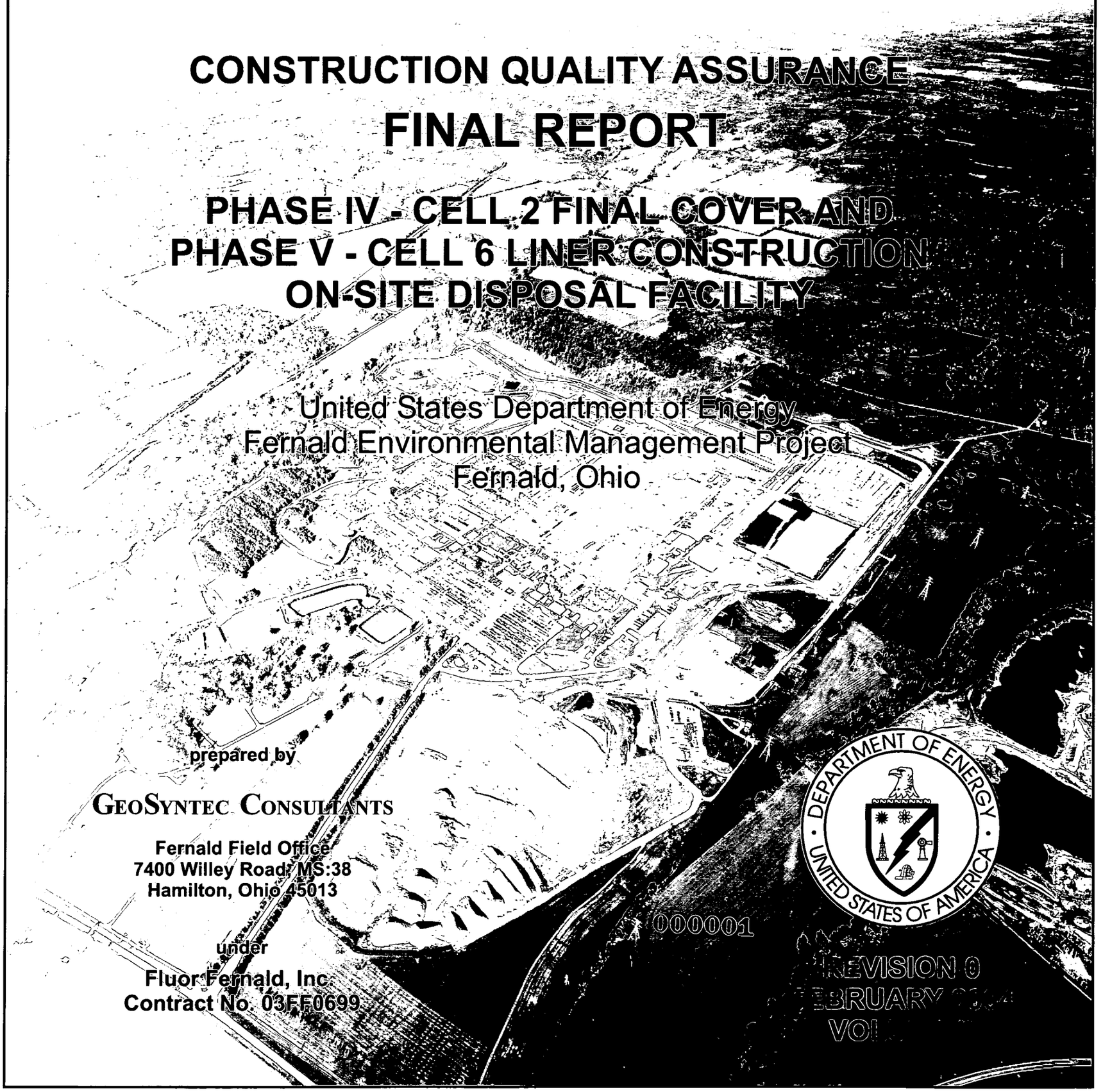
CONSTRUCTION QUALITY ASSURANCE
FINAL REPORT

PHASE IV - CELL 2 FINAL COVER AND PHASE V - CELL 6 LINER CONSTRUCTION ON-SITE DISPOSAL FACILITY

United States Department of Energy
Fernald Environmental Management Project
Fernald, Ohio



prepared by

GeoSyntec Consultants

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under

Fluor Fernald, Inc.
Contract No. 03FF0699

REVISION 0
FEBRUARY 2004
VOL

APPENDIX C

WEEKLY FIELD REPORTS, MINUTES OF MEETINGS, AND CORRESPONDENCE

WEEKLY FIELD REPORTS

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV CONSTRUCTION WEEK ENDING: 26 JANUARY 03

WEEKLY REPORT NO. 283 and 284

The report period covered by Weekly Report No. 283 and 284 is from Monday, 13 January 2003 through Sunday, 26 January 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV project. Weekly reports No. 283 and 284 were combined due to limited work activities during the construction slowdown season. During the period, there were 5 inches of snow recorded.

Construction Progress

Phase IV – Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase IV - Impacted Material Placement

No activities.

Phase IV – Cell 4 and Cell 5 Constructions

Fluor Fernald continued to haul the topsoil stockpile from the footprint of Cell 6 to CSP-018 topsoil stockpile south of the borrow area.

Pipe welding and trench excavation for the Valve House 6 (VH-6) LCS, LCSR, and LDS pipelines continued during the report period. Backfill over the pipe sections were brought up 1 foot over the top of the embedment fill (sand). Backfilling of the trench, including compaction of the lifts and performance testing, will be performed as the weather permits.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

Fluor Fernald continued to receive Type D riprap and No. 78 stone for the Cell 2 final cover system biointrusion barrier and cover drainage layer, respectively, during the period. Based on data provided by Fluor Fernald, approximately 21,800 tons of the Type D riprap and 12,450 tons of the No. 78 stone have been received at the end of the report period.

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ1341 **TASK NO.:** 04
DESCRIPTION: PHASE IV CONSTRUCTION **WEEK ENDING:** 26 JANUARY 03

WEEKLY REPORT NO. 283 and 284

Construction Submittal Review

Phase IV Project

The following submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 10	Cell 4 As-Built Secondary Geomembrane Panel Layout	21 Jan 2003	C w/Comments
02100-005, Rev. 11	Cell 5 As-Built Secondary Geomembrane Panel Layout	21 Jan 2003	C w/Comments
02100-005, Rev. 12	Cell 4 As-Built Primary Geomembrane Panel Layout	23 Jan 2003	C w/Comments
02100-005, Rev. 13	Cell 5 As-Built Primary Geomembrane Panel Layout	23 Jan 2003	C w/Comments

Phase V Project

The following geosynthetics submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
9269-001, Rev. 0	Submittal Register	17 Jan 2003	No Comments
02714P-001, Rev. 0	Product Name	22 Jan 2003	A
02714P-002, Rev. 0	Manufacturing Capabilities	22 Jan 2003	No Comments
02714P-003, Rev. 0	Certification of MARVs	22 Jan 2003	A
02714P-004, Rev. 0	Projected Delivery Dates	22 Jan 2003	No Comments
02714P-005, Rev. 0	Recommended Storage Requirements and Limitations	23 Jan 2003	No Comments
02714P-007, Rev. 0	Material Safety Data Sheets	23 Jan 2003	No Comments
9270-001, Rev. 0	Submittal Register	22 Jan 2003	No Comments
02772P-001, Rev. 0	GCL Product Name	17 Jan 2003	A
02772P-002, Rev. 0	Daily Production Capacity	17 Jan 2003	No Comments
02772P-003, Rev. 0	MQC Procedures	17 Jan 2003	No Comments

OPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV CONSTRUCTION WEEK ENDING: 26 JANUARY 03

WEEKLY REPORT NO. 283 and 284

Construction Submittal Review (Cont'd)

Phase V Project (Cont'd)

The following geosynthetics submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02772P-004, Rev. 0	Requirements for Geotextile Comp	17 Jan 2003	C w/Comments
02772P-005, Rev. 0	Certification of Geotextile Comp	17 Jan 2003	No Comments
02772P-006, Rev. 0	Certification of MARVs	17 Jan 2003	C w/Comments
02772P-007, Rev. 0	Recommended Installation Reqs.	17 Jan 2003	No Comments
02772P-008, Rev. 0	Recommended Storage Requirements and Limitations	17 Jan 2003	No Comments
02772P-009, Rev. 0	Projected Delivery Dates	17 Jan 2003	No Comments
02772P-010, Rev. 0	Completed Forms GCL-1	17 Jan 2003	A
02772P-011, Rev. 0	Material Safety Data Sheets (GCL)	17 Jan 2003	No Comments

Design Clarifications and Modifications

GeoSyntec completed response to RCI No. 20104-005R, initiated by Fluor Fernald, for placement of transite panels in the OSDF cells during the winter timeframe. The Ohio EPA conditionally approved this RCI on 10 January 2003. The conditional approval restricted the transite panels from being placed on frozen soil. Further evaluation of placement of the transites on frozen soil is ongoing.

GeoSyntec attended 14 and 22 January 2003 meetings coordinated by Fluor Fernald on crushing of concrete from the bulk D&D debris piles for potential use as Category 1 soil material during impacted material placement in the OSDF. Representatives from MCM Management Corp. of West Bloomfield, Michigan made technical presentations at both meetings.

GeoSyntec provided Fluor Fernald, via E-mail, with suggestions and requirements for use(s) of the crushed concrete as Category 1 soil material during impacted material placement.

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV CONSTRUCTION WEEK ENDING: 26 JANUARY 03

WEEKLY REPORT NO. 283 and 284

Construction Quality Control (CQC)

Borrow Area Excavation, Clay Screening and Restoration Activities

No Activities.

Phase IV Impacted Materials Placement

CQC assisted Fluor Fernald Quality Assurance in a surveillance of Cell 2 and Cell 3 impacted material placement lift tracking and nuclear density testing.

Phase IV – Cell 4 and Cell 5 Construction

CQC periodically monitored the pipe welding and installation of the Cell 6 horizontal monitoring well and LDS pipes.

Preparation of the Cell 4 and Cell 5 final report appendices began during the report period and is ongoing.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

CQC collected and tested Type D riprap and No. 78 stone samples to confirm compliance with the Phase V specifications and CQA Plan.

A GeoSyntec on-site technician traveled to the GCL manufacturing plant in Wyoming to collect conformance samples of the GCL being manufactured for the Phase V project.

Phase IV – Cell 4 and Cell 5 Construction

CQC periodically monitored the excavation of Sedimentation Basin #2 including assisting in the visual classification and description of the excavated soils. CQC also periodically monitored the pipe welding and installation of the Cell 6 horizontal monitoring well and LDS pipes.

Health and Safety

GeoSyntec continues to hold weekly health and safety meetings for its on-site employees. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds its own daily safety tailgate meetings. The GeoSyntec weekly safety meeting held on 13 January 2003 covered carelessness and the GeoSyntec weekly safety meeting held on 24 January 2003 covered cold stress and exposure.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP-DOE (MS45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ1341 TASK NO.:04
DESCRIPTION:PHASE IV CONSTRUCTION WEEK ENDING: 26 JANUARY 03

WEEKLY REPORT NO. 283 and 284

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. B. York (part-time)
4. C. Walker (part-time),
5. D. Evans (part-time), and
6. S. Abney (part-time)

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP-DOE (MS45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 02 FEBRUARY 03

WEEKLY REPORT NO. 285

The report period covered by Weekly Report No. 285 is from Monday, 27 January 2003 through Sunday, 02 February 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV project. During the period, there was approximately 3 inches of snow recorded.

Construction Progress

Phase IV - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase IV - Impacted Material Placement

No activities.

Phase IV – Cell 4 and Cell 5 Constructions

Fluor Fernald Construction continued to haul the topsoil stockpile from the footprint of Cell 7 to CSP-018 topsoil stockpile south of the borrow area. Construction also began to strip topsoil from the Cell 6 footprint to the CSP-018 stockpile.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

Fluor Fernald continued to receive Type D riprap and No. 78 stone for the Cell 2 final cover system biointrusion barrier and cover drainage layer, respectively, during the period. Based on data provided by Fluor Fernald, approximately 26,000 tons of the Type D riprap and 19,780 tons of the No. 78 stone have been received at the end of the report period.

Construction Submittal Review

Phase IV Project

None

WEEKLY REPORT NO. 285

Construction Submittal Review (Cont'd)

Phase V Project

The following geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	RE Item Description	Recommended Disposition	Status
9268-001, Rev. 0	Submittal Register	29 Jan 2003	No Comments
02770P-001, Rev. 0	Manufacturing Capabilities	29 Jan 2003	C w/Comments
02770P-002, Rev. 0	List of 10 Completed Facilities	29 Jan 2003	No Comments
02770P-003, Rev. 0	Origin and Identification of Resin	29 Jan 2003	A
02770P-005, Rev. 0	Certification of MARVs	30 Jan 2003	C w/Comments
02770P-006, Rev. 0	Recommended Storage Requirements and Limitations	30 Jan 2003	No Comments
02770P-007, Rev. 0	Recommended Install. Procedures	30 Jan 2003	No Comments
02770P-008, Rev. 0	Geomembrane Warranty	30 Jan 2003	No Comments
02770P-009, Rev. 0	Completed Forms GML-80S, GML-80T, GML-30S	30 Jan 2003	w/Comments
02770P-010, Rev. 0	GML MSDS	30 Jan 2003	No Comments

Design Clarifications and Modifications

GeoSyntec participated in a 27 January 2003 teleconference call with Fluor Fernald, GCL Manufacturer, and Geosynthetic Testing Laboratories to discuss internal and interface shear strength testing procedures and protocols for the GCL to be manufactured for the Phase V construction project.

GeoSyntec attended a 27 January 2003 meeting with Fluor Fernald Engineering and Quality Assurance to review the GCL and Geotextile submittals for the Phase V construction project.

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 02 FEBRUARY 03

WEEKLY REPORT NO. 285

Construction Quality Control

Borrow Area Excavation, Clay Screening and Restoration Activities

No Activities.

Phase IV Impacted Materials Placement

No Activities.

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 final report appendices continued during the report period and is ongoing.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

CQC periodically monitored the stripping and grubbing of topsoil from the Cell 6 footprint.

CQC collected and tested Type D riprap and No. 78 stone samples to confirm compliance with the Phase V specifications and CQA Plan.

A CQC technician traveled to the GCL manufacturing plant in Wyoming to collect conformance samples of the GCL being manufactured for the Phase V construction project.

Health and Safety

GeoSyntec continues to hold weekly health and safety meetings for its on-site employees. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds its own daily safety tailgate meetings. The GeoSyntec weekly safety meeting held on 27 January 2003 covered trenching and the increased chances of sloughing due to melting snow and frost heaving.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. B. York (part time),
4. D. Evans , and
5. S. Abney

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 16 FEBRUARY 03

WEEKLY REPORT NO. 286 and 287

The report period covered by Weekly Report No. 286 and 287 is from Monday, 03 February 2003 through Sunday, 16 February 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV project. Weekly Reports 286 and 287 were combined due to light construction activities. During the period, there were approximately 4.5 inches of snow and .025 inches of rain recorded.

Construction Progress

Phase IV - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase IV - Impacted Material Placement

No activities.

Phase IV – Cell 4 and Cell 5 Constructions

Fluor Fernald Construction continued to haul the topsoil stockpile from the footprint of Cell 7 to CSP-018 topsoil stockpile south of the borrow area. Construction also began to strip topsoil from the Cell 6 footprint to the CSP-018 stockpile. Also, construction of the east drainage ditch continued during the period.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

Fluor Fernald continued to receive Type D riprap and No. 78 stone for the Cell 2 final cover system biointrusion barrier and cover drainage layer, respectively, during the period. Based on data provided by Fluor Fernald, approximately 26,000 tons of the Type D riprap and 19,780 tons of the No. 78 stone have been received at the end of the report period.

Embedment sand and compacted fill were placed over the LCS, LCSR, and LDS pipes for Valve House 6 (VH-6). The VH-6 pipes were also air pressure tested and passed on 10 February 2003.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 16 FEBRUARY 03

WEEKLY REPORT NO. 286 and 287

Construction Submittal Review

Phase IV Project

None

Phase V Project

None

Design Clarifications and Modifications

GeoSyntec received RCI No. 20104-006R, initiated by Fluor Construction, for use of a sheepsfoot compactor to scarify the lift of compacted clay liner or cap prior to spreading the next lift. Response to this RCI will be prepared after a technical meeting with Fluor Engineering to discuss this request.

GeoSyntec participated in a 13 February 2003 teleconference call with Fluor Fernald and GeoSyntec Atlanta office on Ohio EPA's comments on the Phase V Construction Documents.

GeoSyntec initiated preparation of the Phase IV – Cells 4 and 5 liner construction CQA final report during the report. A draft copy of the report will be submitted to Fluor Fernald for review and comment by the first week of March 2003.

Construction Quality Control (CQC)

Borrow Area Excavation, Clay Screening and Restoration Activities

No Activities.

Phase IV Impacted Materials Placement

No Activities.

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PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 16 FEBRUARY 03

WEEKLY REPORT NO. 286 and 287

Construction Quality Control (Cont'd)

Phase IV – Cell 4 and Cell 5 Construction

CQC monitored the placement of embedment sand and compacted fill over the VH-6 LTS pipes. CQC also monitored air pressure test of VH-6 LTS pipes. CQC also viewed the closed-circuit television (CCT) video tapes of the LCS, RLCS, and LDS pipes from VH-4 and VH-5 to Cell 4 and Cell 5, respectively.

Scales and equipment calibrations began during the report period and are ongoing.

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

CQC periodically monitored the stripping and grubbing of topsoil from the Cell 6 footprint.

CQC collected and tested Type D riprap and No. 78 stone samples to confirm compliance with the Phase V specifications and CQA Plan.

Health and Safety

GeoSyntec continues to hold weekly health and safety meetings for its on-site employees. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds its own daily safety tailgate meetings. The GeoSyntec weekly safety meeting held on 3 February 2003 covered first aid and the GeoSyntec weekly safety meeting held on 10 February 2003 covered excavation safety.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah (part-time),
2. C. Sukow (part-time),
3. B. York,
4. D. Evans (part-time), and
5. S. Abney

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 02 MARCH 03

WEEKLY REPORT NO. 288 and 289

The report period covered by Weekly Report No. 288 and 289 is from Monday, 17 February 2003 through Sunday, 02 MARCH 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV project. Weekly Reports 288 and 289 were combined due to light construction activities. During the period, there were approximately 6 inches of snow and 0.5 inches of rain recorded.

Construction Progress

Phase IV - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase IV - Impacted Material Placement

No activities.

Phase IV – Cell 4 and Cell 5 Constructions

Fluor Fernald Construction continued to haul the topsoil stockpile from the footprint of Cell 7 to CSP-018 topsoil stockpile north of the borrow area. Construction also continued to strip topsoil from the Cell 6 footprint to the CSP-018 stockpile. Construction of the east drainage ditch continued during the period.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

Fluor Fernald continued to receive Type D riprap and No. 78 stone for the Cell 2 final cover system biointrusion barrier and cover drainage layer, respectively, during the period. Based on data provided by Fluor Fernald, approximately 41,920 tons of the Type D riprap and 24,175 tons of the No. 78 stone have been received at the end of the report period.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 02 MARCH 03

WEEKLY REPORT NO. 288 and 289

Construction Submittal Review

Phase IV Project

None

Phase V Project

The following geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
PHIV2-001, Rev. 0	Submittal Register	18 Feb 2003	No Comments
PHV-001, Rev. 0	Submittal Register	18 Feb 2003	No Comments
02714P-007, Rev. 1	Material Safety Data Sheets	18 Feb 2003	No Comments

Design Clarifications and Modifications

GeoSyntec received RCI No. 20104-006R, initiated by Fluor Construction, for use of a sheepsfoot compactor to scarify the lift of compacted clay liner or cap prior to spreading the next lift. During a 21 February 2003 meeting with Fluor Fernald Engineering and the Construction Manager, it was agreed by all parties to hold-off response to this RCI. Fluor will continue with the current Specifications, which is consistent with the Test Pad Program.

GeoSyntec continued with preparation of the Phase IV – Cells 4 and 5 liner construction CQA final report during the report.

Construction Quality Control (CQC)

Phase IV Impacted Materials Placement

CQC responded to Flour Quality Assurance NCR 505 covering nuclear density test results for the Cell 2 select impacted material layer.

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 02 MARCH 03

WEEKLY REPORT NO. 288 and 289

Construction Quality Control (CQC) (Cont'd)

Phase IV Impacted Materials Placement

CQC responded to Flour Quality Assurance NCR 505 covering nuclear density test results for the Cell 2 select impacted material layer.

Phase IV – Cell 4 and Cell 5 Construction

Scales and equipment calibrations continued and were completed during the report period and are ongoing.

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

CQC periodically monitored the stripping and grubbing of topsoil from the Cell 6 footprint. Two samples of the topsoil were collected and tested for compatibility for vegetative cover soil.

CQC collected and tested Type D riprap and No. 78 stone samples to confirm compliance with the Phase V specifications and CQA Plan.

Health and Safety

GeoSyntec continues to hold weekly health and safety meetings for its on-site employees. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds its own daily safety tailgate meetings. The GeoSyntec weekly safety meeting held on 18 February 2003 covered hand tool safety and the GeoSyntec weekly safety meeting held on 25 February 2003 covered lock and tag procedures due to a Flour Safety observation of missing heater covers in T-125.

GeoSyntec attended a 21 February 2003 meeting with representatives from Fluor Fernald Safety & Health, Engineering, and Construction to discuss a site safety concern regarding heater covers in GeoSyntec's "hot" laboratory trailer T-125. GeoSyntec's Site Health & Safety Representative conducted and investigation and reported the findings to Fluor Fernald and GeoSyntec management.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 02 MARCH 03

WEEKLY REPORT NO. 288 and 289

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow ,
3. B. York,
4. D. Evans (part-time),
5. C. Walker (part-time), and
6. S. Abney

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 16 MARCH 03

WEEKLY REPORT NO. 290 and 291

The report period covered by Weekly Reports No. 290 and 291 is from Monday, 03 March 2003 through Sunday, 16 March 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV project. Weekly Reports 290 and 291 were combined due to light construction activities. During the period, there were approximately 2.6 inches of rain recorded.

Construction Progress

Phase IV - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase IV - Impacted Material Placement

No activities.

Phase IV – Cell 4 and Cell 5 Constructions

No activities.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

Fluor Fernald Construction continued to strip topsoil from the Cell 6 footprint to the CSP-018 stockpile. Construction of the east drainage ditch continued during the period. 21 shallow test pits were excavated in Cell 6 footprint to determine the depth of remaining topsoil and delineate any perched water and unsuitable subgrade conditions. No. 304 stone was placed in The parking lot of T-139 was maintained by placing and compacting No. 304 stone to help mitigate rain water run-off.

Fluor Fernald Construction continued to receive Type D riprap and No. 78 stone for the Cell 2 final cover system biointrusion barrier and cover drainage layer, respectively, during the period. Based on data provided by Fluor Fernald, approximately 36,739 tons of the Type D riprap and 31,018 tons of the No. 78 stone have been received at the end of the report period.

'EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 16 MARCH 03

WEEKLY REPORT NO. 290 and 291

Construction Submittal Review

Phase V Project

The following contractor submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 15	Cell 4 As-Built Subgrade	10 Mar 2003	C w/Comments
02100-005, Rev. 16	Cell 5 As-Built Subgrade	10 Mar 2003	C w/Comments
02100-005, Rev. 17	Cell 5 As-Built Secondary GML Panel Layout & Repairs	3 Mar 2003	C w/Comments
02100-005, Rev. 18	Cell 4 As-Built Secondary GML Panel Layout & Repairs	3 Mar 2003	C w/Comments

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02721-002, Rev. 0	Manufacturer's Certification	03 Mar 2003	No Comments
02714P-006, Rev. 0	Completed Forms GT-7, GT-8, GT-10, GT-16	03 Mar 2003	A
02770P-005, Rev. 1	Certification of GML MARVs	03 Mar 2003	A
02772P-006, Rev. 1	Certification of GCL MARVs	03 Mar 2003	A
02772P-015, Rev. 0	Manufacturing Certs for GCL	10 Mar 2003	No Comments

'Y TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER: C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ1341 TASK NO.:04
DESCRIPTION:PHASE III & IV CONSTRUCTION WEEK ENDING: 16 MARCH 03

WEEKLY REPORT NO. 290 and 291

Design Clarifications and Modifications

GeoSyntec continued with preparation of the Phase IV – Cells 4 and 5 liner construction CQA final report during the report.

Construction Quality Control (CQC)

Borrow Area Excavation, Clay Screening and Restoration Activities

No Activities.

Phase IV Impacted Materials Placement

No activities.

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

CQC periodically monitored the stripping and grubbing of topsoil from the Cell 6 footprint. CQC also monitored and logged the 21 test pits excavated in Cell 6 footprint. Five composite samples were collected for laboratory for use as compacted fill during Phase construction. Testing is ongoing.

CQC collected and tested Type D riprap and No. 78 stone samples to confirm compliance with the Phase V specifications and CQA Plan.

Flour Fernald delivered one submittal sample to be tested for granular filter material. The sample passed project specifications.

'Y TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 16 MARCH 03

WEEKLY REPORT NO. 290 and 291

Health and Safety

GeoSyntec continues to hold weekly health and safety meetings for its on-site employees. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds its own daily safety tailgate meetings. The GeoSyntec weekly safety meeting held on 3 March 2003 covered 7 common safety risks and the GeoSyntec weekly safety meeting held on 10 March 2003 covered the 10 commandments of safety. GeoSyntec representatives also attended the Fluor Fernald's Contractor safety breakfast meeting held on 3 March 2003.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow ,
3. B. York,
4. D. Evans (part-time),
5. C. Walker (part-time), and
6. S. Abney

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 30 MARCH 03

WEEKLY REPORT NO. 292 and 293

The report period covered by Weekly Reports No. 292 and 293 is from Monday, 17 March 2003 through Sunday, 30 March 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV project. Weekly Reports 292 and 293 were combined due to light construction activities. During the period, there were approximately 1.5 inches of rain recorded.

Construction Progress

Phase IV - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase IV - Impacted Material Placement

Fluor Fernald began to repair the erosion damage to the top of select impacted material layer below the final cover system in Cell 2. Additional material was hauled and placed in Cell 2 to bring the select impacted material layer within grades and design tolerances.

Phase IV – Cell 4 and Cell 5 Constructions

No activities.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

Fluor Fernald Construction continued to remove topsoil from the Cell 6 footprint and haul to the CSP-018 stockpile. Fill material also excavated from the Cell 6 footprint above subgrade elevations was placed and compacted on the east bench of Cell 6 perimeter berm. The protective layer soil used to construct the Cell 1 final cover temporary termination was also removed and used as compacted fill on the east bench of the Cell 6 perimeter berm.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 30 MARCH 03

WEEKLY REPORT NO. 292 and 293

Construction Submittal Review

Phase V Project

The following contractor submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 18	Cell 6 As-Built Horizontal Mon. Well, LCS, LDS & RLCS Stub-outs	17 Mar 2003	No Comments
02100-005, Rev. 19	Cell 4 As-Built Primary GML Panel Layout & Repairs	21 Mar 2003	C w/Comments
02100-005, Rev. 20	Cell 5 As-Built Primary GML Panel Layout & Repairs	21 Mar 2003	C w/Comments
02100-005, Rev. 21	Cell 4 As-Built Subgrade	21 Mar 2003	No Comments
02100-005, Rev. 22	Cell 5 As-Built Subgrade	21 mar 2003	No Comments
02100-005, Rev. 23	Cell 6 As-Built Horizontal Mon. Well, LCS, LDS & RLCS Stub-outs	21 Mar 2003	No Comments

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
9268-001, Rev. 1	Submittal Register	21 Mar 2003	No Comments
9269-001, Rev. 1	Submittal Register	21 Mar 2003	No Comments
9270-001, Rev. 1	Submittal Register	21 Mar 2003	No Comments
02215-001, Rev. 0	Certification and test results	19 Mar 2003	A
02215-002, Rev. 0	50-lb sample of granular fill material	19 Mar 2003	A
02712-001, Rev. 0	Source of granular filter material	19 Mar 2003	A
02712-002, Rev. 0	50-lb sample of granular filter mtl.	19 Mar 2003	A
02712-003, Rev. 0	Suppliers certification	19 Mar 2003	A
02770P-011, Rev. 0	QC Certificates for Resin	20 Mar 2003	A

PY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 30 MARCH 03

WEEKLY REPORT NO. 292 and 293

Phase V Project (Cont'd)

The following construction materials and geosynthetics procurement submittals were reviewed during the report period (cont'd):

Submittal No.	Item Description	RE Disposition	Recommended Status
02770P-012, Rev. 0	Test Reports of Resin	20 Mar 2003	A
02770P-013, Rev. 0	Certification of Resin	13 Mar 2003	A
02770P-014, Rev. 0	MQC Test Results of GML Rolls	20 Mar 2003	B w/Comments
02770P-014, Rev. 1	MQC Test Results of GML Rolls	27 Mar 2003	A /Comments
02772P-013, Rev. 0	MQC Test Results of GCL Rolls	20 Mar 2003	A

Design Clarifications and Modifications

GeoSyntec continued with preparation of the Phase IV – Cells 4 and 5 liner construction CQA final report during the report.

Construction Quality Control (CQC)

Borrow Area Excavation, Clay Screening and Restoration Activities

No Activities.

Phase IV Impacted Materials Placement

CQC re-tested failing density test locations to disposition Fluor Fernald's NCR No.505 on 24 and 25 March 2003. There were 4 tests that were still failing due to wet surface conditions on the east slope. These areas will be re-tested after drying takes place.

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ1341 TASK NO.:04
DESCRIPTION:PHASE III & IV CONSTRUCTION WEEK ENDING: 30 MARCH 03

WEEKLY REPORT NO. 292 and 293

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

CQC monitored the removal of topsoil and compacted fill from the Cell 6 footprint. Density tests were performed on the Cell 6 east bench as per project specifications.

Fluor Fernald delivered one submittal (50-lb representative) sample to be tested for the biointrusion choke stone material. The sample passed project specifications.

Health and Safety

GeoSyntec continues to hold weekly health and safety meetings for its on-site employees. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds its own daily safety tailgate meetings. The GeoSyntec weekly safety meeting held on 17 March 2003 covered trenching safety and the GeoSyntec weekly safety meeting held on 24 March 2003 covered hearing protection.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah (part-time),
2. C. Sukow ,
3. B. York,
4. D. Evans,
5. C. Walker, and
6. S. Abney

)PY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

EEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ1341 TASK NO.:04
DESCRIPTION:PHASE III & IV CONSTRUCTION WEEK ENDING: 06 APRIL 03

WEEKLY REPORT NO. 294

The report period covered by Weekly Reports No. 294 is from Monday, 31 March 2003 through Sunday, 06 April 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV project. During the period, there were approximately 0.6 inches of rain recorded.

Construction Progress

Phase IV - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase IV - Impacted Material Placement

Fluor Fernald continued to repair the erosion damage to the top of select impacted material layer in Cell 2. Additional material was hauled and placed to bring the select impacted material layer within grades and design tolerances.

Fluor Fernald placed a clay plug over the Great Miami Aquifer (GMA) for the Plant 9 foundation excavation.

Phase IV – Cell 4 and Cell 5 Constructions

No activities.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

Fluor Fernald Construction continued to remove topsoil from the Cell 6 footprint and haul to the CSP-018 stockpile. Compacted fill material also excavated from the Cell 6 footprint was used to backfill OSDF Sedimentation Basin #1 and to construct the west bench of Cell 6 perimeter berm.

Construction Submittal Review

Phase IV Project

There were no contractor submittals reviewed during the report period.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ1341 TASK NO.:04
DESCRIPTION:PHASE III & IV CONSTRUCTION WEEK ENDING: 06 APRIL 03

WEEKLY REPORT NO. 294

Construction Submittal Review (Cont'd)

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02280-001, Rev. 1	Supplier's Certification	01 Apr 2003	A
02280-002, Rev. 1	50-lb representative sample of choke stone material	01 Apr 2003	No Comment

Design Clarifications and Modifications

DCN No. 20104-011 was initiated and approved by GeoSyntec. This DCN incorporated lessons learned during the Phase III – Cell 1 final cover construction project into the Phase IV – Cell 2 final cover construction documents. Phase IV CFC Drawing No. 90X-6000-G-00358 was primarily affected.

GeoSyntec continued with preparation of the Phase IV – Cells 4 and 5 liner construction CQA final report during the report period.

Construction Quality Control (CQC)

Borrow Area Excavation, Clay Screening and Restoration Activities

No Activities.

Phase IV Impacted Materials Placement

CQC re-tested failing density test locations to close NCR No.505 on 24 and 25 March 2003. There were 4 tests that were still failing due to wet surface conditions on the east slope. These 4 areas have been re-tested and passed project specifications.

CQC also monitored and tested the GMA clay plug construction for the Plant 9 foundation excavation.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 06 APRIL 03

WEEKLY REPORT NO. 294

Construction Quality Control (CQC) (Cont'd)

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

Soil samples were collected from the protective layer on the Cell 5/Cell 6 intercell berm for geotechnical laboratory testing and classification.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

CQC monitored the removal of topsoil and compacted fill from the Cell 6 footprint. Density tests were performed during backfilling of the OSDF Sedimentation Basin #1 and on the compacted fill of the Cell 6 vest bench as per project specifications.

Health and Safety

GeoSyntec continues to hold weekly health and safety meetings for its on-site employees. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds its own daily safety tailgate meetings. The GeoSyntec weekly safety meeting held on 31 March 2003 covered protective clothing.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. B. York (part-time),
4. D. Evans,
5. C. Walker, and
6. S. Abney

'Y TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 13 APRIL 03

WEEKLY REPORT NO. 295

The report period covered by Weekly Reports No. 295 is from Monday, 07 April 2003 through Sunday, 13 April 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV and Phase V projects. During the period, there were approximately 1.2 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening, and Restoration Activities

No activities.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) removed the northern radiation safety fence between Cell 1 and Cell 2. Placement of Category 3 transite panels in Cell 4 began on 4 April 2003. The bundles of packaged transite panels were placed side by side and end to end in accordance with the alternate placement procedure in the IMP Plan; however, the space between the groups of bundles are yet to be filled with the Category 1 soil material.

Phase IV – Cell 2 Final Cover Constrruction

FFC removed the temporary access road between Cell 1 and Cell 2. The excess material was spread over the select impacted material layer in Cell 2 for the first lift of non-impacted contouring layer.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

FFC continued to remove topsoil from the Cell 6 footprint and haul to the CSP-018 stockpile. Compacted fill material also excavated from the Cell 6 footprint, above subgrade elevations, was placed and compacted in the Sedimentation Basin No. 1 and on the west bench of the Cell 6 perimeter berm. Drainage structures from the Sedimentation Basin No. 1 were removed and the remaining portions of the basin were mucked out.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 13 APRIL 03

WEEKLY REPORT NO. 295

Construction Submittal Review

Phase IV Project

There were no contractor submittals reviewed during the report period.

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02714P-009, Rev. 0	Quality Control Certificates	09 Apr 2003	A
13005-001, Rev. 0	Name and Qualifications of Fabricator of liner penetration boxes (LPBs)	09 Apr 2003	No Comment
13005-002, Rev. 0	Proposed fabrication dates for LPBs	09 Apr 2003	No Comment
13005-003, Rev. 0	Qualification procedure for Fabricator's welder(s)	09 Apr 2003	No Comments
13005-004, Rev. 0	Extrusion welding procedure for HDPE pipe, flat stock, and GML	09 Apr 2003	No Comment
13005-005, Rev. 0	Simultaneous butt fusion procedures	09 Apr 2003	No Comment
13005-006, Rev. 0	Name of Manufacturer of HDPE flat stock used to fabricate LPBs	09 Apr 2003	A
13005-007, Rev. 0	Certification that HDPE flat stock meets material reqs. per Section 13005	09 Apr 2003	A
13005-008, Rev. 0	Certification that no reclaimed polymer was added to resin	09 Apr 2003	A
13005-010, Rev. 0	Detailed shop drawings	09 Apr 2003	w/ Comment
13005-011, Rev. 0	Detailed design for fabrication and installation of lifting hooks	09 Apr 2003	w/Comments
13005-012, Rev. 0	Detailed handling and storing insts.	09 Apr 2003	No Comment
13005-013, Rev. 0	Fabricator's QA Procedures	09 Apr 2003	No Comment
13005-014, Rev. 0	MSDS for HDPE products	09 Apr 2003	No Comments
13005-016, Rev. 0	Detailed install. procedures for LPBs	09 Apr 2003	C w/Comments

PY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 13 APRIL 03

WEEKLY REPORT NO. 295

Design Clarifications and Modifications

DCN No. 20104-011 was initiated and approved by GeoSyntec. This DCN incorporated lessons learned during the Phase III – Cell 1 final cover construction project into the Phase IV – Cell 2 final cover construction documents. Phase IV CFC Drawing No. 90X-6000-G-00358 was primarily affected. This DCN is currently awaiting approval from the Regulatory Agency.

GeoSyntec continued with preparation of the Phase IV – Cells 4 and 5 liner construction CQA final report during the report.

Construction Quality Control (CQC)

Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase IV Impacted Materials Placement

CQC monitored the placement of Category 3 transite panels in Cell 4.

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

Phase IV – Cell 2 Final Cover Construction

CQC monitored the initial placement of non-impacted contouring layer in Cell 2.

Phase V – Cell 6 Liner and Cell 2 Cap Constructions

CQC monitored the removal of topsoil and compacted fill from the Cell 6 footprint. Density tests were performed in Sedimentation Basin No. 1 and on the Cell 6 west bench as per project specifications.

'Y TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER: C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 13 APRIL 03

WEEKLY REPORT NO. 295

Health and Safety

GeoSyntec continues to hold weekly health and safety meetings for its on-site employees. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds its own daily safety tailgate meetings. The GeoSyntec weekly safety meeting held on 7 April 2003 covered safety regrets from lazy practices.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. B. York,
4. D. Evans,
5. C. Walker,
6. K. Sparks, and
7. S. Abney

PY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 20 APRIL 03

WEEKLY REPORT NO. 296

The report period covered by Weekly Reports No. 296 is from Monday, 14 April 2003 through Sunday, 20 April 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV and Phase V projects. During the period, there were approximately 0.1 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening, and Restoration Activities

No activities.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place Category 3 transite panels in Cell 4 during the report period. The bundles of packaged transite panels were placed side by side and end to end in accordance with the alternate placement procedure in the IMP Plan; however, the space between the groups of bundles are yet to be filled with the Category 1 soil material. Select impacted material was also hauled and placed in Cell 5.

Phase IV – Cell 2 Final Cover Construction

FFC continued to place the first lift of non-impacted contouring layer. Oversized rocks from the contouring layer material were removed when encountered.

Phase V – Cell 6 Liner Construction

FFC continued to remove topsoil from the Cell 7 footprint and haul to the CSP-018 stockpile. Compacted fill material also excavated from the Cell 7 footprint, above subgrade elevations, was placed and compacted on the west perimeter berm and floor of Cell 6.

FCC began receiving shipments of geosynthetic clay liner (GCL) and geotextile for the Cell 6 liner and Cell 2 final constructions on 17 April 2003.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 20 APRIL 03

WEEKLY REPORT NO. 296

Construction Submittal Review

Phase IV Project

There were no contractor submittals reviewed during the report period.

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-003, Rev. 0	Field survey notes 3/24 to 3/31/03	14 Apr 2003	No Comments

Design Clarifications and Modifications

GeoSyntec worked with the Atlanta office and Fluor Engineering in preparing responses to regulatory agencies (USEPA and OEPA) comments on the Phase V CFC drawings and Support Plans.

GeoSyntec continued with preparation of the Phase IV – Cells 4 and 5 liner construction CQA final report during the report.

Construction Quality Control (CQC)

Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase IV Impacted Materials Placement

CQC monitored the placement of Category 3 transite panels in Cell 4 and select impacted material in Cell 5. Moisture/density tests were performed on lifts of the select impacted material as required.

'PY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE III & IV CONSTRUCTION WEEK ENDING: 20 APRIL 03

WEEKLY REPORT NO. 296

Construction Quality Control (CQC) (cont'd)

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

Phase IV – Cell 2 Final Cover Construction

CQC monitored the initial placement of non-impacted contouring layer in Cell 2. Moisture/density tests were performed as required.

Phase V – Cell 6 Liner Construction

CQC monitored the removal of topsoil and compacted fill from the Cell 7 footprint. Density tests were performed on the Cell 6 west bench and floor as per project specifications.

Health and Safety

GeoSyntec continues to hold weekly health and safety meetings for its on-site employees. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds its own daily safety tailgate meetings. The GeoSyntec weekly safety meeting held on 14 April 2003 covered utility knife safety.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. B. York,
5. K. Sparks,
7. S. Abney.
2. C. Sukow,
4. C. Walker,
6. D. Evans, and

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 27 APRIL 03

WEEKLY REPORT NO. 297

The report period covered by Weekly Reports No. 297 is from Monday, 21 April 2003 through Sunday, 27 April 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV and Phase V projects. During the period, there were approximately 1.1 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening, and Restoration Activities

No activities.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place Category 3 transite panels in Cell 4 during the report period. The bundles of packaged transite panels were placed side by side and end to end in accordance with the alternate placement procedure in the IMP Plan; however, the space between the groups of bundles are yet to be filled with Category 1 soil material. Select impacted material was also hauled and placed in Cell 5.

The Cell 3/Cell 4 intercell berm road was removed to the top of the protective layer. Oversized rocks were picked out and the material was used for Category 1 soil (including select impacted material) layer in Cell 4.

Phase IV2 – Cell 2 Final Cover Construction

FFC continued to place the first lift of non-impacted contouring layer. Oversized rocks from the surface of the select impacted material layer were removed when encountered. The Cell 1 clay cap termination was exposed for future tie-in to the Cell 2 clay cap.

FCC received shipments of geosynthetic clay cap (GCC) for the Cell 2 final cover construction on 17 April 2003.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ1341 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 27 APRIL 03

WEEKLY REPORT NO. 297

Phase V – Cell 6 Liner Construction

FFC excavated fill material, above subgrade elevations, from the Cell 7 footprint. The excavated material was placed and compacted on the west perimeter berm and floor of Cell 6. A portion of the Cell 7 floor was proof rolled during the report period. Soft areas that exhibited pumping or rutting greater than 2 inches from the proofrolling were undercut to remove the soft soils with saturated sand lens. The excavated area was filled with geotextile layer and minimum1-ft thick stone bridge over the soft area and then backfilled with gray till (compacted fill).

FCC received shipments of geosynthetic clay liner (GCL) for the Cell 6 liner construction on 17 April 2003.

Construction Submittal Review

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02230-002, Rev. 0	Supplier Certification for road base aggregate	21 Apr 2003	A
02271-001, Rev. 0	Source of Type C Riprap and Test Results	21 Apr 2003	No Comments
02271-002, Rev. 0	Supplier certification for Type C Riprap	21 Apr 2003	No Comments
02710-001, Rev. 0	Source of granular drainage corridor material (#57 stone)	25 Apr 2003	A
02710-002, Rev. 0	Test results for #57 granular drainage material and 5-lb. rep. sample	25 Apr 2003	B w/Comments
02710-003, Rev. 0	Supplier's certification for #57 granular drainage corridor material	25 Apr 2003	A
02721-001, Rev. 0	Manufacturer's product data	21 Apr 2003	No Comments

Y TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY REPORT NO. 297

Construction Submittal Review (cont'd)

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02721-002, Rev. 1	Manufacturer's certification	21 Apr 2003	No Comments
02721-003, Rev. 0	Shop drawings for culverts, etc.	21 Apr 2003	No Comments
02772P-014, Rev. 0	Internal and Interface Shear Strength Test Results for Each GCL Lot	21 Apr 2003	No Comments
13005-010, Rev. 1	Detailed shop drawings for liner penetration boxes (LPBs) Types I, II, III, and IV	25 Apr 2003	No Comment
13005-013, Rev. 0	Fabricator's QA Procedures for LPBs	25 Apr 2003	No Comment

Design Clarifications and Modifications

DCN No. 20104-011 was initiated and approved by GeoSyntec. This DCN incorporated lessons learned during the Phase III – Cell 1 final cover construction project into the Phase IV – Cell 2 final cover construction documents. Phase IV CFC Drawing No. 90X-6000-G-00358 was primarily affected. This DCN is currently awaiting approval from the Regulatory Agency.

GeoSyntec continued with preparation of the Phase IV – Cells 4 and 5 liner construction CQA final report during the report.

Construction Quality Control (CQC)

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ1341 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 27 APRIL 03

WEEKLY REPORT NO. 297

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 3 transite panels in Cell 4 and select impacted material in Cell 5. CQC also monitored the removal of the Cell 3\Cell 4 intercell berm down to the protective layer. Moisture/density tests were preformed on select lifts of Category 1 soil (including select impacted material) as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored the initial placement of non-impacted contouring layer in Cell 2. Moisture/density tests were performed as required.

Phase V – Cell 6 Liner Construction

CQC monitored the removal of compacted fill from the Cell 7 footprint. Density tests were performed on the compacted fill placed on the Cell 6 west perimeter berm and floor as per project specifications.

Health and Safety

GeoSyntec continues to hold weekly health and safety meetings for its on-site employees. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds its own daily safety tailgate meetings. The GeoSyntec weekly safety meeting held on 22 April 2003 covered personal protective equipment and recent respirator failures.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah, 2. C. Sukow, 3. B. York, 4. C. Walker,
5. K. Sparks, 6. D. Evans, and 7. S. Abney.

Y TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 04 MAY 03

WEEKLY REPORT NO. 298

The report period covered by Weekly Reports No. 298 is from Monday, 28 April 2003 through Sunday, 04 May 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 0.5 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening, and Restoration Activities

No activities.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place Category 3 transite panels in Cell 4 during the report period. The bundles of packaged transite panels were placed side by side and end to end in accordance with the alternate placement procedure in the IMP Plan; however, the space between the groups of bundles are yet to be filled with Category 1 soil material. Select impacted material was also hauled and placed in Cell 5.

Phase IV2 – Cell 2 Final Cover Construction

FFC continued to place the first and second lift of non-impacted contouring layer. Oversized rocks from the surface of the select impacted material layer were removed when encountered. The Cell 1 clay cap termination continued to be exposed for future tie-in to the Cell 2 clay cap.

FFC received shipments of geosynthetics for the Cell 2 final cover construction during the report period.

Phase V – Cell 6 Liner Construction

FFC began to uncover the Cell 5 temporary termination area (for future tie-in to Cell 6) and expose the sacrificial geosynthetics (geotextile and smooth geomembrane).

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PER:C. Sukow/K. Badu-Tweneboah

WEEKLY REPORT NO. 298

Phase V – Cell 6 Liner Construction (cont'd)

A portion of the Cell 6 floor was proofrolled during the report period. Soft areas that exhibited pumping or rutting greater than 2 inches from the proofrolling were undercut to remove the soft soils and saturated sand lenses. The excavated area was filled with geotextile layer and minimum1-ft thick stone bridge over the soft area and then backfilled with gray till (compacted fill).

FFC received shipments of geosynthetics for the Cell 6 liner construction during the report period. FCC also received No.78 stone for the drainage layers of Cell 6.

Construction Submittal Review

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-002, Rev. 8	Cell 4 Proposed Top of Cat 1 layer	29 Apr 2003	A
02100-005, Rev. 24	Cell 4 As-Built Top of Select & Cell 5 As-Built Top of Select	29 Apr 2003	w/Comments
13005-010, Rev. 2	Detailed shop drawings for liner penetration boxes (LPBs) Types I, II, III, and IV	28 Apr 2003	No Comments
13005-013, Rev. 2	Fabricator's QA Procedures for LPBs	28 Apr 2003	No Comments

Design Clarifications and Modifications

GeoSyntec continued with preparation of the Phase IV – Cells 4 and 5 liner construction CQA final report during the report period.

GeoSyntec attended the 30 April 2003 pre-construction orientation meeting for the Phase IV2 and Phase V geosynthetics installation work with Fluor Fernald and Petro Environmental/The Istre Company.

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 04 MAY 03

WEEKLY REPORT NO. 298

Construction Quality Control (CQC)

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 3 transite panels in Cell 4 and select impacted material in Cell 5. Moisture/density tests were preformed on select lifts of Category 1 soil (including select impacted material) as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored the placement of non-impacted contouring layer in Cell 2. Moisture/density tests were performed as required.

Phase V – Cell 6 Liner Construction

CQC monitored proof rolling in Cell 6. Density tests were performed on the compacted fill placed in the Cell 6 over cuts and on the west perimeter berm as per project specifications.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 28 April 2003 covered personal accident prevention being cost effective health and safety.

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PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 04 MAY 03

WEEKLY REPORT NO. 298

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,	2. C. Sukow,	3. B. York,	4. C. Walker,
5. K. Sparks,	6. T. Willis	7. D. Evans, and	8. S. Abney

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 11 MAY 03

WEEKLY REPORT NO. 299

The report period covered by Weekly Reports No. 299 is from Monday, 05 May 2003 through Sunday, 11 May 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 3.1 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening, and Restoration Activities

No activities.

Phase V - Impacted Material Placement

No activities due to heavy rains.

Phase IV2 – Cell 2 Final Cover Construction

Fluor Fernald Construction (FFC) graded the final lift of the contouring layer. Oversized rocks from the surface of the contouring layer were removed when encountered

Phase V – Cell 6 Liner Construction

FFC continued to uncover the Cell 5 temporary termination area (for future tie-in to Cell 6) and expose the sacrificial geosynthetics (geotextile and smooth geomembrane).

A portion of the Cell 6 floor was proofrolled during the report period. Soft areas that exhibited pumping or rutting greater than 2 inches from the proofrolling were undercut to remove the soft soils and saturated sand lenses. The excavated area was filled with geotextile layer and minimum1-ft thick stone bridge over the soft area and then backfilled with gray till (compacted fill).

FFC received shipments of geosynthetics for the Cell 6 liner construction during the report period. FCC also received No.78 stone for the drainage layers of Cell 6.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ1341 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 11 MAY 03

WEEKLY REPORT NO. 299

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-002, Rev. 1	Proposed Top of Contouring Layer for Cell 2 Final Cover	06 May 2003	No Comments
02100-002, Rev. 9	Proposed Top of Select Layer for Cells 4 & 5 Liner Systems	06 May 2003	No Comments
02100-002, Rev. 10	Proposed Area 4 Cell 2 Final Cover	06 May 2003	No Comments

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02721-003, Rev. 1	Manufacturer's product data	05 May 2003	No Comments
02721-003, Rev. 2	Manufacturer's Certification	05 May 2003	No Comments
02721-003, Rev. 1	Shop Drawings	05 May 2003	No Comments

Design Clarifications and Modifications

GeoSyntec provided Fluor Fernald with draft (Revision A) copies of the Phase IV – Cells 4 and 5 liner construction CQA final report for review and comment during the period.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 11 MAY 03

WEEKLY REPORT NO. 299

Construction Quality Control (CQC)

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase V - Impacted Materials Placement

No activities.

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored the fine grading of the non-impacted contouring layer in Cell 2. Moisture/density tests were performed as required.

Phase V – Cell 6 Liner Construction

CQC monitored proof rolling in Cell 6. Density tests were performed on the compacted fill placed in the Cell 6 over cuts and on the west perimeter berm as per project specifications.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 5 May 2003 covered support and help for new employees.

'Y TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ1341 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 11 MAY 03

WEEKLY REPORT NO. 299

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. B. York,
4. C. Walker,
5. K. Sparks,
6. T. Willis,
7. D. Evans,
8. S. Abney,
9. D. Phillips, and
10. K. Herrick

'Y TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

EEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 18 MAY 03

WEEKLY REPORT NO. 300

The report period covered by Weekly Report No. 300 is from Monday, 12 May 2003 through Sunday, 18 May 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 2.5 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening, and Restoration Activities

No activities.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place Category 3 transite panels in Cell 4 during the report period. The bundles of packaged transite panels were placed side by side and end to end in accordance with the alternate placement procedure in the IMP Plan. Select impacted material was also hauled and placed in Cell 5, and the catchment area in Cell 3 was mucked out.

Phase IV2 – Cell 2 Final Cover Construction

FFC graded the final lift of the contouring layer. Oversized rocks from the surface of the contouring layer were removed when encountered. FFC also began clay cap placement for the Cell 2 final cover on 12 May 2003.

Phase V – Cell 6 Liner Construction

FFC continued to uncover the Cell 5 temporary termination area (for future tie-in to Cell 6) and expose the sacrificial geosynthetics (geotextile and smooth geomembrane).

A portion of the Cell 6 floor was proofrolled during the report period. Soft areas that exhibited pumping or rutting greater than 2 inches from the proofrolling were undercut to remove the soft soils and saturated sand lenses. The excavated area was filled with geotextile layer and minimum1-ft thick stone bridge over the soft area and then backfilled with gray till (compacted fill).

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 18 MAY 03

WEEKLY REPORT NO. 300

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-001, Rev. 0	Land surveyor's resume and license	12 May 2003	A

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
P6-010, Rev. 0	Temporary Facilities	12 May 2003	No Comments
P6-011, Rev. 0	Pay Item Schedule	12 May 2003	No Comments
P6-011A, Rev. 0	Construction Schedule	12 May 2003	No Comments
02100-001, Rev. 0	Land surveyor's resume and license	12 may 2003	A
02271-002, Rev. 1	Source of riprap and test results	15 May 2003	A
02605-001, Rev. 0	Shop drawings for HDPE pipes	12 May 2003	No Comments
02605-002, Rev. 0	List of materials for HDPE pipes	15 May 2003	No Comments
02605-003, Rev. 0	Procedures for hydrostatic and pneumatic testing of HDPE pipes	12 May 2003	A w/Comments
02605-004, Rev. 0	Origin and identification of polyethylene resin	12 may 2003	A
02605-005, Rev. 0	Manufacturer's certifiable values for HDPE material properties	15 may 2003	No Comments
02605-007, Rev. 0	Procedure for butt-fusion welding & electro-fusion couplings for HDPE pipes	12 May 2003	No Comments
02605-007, Rev. 1	Procedure for electro fusion couplings for HDPE pipes	15 May 2003	No Comments
02605-008, Rev. 0	Training plans for HDPE pipe joining	12 May 2003	No Comments

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ1341 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 18 MAY 03

WEEKLY REPORT NO. 300

Phase V Project (cont'd)

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02605-009, Rev. 0	MSDS for HDPE pipes	12 May 2003	No Comments
02605-011, Rev. 0	Manufacturer's test results	12 May 2003	w/Comments
02605-013, Rev. 0	Documentation of training & certification of personnel for HDPE pipe joining	12 May 2003	No Comments
02710-001, Rev. 1	Source of granular drainage material	12 May 2003	A
02710-002, Rev. 1	Test results and 50-lb rep. sample	12 May 2003	A
02710-003, Rev. 1	Supplier's certification	12 May 2003	A

Design Clarifications and Modifications

GeoSyntec completed review of survey certification data for the Cell 2 contouring layer, and gave Fluor Fernald verbal approval for placement of the compacted clay cap during the period.

GeoSyntec conducted review of progress survey certification data for the Cell 6 subgrade during the period.

Construction Quality Control (CQC)

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

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PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 18 MAY 03

WEEKLY REPORT NO. 300

Construction Quality Control (CQC) (cont'd)

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 3 transite panels in Cell 4 and select impacted material in Cell 5. Moisture/density tests were preformed on select lifts of Category 1 soil (including select impacted material) as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored proof rolling and fine grading of the non-impacted contouring layer in Cell 2. CQC also monitored placement, compaction, and stabilization of clay cap material. Moisture/density tests were performed on both the contouring layer and clay cap as required.

Phase V – Cell 6 Liner Construction

CQC monitored proof rolling in Cell 6. Density tests were performed on the compacted fill placed in the Cell 6 over cuts and on the west perimeter berm as per project specifications.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 12 May 2003 covered hazard recognition.

GeoSyntec on-site senior personnel also attended the Two-Day Supervisors (Leadership) Safety training, sponsored by Fluor Fernald, on May 13-14 and May 14-15, 2003.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. B. York,
4. C. Walker,
5. K. Sparks,
6. T. Willis,
7. D. Evans
8. S. Abney and,
8. K. Herrick

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PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ1341 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 25 MAY 03

WEEKLY REPORT NO. 301

The report period covered by Weekly Reports No. 301 is from Monday, 19 May 2003 through Sunday, 25 May 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 1.55 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening, and Restoration Activities

No activities.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place Category 3 transite panels in Cell 4 during the report period. The bundles of packaged transite panels were placed side by side and end to end in accordance with the alternate placement procedure in the IMP Plan. Select impacted material was also hauled and placed in Cell 5.

Phase IV2 – Cell 2 Final Cover Construction

FFC continued compacted clay cap placement for the Cell 2 final cover during the report period. Oversized rocks from the clay cap surface were continuously removed as the material was stabilized.

Phase V – Cell 6 Liner Construction

A portion of the Cell 6 floor was proofrolled during the report period. Soft areas that exhibited pumping or rutting greater than 2 inches from the proofrolling were undercut to remove the soft soils and saturated sand lenses. The excavated area was filled with geotextile layer and minimum1-ft thick stone to bridge over the soft area and then backfilled with gray till (compacted fill). Compacted fill was also placed in the footprint of Valve House 7 bringing the area up to the existing surrounding grades.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ1341 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 25 MAY 03

WEEKLY REPORT NO. 301

Construction Submittal Review

Phase IV Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 26	As-Built Cat 1 Cell 4	20 May 2003	No Comments

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-002, Rev. 2	Cell 2 Final Cover Top of Proposed Contouring Layer	20 May 2003	No Comments
02770-006, Rev. 0	Resumes of Installer Superintendent and QA Inspector of GML & GCL	20 May 2003	A
02770-007, Rev. 0	Resumes of personnel performing seaming operations for GML & GCL	20 May 2003	A

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
ACR-001, Rev. 1	Submittal Register	19 May 2003	No Comments
9268-001, Rev. 2	Submittal Register	19 May 2003	No Comments
P6-012, Rev. 0	Submittal Register	20 May 2003	No Comments
P8-001, Rev. 0	Accident Prevention Plan	20 May 2003	No Comments
P8-008, Rev. 0	Hazardous Chemical List	20 may 2003	No Comments

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY REPORT NO. 301

Construction Submittal Review (cont'd)

Phase V Project (cont'd)

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
P8-010, Rev. 0	Hearing Conservation Program	20 May 2003	No Comments
P8-027, Rev. 0	Heat and Cold Stress Requirements	20 May 2003	No Comments
P8-029, Rev. 0	Contractor's Substance Abuse Prog.	20 May 2003	No Comments
02100-002, Rev. 0	Cell 6 subgrade control point dwg.	20 May 2003	No Comments
02100-002, Rev. 0	Cell 6 subgrade control point dwg.	20 May 2003	No Comments
02100-002, Rev.1	Top of select Cell 3	20 May 2003	No Comments
02605-004, Rev. 1	Origin and identification of PE resin	19 May 2003	w/Comments
02605-010, Rev. 0	Resin supplier's QC certificates for resin used for HDPE pipes	19 May 2003	w/Comments
02605-010, Rev. 0	Resin supplier's QC certificates for resin used for HDPE pipes	19 May 2003	w/Comments
02605-011, Rev. 0	Manufacturer's test results for Cell 6 HDPE pipes	19 May 2003	w/Comments
02605-014, Rev. 0	Results of all tests for HDPE piping specified in Section 02605	19 May 2003	w/Comments
02770-002, Rev. 0	Installation Experience	20 May 2003	C w/Comments
02770-004, Rev. 0	GCL & GML Installation Work Plan	20 May 2003	w/Comments
02770-006, Rev. 0	Resumes of Installer superintendent and QA Inspector for GML & GCL	20 May 2003	A
02770-007, Rev. 0	Resumes of personnel performing seaming operations for GML and GCL	20 May 2003	A
02770-008, Rev. 0	Evidence of experience for superintendent and seamers, etc. for GML & GCL	20 May 2003	A
02770-013, Rev. 0	Geosynthetics QC Plan	20 May 2003	No Comments

WEEKLY REPORT NO. 301

Construction Submittal Review (cont'd)

Phase V Project (cont'd)

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
13005-015, Rev. 0	Results of Fabricator QC Tests	20 may 2003	No Comments
13005-017, Rev. 0	Certification from the Fabricator on the material and fabricated boxes	20 May 2003	No Comments
13005-018, Rev. 0	Certification that welders are qualified to perform extrusion welding	20 May 2003	No Comments

Design Clarifications and Modifications

DCN No. 20104-012 was initiated and approved by GeoSyntec. This DCN allowed topsoil material to be used for the final lift of the vegetative soil layer. Technical Specification Section 02250 was affected. This DCN is currently under review by the Regulatory Agency.

RCI No. 20104-007R, initiated by Fluor Fernald Engineering, was responded to by GeoSyntec. This RCI clarified that the grid size for Category 2 impacted material may be increased to a maximum of 200 ft by 200 ft at the bottom of a cell and progressively decrease in size as the cell elevation increases with impacted material placement. This RCI is currently under review by the Regulatory Agency.

GeoSyntec also completed a memorandum, dated 22 May 2003, to Fluor Fernald to provide additional technical evaluation to support RCI No. 20104-007R. This memorandum is also being reviewed by the Regulatory Agency.

GeoSyntec attended several meetings during the week with Fluor Fernald to discuss RCI No. 20104-007R and the accompanying memorandum.

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 25 MAY 03

WEEKLY REPORT NO. 301

Design Clarifications and Modifications (cont'd)

GeoSyntec conducted review of progress survey certification data for the Cell 6 subgrade during the period.

GeoSyntec received comments from Fluor Fernald Engineering and QA on the Cells 4 and 5 CQA draft final report on 22 May 2003. GeoSyntec has initiated implementation of Fluor Fernald's comments to finalize the report.

Nelson Breeden from the GeoSyntec Atlanta office was on-site from 20 to 22 May 2003 to demonstrate and initiate training of technicians on the use of PDAs for CQA/CQC monitoring of soils and geosynthetics. Mr. Breeden also gave a short presentation to select Fluor Fernald personnel on 22 May 2003.

Construction Quality Control (CQC)

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 3 transite panels in Cell 4 and select impacted material in Cell 5. Moisture/density tests were preformed on lifts of Category 1 soil (including select impacted material) as required.

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 25 MAY 03

WEEKLY REPORT NO. 301

Construction Quality Control (CQC) (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored placement, compaction, and stabilization of clay cap material. Moisture/density tests were performed on the compacted clay cap as required.

Phase V – Cell 6 Liner Construction

CQC monitored proof rolling in Cell 6. Density tests were performed on the compacted fill placed in the Cell 6 over cuts as per project specifications.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 20 May 2003 covered lifting and back injury prevention.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. B. York,
4. C. Walker,
5. K. Sparks,
6. T. Willis,
7. D. Evans,
8. S. Abney,
9. K. Herrick, and
10. Nelson Breeden (part time).

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 01 JUNE 03

WEEKLY REPORT NO. 302

The report period covered by Weekly Reports No. 302 is from Monday, 26 May 2003 through Sunday, 01 June 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 0.5 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening, and Restoration Activities

No activities.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place Category 3 transite panels in Cell 4 during the report period. The bundles of packaged transite panels were placed side by side and end to end in accordance with the alternate placement procedure in the IMP Plan.

Phase IV2 – Cell 2 Final Cover Construction

FFC continued compacted clay cap placement for the Cell 2 final cover during the report period. Oversized rocks from the clay cap surface were continuously removed as the material was stabilized.

Phase V – Cell 6 Liner Construction

Compacted fill was placed in the footprint of Valve House 7 bringing the area up to the existing surrounding grades. Cell 6 was graded and portions were certified for placement of compacted clay liner. Compacted clay liner was placed in the penetration box area in preparation of penetration box installation. The Cell 7 floor was disked and oversized material was removed in preparation for future clay liner placement. Full scale compacted clay liner placement is scheduled for next week.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 01 JUNE 03

WEEKLY REPORT NO. 302

Construction Submittal Review

Phase IV2 Project

There was no construction materials and geosynthetics procurement submittals were reviewed during the report period.

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02770-001, Rev. 0	Layout Drawings	30 May 2003	No Comments
02770-004, Rev. 1	GCL & GML Installation Work Plan	30 May 2003	B w/Comments

Design Clarifications and Modifications

DCN No. 20104-012 was initiated and approved by GeoSyntec. This DCN allowed topsoil material to be used for the final lift of the vegetative soil layer. Technical Specification Section 02250 was affected. This DCN is currently under review by the Regulatory Agency.

RCI No. 20104-007R, initiated by Fluor Fernald Engineering, was responded to by GeoSyntec. This RCI clarified that the grid size for Category 2 impacted material may be increased to a maximum of 200 ft by 200 ft at the bottom of a cell and progressively decrease in size as the cell elevation increases with impacted material placement. This RCI is currently under review by the Regulatory Agency.

GeoSyntec also completed a memorandum, dated 22 May 2003, to Fluor Fernald to provide additional technical evaluation to support RCI No. 20104-007R. This memorandum is also being reviewed by the Regulatory Agency.

GeoSyntec completed review of as-built survey certification data for the Cell 2 final cover system contouring layer, and prepared a memorandum to Fluor Fernald Construction Manager on 27 May 2003.

GeoSyntec conducted review of progress survey certification data for the Cell 6 subgrade during the period.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.: GQ3211** **TASK NO.: 04**
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING: 01 JUNE 03**

WEEKLY REPORT NO. 302

Design Clarifications and Modifications (cont'd)

GeoSyntec continued to implement Fluor Fernald's comments on the Cells 4 and 5 draft CQA final report during the period.

Construction Quality Control (CQC)

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 3 transite panels in Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored placement, compaction, and stabilization of clay cap material. Moisture/density tests were performed on the compacted clay cap as required.

Phase V – Cell 6 Liner Construction

CQC monitored the placement of compacted clay liner in the penetration box area and compacted fill in the footprint of Valve House 7. Density tests were performed on the compacted fill and compacted clay liner placed in the Cell 6 area as per project specifications.

CQC also monitored the disking and removal of oversized material on the Cell 7 floor in preparation for clay liner placement and compaction.

'Y TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.: GQ3211** **TASK NO.: 04**
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING: 01 JUNE 03**

WEEKLY REPORT NO. 302

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 20 May 2003 covered lifting and back injury prevention.

Representatives from GeoSyntec also attended the Fluor Fernald's Contractor safety breakfast meeting held on 29 May 2003.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. Brian Habermehl,
6. K. Herrick,
7. D. Evans, and
8. S. Abney.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 08 JUNE 03

WEEKLY REPORT NO. 303

The report period covered by Weekly Report No. 303 is from Monday, 2 June 2003 through Sunday, 8 June 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 1.4 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Mobilization of screening equipment to the site occurred during the report period.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place Category 3 transite panels in Cell 4 during the report period. The bundles of packaged transite panels were placed side by side and end to end in accordance with the alternate placement procedure in the IMP Plan. Category 1 soil materials were placed between and on top of the packaged transite panels per the IMP Plan.

Portions of the Cell 3 runoff catchment area were cleaned out to expose the sacrificial geotextile filter layer. Repairs were made to the geotextile in preparation for placement of impacted materials in the catchment area.

Phase IV2 – Cell 2 Final Cover Construction

FFC continued compacted clay cap placement for the Cell 2 final cover during the report period. Oversized rocks from the clay cap surface were continuously removed as the material was stabilized.

Phase V – Cell 6 Liner Construction

Cell 6 was graded and portions were certified for placement of compacted clay liner. Placement of compacted clay liner began on 2 June 2003. Oversized rocks from the clay liner surface were continuously removed as the material was stabilized.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 08 JUNE 03

WEEKLY REPORT NO. 303

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Design Clarifications and Modifications

DCN No. 20104-012 was initiated and approved by GeoSyntec. This DCN allowed topsoil material to be used for the final lift of the vegetative soil layer. Technical Specification Section 02250 was affected. This DCN was approved by the Regulatory Agency on June 2, 2003.

RCI No. 20104-007R, initiated by Fluor Fernald Engineering, was responded to by GeoSyntec. This RCI clarified that the grid size for Category 2 impacted material may be increased to a maximum of 200 ft by 200 ft at the bottom of a cell and progressively decrease in size as the cell elevation increases with impacted material placement. This RCI is currently under review by the Regulatory Agency.

GeoSyntec also completed a memorandum, dated 22 May 2003, to Fluor Fernald to provide additional technical evaluation to support RCI No. 20104-007R. This memorandum is also being reviewed by the Regulatory Agency.

Y TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ3211 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 08 JUNE 03

WEEKLY REPORT NO. 303

Design Clarifications and Modifications (cont'd)

GeoSyntec completed review of as-built survey certification data for the Cell 6 subgrade layer, and prepared a memorandum to Fluor Fernald Construction Manager on 4 June 2003.

GeoSyntec reviewed progress survey certification data for the top of compacted clay cap in the Cell 2 final cover system. GeoSyntec met with Fluor Fernald on 6 June 2003 to discuss the survey certification data and as-built conditions for the tie-in of the Cell 1 compacted clay cap to the Cell 2 compacted clay cap.

GeoSyntec also prepared a memorandum to Fluor Fernald Construction Manager on the approval of the Cell 2 top of select impacted material layer on 6 June 2003.

GeoSyntec continued to implement Fluor Fernald's comments on the Cells 4 and 5 draft CQA final report during the period.

Construction Quality Control (CQC)

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices continued during the report period and is ongoing.

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 3 transite panels in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 08 JUNE 03

WEEKLY REPORT NO. 303

Construction Quality Control (CQC) (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored placement, compaction, and stabilization of clay cap material. Moisture/density tests were performed on the compacted clay cap as per project specifications.

Phase V – Cell 6 Liner Construction

CQC monitored placement, compaction, and stabilization of clay cap material. Moisture/density tests were performed on the compacted clay liner as per project specifications.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 2 June 2003 covered the dangers surrounding construction equipment.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. K. Herrick,
7. R. Hastie,
8. S. Schaeffer,
9. D. Evans, and
10. S. Abney.

?Y TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ3211 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 15 JUNE 03

WEEKLY REPORT NO. 304

The report period covered by Weekly Report No. 304 is from Monday, 9 June 2003 through Sunday, 15 June 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 1.35 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material began on 10 June 2003. Approximately 3,000 cubic yards were screened during the report period.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place Category 3 transite panels in Cell 4 during the report period. The bundles of packaged transite panels were placed side by side and end to end in accordance with the alternate placement procedure in the IMP Plan. Category 1 soil materials were placed between and on top of the packaged transite panels per the IMP Plan.

Portions of the Cell 3 runoff catchment area were cleaned out to expose the sacrificial geotextile filter layer. Repairs were made to the geotextile in preparation for placement of impacted materials in the catchment area. Placement of select material in the catchment area began during the report period.

Phase IV2 – Cell 2 Final Cover Construction

FFC began to fine grade compacted clay cap for the Cell 2 final cover during the report period. Oversized rocks from the clay cap surface were continuously removed as the material was graded.

Phase V – Cell 6 Liner Construction

Placement of compacted clay liner continued during the report period. Oversized rocks from the clay liner surface were continuously removed as the material was stabilized.

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COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 15 JUNE 03

WEEKLY REPORT NO. 304

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02770-009, Rev. 0	Certificate of calibration for field tensiometer and vacuum gauges	10 Jun 2003	A

Design Clarifications and Modifications

DCN No. 20104-013, initiated by Fluor Fernald, was approved as-noted by GeoSyntec. This DCN provided an alternative requirement for the geosynthetics Installer to request waiver of the letter of approval or license by the geomembrane Manufacturer. Technical Specification Section 02770 was affected. This DCN is currently under review by the Regulatory Agency.

GeoSyntec also submitted a draft memorandum to Fluor Fernald on DCN No. 20104-013 with respect to the Manufacturer's warranty and availability to provide technical support during installation. This draft memorandum is under review by Fluor Fernald.

DCN No. 20104-014 was initiated and approved by Fluor Fernald for the construction of an impacted material cell ramp to tie into the existing impacted material haul road west of Cell 4. Phase IV CFC Drawing No. 90X-6000-G-00336 was affected.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 15 JUNE 03

WEEKLY REPORT NO. 304

Design Clarifications and Modifications (cont'd)

RCI No. 20104-007R, initiated by Fluor Fernald Engineering, was responded to by GeoSyntec. This RCI clarified that the grid size for Category 2 impacted material may be increased to a maximum of 200 ft by 200 ft at the bottom of a cell and progressively decrease in size as the cell elevation increases with impacted material placement. This RCI is currently under review by the Regulatory Agency.

GeoSyntec also completed a memorandum, dated 22 May 2003, to Fluor Fernald to provide additional technical evaluation to support RCI No. 20104-007R. This memorandum is also being reviewed by the Regulatory Agency.

GeoSyntec completed implementation of Fluor Fernald's comments on the Cells 4 and 5 draft CQA final report during the period. Reproduction of the final CQA report for distribution began at the end of the week.

Construction Quality Control (CQC)

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendice was completed during the report period and sent for reproduction.

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC began testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. Two samples were collected during the report period.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 3 transite panels in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 15 JUNE 03

WEEKLY REPORT NO. 304

Construction Quality Control (CQC) (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored the fine grading and removal of loose rocks from the clay cap.

Phase V – Cell 6 Liner Construction

CQC monitored placement, compaction, and stabilization of clay liner material. Moisture/density tests were performed on the compacted clay liner as per project specifications .

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 9 June 2003 was a discussion on a simple and blunt question, "Why Take Chances?".

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. K. Herrick,
7. R. Hastie,
8. S. Schaeffer,
9. D. Evans, and
10. S. Abney.

COPY TO: JDC,UAK,WAZ,MWG,KSH,DBG,GKJ,CCV,DKP,JFB,DAP – DOE (MS 45)
PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 22 JUNE 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 305

The report period covered by Weekly Report No. 305 is from Monday, 16 June 2003 through Sunday, 22 June 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 5.8 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Approximately 4,500 cubic yards were screened during the week and 7,500 cubic yards have been screened to date.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place Category 3 transite panels in Cell 4 during the report period. The bundles of packaged transite panels were placed side by side and end to end in accordance with the alternate placement procedure in the IMP Plan. Category 1 soil materials were placed between and on top of the packaged transite panels per the IMP Plan.

Placement of select impacted material in the catchment area of Cell 3 continued during the report period.

PER:C. Sukow/K. Badu-Tweneboah

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ3211 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 22 JUNE 03

WEEKLY REPORT NO. 305

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

FFC continued to fine grade compacted clay cap for the Cell 2 final cover during the report period. Oversized rocks from the clay cap surface were continuously removed as the material was graded.

Installation of the geosynthetics for the Cell 2 final cover began on 21 June 2003. Geosynthetic clay cap (GCC) and Geomembrane cap (GML) were deployed along the Cell 1 and Cell 2 final cover tie-in.

Phase V – Cell 6 Liner Construction

Placement of compacted clay liner continued during the report period. Oversized rocks from the clay liner surface were continuously removed as the material was stabilized.

Construction Submittal Review

Phase IV Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 27	Cell 4 As-Built Top of Cat 1 Layer	17 Jun 2003	No Comments
02100-005, Rev. 28	Cells 4 and 5 As-Built Top of Select	17 Jun 2003	No Comments

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-002, Rev. 3	Cell 2 Final Cover Top of Proposed Contouring Layer	17 Jun 2003	No Comments
02100-002, Rev. 4	Cell 2 Final Cover Top of Proposed Compacted Clay Layer	17 Jun 2003	w/ Comments

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 22 JUNE 03

WEEKLY REPORT NO. 305

Construction Submittal Review (cont'd)

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02770-009, Rev. 0	Certificate of calibration for field tensiometer and vacuum gauges	10 Jun 2003	A

Design Clarifications and Modifications

Phase IV Project

GeoSyntec continued with the reproduction of the Cells 4 and 5 CQA final report for distribution during the report period.

Phase IV2 and Phase V Projects

DCN No. 20104-013, initiated by Fluor Fernald, was approved as-noted by GeoSyntec. This DCN provided an alternative requirement for the geosynthetics Installer to request waiver of the letter of approval or license by the geomembrane Manufacturer. Technical Specification Section 02770 was affected. This DCN is currently under review by the Regulatory Agency.

GeoSyntec also submitted a draft memorandum to Fluor Fernald on DCN No. 20104-013 with respect to the Manufacturer's warranty and availability to provide technical support during installation. This draft memorandum is under review by Fluor Fernald.

DCN No. 20104-014 was initiated and approved by Fluor Fernald for the construction of an impacted material cell ramp to tie into the existing impacted material haul road west of Cell 4. Phase IV CFC Drawing No. 90X-6000-G-00336 was affected.

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 22 JUNE 03

WEEKLY REPORT NO. 305

Design Clarifications and Modifications (cont'd)

DCN No. 20104-015 was initiated and approved by GeoSyntec. This DCN provided the required seam properties for the tie-in of the 60-mil thick textured HDPE geomembrane in the Cell 1 final cover to the 80-milthick textured HDPE geomembrane in the Cell 2 final cover. Table 02770-2, Section 02770: Geomembrane Liner and Cap of the Phase IV Technical Specifications was affected. This DCN is currently under review by the Regulatory Agency.

RCI No. 20104-007R, initiated by Fluor Fernald Engineering, was responded to by GeoSyntec. This RCI clarified that the grid size for Category 2 impacted material may be increased to a maximum of 200 ft by 200 ft at the bottom of a cell and progressively decrease in size as the cell elevation increases with impacted material placement. This RCI is currently under review by the Regulatory Agency.

GeoSyntec also completed a memorandum, dated 22 May 2003, to Fluor Fernald to provide additional technical evaluation to support RCI No. 20104-007R. This memorandum is also being reviewed by the Regulatory Agency.

Phase V DCN No. 20105-003, initiated by Fluor Fernald, was approved by GeoSyntec. This DCN moved the location of gravity-inlet structure (GIS) #11 approximately 10 feet north to account of a changed field condition. Phase V CFC Drawings Nos. 90X-6000-G-00366 and 90X-6000-G-00404 were affected. This DCN is currently under review by the Regulatory Agency.

GeoSyntec reviewed progress survey certification data for the Cell 2 final cover compacted clay cap during the report period.

Construction Quality Control (CQC)

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices was completed during the report period and sent for reproduction.

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. Three samples were collected during the report period.

:KLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ3211 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 22 JUNE 03

WEEKLY REPORT NO. 305

Construction Quality Control (CQC) (cont'd)

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 3 transite panels in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored the deployment of geosynthetics for the Cell 2 final cover. The surface of the compacted clay cap was inspected prior to geosynthetics deployment to ensure the removal of loose rocks and elimination of desiccation cracks. CQC also periodically monitored fine grading on the compacted clay cap surface.

Phase V – Cell 6 Liner Construction

CQC monitored placement, compaction, and stabilization of clay liner material. Moisture/density tests were performed on the compacted clay liner as per project specifications.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 17 June 2003 covered hand equipment (retractable blades) safety.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1.K. Badu-Tweneboah,
2.C. Sukow,
3.T. Willis,
4. C. Walker,
5. B. Habermehl,
6. K. Herrick,
7. R. Hastie,
8. D. Evans,
9. S. Schaeffer, and
10. S. Abney

PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 29 JUNE 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 306

The report period covered by Weekly Report No. 306 is from Monday, 23 June 2003 through Sunday, 29 June 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 1.0 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Approximately 16,500 cubic yards were screened during the week and 24,000 cubic yards have been screened to date.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place Category 3 transite panels in Cell 4 during the report period. The bundles of packaged transite panels were placed side by side and end to end in accordance with the alternate placement procedure in the IMP Plan. Category 1 soil materials were placed between and on top of the packaged transite panels per the IMP Plan.

Placement of select impacted material in the catchment area of Cell 3 also continued during the report period.

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY REPORT NO. 306

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

Installation of the geosynthetics for the Cell 2 final cover continued during the report period. A total of 153,074 ft^2 of geomembrane liner (GML) has been deployed to date.

Phase V – Cell 6 Liner Construction

Placement of compacted clay liner continued during the report period. Oversized rocks from the clay liner surface were continuously removed as the material was stabilized.

FFC began to install the liner penetration boxes and pipes for Cell 6. Installation is ongoing.

Construction Submittal Review

Phase IV Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
ACR-001, Rev. 1	Submittal Register	24 Jun 2003	No Comments
02770-011, Rev. 0	Cell 2 and Cell 6 Electrical Leak Detection Testing Work Plan	25 Jun 2003	A w/Comments

WEEKLY REPORT NO. 306

Construction Submittal Review (cont'd)

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
ACR-001, Rev. 2	Submittal Register	23 Jun 2003	No Comments
02770-004, Rev. 2	GCL & GML Installation Work Plan	23 Jun 2003	A

Design Clarifications and Modifications

Phase IV Project

GeoSyntec continued with the reproduction of the Cells 4 and 5 CQA final report for distribution during the report period.

Phase IV2 and Phase V Projects

DCN No. 20104-013, initiated by Fluor Fernald, was approved as-noted by GeoSyntec. This DCN provided an alternative requirement for the geosynthetics Installer to request waiver of the letter of approval or license by the geomembrane Manufacturer. Technical Specification Section 02770 was affected. This DCN was approved by the Regulatory Agency on 24 June 2003.

GeoSyntec also submitted a draft memorandum to Fluor Fernald on DCN No. 20104-013 with respect to the Manufacturer's warranty and availability to provide technical support during installation. This draft memorandum is under review by Fluor Fernald.

DCN No. 20104-014 was initiated and approved by Fluor Fernald for the construction of an impacted material cell ramp to tie into the existing impacted material haul road west of Cell 4. Phase IV CFC Drawing No. 90X-6000-G-00336 was affected. This DCN was approved by the Regulatory Agency on 26 June 2003.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 29 JUNE 03

WEEKLY REPORT NO. 306

Design Clarifications and Modifications (cont'd)

DCN No. 20104-015 was initiated and approved by GeoSyntec. This DCN provided the required seam properties for the tie-in of the 60-mil thick textured HDPE geomembrane in the Cell 1 final cover to the 80-milthick textured HDPE geomembrane in the Cell 2 final cover. Table 02770-2, Section 02770: Geomembrane Liner and Cap of the Phase IV Technical Specifications was affected. This DCN was approved by the Regulatory Agency on 26 June 2003.

RCI No. 20104-007R, initiated by Fluor Fernald Engineering, was responded to by GeoSyntec. This RCI clarified that the grid size for Category 2 impacted material may be increased to a maximum of 200 ft by 200 ft at the bottom of a cell and progressively decrease in size as the cell elevation increases with impacted material placement. This RCI was approved by the Regulatory Agency on 26 June 2003.

Phase V DCN No. 20105-003, initiated by Fluor Fernald, was approved by GeoSyntec. This DCN moved the location of gravity-inlet structure (GIS) #11 approximately 10 feet north to account of a changed field condition. Phase V CFC Drawings Nos. 90X-6000-G-00366 and 90X-6000-G-00404 were affected. This DCN was approved by the Regulatory Agency on June 25, 2003.

GeoSyntec reviewed progress survey certification data for the Cell 2 final cover compacted clay cap during the report period.

Construction Quality Control (CQC)

Phase IV – Cell 4 and Cell 5 Construction

Preparation of the Cell 4 and Cell 5 CQA final report appendices was completed during the report period and sent for reproduction.

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. Eleven samples were collected during the report period.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 3 transite panels in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 29 JUNE 03

WEEKLY REPORT NO. 306

Construction Quality Control (CQC) (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored the deployment of geosynthetics for the Cell 2 final cover. The surface of the compacted clay cap was inspected prior to geosynthetics deployment to ensure the removal of loose rocks and elimination of desiccation cracks.

CQC also met with representatives from Tecumseh Surveying, Inc. and Fluor Fernald Engineering to review previous as-built drawings of the geomembrane panel layout and discuss expectations on the future as-built layout drawings for the Cell 2 Cap and Cell 6 Liner.

Phase V – Cell 6 Liner Construction

CQC monitored placement, compaction, and stabilization of clay liner material. Moisture/density tests were performed on the compacted clay liner as per project specifications. CQC also monitored the installation of the Cell 6 secondary liner penetration boxes.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 23 June 2003 covered tics and disease recognition/prevention.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. K. Herrick,
7. R. Hastie,
8. D. Evans,
9. S. Schaeffer, and
10. S. Abney

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GO3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 06 JULY 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 307

The report period covered by Weekly Report No. 307 is from Monday, 30 June 2003 through Sunday, 6 July 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 0.8 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Approximately 7,500 cubic yards were screened during the week and 31,500 cubic yards have been screened to date.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	435	312	0	747
2	16	112	0	128
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
Total	**451**	**424**	**0**	**875**

PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 06 JULY 03

WEEKLY REPORT NO. 307

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

Installation of the geosynthetics for the Cell 2 final cover continued during the report period. A total of 265,100 ft^2 of geomembrane liner (GML) has been deployed to date.

Phase V – Cell 6 Liner Construction

Placement of compacted clay liner continued during the report period. Oversized rocks from the clay liner surface were continuously removed as the material was stabilized.

FFC completed the installation of the liner penetration boxes and pipes for Cell 6 during the report period. Pressure testing for the LTS pipes and penetration boxes is scheduled for next week.

Construction Submittal Review

Phase IV Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 1	Cell 2 Final Cover Top of As-Built Contouring Layer	3 Jul 2003	No Comments

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 06 JULY 03

WEEKLY REPORT NO. 307

Construction Submittal Review (cont'd)

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02770-003, Rev. 0	Liner Installer's request to waive letter of approval from manufacturer	3 Jul 2003	A w/Comments

Design Clarifications and Modifications

Phase IV Project

GeoSyntec completed reproduction of the Cells 4 and 5 CQA final report during the report period. Seven sets of the report (7 volumes, containing narratives and appendices) were submitted to Fluor Fernald for distribution (one set each) to USEPA, OEPA, Tetra Tech, DOE Mailroom, AR Coordinator, SDFP Library/Fluor Engineering, and ECDC.

Phase IV2 and Phase V Projects

DCN No. 20104-013, initiated by Fluor Fernald, was approved as-noted by GeoSyntec. This DCN provided an alternative requirement for the geosynthetics Installer to request waiver of the letter of approval or license by the geomembrane Manufacturer. Technical Specification Section 02770 was affected. This DCN was approved by the Regulatory Agency on 24 June 2003.

GeoSyntec also finalized the memorandum to Fluor Fernald on DCN No. 20104-013 with respect to the Manufacturer's warranty and availability to provide technical support during installation.

GeoSyntec reviewed progress survey certification data for the Cell 2 final cover compacted clay cap during the report period.

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 06 JULY 03

WEEKLY REPORT NO. 307

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. Five samples were collected during the report period. A total of 25 samples have been collected to date.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 construction debris in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored the deployment of geosynthetics for the Cell 2 final cover. The surface of the compacted clay cap was inspected prior to geosynthetics deployment to ensure the removal of loose rocks and elimination of desiccation cracks.

Phase V – Cell 6 Liner Construction

CQC monitored placement, compaction, and stabilization of clay liner material. Moisture/density tests were performed on the compacted clay liner as per project specifications. CQC also monitored the installation of the Cell 6 secondary liner penetration boxes.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 30 June 2003 covered preventing heat stress.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. K. Herrick,
7. R. Hastie,
8. S. Schaeffer,
9. D. Evans, and
10. Sheila Abney

STOCKPILE 03-1

Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
			pcf	%M	pcf	%M							
LP03-5	1500	14.2	119.9 121.2	13.2 12.8	130.5 131.6	10.0 9.7	31	15	16	71.4	29.0	(CL) Lean Clay w/sand	1.00E-07
LP03-6	3000	13.9	120.6 122.0	13.1 12.7	— —	— —	30	16	14	70.8	29.5	(CL) Lean Clay w/sand	—
LP03-7	4500	13.2	118.0 119.5	14.8 14.2	129.4 130.7	10.9 10.5	33	16	17	71.1	26.0	(CL) Lean Clay w/sand	—
LP03-8	6000	18.3	118.0 118.6	14.3 14.1	— —	— —	30	13	17	68.4	22.0	(CL) Sandy Lean Clay	—
LP03-9	7500	17.4	116.8 117.8	15.2 14.8	126.0 126.9	11.2 10.9	35	17	18	76.0	27.0	(CL) Lean Clay w/sand	—
LP03-10	9000	14.4	117.6 118.7	14.8 14.4	— —	— —	31	15	16	70.6	29.0	(CL) Lean Clay w/sand	—

Reported total yards, surveyed:	9,586		
Converted total yards in place:	8,282		
Average Stockpile Moisture:	15.2		
Average Corrected Standard Proctor:	119.6	@	13.8
Average Corrected Modified Proctor:	129.7	@	10.4
Cumulative cubic yards:	8,282		
Composite Hydraulic Conductivity:	pend		

STOCKPILE 03-2

Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
			pcf	%M	pcf	%M							
LP03-11	1500	12.1	117.3 118.6	14.0 13.6	127.8 128.9	10.5 10.2	32	16	16	66.9	22.0	(CL) Sandy Lean Clay	
LP03-12	3000	12.2	122.6 124.1	12.9 12.4	— —	— —	33	14	19	69.8	25.5	(CL) Sandy Lean Clay	
LP03-13	4500	12.6	117.1 118.4	14.7 14.2	— —	— —	33	16	17	68.3	25.0	(CL) Sandy Lean Clay	
LP03-14	6000	13.5	119.9 121.3	13.6 13.1	131.1 132.3	9.5 9.2	31	14	17	68.4	24.0	(CL) Sandy Lean Clay	pend
LP03-15	7500	11.7	121.0 122.8	13.0 12.4	— —	— —	30	15	15	66.6	23.0	(CL) Sandy Lean Clay	
LP03-16	9000	12.1	120.7 121.8	13.1 12.7	132.4 133.3	9.6 9.3	29	15	14	69.7	25.0	(CL) Sandy Lean Clay	
LP03-18	9000+	12.2	119.0 120.4	13.3 12.8	131.0 132.2	10.0 9.7	29	14	15	69.9	25.0	(CL) Sandy Lean Clay	

Reported total yards, surveyed:	11,435		
Converted total yards in place:	9,880		
Average Stockpile Moisture:	12.3		
Average Corrected Standard Proctor:	121.1	@	13.0
Average Corrected Modified Proctor:	131.7	@	9.6
Cumulative cubic yards:	18,162		
Composite Hydraulic Conductivity:			

STOCKPILE 03-3

Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
			pcf	%M	pcf	%M							
LP03-17	1500	15.9	118.4 120.7	13.5 12.7	130.4 132.3	10.4 9.8	30	15	15	64.0	25.0	(CL) Sandy Lean Clay	
LP03-19	3000	14.1	118.2 121.9	13.5 12.3	— —	— —	31	15	16	67.4	pend	(CL) Sandy Lean Clay	
LP03-20	4500	13.8	121.0 122.6	13.1 12.6	130.0 131.4	10.0 9.6	pend	pend	pend	68.2			
LP03-21	6000	12.7	119.0 120.4	14.2 13.7	— —	— —	pend	pend	pend	71.9			
LP03-22	7500	13.1	119.6 122.6	13.0 12.0	130.3 132.9	10.2 9.5	pend	pend	pend	70.6			
LP03-23	9000	13.0	119.0 120.3	13.9 13.5	— —	— —	30	14	16	72.4		(CL) Lean clay w/sand	

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture: 13.8
Average Corrected Standard Proctor: 121.4 @ 12.8
Average Corrected Modified Proctor: 132.2 @ 9.6
Cumulative cubic yards:
Composite Hydraulic Conductivity:

STOCKPILE 03-4

Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
			pcf	%M	pcf	%M							
LP03-24	1500	15.6	118.2 119.5	14.3 13.8	128.3 129.4	10.6 10.3	32	15	17	73.7			
LP03-25	3000	12.4	118.7 120.3	13 12.5	— —	— —	29	15	14	70.0			
	4500												
	6000												
	7500												
	9000												

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

GeoSyntec Consultants

FLUOR FERNALD

EEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ3211 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 13 JULY 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 308

The report period covered by Weekly Report No. 308 is from Monday, 7 July 2003 through Sunday, 13 July 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 4.7 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material was suspended due to heavy rainfall during the report period. Approximately 31,500 cubic yards have been screened to date.

Phase V - Impacted Material Placement

Placement of impacted materials in the On Site Disposal Facility (OSDF) was suspended due to heavy rains during the report period.

Category	Cell 3	Cell 4	Cell 5	Total
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
Total	**0**	**0**	**0**	**0**

PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 13 JULY 03

WEEKLY REPORT NO. 308

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

Installation of the GCC and GML for the Cell 2 final cover was completed on Saturday, 12 July and Sunday, 13 July, respectively. An approximate total of 319,270 ft^2 of geomembrane liner (GML) was deployed to complete the cap for the Cell 2 final cover.

Phase V – Cell 6 Liner Construction

Placement of compacted clay liner continued during the report period. Oversized rocks from the clay liner surface were continuously removed as the material was stabilized.

FFC completed the installation of the liner penetration boxes and pipes for Cell 6 during the last report period. Pressure testing for the LTS pipes and penetration boxes was performed and completed during the report period.

Construction Submittal Review

GeoSyntec Submittals

The following submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
SWP-002, Rev. 6	OSDF Safe Work Plan	12 Jul 2003	No Comments

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 2	As-Built Area 4 Cell 2	7 Jul 2003	No Comments
02100-005, Rev. 3	Cell 2 As-Built Top of Clay Cap	7 Jul 2003	No Comments
02770-011, Rev. 1	Cell 2 and Cell 6 Electrical Leak Detection Testing Work Plan	10 Jul 2003	No Comments

PER: C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 13 JULY 03

WEEKLY REPORT NO. 308

Construction Submittal Review (cont'd)

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 0	Cell 6 Subgrade As-Built Drawing	7 Jul 2003	No Comments
02100-002, Rev. 2	Cell 6 Proposed Top of Clay Control Point Drawing	7 Jul 2003	No Comments
02770-013, Rev. 1	Geosynthetics QC Plan (Supplemental Sheet adding a Note)	12 Jul 2003	No Comments

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

DCN No. 20104-013, initiated by Fluor Fernald, was approved as-noted by GeoSyntec. This DCN provided an alternative requirement for the geosynthetics Installer to request waiver of the letter of approval or license by the geomembrane Manufacturer. Technical Specification Section 02770 was affected. This DCN was approved by the Regulatory Agency on 24 June 2003.

GeoSyntec also finalized the memorandum to Fluor Fernald on DCN No. 20104-013 with respect to the Manufacturer's warranty and availability to provide technical support during installation.

GeoSyntec had a meeting with Fluor Fernald on 11 July 2003 on impacted material placement technical issues, including handling and placement of transite panels and potential placement of impacted material placement during the winter period.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 13 JULY 03

WEEKLY REPORT NO. 308

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were no samples collected during the report period. A total of 25 samples have been collected to date. A preliminary summary of results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

There were no CQC activities in the OSDF due to heavy rains.

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored the deployment of geosynthetics for the Cell 2 final cover. The surface of the compacted clay cap was inspected prior to geosynthetics deployment to ensure the removal of loose rocks and elimination of desiccation cracks. CQC also collected destructive seam samples from the installed geomembrane seams and shipped offsite for geosynthetic laboratory testing.

Phase V – Cell 6 Liner Construction

CQC monitored placement, compaction, and stabilization of clay liner material. Moisture/density tests were performed on the compacted clay liner as per project specifications. CQC also monitored pressure testing for Cell 6 secondary liner penetration boxes and transmission pipes.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 8 July 2003 covered "What Not To Do With Your Hands".

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. K. Herrick,
7. R. Hastie,
8. S. Schaeffer,
9. D. Evans, and
10. Sheila Abney

STOCKPILE 03-1

Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
			pcf	%M	pcf	%M							
LP03-5	1500	14.2	119.9 121.2	13.2 12.8	130.5 131.6	10.0 9.7	31	15	16	71.4	29.0	(CL) Lean Clay w/sand	1.00E-07
LP03-6	3000	13.9	120.6 122.0	13.1 12.7	— —	— —	30	16	14	70.8	29.5	(CL) Lean Clay w/sand	—
LP03-7	4500	13.2	118.0 119.5	14.8 14.2	129.4 130.7	10.9 10.5	33	16	17	71.1	26.0	(CL) Lean Clay w/sand	—
LP03-8	6000	18.3	118.0 118.6	14.3 14.1	— —	— —	30	13	17	68.4	22.0	(CL) Sandy Lean Clay	—
LP03-9	7500	17.4	116.8 117.8	15.2 14.8	126.0 126.9	11.2 10.9	35	17	18	76.0	27.0	(CL) Lean Clay w/sand	—
LP03-10	9000	14.4	117.6 118.7	14.8 14.4	— —	— —	31	15	16	70.6	29.0	(CL) Lean Clay w/sand	—

Reported total yards, surveyed:	9,586		
Converted total yards in place:	8,282		
Average Stockpile Moisture:	15.2		
Average Corrected Standard Proctor:	119.6	@	13.8
Average Corrected Modified Proctor:	129.7	@	10.4
Cumulative cubic yards:	8,282		
Composite Hydraulic Conductivity:	pend		

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STOCKPILE 03-2

Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
			pcf	%M	pcf	%M							
LP03-11	1500	12.1	117.3 118.6	14.0 13.6	127.8 128.9	10.5 10.2	32	16	16	66.9	22.0	(CL) Sandy Lean Clay	—
LP03-12	3000	12.2	122.6 124.1	12.9 12.4	— —	— —	33	14	19	69.8	25.5	(CL) Sandy Lean Clay	—
LP03-13	4500	12.6	117.1 118.4	14.7 14.2	— —	— —	33	16	17	68.3	25.0	(CL) Sandy Lean Clay	—
LP03-14	6000	13.5	119.9 121.3	13.6 13.1	131.1 132.3	9.5 9.2	31	14	17	68.4	24.0	(CL) Sandy Lean Clay	pend
LP03-15	7500	11.7	121.0 122.8	13.0 12.4	— —	— —	30	15	15	66.6	23.0	(CL) Sandy Lean Clay	—
LP03-16	9000	12.1	120.7 121.8	13.1 12.7	132.4 133.3	9.6 9.3	29	15	14	69.7	25.0	(CL) Sandy Lean Clay	—
LP03-18	9000+	12.2	119.0 120.4	13.3 12.8	131.0 132.2	10.0 9.7	29	14	15	69.9	25.0	(CL) Sandy Lean Clay	—

Reported total yards, surveyed:	11,435		
Converted total yards in place:	9,880		
Average Stockpile Moisture:	12.3		
Average Corrected Standard Proctor:	121.1	@	13.0
Average Corrected Modified Proctor:	131.7	@	9.6
Cumulative cubic yards:	18,162		
Composite Hydraulic Conductivity:	pend		

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STOCKPILE 03-4

Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
			pcf	%M	pcf	%M							
LP03-24	1500	15.6	118.2 119.5	14.3 13.8	128.3 129.4	10.6 10.3	32	15	17	73.7	pend	(CL) Lean Clay w/sand	pend
LP03-25	3000	12.4	118.7 120.3	13 12.5	— —	— —	29	15	14	70.0	pend	(CL) Lean Clay w/sand	
LP03-29	4500	13.6											
LP03-30	6000	13.7											
LP03-31	7500	14.4											
LP03-32	9000	14.7											

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture: 14.1
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

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GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 20 JULY 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
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Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 309

The report period covered by Weekly Report No. 309 is from Monday, 14 July 2003 through Sunday, 20 July 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 0.8 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Approximately 12,000 cubic yards of material were screened during the week and 31,500 cubic yards have been screened to date.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	211	193	0	404
2	108	79	0	187
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
Total	**319**	**272**	**0**	**591**

PER:C. Sukow/K. Badu-Tweneboah

WEEKLY REPORT NO. 309

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

The geomembrane liner (GML) was destructively and non-destructively tested, detailed, and repairs completed by The Istre Company (TIC) during the report period. Deployment of geotextile and placement of No.78 cover drainage layer over the GML began on 17 July 2003.

Leak Location Services, Inc. (LLSI) performed the leak detection testing of the Cell 2 GML from the 15th through the 17th of July 2003. Five leaks were located, repaired by TIC, and re-tested by LLSI to complete the installation of the Cell 2 final cover geomembrane cap.

Phase V – Cell 6 Liner Construction

Placement of compacted clay liner was completed during the report period. Oversized rocks from the clay liner surface were continuously removed as the material was stabilized. Fluor Fernald Construction (FFC) also began construction of the haul road/access ramp to Cell 4 from the OMTA area. Construction is ongoing.

TIC began deployment of the secondary geosynthetic clay liner (GCL) and GML on the southeast corner of Cell 6. Approximately 28,930 square feet were deployed during the report period.

Construction Submittal Review

GeoSyntec Submittals

The following submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
GEO-001, Rev. 0	Fernald Substance Abuse Program	16 Jul 2003	No Comments
GEO-004, Rev. 51	June '03 Monthly Manpower Report	16 Jul 2003	No Comments

EEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 20 JULY 03

WEEKLY REPORT NO. 309

Construction Submittal Review (cont'd)

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 4	Cell 2 As-Built Top of Clay Cap	17 Jul 2003	A

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 1	As-Built Cell 3 Top Select	16 Jul 2003	A

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec had a meeting with Fluor Fernald on 11 July 2003 on impacted material placement technical issues, including handling and placement of transite panels and potential placement of impacted material placement during the winter period. GeoSyntec is working on responses to some of the questions/requests made during the meeting.

GeoSyntec reviewed progress survey certification points for Cell 6 top of compacted clay liner during the period. The southeast corner of Cell 6, including the east half of the Cell 6/Cell 7 inter cell berm was verbally approved for deployment of the secondary liner geosynthetics.

EEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 20 JULY 03

WEEKLY REPORT NO. 309

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were 8 samples collected during the report period. A total of 33 samples have been collected to date. A preliminary summary of results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 construction debris in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored the destructive and non-destructive testing and repairs on the Cell 2 cap. Testing of all destructive seam samples were completed during the period. CQC also monitored the leak detection testing of the geomembrane cap, including repairs to the leaks found, and subsequent leak detection testing.

CQC monitored the deployment of the geotextile cushion layer, including sewing of panels.

CQC also periodically monitored the placement of the cover drainage layer material, including construction of a minimum 3-ft thick haul road of the underlying geosynthetics, and the use of an LGP dozer for spreading and tracking of the material.

Phase V – Cell 6 Liner Construction

CQC monitored the deployment of geosynthetics for the Cell 6 liner. The surface of the compacted clay liner was inspected prior to geosynthetics deployment to ensure the removal of loose rocks and elimination of desiccation cracks. CQC also marked destructive seam samples from the installed geomembrane seams.

CQC monitored and performed moisture/density tests on the construction of the OMTA/Cell 4 haul road. CQC also witnessed the Cell 6 penetration boxes being filled with granular bentonite.

PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 20 JULY 03

WEEKLY REPORT NO. 309

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 14 July 2003 covered proper entering and exiting of heavy equipment.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. K. Herrick,
7. R. Hastie,
8. S. Schaeffer,
9. D. Evans, and
10. Sheila Abney

STOCKPILE 03-1

Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
			pcf	%M	pcf	%M							
LP03-5	1500	14.2	119.9 121.2	13.2 12.8	130.5 131.6	10.0 9.7	31	15	16	71.4	29.0	(CL) Lean Clay w/sand	1.0E-07
LP03-6	3000	13.9	120.6 122.0	13.1 12.7	— —	— —	30	16	14	70.8	29.5	(CL) Lean Clay w/sand	—
LP03-7	4500	13.2	118.0 119.5	14.8 14.2	129.4 130.7	10.9 10.5	33	16	17	71.1	26.0	(CL) Lean Clay w/sand	—
LP03-8	6000	18.3	118.0 118.6	14.3 14.1	— —	— —	30	13	17	68.4	22.0	(CL) Sandy Lean Clay	—
LP03-9	7500	17.4	116.8 117.8	15.2 14.8	126.0 126.9	11.2 10.9	35	17	18	76.0	27.0	(CL) Lean Clay w/sand	—
LP03-10	9000	14.4	117.6 118.7	14.8 14.4	— —	— —	31	15	16	70.6	29.0	(CL) Lean Clay w/sand	—

Reported total yards, surveyed:	9,586		
Converted total yards in place:	8,282		
Average Stockpile Moisture:	15.2		
Average Corrected Standard Proctor:	119.6	@	13.8
Average Corrected Modified Proctor:	129.7	@	10.4
Cumulative cubic yards:	8,282		
Composite Hydraulic Conductivity:	5.1E-08		

FOR INFORMATION ONLY
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

STOCKPILE 03-2

Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
			pcf	%M	pcf	%M							
LP03-11	1500	12.1	117.3 118.6	14.0 13.6	127.8 128.9	10.5 10.2	32	16	16	66.9	22.0	(CL) Sandy Lean Clay	—
LP03-12	3000	12.2	122.6 124.1	12.9 12.4	— —	— —	33	14	19	69.8	25.5	(CL) Sandy Lean Clay	—
LP03-13	4500	12.6	117.1 118.4	14.7 14.2	— —	— —	33	16	17	68.3	25.0	(CL) Sandy Lean Clay	—
LP03-14	6000	13.5	119.9 121.3	13.6 13.1	131.1 132.3	9.5 9.2	31	14	17	68.4	24.0	(CL) Sandy Lean Clay	3.2E-08
LP03-15	7500	11.7	121.0 122.8	13.0 12.4	— —	— —	30	15	15	66.6	23.0	(CL) Sandy Lean Clay	—
LP03-16	9000	12.1	120.7 121.8	13.1 12.7	132.4 133.3	9.6 9.3	29	15	14	69.7	25.0	(CL) Sandy Lean Clay	—
LP03-18	9000+	12.2	119.0 120.4	13.3 12.8	131.0 132.2	10.0 9.7	29	14	15	69.9	25.0	(CL) Sandy Lean Clay	—

Reported total yards, surveyed:	11,435		
Converted total yards in place:	9,880		
Average Stockpile Moisture:	12.3		
Average Corrected Standard Proctor:	121.1	@	13.0
Average Corrected Modified Proctor:	131.7	@	9.6
Cumulative cubic yards:	18,162		
Composite Hydraulic Conductivity:	2.9E-08		

FOR INFORMATION ONLY
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

000102

5367

STOCKPILE 03-3

Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
			pcf	%M	pcf	%M							
LP03-17	1500	15.9	118.4 120.7	13.5 12.7	130.4 132.3	10.4 9.8	30	15	15	64.0	25.0	(CL) Sandy Lean Clay	—
LP03-19	3000	14.1	118.2 121.9	13.5 12.3	— —	— —	31	15	16	67.4	26.0	(CL) Sandy Lean Clay	—
LP03-20	4500	13.8	121.0 122.6	13.1 12.6	130.0 131.4	10.0 9.6	26	14	12	68.2	21.0	(CL) Sandy Lean Clay	5.9E-08
LP03-21	6000	12.7	119.0 120.4	14.2 13.7	— —	— —	31	11	20	71.9	25.5	(CL) Lean Clay w/sand	—
LP03-22	7500	13.1	119.6 122.6	13.0 12.0	130.3 132.9	10.2 9.5	32	16	16	70.6	26.0	(CL) Lean Clay w/sand	—
LP03-23	9000	13.0	119.0 120.3	13.9 13.5	— —	— —	30	14	16	72.4	27.0	(CL) Lean clay w/sand	—

Reported total yards, surveyed:	9,761		
Converted total yards in place:	8,434		
Average Stockpile Moisture:	13.8		
Average Corrected Standard Proctor:	121.4	@	12.8
Average Corrected Modified Proctor:	132.2	@	9.6
Cumulative cubic yards:	26,596		
Composite Hydraulic Conductivity:	7.5E-08		

FOR INFORMATION ONLY
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

000103

5367

STOCKPILE 03-4

Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
			pcf	%M	pcf	%M							
LP03-24	1500	15.6	118.2 119.5	14.3 13.8	128.3 129.4	10.6 10.3	32	15	17	73.7	26.5	(CL) Lean Clay w/sand	3.4E-08
LP03-25	3000	12.4	118.7 120.3	2.0 12.5	— —	— —	29	15	14	70.0	23.0	(CL) Lean Clay w/sand	—
LP03-29	4500	13.6	120.3 121.8	13.2 12.7	pend	pend	30	15	15	70.7	pend	(CL) Lean Clay w/sand	—
LP03-30	6000	13.7	118.6 119.8	14.3 13.9	— —	— —	30	15	15	70.2	pend	(CL) Lean Clay w/sand	—
LP03-31	7500	14.4	pend	pend	pend	pend	30	15	15	72.2	pend	(CL) Lean Clay w/sand	—
LP03-32	9000	14.7	119.0 120.0	14.0 13.6	— —	— —	30	16	14	70.3	pend	(CL) Lean Clay w/sand	—

Reported total yards, surveyed: 9,265
Converted total yards in place: 8,005
Average Stockpile Moisture: 14.1
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards: 34,601
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

STOCKPILE 03-5

Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
			pcf	%M	pcf	%M							
LP03-33	1500	14.1	118.7 119.7	14.1 13.8	129.0 129.8	10.5 10.3	30	16	14	72.9	pend	(CL) Lean Clay w/sand	
LP03-34	3000	13.3					29	16	13	72.6	pend	(CL) Lean Clay w/sand	
LP03-35	4500	15.1					28	16	12	68.4	pend	(CL) Sandy Lean Clay	
LP03-36	6000	16.9					32	17	15	70.3	pend	(CL) Lean Clay w/sand	
LP03-37	7500	14.1											
LP03-38	9000	pend											

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 27 JULY 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 310

The report period covered by Weekly Report No. 310 is from Monday, 21 July 2003 through Sunday, 27 July 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 0.8 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Flour Fernald Construction (FFC) completed stockpile SP03-5 and started screening for SP03-6. Approximately 7,500 cubic yards of material were screened during the week and 39,000 cubic yards have been screened to date. (See Stockpile Tables 03-4 through 03-7).

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	402	181	0	583
2	20	0	0	20
3	0	0	0	0
4	0	28	0	28
5	0	0	0	0
Total	422	209	0	631

PER:C. Sukow/K. Badu-Tweneboah

WEEKLY REPORT NO. 310

Construction Progress (cont'd)

Phase V - Impacted Material Placement (Cont'd)

Placement of bundles of Category 3 transite panels also continued in Cell 5 during the report period, but is not included in the table on page 1.

Phase IV2 – Cell 2 Final Cover Construction

Deployment of geotextile cushion and placement of No.78 cover drainage layer over the GML continued during the report period. The Cell 2 final cover is 100 percent covered with geotextile and approximately 65 percent covered with the cover drainage layer material. Placement of the cover drainage layer material is ongoing.

Phase V – Cell 6 Liner Construction

The Istre Company (TIC) continued deployment of the secondary geosynthetic clay liner (GCL) and GML on the east floor of Cell 6 and the Cell 6/Cell 7 intercell berm. Approximately 147,930 square feet have been installed to date.

Construction Submittal Review

GeoSyntec Submittals

The following submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

PER: C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 27 JULY 03

WEEKLY REPORT NO. 310

Construction Submittal Review (cont'd)

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec sent responses, via a 24 July 2003 E-mail, to Fluor Fernald on impacted material placement technical issues, including handling and placement of transite panels and potential placement of impacted material placement during the winter period that were discussed during the 11 July 2003 meeting.

GeoSyntec reviewed progress survey certification points for Cell 6 top of compacted clay liner during the period. The eastern half of Cell 6, including cell floor and east slopes, was verbally approved for deployment of the secondary liner geosynthetics.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were 5 samples collected during the report period. A total of 38 samples have been collected to date. A preliminary summary of results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 construction debris in Cell 3 and Cell 4. CQC also monitored the placement of Category 3 transite panels in Cell 5. Moisture/density tests were performed on lifts of Category 1 soil as required.

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GO3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 27 JULY 03

WEEKLY REPORT NO. 310

Construction Quality Control (CQC) (Cont'd)

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored the deployment of the geotextile cushion layer, including sewing of panels. Repairs were located and marked as required.

CQC also periodically monitored the placement of the cover drainage layer material, including construction of a minimum 3-ft thick haul road of the underlying geosynthetics, and the use of an LGP dozer for spreading and tracking of the material.

Phase V – Cell 6 Liner Construction

CQC monitored the deployment of geosynthetics for the Cell 6 liner. The surface of the compacted clay liner was inspected prior to geosynthetics deployment to ensure the removal of loose rocks and elimination of desiccation cracks. CQC also marked destructive seam samples from the installed geomembrane seams.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 22 July 2003 covered stresses in the work place.

Ken Herrick of GeoSyntec CQC slipped, fell on his back and injured his right leg on 24 July 2003 around 3:30 p.m. after completing nuclear density testing in Cell 4. He was taken to Medical for treatment and to an off-site medical facility for X-rays. His right leg was swollen and was diagnosed to be "compartment syndrome".

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. K. Herrick,
7. R. Hastie,
8. S. Schaeffer,
9. D. Evans, and
10. Sheila Abney

STOCKPILE 03-4

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/1/2003	LP03-24	1500	15.6	118.2 119.5	14.3 13.8	128.3 129.4	10.6 10.3	32	15	17	73.7	26.5	(CL) Lean Clay w/sand	3.4E-08
7/3/2003	LP03-25	3000	12.4	118.7 120.3	2.0 12.5	— —	— —	29	15	14	70.0	23.0	(CL) Lean Clay w/sand	—
7/14/2003	LP03-29	4500	13.6	120.3 121.8	13.2 12.7	130.0 131.3	10.1 9.7	30	15	15	70.7	25.0	(CL) Lean Clay w/sand	—
7/15/2003	LP03-30	6000	13.7	118.6 119.8	14.3 13.9	— —	— —	30	15	15	70.2	29.0	(CL) Lean Clay w/sand	—
7/15/2003	LP03-31	7500	14.4	118.2 119.0	14.2 13.9	pend	pend	30	15	15	72.2	29.0	(CL) Lean Clay w/sand	—
7/15/2003	LP03-32	9000	14.7	119.0 120.0	14.0 13.6	— —	— —	30	16	14	70.3	28.0	(CL) Lean Clay w/sand	—

Reported total yards, surveyed:	9,265		
Converted total yards in place:	8,005		
Average Stockpile Moisture:	14.1		
Average Corrected Standard Proctor:	120.1	@	13.4
Average Corrected Modified Proctor:			
Cumulative cubic yards:	34,601		
Composite Hydraulic Conductivity:			

FOR INFORMATION ONLY

STOCKPILE 03-5

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/16/2003	LP03-33	1500	14.1	118.7 119.7	14.1 13.8	129.0 129.8	10.5 10.3	30	16	14	72.9	28.5	(CL) Lean Clay w/sand	
7/17/2003	LP03-34	3000	13.3	121.0 122.0	12.9 12.6	— —	— —	29	16	13	72.6	28.0	(CL) Lean Clay w/sand	
7/18/2003	LP03-35	4500	15.1	121.5 122.8	12.3 11.9	132.6 133.7	9.1 8.8	28	16	12	68.4	28.0	(CL) Sandy Lean Clay	
7/18/2003	LP03-36	6000	16.9	114.0 116.2	15.0 14.2	— —	— —	32	17	15	70.3	29.0	(CL) Lean Clay w/sand	
7/23/2003	LP03-37	7500	14.1	119.5 122.0	13.5 12.7	pend	pend	30	16	14	65.5		(CL) Sandy Lean Clay	
7/24/2003	LP03-38	9000	12.9	121.5 122.0	12.4 12.2	— —	— —	29	16	13	70.3		(CL) Lean Clay w/sand	

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture: 14.4
Average Corrected Standard Proctor: 120.8 @ 12.9
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

STOCKPILE 03-6

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/25/2003	LP03-39	1500	14.3	118.7 120.4	13.5 12.9	128.7 130.2	10.0 9.6				70.7			
7/25/2003	LP03-40	3000	13.0								70.0			
7/25/2003	LP03-41	4500	11.6								67.5			
7/30/2003	LP03-42	6000	12.2											
7/30/2003	LP03-43	7500	13.0											
7/31/2003	LP03-44	9000	12.0											

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture: 12.7
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

STOCKPILE 03-7

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/31/2003	LP03-45	1500	13.2											
8/1/2003	LP03-46	3000	pend											
		4500												
		6000												
		7500												
		9000												

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 03 AUGUST 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 311

The report period covered by Weekly Report No. 311 is from Monday, 28 July 2003 through Sunday, 3 August 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 1.0 inches of rain recorded .

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Flour Fernald Construction (FFC) completed stockpile SP03-6 and started screening for SP03-7. Approximately 9,000 cubic yards of material were screened during the week and 48,000 cubic yards (estimated ICY) have been screened to date.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	513	365	0	878
2	72	5	0	77
3	0	0	0	0
4	0	28	0	28
5	0	0	0	0
Total	585	370	0	955

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 03 AUGUST 03

WEEKLY REPORT NO. 311

Construction Submittal Review (cont'd)

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-002, Rev. 5	Proposed Cell 2 Top of Cover Drainage Layer	29 July 2003	No Comments
02770-012, Rev. 0	Electrical Leak Detection Testing Report	30 July 2003	No Comments
02772-001, Rev. 0	Cell 2 Subgrade Acceptance Certs.	31 July 2003	A w/Comments

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec reviewed progress survey certification points for Cell 6 top of compacted clay liner during the period. The south-eastern half of Cell 6, including cell floor and west slopes, but before the drainage corridor, was verbally approved for deployment of the secondary liner geosynthetics.

GeoSyntec reviewed progress survey certification points for Cell 2 top of cover drainage layer during the report period.

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GO3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 03 AUGUST 03

WEEKLY REPORT NO. 311

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were 5 samples collected during the report period. A total of 38 samples have been collected to date. A preliminary summary of results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 construction debris in Cell 3 and Cell 4. CQC also monitored the placement of Category 3 transite panels in Cell 5. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored the placement of the cover drainage layer and biointrusion barrier materials, including construction of a minimum 3-ft thick haul road over the underlying geosynthetics, and the use of an LGP dozer for spreading and tracking of the material.

Phase V – Cell 6 Liner Construction

CQC monitored the deployment of geosynthetics for the Cell 6 liner. The surface of the compacted clay liner was inspected prior to geosynthetics deployment to ensure the removal of loose rocks and elimination of desiccation cracks. CQC also marked destructive seam samples from the installed geomembrane seams .

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 28 July 2003 covered slips, trips, and falls due to K. Herrick's injury on 24 July.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 03 AUGUST 03

WEEKLY REPORT NO. 311

Health and Safety (cont'd)

GeoSyntec also attended accountability meetings with Fluor Fernald upper management on 28 and 29 July 2003 to discuss Ken Herrick's injury, which was finally classified as an OSHA recordable injury.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. K. Herrick,
7. R. Hastie,
8. S. Schaeffer,
9. D. Evans, and
10. Sheila Abney

STOCKPILE 03-4

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/1/2003	LP03-24	1500	15.6	118.2 119.5	14.3 13.8	128.3 129.4	10.6 10.3	32	15	17	73.7	26.5	(CL) Lean Clay w/sand	3.4E-08
7/3/2003	LP03-25	3000	12.4	118.7 120.3	2.0 12.5	— —	— —	29	15	14	70.0	23.0	(CL) Lean Clay w/sand	—
7/14/2003	LP03-29	4500	13.6	120.3 121.8	13.2 12.7	130.0 131.3	10.1 9.7	30	15	15	70.7	25.0	(CL) Lean Clay w/sand	—
7/15/2003	LP03-30	6000	13.7	118.6 119.8	14.3 13.9	— —	— —	30	15	15	70.2	29.0	(CL) Lean Clay w/sand	—
7/15/2003	LP03-31	7500	14.4	118.2 119.0	14.2 13.9	130.0 130.7	10.1 9.9	30	15	15	72.2	29.0	(CL) Lean Clay w/sand	—
7/15/2003	LP03-32	9000	14.7	119.0 120.0	14.0 13.6	— —	— —	30	16	14	70.3	28.0	(CL) Lean Clay w/sand	—

Reported total yards, surveyed:	9,265		
Converted total yards in place:	8,005		
Average Stockpile Moisture:	14.1		
Average Corrected Standard Proctor:	120.1	@	13.4
Average Corrected Modified Proctor:	130.5	@	10.0
Cumulative cubic yards:	34,601		
Composite Hydraulic Conductivity:			

FOR INFORMATION ONLY

STOCKPILE 03-5

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/16/2003	LP03-33	1500	14.1	118.7 119.7	14.1 13.8	129.0 129.8	10.5 10.3	30	16	14	72.9	28.5	(CL) Lean Clay w/sand	
7/17/2003	LP03-34	3000	13.3	121.0 122.0	12.9 12.6	— —	— —	29	16	13	72.6	28.0	(CL) Lean Clay w/sand	
7/18/2003	LP03-35	4500	15.1	121.5 122.8	12.3 11.9	132.6 133.7	9.1 8.8	28	16	12	68.4	28.0	(CL) Sandy Lean Clay	
7/18/2003	LP03-36	6000	16.9	114.0 116.2	15.0 14.2	— —	— —	32	17	15	70.3	29.0	(CL) Lean Clay w/sand	
7/23/2003	LP03-37	7500	14.1	119.5 122.0	13.5 12.7	131.0 133.1	9.0 8.5	30	16	14	65.5		(CL) Sandy Lean Clay	
7/24/2003	LP03-38	9000	12.9	121.5 122.0	12.4 12.2	— —	— —	29	16	13	70.3		(CL) Lean Clay w/sand	

Reported total yards, surveyed:	9,806		
Converted total yards in place:	8,472		
Average Stockpile Moisture:	14.4		
Average Corrected Standard Proctor:	120.8	@	12.9
Average Corrected Modified Proctor:	132.2	@	9.2
Cumulative cubic yards:	43,073		
Composite Hydraulic Conductivity:			

FOR INFORMATION ONLY

STOCKPILE 03-6

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/25/2003	LP03-39	1500	14.3	118.7 120.4	13.5 12.9	128.7 130.2	10.0 9.6	31	16	15	70.7		(CL) Lean Clay w/sand	
7/25/2003	LP03-40	3000	13.0			— —	— —	31	16	15	70.0		(CL) Lean Clay w/sand	
7/25/2003	LP03-41	4500	11.6	120.7 121.7	13.7 13.3	132.4 133.3	9.4 9.2	27	16	11	67.5		(CL) Sandy Lean Clay	
7/30/2003	LP03-42	6000	12.2			— —	— —	27	16	11	67.9		(CL) Sandy Lean Clay	
7/30/2003	LP03-43	7500	13.0			132.5 133.0	9.7 9.5	27	15	12	67.6		(CL) Sandy Lean Clay	
7/31/2003	LP03-44	9000	12.0			— —	— —	28	15	13	67.8		(CL) Sandy Lean Clay	

Reported total yards, surveyed: 9,285
Converted total yards in place: 8,022
Average Stockpile Moisture: 12.7
Average Corrected Standard Proctor:
Average Corrected Modified Proctor: 132.2 @ 9.4
Cumulative cubic yards: 51,095
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

STOCKPILE 03-7

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/31/2003	LP03-45	1500	13.2								67.8			
8/1/2003	LP03-46	3000	pend								70.8			
8\1\2003	LP03-47	4500	pend											
		6000												
		7500												
		9000												

Reported total yards, surveyed: 9,655
Converted total yards in place: 8,342
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards: 59,437
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 10 AUGUST 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 312

The report period covered by Weekly Report No. 312 is from Monday, 4 August 2003 through Sunday, 10 August 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 0.5 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Flour Fernald Construction (FFC) completed stockpile SP03-7 and started screening for SP03-8. Approximately 9,000 cubic yards of material were screened during the week and 57,000 cubic yards (estimated ICY) have been screened to date.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	702	201	0	903
2	45	30	0	75
3	0	0	0	0
4	0	9	0	9
5	0	0	0	0
Total	747	240	0	987

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 10 AUGUST 03

WEEKLY REPORT NO. 312

Construction Progress (cont'd)

Phase V - Impacted Material Placement (Cont'd)

Placement of bundles of Category 3 transite panels also continued in Cell 5 during the report period, but is not included in the table on page 1.

Phase IV2 – Cell 2 Final Cover Construction

Placement of Type D Dumped Rock Fill (rip-rap) for the biointrusion barrier continued during the report period and is ongoing.

Phase V – Cell 6 Liner Construction

The Istre Company (TIC) completed the deployment of the secondary geosynthetic clay liner (GCL) and GML for Cell 6. Approximately 303,940 square feet were deployed to complete the Cell 6 secondary liner. Field testing and repairs are ongoing.

TIC continued deployment of geotextile cushion over completed geomembrane liner in Cell 6. FFC followed closely behind covering the geotextile cushion with No. 78 stone for the leak detection system (LDS) drainage layer.

FFC also placed and compacted fill material for the east secondary anchor trench.

Construction Submittal Review

GeoSyntec Submittals

The following submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 10 AUGUST 03

WEEKLY REPORT NO. 312

Construction Submittal Review (cont'd)

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-002, Rev. 6	Proposed Cell 2 Top of Cover Drainage Layer	7 Aug 2003	No Comments
02225-001, Rev. 0	Specification Sheet for Bentonite Powder for Cell 6 liner & Cell 2 cap const.	6 Aug 2003	A

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec reviewed progress survey certification points for Cell 6 top of compacted clay liner during the period. The western and northeastern (from the drainage corridor) parts of Cell 6, including cell floor and west slopes, were verbally approved for deployment of the secondary liner geosynthetics.

GeoSyntec reviewed progress survey certification points for Cell 2 top of cover drainage layer during the report period.

GeoSyntec completed disposition of Nonconformance Report (NCR) No. 20104-003 that was written on the No. 78 aggregates for the Cell 2 cover drainage layer. Three of the eight samples collected and tested had more than 2 percent, by weight, of fines passing through the No. 200 sieve size. However, all samples met the minimum hydraulic conductivity (permeability) of 0.1 cm/s required by the project specifications. Therefore, the corrective action was to use as-is.

'EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 10 AUGUST 03

WEEKLY REPORT NO. 312

Design Clarifications and Modifications (cont'd)

Phase IV2 and Phase V Projects (cont'd)

GeoSyntec completed disposition of NCR No. 20105-001 that was written on the No. 78 aggregates for the Cell 6 granular drainage layer. Three of the ten samples collected and tested had more than 2 percent, by weight, of fines passing through the No. 200 sieve size. However, all samples met the minimum hydraulic conductivity (permeability) of 0.1 cm/s required by the project specifications. Therefore, the corrective action was to use as-is.

GeoSyntec assisted Fluor Fernald Engineering on the disposition of Fluor Fernald NCR No. 606 written by Fluor Fernald Quality Assurance on the installation of gravity-inlet structure (GIS) No. 11. Final disposition of this NCR will be completed next week.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were 6 samples collected during the report period. A total of 46 samples have been collected to date. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. CQC also monitored the placement of Category 3 transite panels in Cell 5. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored the placement of Type D Dumped Rock Fill (rip-rap) for the biointrusion barrier.

Phase V – Cell 6 Liner Construction

CQC monitored the deployment of geosynthetics for the Cell 6 liner. The surface of the compacted clay liner was inspected prior to geosynthetics deployment to ensure the removal of loose rocks and elimination of desiccation cracks. Geotextile seams were inspected to ensure continuous sewn seems without skips. CQC also marked destructive seam samples from the installed geomembrane seams.

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 10 AUGUST 03

WEEKLY REPORT NO. 312

Construction Quality Control (CQC) (cont'd)

Phase V – Cell 6 Liner Construction (cont'd)

Field nuclear density tests were performed on anchor trench fill as required.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 4 August 2003 covered 'Hazard Awareness'.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. K. Herrick,
7. R. Hastie,
8. S. Schaeffer,
9. D. Evans, and
10. Sheila Abney

STOCKPILE 03-6

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/25/2003	LP03-39	1500	14.3	118.7 120.4	13.5 12.9	128.7 130.2	10.0 9.6	31	16	15	70.7	pend	(CL) Lean Clay w/sand	pend
7/25/2003	LP03-40	3000	13.0	120.1 121.2	13.6 13.2	— —	— —	31	16	15	70.0	pend	(CL) Lean Clay w/sand	
7/25/2003	LP03-41	4500	11.6	120.7 121.7	13.7 13.3	132.4 133.3	9.4 9.2	27	16	11	67.5	pend	(CL) Sandy Lean Clay	
7/30/2003	LP03-42	6000	12.2	122.0 123.4	12.2 11.8	— —	— —	27	16	11	67.9	pend	(CL) Sandy Lean Clay	
7/30/2003	LP03-43	7500	13.0	122.9 123.5	12.1 11.9	132.5 133.0	9.7 9.5	27	15	12	67.6	pend	(CL) Sandy Lean Clay	
7/31/2003	LP03-44	9000	12.0	122.3 123.5	12.2 11.8	— —	— —	28	15	13	67.8	pend	(CL) Sandy Lean Clay	

Reported total yards, surveyed:	9,285		
Converted total yards in place:	8,022		
Average Stockpile Moisture:	12.7		
Average Corrected Standard Proctor:	122.3	@	12.5
Average Corrected Modified Proctor:	132.2	@	9.4
Cumulative cubic yards:	51,095		
Composite Hydraulic Conductivity:	pend		

FOR INFORMATION ONLY

14-Aug-03

STOCKPILE 03-7

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/31/2003	LP03-45	1500	13.2	121.0 123.3	13.0 12.2	131.8 133.8	9.9 9.3	29	14	15	67.8	pend	(CL) Sandy Lean Clay	pend
8/1/2003	LP03-46	3000	13.2	121.2 122.2	12.8 12.5	— —	— —	27	14	13	70.8	pend	(CL) Lean Clay w/sand	
8/1/2003	LP03-47	4500	13.6	119.6 120.2	13.7 13.2	128.9 129.4	10.7 10.6	28	16	12	70.3	pend	(CL) Lean Clay w/sand	
8/5/2003	LP03-48	6000	14.5	122.0 123.0	13.1 12.8	— —	— —	27	15	12	67.5	pend	(CL) Sandy Lean Clay	
8/6/2003	LP03-49	7500	15.0	118.8 119.9	13.9 13.5	128.9 129.9	10.2 9.9	32	17	15	69.8	pend	(CL) Sandy Lean Clay	
8/6/2003	LP03-50	9000	11.0			— —	— —	23	10	13		pend		

Reported total yards, surveyed: 9,655
Converted total yards in place: 8,342
Average Stockpile Moisture: 13.4
Average Corrected Standard Proctor:
Average Corrected Modified Proctor: 131.0 @ 9.9
Cumulative cubic yards: 59,437
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

14-Aug-03

STOCKPILE 03-8

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/7/2003	LP03-51	1500	14.8			130.3 131.5	10.0 9.7				67.8	pend		
8/7/2003	LP03-52	3000	13.7											
8/8/2003	LP03-53	4500	16.0											
8/11/2003	LP03-54	6000	13.0											
8/12/2003	LP03-55	7500	12.7											
8/12/2003	LP03-56	9000	12.6											

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture: 13.8
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

14-Aug-03

STOCKPILE 03-9

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/13/2003	LP03-57	1500	12.7											
8/13/2003	LP03-58	3000	11.7											
		4500												
		6000												
		7500												
		9000												

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

14-Aug-03

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 17 AUGUST 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 313

The report period covered by Weekly Report No. 313 is from Monday, 11 August 2003 through Sunday, 17 August 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 0.75 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Flour Fernald Construction (FFC) completed stockpile SP03-8 and started screening for SP03-9. Approximately 12,000 cubic yards of material were screened during the week and 69,000 cubic yards (estimated ICY) have been screened to date.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	396	235	0	631
2	206	116	0	322
3	0	0	0	0
4	0	9	0	9
5	0	0	0	0
Total	602	351	0	953

PER: C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 17 AUGUST 03

WEEKLY REPORT NO. 313

Construction Progress (cont'd)

Phase V - Impacted Material Placement (Cont'd)

Placement of bundles of Category 3 transite panels also continued in Cell 5 during the report period, but is not included in the table on page 1.

Phase IV2 – Cell 2 Final Cover Construction

Placement of Type D Dumped Rock Fill (rip-rap) for the biointrusion barrier was completed during the report period. Placement of crushed #57 choke stone began during the report period and is ongoing.

Phase V – Cell 6 Liner Construction

The Istre Company (TIC) completed the deployment of the secondary geosynthetic clay liner (GCL) and GML for Cell 6 during the last report period. Field testing and repairs have been completed. Placement of the primary GCL and GML layers for Cell 6 began with an approximate total of 91,268 ft^2 deployed during this report period.

TIC continued deployment of geotextile cushion over completed geomembrane liner in Cell 6. FFC followed closely behind covering the geotextile cushion with No. 78 stone for the leak detection system (LDS) drainage layer. The LDS collection pipe (perforated) was also welded and installed in the eastern half of the drainage corridor as part of placement of drainage layer and drainage corridor materials.

Construction Submittal Review

GeoSyntec Submittals

The following submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

WEEKLY REPORT NO. 313

Construction Submittal Review (cont'd)

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec reviewed progress survey certification points for Cell 6 top of LDS drainage layer during the report period. The eastern half of Cell 6, including cell floor and east slopes, was verbally approved for deployment of the primary liner geosynthetics.

GeoSyntec completed review of progress survey certification points for Cell 2 top of cover drainage layer during the report period.

GeoSyntec and Fluor Fernald Engineering completed the disposition of Fluor Fernald Nonconformance Report (NCR) No. 606 written by Fluor Fernald Quality Assurance (QA) on the installation of gravity-inlet structure (GIS) No. 11 during the report period. The corrective action disposition of this NCR was accept as-is the as-constructed GIS. However, it was recommended that coordination and communication between Fluor Fernald Construction and the support team (Fluor Fernald Engineering, QA, and GeoSyntec) be improved on future construction work in which field conditions might warrant some minor modifications, such as the case for GIS No. 11.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 17 AUGUST 03

WEEKLY REPORT NO. 313

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were 8 samples collected during the report period. A total of 54 samples have been collected to date. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. CQC also monitored the placement of Category 3 transite panels in Cell 5. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored the placement and tracking of the biointrusion barrier and choke stone materials during the period.

Phase V – Cell 6 Liner Construction

CQC monitored the deployment of geosynthetics for the Cell 6 liner. Geotextile seams were inspected to ensure continuous sewn seems without skips. CQC also marked destructive seam samples from the installed geomembrane seams.

Field nuclear density tests were performed on anchor trench fill as required. CQC also periodically monitored the placement and tracking of the LDS drainage material.

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 17 AUGUST 03

WEEKLY REPORT NO. 313

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 11 August 2003 covered near misses.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. K. Herrick,
7. R. Hastie,
8. S. Schaeffer,
9. D. Evans, and
10. Sheila Abney

STOCKPILE 03-7

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/31/2003	LP03-45	1500	13.2	121.0 123.3	13.0 12.2	131.8 133.8	9.9 9.3	29	14	15	67.8	23.5	(CL) Sandy Lean Clay	pend
8/1/2003	LP03-46	3000	13.2	121.2 122.2	12.8 12.5	— —	— —	27	14	13	70.8	25.0	(CL) Lean Clay w/sand	
8/1/2003	LP03-47	4500	13.6	119.6 120.2	13.7 13.2	128.9 129.4	10.7 10.6	28	16	12	70.3	24.0	(CL) Lean Clay w/sand	
8/5/2003	LP03-48	6000	14.5	122.0 123.0	13.1 12.8	— —	— —	27	15	12	67.5	23.5	(CL) Sandy Lean Clay	
8/6/2003	LP03-49	7500	15.0	118.8 119.9	13.9 13.5	128.9 129.9	10.2 9.9	32	17	15	69.8	27.5	(CL) Sandy Lean Clay	
8/6/2003	LP03-50	9000	11.0	124.0 124.5	11.0 10.9	— —	— —	23	10	13	65.6	24.0	(CL) Sandy Lean Clay	

Reported total yards, surveyed:	9,655		
Converted total yards in place:	8,342		
Average Stockpile Moisture:	13.4		
Average Corrected Standard Proctor:	122.2	@	12.5
Average Corrected Modified Proctor:	131.0	@	9.9
Cumulative cubic yards:	59,437		
Composite Hydraulic Conductivity:	pend		

FOR INFORMATION ONLY

21-Aug-03

0000136

53367

STOCKPILE 03-8

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/7/2003	LP03-51	1500	14.8	120.5 121.9	12.6 12.2	130.3 131.5	10.0 9.7	35	15	20	67.8	22.0	(CL) Sandy Lean Clay	pend
8/7/2003	LP03-52	3000	13.7					30	16	14	69.5		(CL) Sandy Lean Clay	
8/8/2003	LP03-53	4500	16.0					31	15	16	70.9		(CL) Lean Clay w/sand	
8/11/2003	LP03-54	6000	13.0					28	15	13	65.5		(CL) Sandy Lean Clay	
8/12/2003	LP03-55	7500	12.7					29	16	13	69.7		(CL) Sandy Lean Clay	
8/12/2003	LP03-56	9000	12.6					31	16	15	72.6		(CL) Lean Clay w/sand	

Reported total yards, surveyed:	10,661
Converted total yards in place:	9,211
Average Stockpile Moisture:	13.8
Average Corrected Standard Proctor:	
Average Corrected Modified Proctor:	
Cumulative cubic yards:	68,648
Composite Hydraulic Conductivity:	

FOR INFORMATION ONLY

21-Aug-03

STOCKPILE 03-9

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/13/2003	LP03-57	1500	12.7					28	15	13	67.4		(CL) Sandy Lean Clay	
8/13/2003	LP03-58	3000	11.7					29	16	13	65.4		(CL) Sandy Lean Clay	
8/14/2003	LP03-59	4500	11.4								68.9			
8/14/2003	LP03-60	6000	12.9											
8/15/2003	LP03-65	7500	11.6											
8/18/2003	LP03-66	9000	11.7					29	15	14	68.3			

Reported total yards, surveyed: 9,985
Converted total yards in place: 8,627
Average Stockpile Moisture: 12.0
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards: 77,275
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

21-Aug-03

STOCKPILE 03-10

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/18/2003	LP03-67	1500	11.0											
8/19/2003	LP03-68	3000	13.1											
8/20/2003	LP03-69	4500												
8/20/2003	LP03-70	6000												
		7500												
		9000												

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

21-Aug-03

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 24 AUGUST 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 314

The report period covered by Weekly Report No. 314 is from Monday, 18 August 2003 through Sunday, 24 August 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 0.25 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Flour Fernald Construction (FFC) completed stockpile SP03-9, started and completed screening for SP03-10, and began screening for stockpile SP03-11. Approximately 15,000 cubic yards of material were screened during the week and 84,000 cubic yards (estimated ICY) have been screened to date.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly truck totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	575	130	0	705
2	162	69	0	231
3	0	0	0	0
4	0	9	0	9
5	0	0	0	0
Total	737	199	0	936

PER: C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ3211 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 24 AUGUST 03

WEEKLY REPORT NO. 314

Construction Progress (cont'd)

Phase V - Impacted Material Placement (Cont'd)

Placement of bundles of Category 3 transite panels also continued in Cell 5 during the report period, but is not included in the table on page 1.

Phase IV2 – Cell 2 Final Cover Construction

Placement of crushed #57 choke stone for the top of the biointrusion barrier was completed during the report period. Placement of the granular filter layer material (sand) began during the report period and is ongoing.

Phase V – Cell 6 Liner Construction

The Istre Company (TIC) continued installation of the primary GCL and GML layers for Cell 6 with an approximate total of 104,085 ft^2 deployed during this report period and 195,353 ft^2 to date.

TIC continued deployment of geotextile cushion over completed secondary geomembrane liner in Cell 6. FFC followed closely behind covering the geotextile cushion with No. 78 stone for the leak detection system (LDS) drainage layer. The west anchor trench for the secondary GML was backfilled and compacted.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02770-012, Rev. 1	Electrical Leak Detection Testing Report	20 Aug 2003	No Comments

PER:C. Sukow/K. Badu-Tweneboah

WEEKLY REPORT NO. 314

Construction Submittal Review (cont'd)

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-002, Rev. 3	Cell 6 Proposed Top LDS Drawing	20 Aug 2003	No Comments
02100-005, Rev. 2	Cell 6 Top of Clay Liner As-Built	20 Aug 2003	A w/Comments

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec reviewed progress survey certification points for Cell 6 top of leak detection system (LDS) drainage layer during the period. The northwestern half of Cell and the western part of the Cell 6/Cell 7 intercell berm were verbally approved for deployment of the primary liner geosynthetics.

GeoSyntec reviewed progress survey certification points for Cell 2 top of cover drainage layer and biointrusion barrier layer during the report period.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were 10 samples collected during the report period. A total of 64 samples have been collected to date. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.: GQ3211** **TASK NO.: 04**
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING: 24 AUGUST 03**

WEEKLY REPORT NO. 314

Construction Quality Control (CQC)

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. CQC also monitored the placement of Category 3 transite panels in Cell 5. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored the placement and tracking of crushed #57 choke stone and granular filter layer materials during the report period.

Phase V – Cell 6 Liner Construction

CQC monitored the deployment of geosynthetics for the Cell 6 liner. Geotextile seams were inspected to ensure continuous sewn seems without skips. CQC also marked destructive seam samples from the installed geomembrane seams.

Field nuclear density tests were performed on anchor trench backfill as required.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 18 August 2003 covered taking health and safety seriously.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. K. Herrick,
7. R. Hastie,
8. S. Schaeffer,
9. D. Evans, and
10. S. Abney

STOCKPILE 03-4

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/1/2003	LP03-24	1500	15.6	118.2 119.5	14.3 13.8	128.3 129.4	10.6 10.3	32	15	17	73.7	26.5	(CL) Lean Clay w/sand	3.4E-08
7/3/2003	LP03-25	3000	12.4	118.7 120.3	13.0 12.5	— —	— —	29	15	14	70.0	23.0	(CL) Lean Clay w/sand	—
7/14/2003	LP03-29	4500	13.6	120.3 121.8	13.2 12.7	130.0 131.3	10.1 9.7	30	15	15	70.7	25.0	(CL) Lean Clay w/sand	—
7/15/2003	LP03-30	6000	13.7	118.6 119.8	14.3 13.9	— —	— —	30	15	15	70.2	29.0	(CL) Lean Clay w/sand	—
7/15/2003	LP03-31	7500	14.4	118.2 119.0	14.2 13.9	130.0 130.7	10.1 9.9	30	15	15	72.2	29.0	(CL) Lean Clay w/sand	—
7/15/2003	LP03-32	9000	14.7	119.0 120.0	14.0 13.6	— —	— —	30	16	14	70.3	28.0	(CL) Lean Clay w/sand	—

Reported total yards, surveyed:	9,265		
Converted total yards in place:	8,005		
Average Stockpile Moisture:	14.1		
Average Corrected Standard Proctor:	120.1	@	13.4
Average Corrected Modified Proctor:	130.5	@	10.0
Cumulative cubic yards:	34,601		
Composite Hydraulic Conductivity:	9.5E-08		

FOR INFORMATION ONLY **26-Aug-03**
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

STOCKPILE 03-5

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/16/2003	LP03-33	1500	14.1	118.7 119.7	14.1 13.8	129.0 129.8	10.5 10.3	30	16	14	72.9	28.5	(CL) Lean Clay w/sand	5.3E-08
7/17/2003	LP03-34	3000	13.3	121.0 122.0	12.9 12.6	— —	— —	29	16	13	72.6	28.0	(CL) Lean Clay w/sand	—
7/18/2003	LP03-35	4500	15.1	121.5 122.8	12.3 11.9	132.6 133.7	9.1 8.8	28	16	12	68.4	28.0	(CL) Sandy Lean Clay	—
7/18/2003	LP03-36	6000	16.9	114.0 116.2	15.0 14.2	— —	— —	32	17	15	70.3	29.0	(CL) Lean Clay w/sand	—
7/23/2003	LP03-37	7500	14.1	119.5 122.0	13.5 12.7	131.0 133.1	9.0 8.5	30	16	14	65.5	25.0	(CL) Sandy Lean Clay	—
7/24/2003	LP03-38	9000	12.9	121.5 122.0	12.4 12.2	— —	— —	29	16	13	70.3	26.0	(CL) Lean Clay w/sand	—

Reported total yards, surveyed:	9,806		
Converted total yards in place:	8,472		
Average Stockpile Moisture:	14.4		
Average Corrected Standard Proctor:	120.8	@	12.9
Average Corrected Modified Proctor:	132.2	@	9.2
Cumulative cubic yards:	43,073		
Composite Hydraulic Conductivity:	6.9E-08		

FOR INFORMATION ONLY
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

26-Aug-03

STOCKPILE 03-9

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/13/2003	LP03-57	1500	12.7	120.9 122.2	12.1 11.7			28	15	13	67.4		(CL) Sandy Lean Clay	
8/13/2003	LP03-58	3000	11.7					29	16	13	65.4		(CL) Sandy Lean Clay	
8/14/2003	LP03-59	4500	11.4	123.6 124.4	11.8 11.6						68.9			
8/14/2003	LP03-60	6000	12.9								73.1			
8/15/2003	LP03-65	7500	11.6								67.0			
8/18/2003	LP03-66	9000	11.7	121.6 122.8	12.5 12.1			29	15	14	68.3		(CL) Sandy Lean Clay	

Reported total yards, surveyed: 9,985
Converted total yards in place: 8,627
Average Stockpile Moisture: 12.0
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards: 77,275
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

26-Aug-03

STOCKPILE 03-10

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/18/2003	LP03-67	1500	11.0								70.3			
8/19/2003	LP03-68	3000	13.1					31	15	16	70.0		(CL) Lean Clay w/sand	
8/20/2003	LP03-69	4500	14.1					30	16	14	72.7		(CL) Sandy Lean Clay	
8/20/2003	LP03-70	6000	14.3								68.6			
8/21/2003	LP03-71	7500	12.6											
8/21/2003	LP03-72	9000	12.9											
8/26/2003	LP03-78	9000+	10.7											

Reported total yards, surveyed: 10,449
Converted total yards in place: 9,028
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards: 86,303
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

26-Aug-03

000147

53367

STOCKPILE 03-11

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/22/2003	LP03-74	1500	9.4											
8/22/2003	LP03-75	3000	13.8											
8/25/2003	LP03-76	4500	11.0											
8/25/2003	LP03-77	6000	11.9											
8/26/2003	LP03-79	7500	11.9											
8/26/2003	LP03-80	9000	13.2											

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture: 11.9
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

26-Aug-03

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 31 August 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 315

The report period covered by Weekly Report No. 315 is from Monday, 25 August 2003 through Sunday, 31 August 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 0.3 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Flour Fernald Construction (FFC) completed stockpile SP03-11, started and completed screening for stockpile SP03-12. Approximately 18,000 cubic yards of material were screened during the week and 102,000 cubic yards (estimated ICY) have been screened to date.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly truck load totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	353	6	0	359
2	353	175	0	528
3	0	0	0	0
4	0	0	0	9
5	0	0	0	0
Total	706	181	0	887

PER: C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GO3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 31 August 03

WEEKLY REPORT NO. 315

Construction Progress (cont'd)

Phase V - Impacted Material Placement (Cont'd)

Placement of bundles of Category 3 transite panels also continued in Cell 5 during the report period, but is not included in the table on page 1.

Phase IV2 – Cell 2 Final Cover Construction

Placement of granular filter layer material (sand) above the biointrusion barrier was completed during the report period. Placement of the vegetative soil layer began during the report period and is ongoing. FFC used laborers to remove oversized rocks and deleterious material as the vegetative soil material was placed and spread with the bulldozer.

Phase V – Cell 6 Liner Construction

The Istre Company (TIC) completed installation of the primary GCL and GML layers for Cell 6 with an approximate total of 105,005 ft^2 deployed during this report period and 300,358 ft^2 to date. Repairs, destructive testing and non-destructive testing are ongoing.

FFC covered the secondary geotextile cushion with No. 78 and No. 57 stone for the leak detection system (LDS) drainage layer and drainage corridor, respectively.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal

No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 5	Cell 2 geomembrane panel seams and repair locations	29 Aug 2003	A

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 31 August 03

WEEKLY REPORT NO. 315

Construction Submittal Review (cont'd)

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec completed review of progress survey certification points for Cell 6 top of leak detection system (LDS) drainage layer during the period.

GeoSyntec reviewed progress survey certification points for Cell 2 top of cover drainage layer and granular filter layer during the report period.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were 12 samples collected during the report period. A total of 76 samples have been collected to date. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. CQC also monitored the placement of Category 3 transite panels in Cell 5. Moisture/density tests were performed on lifts of Category 1 soil as required.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 31 August 03

WEEKLY REPORT NO. 315

Construction Quality Control (CQC) (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored the placement and compaction of vegetative soil layer material during the report period. Moisture/density tests were performed as required.

Phase V – Cell 6 Liner Construction

CQC monitored the deployment of geosynthetics for the Cell 6 liner. Geotextile seams were inspected to ensure continuous sewn seems without skips. CQC also marked destructive seam samples from the installed geomembrane seams, and monitored repairs, non-destructive testing and field tensiometer testing of geomembrane seams and trial welds. Destructive seam samples were shipped to an off-site geosynthetics testing laboratory for testing.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 25 August 2003 covered hazard communication.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. R. Hastie,
7. S. Schaeffer,
8. D. Evans, and
9. S. Abney

STOCKPILE 03-10

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/18/2003	LP03-67	1500	11.0					30	15	15	70.3		(CL) Lean Clay w/sand	
8/19/2003	LP03-68	3000	13.1					31	15	16	70.0		(CL) Lean Clay w/sand	
8/20/2003	LP03-69	4500	14.1					30	16	14	72.7		(CL) Sandy Lean Clay	
8/20/2003	LP03-70	6000	14.3					30	17	13	68.6		(CL) Sandy Lean Clay	
8/21/2003	LP03-71	7500	12.6								71.4			
8/21/2003	LP03-72	9000	12.9								71.1			
8/26/2003	LP03-78	9000+	10.7											

Reported total yards, surveyed: 10,449
Converted total yards in place: 9,028
Average Stockpile Moisture: 13.0
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards: 86,303
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

29-Aug-03

STOCKPILE 03-11

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/22/2003	LP03-74	1500	9.4					29	15	14	69.8			
8/22/2003	LP03-75	3000	13.8					33	16	17	74.2			
8/25/2003	LP03-76	4500	11.0								68.8			
8/25/2003	LP03-77	6000	11.9								66.1			
8/26/2003	LP03-79	7500	11.9											
8/26/2003	LP03-80	9000	13.2											
8/27/2003	LP03-83	9000+	13.7											

Reported total yards, surveyed: 11,527
Converted total yards in place: 9,959
Average Stockpile Moisture: 12.1
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards: 96,262
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

29-Aug-03

STOCKPILE 03-12

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/27/2003	LP03-81	1500	13.9											
8/27/2003	LP03-82	3000	14.7											
8/28/2003	LP03-84	4500	13.5											
8/28/2003	LP03-85	6000	12.7											
8/29/2003	LP03-86	7500	11.3											

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

29-Aug-03

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 07 September 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 316

The report period covered by Weekly Report No. 316 is from Monday, 1 September 2003 through Sunday, 7 September 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were approximately 4.25 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material was temporarily shut down due to heavy rains during the early part of the report period. Production is expected to resume during the next report period.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly truck load totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	227	75	0	302
2	157	0	0	157
3	0	0	0	0
4	0	0	0	9
5	0	0	0	0
Total	384	75	0	459

PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 07 September 03

WEEKLY REPORT NO. 316

Construction Progress (cont'd)

Phase V - Impacted Material Placement (Cont'd)

Placement of bundles of Category 3 transite panels also continued in Cell 5 during the report period, but is not included in the table on page 1.

Phase IV2 – Cell 2 Final Cover Construction

Placement of the vegetative soil layer continued during the report period and is ongoing. FFC used laborers to remove oversized rocks and deleterious material as the vegetative soil material was placed and spread with the bulldozer.

Phase V – Cell 6 Liner Construction

The Istre Company (TIC) continued with the repairs, destructive testing and non-destructive testing of the primary GML and is ongoing.

FFC excavated the west primary liner anchor trench for Cell 6.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 6	Cell 2 As-Built Biointrusion Barrier Layer	6 Sep 2003	No Comments
02712-002, Rev. 1	Test results for sand cover (for additional quantity delivered on 8/10/93)	2 Sep 2003	A

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 07 September 03

WEEKLY REPORT NO. 316

Construction Submittal Review (cont'd)

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-002, Rev. 4	Cell 6 Proposed Top LCS Drawing	6 Sep 2003	No Comments
02100-005, Rev. 3	Cell 6 LDS As-Built Drawing	6 Sep 2003	A w/Comments

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec reviewed and provided comments on Addendum No. 4 to the Impacted Material Placement Plan prepared by Fluor Fernald Engineering. This addendum proposed the use of scrapers to directly haul impacted material from the remediation areas to the OSDF. In response to comment from the regulatory agency (i.e. Ohio EPA), GeoSyntec prepared an engineering evaluation on the use of the scrapers.

GeoSyntec completed review of progress survey certification points for Cell 2 top of cover drainage layer and granular filter layer during the report period.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were no samples collected due to heavy rains during the early part of the report period. A total of 76 samples have been collected to date. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. CQC also periodically monitored the placement of Category 3 transite panels in Cell 5. Moisture/density tests were performed on lifts of Category 1 soil as required.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ3211 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 07 September 03

WEEKLY REPORT NO. 316

Construction Quality Control (CQC) (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored the placement and compaction of vegetative soil layer material during the report period. Moisture/density tests were performed as required.

Phase V – Cell 6 Liner Construction

CQC monitored the repair efforts to complete the Cell 6 liner. CQC also marked destructive seam samples from the installed geomembrane seams, and monitored non-destructive testing and field tensiometer testing of geomembrane seams and trial welds. Destructive seam samples were shipped to an off-site geosynthetics testing laboratory for testing.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting topic held on 2 September 2003 was 'Safety is a Personal Decision'.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. R. Hastie,
7. S. Schaeffer,
8. D. Evans, and
9. S. Abney

STOCKPILE 03-6

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/25/2003	LP03-39	1500	14.3	118.7 120.4	13.5 12.9	128.7 130.2	10.0 9.6	31	16	15	70.7	26.0	(CL) Lean Clay w/sand	7.5E-08 —
7/25/2003	LP03-40	3000	13.0	120.1 121.2	13.6 13.2	— —	— —	31	16	15	70.0	29.0	(CL) Lean Clay w/sand	— —
7/25/2003	LP03-41	4500	11.6	120.7 121.7	13.7 13.3	132.4 133.3	9.4 9.2	27	16	11	67.5	23.0	(CL) Sandy Lean Clay	— —
7/30/2003	LP03-42	6000	12.2	122.0 123.4	12.2 11.8	— —	— —	27	16	11	67.9	22.5	(CL) Sandy Lean Clay	— —
7/30/2003	LP03-43	7500	13.0	122.9 123.5	12.1 11.9	132.5 133.0	9.7 9.5	27	15	12	67.6	25.0	(CL) Sandy Lean Clay	— —
7/31/2003	LP03-44	9000	12.0	122.3 123.5	12.2 11.8	— —	— —	28	15	13	67.8	24.0	(CL) Sandy Lean Clay	— —

Reported total yards, surveyed:	9,285		
Converted total yards in place:	8,022		
Average Stockpile Moisture:	12.7		
Average Corrected Standard Proctor:	122.3	@	12.5
Average Corrected Modified Proctor:	132.2	@	9.4
Cumulative cubic yards:	51,095		
Composite Hydraulic Conductivity:			

FOR INFORMATION ONLY

5-Sep-03

STOCKPILE 03-7

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
7/31/2003	LP03-45	1500	13.2	121.0 123.3	13.0 12.2	131.8 133.8	9.9 9.3	29	14	15	67.8	23.5	(CL) Sandy Lean Clay	7.9E-08 —
8/1/2003	LP03-46	3000	13.2	121.2 122.2	12.8 12.5	— —	— —	27	14	13	70.8	25.0	(CL) Lean Clay w/sand	— —
8/1/2003	LP03-47	4500	13.6	119.6 120.2	13.7 13.2	128.9 129.4	10.7 10.6	28	16	12	70.3	24.0	(CL) Lean Clay w/sand	— —
8/5/2003	LP03-48	6000	14.5	122.0 123.0	13.1 12.8	— —	— —	27	15	12	67.5	23.5	(CL) Sandy Lean Clay	— —
8/6/2003	LP03-49	7500	15.0	118.8 119.9	13.9 13.5	128.9 129.9	10.2 9.9	32	17	15	69.8	27.5	(CL) Sandy Lean Clay	— —
8/6/2003	LP03-50	9000	11.0	124.0 124.5	11.0 10.9	— —	— —	23	10	13	65.6	24.0	(CL) Sandy Lean Clay	— —

Reported total yards, surveyed:	9,655		
Converted total yards in place:	8,342		
Average Stockpile Moisture:	13.4		
Average Corrected Standard Proctor:	122.2	@	12.5
Average Corrected Modified Proctor:	131.0	@	9.9
Cumulative cubic yards:	59,437		
Composite Hydraulic Conductivity:	6.2E-08		

FOR INFORMATION ONLY **5-Sep-03**
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

STOCKPILE 03-8

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/7/2003	LP03-51	1500	14.8	120.5 121.9	12.6 12.2	130.3 131.5	10.0 9.7	35	15	20	67.8	22.0	(CL) Sandy Lean Clay	
8/7/2003	LP03-52	3000	13.7			— —	— —	30	16	14	69.5	28.0	(CL) Sandy Lean Clay	
8/8/2003	LP03-53	4500	16.0	115.7 116.9	13.9 13.5			31	15	16	70.9	28.0	(CL) Lean Clay w/sand	
8/11/2003	LP03-54	6000	13.0					28	15	13	65.5	26.5	(CL) Sandy Lean Clay	
8/12/2003	LP03-55	7500	12.7	115.4 117.1	14.2 13.6			29	16	13	69.7	27.0	(CL) Sandy Lean Clay	
8/12/2003	LP03-56	9000	12.6			125.0 125.6	10.0 9.8	31	16	15	72.6	29.0	(CL) Lean Clay w/sand	
8/21/2003	LP03-73	9000+	10.0					28	15	13	69.7	pend	(CL) Sandy Lean Clay	

Reported total yards, surveyed: 10,661
Converted total yards in place: 9,211
Average Stockpile Moisture: 13.3
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards: 68,648
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

4-Sep-03

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 14 September 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 317

The report period covered by Weekly Report No. 317 is from Monday, 8 September 2003 through Sunday, 14 September 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there was no rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Flour Fernald Construction (FFC) started and completed screening for stockpile SP03-13. Screening for SP03-14 was started and is ongoing. Approximately 15,000 cubic yards of material were screened during the week and 117,000 cubic yards (estimated ICY) have been screened to date.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly truck load totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	773	35	0	808
2	417	171	0	588
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
Total	1,190	206	0	1,396

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 14 September 03

WEEKLY REPORT NO. 317

Construction Progress (cont'd)

Phase V - Impacted Material Placement (Cont'd)

Placement of bundles of Category 3 transite panels also continued in Cell 5 during the report period, but is not included in the table on page 1.

Phase IV2 – Cell 2 Final Cover Construction

Placement of the vegetative soil layer was completed during the report period. FFC used laborers to remove oversized rocks and deleterious material as the vegetative soil material was placed and spread with the bulldozer. Placement of topsoil began during the report period and is ongoing.

Phase V – Cell 6 Liner Construction

he Istre Company (TIC) continued with the repairs, destructive testing and non-destructive testing of the primary GML. New welding rod was received from GSE late in the report period and repair efforts are ongoing.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal

No.	Item Description	RE Disposition	Recommended Status
02100-002, Rev. 7	Proposed Cell 2 Top of Granular Filter Layer	13 Sep 2003	No Comments
02100-005, Rev. 7	Cell 2 As-Built Cover Drainage Lyr	13 Sep 2003	No Comments
02270-001, Rev. 0	Manufacturer's product data on erosion control (coir and jute) mats	13 Sep 2003	w/Comments

PER: C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 14 September 03

WEEKLY REPORT NO. 317

Construction Submittal Review (cont'd)

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec issued a draft memorandum, dated 11 September 2003, to Fluor Fernald on the potential problems with the extrudate welding rods being used for extrusion welding of the Cell 6 primary liner geomembrane. Samples of the welding rods were also shipped to an off-site geosynthetics testing laboratory for density and melt flow index testing.

GeoSyntec reviewed progress survey certification data for the Cell 2 Final Cover and Cell 6 liner construction projects.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were 10 samples collected during the report period. A total of 86 samples have been collected to date. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. CQC also periodically monitored the placement of Category 3 transite panels in Cell 5. Moisture/density tests were performed on lifts of Category 1 soil as required.

WEEKLY REPORT NO. 317

Construction Quality Control (CQC) (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

CQC monitored the placement and compaction of vegetative soil layer material during the report period. Moisture/density tests were performed as required.

Phase V – Cell 6 Liner Construction

CQC monitored the repair efforts to complete the Cell 6 liner. CQC also marked destructive seam samples from the installed geomembrane seams, and monitored non-destructive testing and field tensiometer testing of geomembrane seams and trial welds. Destructive seam samples were shipped to an off-site geosynthetics testing laboratory for testing.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 8 September 2003 covered Fluor Fernald lessons learned. .

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker (part-time),
5. B. Habermehl,
6. R. Hastie,
7. S. Schaeffer,
8. D. Evans, and
9. S. Abney

STOCKPILE 03-9

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/13/2003	LP03-57	1500	12.7					28	15	13	67.4	26.0	(CL) Sandy Lean Clay	
8/13/2003	LP03-58	3000	11.7					29	16	13	65.4	26.0	(CL) Sandy Lean Clay	
8/14/2003	LP03-59	4500	11.4					28	15	13	68.9	26.0	(CL) Sandy Lean Clay	
8/14/2003	LP03-60	6000	12.9					32	15	17	73.1	25.0	(CL) Lean Clay w/sand	
8/15/2003	LP03-65	7500	11.6					27	15	12	67.0	25.0	(CL) Sandy Lean Clay	
8/18/2003	LP03-66	9000	11.7					29	15	14	68.3	27.0	(CL) Sandy Lean Clay	

Reported total yards, surveyed:	9,985
Converted total yards in place:	8,627
Average Stockpile Moisture:	12.0
Average Corrected Standard Proctor:	
Average Corrected Modified Proctor:	
Cumulative cubic yards:	77,275
Composite Hydraulic Conductivity:	

FOR INFORMATION ONLY

8-Sep-03

000167

53967

STOCKPILE 03-10

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/18/2003	LP03-67	1500	11.0					30	15	15	70.3	28.0	(CL) Lean Clay w/sand	
8/19/2003	LP03-68	3000	13.1					31	15	16	70.0	24.5	(CL) Lean Clay w/sand	
8/20/2003	LP03-69	4500	14.1					30	16	14	72.7	27.0	(CL) Sandy Lean Clay	
8/20/2003	LP03-70	6000	14.3					30	17	13	68.6	27.0	(CL) Sandy Lean Clay	
8/21/2003	LP03-71	7500	12.6					31	16	15	71.4	27.0	(CL) Lean Clay w/sand	
8/21/2003	LP03-72	9000	12.9					30	15	15	71.1	pend	(CL) Lean Clay w/sand	
8/26/2003	LP03-78	9000+	10.7					27	14	13	69.5	pend	(CL) Sandy Lean Clay	

Reported total yards, surveyed: 10,449
Converted total yards in place: 9,028
Average Stockpile Moisture: 12.7
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards: 86,303
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

8-Sep-03

STOCKPILE 03-11

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/22/2003	LP03-74	1500	9.4					29	15	14	69.8	pend	(CL) Sandy Lean Clay	
8/22/2003	LP03-75	3000	13.8					33	16	17	74.2	pend	(CL) Lean Clay w/sand	
8/25/2003	LP03-76	4500	11.0					27	15	12	68.8	pend	(CL) Sandy Lean Clay	
8/25/2003	LP03-77	6000	11.9					29	15	14	66.1	pend	(CL) Sandy Lean Clay	
8/26/2003	LP03-79	7500	11.9					31	16	15	76.4	pend	(CL) Lean Clay w/sand	
8/26/2003	LP03-80	9000	13.2					30	16	14	70.8	pend	(CL) Lean Clay w/sand	
8/27/2003	LP03-83	9000+	13.7					32	17	15	74.4	pend	(CL) Lean Clay w/sand	

Reported total yards, surveyed:	11,527
Converted total yards in place:	9,959
Average Stockpile Moisture:	12.1
Average Corrected Standard Proctor:	
Average Corrected Modified Proctor:	
Cumulative cubic yards:	96,262
Composite Hydraulic Conductivity:	

FOR INFORMATION ONLY

10-Sep-03

STOCKPILE 03-12

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/27/2003	LP03-81	1500	13.9					32	16	16	71.7	pend	(CL) Lean Clay w/sand	
8/27/2003	LP03-82	3000	14.7					30	16	14	73.6	pend	(CL) Lean Clay w/sand	
8/28/2003	LP03-84	4500	13.5								66.4			
8/28/2003	LP03-85	6000	12.7								74.9	pend		
8/29/2003	LP03-86	7500	11.3					31	16	15	67.4	pend	(CL) Sandy Lean Clay	
9/8/2003	LP03-87	9000	12.2											

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture: 13.1
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

11-Sep-03

STOCKPILE 03-13

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/8/2003	LP03-88	1500	12.3											
9/9/2003	LP03-89	3000	13.4								69.6			
9/9/2003	LP03-93	4500	10.4											
9/9/2003	LP03-94	6000	13.6											
9/10/2003	LP03-95	7500	12.6											
9/10/2003	LP03-96	9000	13.2											
9/11/2003	LP03-98	9000+	12.8											

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture: 12.6
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

12-Sep-03

STOCKPILE 03-14

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/10/2003	LP03-97	1500	12.5											
9/11/2003	LP03-99	3000	12.7											
9/12/2003	LP03-100	4500	15.4											
		6000												
		7500												
		9000												

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

12-Sep-03

000172

53367

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 21 September 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 318

The report period covered by Weekly Report No. 318 is from Monday, 15 September 2003 through Sunday, 21 September 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there was 0.5 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Flour Fernald Construction (FFC) started and completed screening for stockpile SP03-14. Screening for stockpile SP03-15 was started and is ongoing. Approximately 10,500 cubic yards of material were screened during the week and 127,500 cubic yards (estimated ICY) have been screened to date.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly truck load totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	1,033	73	0	808
2	424	8	0	432
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
Total	1,457	81	0	1,538

PER:C. Sukow/K. Badu-Tweneboah

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 21 September 03

WEEKLY REPORT NO. 318

Construction Progress (cont'd)

Phase V - Impacted Material Placement (Cont'd)

Placement of bundles of Category 3 transite panels also continued in Cell 5 during the report period, but is not included in the table on page 1.

Phase IV2 – Cell 2 Final Cover Construction

Placement of the topsoil layer continued during the report period. FFC used laborers to remove oversized rocks and deleterious material as the topsoil material was placed and spread with the bulldozer. Placement of topsoil is ongoing.

Phase V – Cell 6 Liner Construction

The Istre Company (TIC) completed the repairs, destructive testing and non-destructive testing of the primary geomembrane liner for Cell 6. New welding rods from GSE were used for the repairs, and all extrusion seams completed with these rods passed destructive seam tests.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
NONE			

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
NONE			

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GO3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 21 September 03

WEEKLY REPORT NO. 318

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec revised the 11 September 2003 draft memorandum on the potential problems with the extrudate welding rods being used for extrusion welding of the Cell 6 primary liner geomembrane with the recommendations of repairing the major seams constructed with the suspect welding rods. A revised draft memorandum was issued to Fluor Fernald on 18 September 2003. Comments from Fluor Fernald were received on 19 September, and will be finalized during the next report period. Samples of the new welding rods, received from GSE, were also shipped to an off-site geosynthetics testing laboratory for density and melt flow index testing.

GeoSyntec reviewed progress survey certification data for the Cell 2 Final Cover and Cell 6 liner construction projects.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were 7 samples collected during the report period. A total of 93 samples have been collected to date. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored the placement of topsoil layer material during the report period. Moisture/density tests were performed as required.

Phase V – Cell 6 Liner Construction

CQC monitored the repair efforts to complete the Cell 6 liner. CQC also marked destructive seam samples from the installed geomembrane seams, and monitored non-destructive testing and field tensiometer testing of geomembrane seams and trial welds. Destructive seam samples were shipped to an off-site geosynthetics testing laboratory for testing.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 21 September 03

WEEKLY REPORT NO. 318

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 8 September 2003 covered a toolbox topic "Everyone Is Responsible for Safety".

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker (part-time),
5. B. Habermehl,
6. R. Hastie,
7. D. Evans,
8. S. Schaeffer, and
9. S. Abney

STOCKPILE 03-8

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/7/2003	LP03-51	1500	14.8			130.3 131.5	10.0 9.7	35	15	20	67.8	22.0	(CL) Sandy Lean Clay	
8/7/2003	LP03-52	3000	13.7			— —	— —	30	16	14	69.5	28.0	(CL) Sandy Lean Clay	
8/8/2003	LP03-53	4500	16.0			— —	— —	31	15	16	70.9	28.0	(CL) Lean Clay w/sand	
8/11/2003	LP03-54	6000	13.0	120.8 123.1	13.4 12.6	130.6 132.6	9.8 9.3	28	15	13	65.5	26.5	(CL) Sandy Lean Clay	pend
8/12/2003	LP03-55	7500	12.7	120.1 121.7	13.5 13.0	— —	— —	29	16	13	69.7	27.0	(CL) Sandy Lean Clay	
8/12/2003	LP03-56	9000	12.6			132.5 133.1	9.1 9.0	31	16	15	72.6	29.0	(CL) Lean Clay w/sand	
8/21/2003	LP03-73	9000+	10.0			130.0 130.9	9.6 9.4	28	15	13	69.7	26.5	(CL) Sandy Lean Clay	

Reported total yards, surveyed: 10,661
Converted total yards in place: 9,211
Average Stockpile Moisture: 13.3
Average Corrected Standard Proctor:
Average Corrected Modified Proctor: 132.0 @ 9.4
Cumulative cubic yards: 68,648
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

19-Sep-03

5367

STOCKPILE 03-9

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/13/2003	LP03-57	1500	12.7					28	15	13	67.4	26.0	(CL) Sandy Lean Clay	
8/13/2003	LP03-58	3000	11.7					29	16	13	65.4	26.0	(CL) Sandy Lean Clay	
8/14/2003	LP03-59	4500	11.4					28	15	13	68.9	26.0	(CL) Sandy Lean Clay	
8/14/2003	LP03-60	6000	12.9	119.4 120.5	13.5 13.1	— —	— —	32	15	17	73.1	25.0	(CL) Lean Clay w/sand	
8/15/2003	LP03-65	7500	11.6			131.8 133.2	9.1 9.4	27	15	12	67.0	25.0	(CL) Sandy Lean Clay	
8/18/2003	LP03-66	9000	11.7					29	15	14	68.3	27.0	(CL) Sandy Lean Clay	

Reported total yards, surveyed:	9,985
Converted total yards in place:	8,627
Average Stockpile Moisture:	12.0
Average Corrected Standard Proctor:	
Average Corrected Modified Proctor:	
Cumulative cubic yards:	77,275
Composite Hydraulic Conductivity:	

FOR INFORMATION ONLY

18-Sep-03

STOCKPILE 03-10

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/18/2003	LP03-67	1500	11.0			131.1 132.4	9.8 9.5	30	15	15	70.3	28.0	(CL) Lean Clay w/sand	
8/19/2003	LP03-68	3000	13.1			— —	— —	31	15	16	70.0	24.5	(CL) Lean Clay w/sand	
8/20/2003	LP03-69	4500	14.1			129.4 130.0	10.1 9.9	30	16	14	72.7	27.0	(CL) Sandy Lean Clay	
8/20/2003	LP03-70	6000	14.3			— —	— —	30	17	13	68.6	27.0	(CL) Sandy Lean Clay	
8/21/2003	LP03-71	7500	12.6			128.9 130.3	10.1 9.7	31	16	15	71.4	27.0	(CL) Lean Clay w/sand	
8/21/2003	LP03-72	9000	12.9			— —	— —	30	15	15	71.1	27.0	(CL) Lean Clay w/sand	
8/26/2003	LP03-78	9000+	10.7	121.7 123.6	12.5 11.9	130.8 132.4	9.2 8.8	27	14	13	69.5	25.0	(CL) Sandy Lean Clay	pend

Reported total yards, surveyed:	10,449		
Converted total yards in place:	9,028		
Average Stockpile Moisture:	12.7		
Average Corrected Standard Proctor:			
Average Corrected Modified Proctor:	130.9	@	9.6
Cumulative cubic yards:	86,303		
Composite Hydraulic Conductivity:			

FOR INFORMATION ONLY

18-Sep-03

STOCKPILE 03-11

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/22/2003	LP03-74	1500	9.4			132.0 133.2	9.7 9.4	29	15	14	69.8	27.0	(CL) Sandy Lean Clay	
8/22/2003	LP03-75	3000	13.8					33	16	17	74.2	30.0	(CL) Lean Clay w/sand	
8/25/2003	LP03-76	4500	11.0					27	15	12	68.8	26.5	(CL) Sandy Lean Clay	
8/25/2003	LP03-77	6000	11.9					29	15	14	66.1	28.5	(CL) Sandy Lean Clay	
8/26/2003	LP03-79	7500	11.9					31	16	15	76.4	31.0	(CL) Lean Clay w/sand	
8/26/2003	LP03-80	9000	13.2					30	16	14	70.8	30.0	(CL) Lean Clay w/sand	
8/27/2003	LP03-83	9000+	13.7					32	17	15	74.4	29.5	(CL) Lean Clay w/sand	

Reported total yards, surveyed: 11,527
Converted total yards in place: 9,959
Average Stockpile Moisture: 12.1
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards: 96,262
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

17-Sep-03

STOCKPILE 03-12

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay. Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/27/2003	LP03-81	1500	13.9					32	16	16	71.7	27.0	(CL) Lean Clay w/sand	
8/27/2003	LP03-82	3000	14.7					30	16	14	73.6	28.0	(CL) Lean Clay w/sand	
8/28/2003	LP03-84	4500	13.5			130.4 131.8	9.8 9.4	28	14	14	66.4	pend	(CL) Sandy Lean Clay	
8/28/2003	LP03-85	6000	12.7					29	15	14	74.9	27.5	(CL) Lean Clay w/sand	
8/29/2003	LP03-86	7500	11.3			131.5 133.0	10.0 9.6	31	16	15	67.4	27.0	(CL) Sandy Lean Clay	
9/8/2003	LP03-87	9000	12.2	123.0 124.5	12.0 11.5	— —	— —	29	16	13	67.4	pend	(CL) Sandy Lean Clay	

Reported total yards, surveyed: 9,958
Converted total yards in place: 8,604
Average Stockpile Moisture: 13.1
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards: 104,866
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

18-Sep-03

STOCKPILE 03-13

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/8/2003	LP03-88	1500	12.3			129.0 129.8	10.0 9.8				67.7	pend		
9/9/2003	LP03-89	3000	13.4			— —	— —	29	15	14	69.6	pend	(CL) Sandy Lean Clay	
9/9/2003	LP03-93	4500	10.4			131.9 133.5	9.1 8.7				68.4	pend		
9/9/2003	LP03-94	6000	13.6					31	15	16	69.9	pend	(CL) Sandy Lean Clay	
9/10/2003	LP03-95	7500	12.6								68.4	pend		
9/10/2003	LP03-96	9000	13.2								72.6	pend		
9/11/2003	LP03-98	9000+	12.8								72.3			

Reported total yards, surveyed:	11,470
Converted total yards in place:	9,910
Average Stockpile Moisture:	12.6
Average Corrected Standard Proctor:	
Average Corrected Modified Proctor:	
Cumulative cubic yards:	114,776
Composite Hydraulic Conductivity:	

FOR INFORMATION ONLY

19-Sep-03

STOCKPILE 03-14

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/10/2003	LP03-97	1500	12.5								68.6	pend		
9/11/2003	LP03-99	3000	12.7								68.7			
9/12/2003	LP03-100	4500	15.4								72.9			
9/16/2003	LP03-101	6000	12.4											
9/16/2003	LP03-102	7500	11.5											
9/17/2003	LP03-103	9000	12.4											

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture: 12.8
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

19-Sep-03

STOCKPILE 03-15

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/17/2003	LP03-104	1500	13.1											
9/17/2003	LP03-105	3000	13.6											
		4500												
		6000												
		7500												
		9000												

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

18-Sep-03

000183

53367

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 28 September 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
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Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 319

The report period covered by Weekly Report No. 319 is from Monday, 22 September 2003 through Sunday, 28 September 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there was 2.8 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Flour Fernald Construction (FFC) started and completed screening for stockpile SP03-15. Screening for stockpile SP03-16 was started and is ongoing. Approximately 7,500 cubic yards of material were screened during the week and 135,000 cubic yards (estimated ICY) have been screened to date.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly truck load totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	435	28	0	463
2	247	11	0	258
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
Total	682	39	0	721

PER: C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 28 September 03

WEEKLY REPORT NO. 319

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

Placement of the topsoil layer was completed during the report period. FFC used laborers to remove oversized rocks and deleterious material as the topsoil material was placed and spread with the bulldozer. Seeding is scheduled to proceed during the next report period.

Phase V – Cell 6 Liner Construction

The Istre Company (TIC) waited for approval of the primary GML prior to placement of the geotextile layer.

Leak Location Services, Inc. (LLSI) conducted leak detection testing on the extrusion seams that were repaired using the new welding rods.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-002, Rev. 8	Proposed Cell 2 Top of Biointrusion Barrier Layer	23 Sep 2003	No Comments

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period:

Submittal No.	Item Description	RE Disposition	Recommended Status
NONE			

PER: C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ3211 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 28 September 03

WEEKLY REPORT NO. 319

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec issued a final memorandum, dated 22 September 2003, to Fluor Fernald on the potential problems with the extrudate welding rods being used for extrusion welding of the Cell 6 primary liner geomembrane with the recommendations of repairing the major seams constructed with the suspect welding rods. The final memorandum was subsequently submitted to Department of Energy (DOE), Ohio Environmental Protection Agency (OEPA) and USEPA on 23 September 2003. Based on telephone conference calls between Fluor Fernald/DOE and OEPA/USEPA, it is understood that the USEPA and OEPA accepted the recommendations made in the memorandum, and, as such, Fluor Fernald could proceed with the installation of the overlying geotextile cushion layer and granular drainage layer. GeoSyntec is awaiting receipt of formal approval or response letters from the two agencies. GeoSyntec also suggested that further testing and evaluation be made on the suspect welding rods and extrusion-welded seams to identify the actual problems with the "failed extrusion seams".

GeoSyntec reviewed progress survey certification data for the topsoil layer in the Cell 2 Final Cover during the period.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were 5 samples collected during the report period. A total of 98 samples have been collected to date. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored the placement of topsoil layer material during the report period.

PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 28 September 03

WEEKLY REPORT NO. 319

Phase V – Cell 6 Liner Construction

CQC monitored the leak detection testing of the extrusion seams that were repaired using the new welding rods.

CQC also reviewed Cell 6 CQC documentation for GML installation during the report period.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 23 September 2003 covered "Fluor Fernald Lessons Learned, Silos project".

GeoSyntec representative also attended the Fluor Fernald's Contractor safety breakfast meeting held on 24 September 2003.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah (part-time),
2. C. Sukow,
3. T. Willis,
4. B. Habermehl,
5. R. Hastie,
6. C. Walker (part-time),
7. S. Schaeffer, and
8. S. Abney

PER: C. Sukow/K. Badu-Tweneboah

STOCKPILE 03-8

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/7/2003	LP03-51	1500	14.8	120.5 121.9	12.6 12.2	130.3 131.5	10.0 9.7	35	15	20	67.8	22.0	(CL) Sandy Lean Clay	
8/7/2003	LP03-52	3000	13.7	117.1 118.9	15.0 14.3	— —	— —	30	16	14	69.5	28.0	(CL) Sandy Lean Clay	
8/8/2003	LP03-53	4500	16.0	118.5 119.9	14.1 13.6	— —	— —	31	15	16	70.9	28.0	(CL) Lean Clay w/sand	
8/11/2003	LP03-54	6000	13.0	120.8 123.1	13.4 12.6	130.6 132.6	9.8 9.3	28	15	13	65.5	26.5	(CL) Sandy Lean Clay	6.70E-08
8/12/2003	LP03-55	7500	12.7	120.1 121.7	13.5 13.0	— —	— —	29	16	13	69.7	27.0	(CL) Sandy Lean Clay	
8/12/2003	LP03-56	9000	12.6	119.0 119.7	14.0 13.8	132.5 133.1	9.1 9.0	31	16	15	72.6	29.0	(CL) Lean Clay w/sand	
8/21/2003	LP03-73	9000+	10.0	119.3 120.3	13.9 13.6	130.0 130.9	9.6 9.4	28	15	13	69.7	26.5	(CL) Sandy Lean Clay	

Reported total yards, surveyed:	10,661		
Converted total yards in place:	9,211		
Average Stockpile Moisture:	13.3		
Average Corrected Standard Proctor:	120.8	@	13.3
Average Corrected Modified Proctor:	132.0	@	9.4
Cumulative cubic yards:	68,648		
Composite Hydraulic Conductivity:	2.5E-08		

FOR INFORMATION ONLY
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

26-Sep-03

000188

53367

STOCKPILE 03-9

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/13/2003	LP03-57	1500	12.7	121.0 122.3	13.2 12.8	131.5 132.6	9.1 8.8	28	15	13	67.4	26.0	(CL) Sandy Lean Clay	
8/13/2003	LP03-58	3000	11.7	118.8 121.3	15.0 14.1	— —	— —	29	16	13	65.4	26.0	(CL) Sandy Lean Clay	
8/14/2003	LP03-59	4500	11.4	122.4 123.1	12.5 12.3	133.4 134.0	9.2 9.0	28	15	13	68.9	26.0	(CL) Sandy Lean Clay	
8/14/2003	LP03-60	6000	12.9	119.4 120.5	13.5 13.1	— —	— —	32	15	17	73.1	25.0	(CL) Lean Clay w/sand	
8/15/2003	LP03-65	7500	11.6	121.9 123.5	12.8 12.3	131.8 133.2	9.1 9.4	27	15	12	67.0	25.0	(CL) Sandy Lean Clay	4.40E-08
8/18/2003	LP03-66	9000	11.7	123.5 124.6	12.0 11.7	— —	— —	29	15	14	68.3	27.0	(CL) Sandy Lean Clay	

Reported total yards, surveyed:	9,985		
Converted total yards in place:	8,627		
Average Stockpile Moisture:	12.0		
Average Corrected Standard Proctor:	122.6	@	12.7
Average Corrected Modified Proctor:	133.3	@	9.1
Cumulative cubic yards:	77,275		
Composite Hydraulic Conductivity:	4.9E-08		

FOR INFORMATION ONLY
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

29-Sep-03

STOCKPILE 03-10

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/18/2003	LP03-67	1500	11.0	120.4 121.8	12.6 12.2	131.1 132.4	9.8 9.5	30	15	15	70.3	28.0	(CL) Lean Clay w/sand	
8/19/2003	LP03-68	3000	13.1	117.6 119.9	14.1 13.3	— —	— —	31	15	16	70.0	24.5	(CL) Lean Clay w/sand	
8/20/2003	LP03-69	4500	14.1	119.2 119.9	13.1 12.9	129.4 130.0	10.1 9.9	30	16	14	72.7	27.0	(CL) Sandy Lean Clay	
8/20/2003	LP03-70	6000	14.3	120.6 120.0	13.3 13.1	— —	— —	30	17	13	68.6	27.0	(CL) Sandy Lean Clay	
8/21/2003	LP03-71	7500	12.6	119.0 121.2	13.9 13.1	128.9 130.3	10.1 9.7	31	16	15	71.4	27.0	(CL) Lean Clay w/sand	
8/21/2003	LP03-72	9000	12.9	119.6 121.2	13.5 13.0	— —	— —	30	15	15	71.1	27.0	(CL) Lean Clay w/sand	
8/26/2003	LP03-78	9000+	10.7	121.7 123.6	12.5 11.9	130.8 132.4	9.2 8.8	27	14	13	69.5	25.0	(CL) Sandy Lean Clay	3.50E-08

Reported total yards, surveyed:	10,449		
Converted total yards in place:	9,028		
Average Stockpile Moisture:	12.7		
Average Corrected Standard Proctor:	121.1	@	12.8
Average Corrected Modified Proctor:	130.9	@	9.6
Cumulative cubic yards:	86,303		
Composite Hydraulic Conductivity:	pend		

FOR INFORMATION ONLY

1-Oct-03

STOCKPILE 03-11

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/22/2003	LP03-74	1500	9.4	120.8 122.2	13.0 12.6	132.0 133.2	9.7 9.4	29	15	14	69.8	27.0	(CL) Sandy Lean Clay	pend
8/22/2003	LP03-75	3000	13.8	114.9 116.4	15.0 14.5	— —	— —	33	16	17	74.2	30.0	(CL) Lean Clay w/sand	
8/25/2003	LP03-76	4500	11.0	121.2 122.0	13.2 12.9	132.0 132.7	9.1 8.9	27	15	12	68.8	26.5	(CL) Sandy Lean Clay	
8/25/2003	LP03-77	6000	11.9	120.7 122.2	13.4 12.9	— —	— —	29	15	14	66.1	28.5	(CL) Sandy Lean Clay	
8/26/2003	LP03-79	7500	11.9	117.9 118.5	15.0 14.8	128.7 129.2	10.0 9.9	31	16	15	76.4	31.0	(CL) Lean Clay w/sand	
8/26/2003	LP03-80	9000	13.2	119.0 119.8	13.5 13.2	— —	— —	30	16	14	70.8	30.0	(CL) Lean Clay w/sand	
8/27/2003	LP03-83	9000+	13.7	117.0 118.3	15.1 14.6	129.5 130.6	10.4 10.1	32	17	15	74.4	29.5	(CL) Lean Clay w/sand	

Reported total yards, surveyed:	11,527		
Converted total yards in place:	9,959		
Average Stockpile Moisture:	12.1		
Average Corrected Standard Proctor:	119.9	@	13.6
Average Corrected Modified Proctor:	131.4	@	9.6
Cumulative cubic yards:	96,262		
Composite Hydraulic Conductivity:	pend		

FOR INFORMATION ONLY

1-Oct-03

STOCKPILE 03-12

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/27/2003	LP03-81	1500	13.9	118.2 119.5	14.3 13.8	128.3 129.4	10.3 10.0	32	16	16	71.7	27.0	(CL) Lean Clay w/sand	pend
8/27/2003	LP03-82	3000	14.7	118.3 119.5	13.9 13.5	— —	— —	30	16	14	73.6	28.0	(CL) Lean Clay w/sand	
8/28/2003	LP03-84	4500	13.5	122.4 124.0	12.9 12.4	130.4 131.8	9.8 9.4	28	14	14	66.4	26.0	(CL) Sandy Lean Clay	
8/28/2003	LP03-85	6000	12.7	118.9 119.6	14.2 14.0	— —	— —	29	15	14	74.9	27.5	(CL) Lean Clay w/sand	
8/29/2003	LP03-86	7500	11.3	120.7 121.4	13.6 13.2	131.5 133.0	10.0 9.6	31	16	15	67.4	27.0	(CL) Sandy Lean Clay	
9/8/2003	LP03-87	9000	12.2	123.0 124.5	12.0 11.5	— —	— —	29	16	13	67.4	25.0	(CL) Sandy Lean Clay	

Reported total yards, surveyed:	9,958		
Converted total yards in place:	8,604		
Average Stockpile Moisture:	13.1		
Average Corrected Standard Proctor:	121.4	@	13.1
Average Corrected Modified Proctor:	131.4	@	9.7
Cumulative cubic yards:	104,866		
Composite Hydraulic Conductivity:	pend		

FOR INFORMATION ONLY

29-Sep-03

STOCKPILE 03-13

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/8/2003	LP03-88	1500	12.3	120.7 121.6	13.0 12.7	129.0 129.8	10.0 9.8	32	15	17	67.7	27.0	(CL) Sandy Lean Clay	pend
9/9/2003	LP03-89	3000	13.4	120.0 121.4	13.2 12.7	— —	— —	29	15	14	69.6	28.0	(CL) Sandy Lean Clay	
9/9/2003	LP03-93	4500	10.4			131.9 133.5	9.1 8.7	29	14	15	68.4	26.0	(CL) Sandy Lean Clay	
9/9/2003	LP03-94	6000	13.6					31	15	16	69.9	26.0	(CL) Sandy Lean Clay	
9/10/2003	LP03-95	7500	12.6					27	14	13	68.4	25.0	(CL) Sandy Lean Clay	
9/10/2003	LP03-96	9000	13.2					32	14	18	72.6	28.0	(CL) Lean Clay w/sand	
9/11/2003	LP03-98	9000+	12.8					32	15	17	72.3	27.5	(CL) Lean Clay w/sand	

Reported total yards, surveyed:	11,470
Converted total yards in place:	9,910
Average Stockpile Moisture:	12.6
Average Corrected Standard Proctor:	
Average Corrected Modified Proctor:	
Cumulative cubic yards:	114,776
Composite Hydraulic Conductivity:	

FOR INFORMATION ONLY

29-Sep-03

0001193

53967

STOCKPILE 03-14

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/10/2003	LP03-97	1500	12.5					29	15	14	68.6	24.5	(CL) Lean Clay w/sand	
9/11/2003	LP03-99	3000	12.7					31	15	16	68.7	25.0		
9/12/2003	LP03-100	4500	15.4					33	16	17	72.9	28.5		
9/16/2003	LP03-101	6000	12.4								66.1			
9/16/2003	LP03-102	7500	11.5											
9/17/2003	LP03-103	9000	12.4											
10/1/2003		9000+												

Reported total yards, surveyed:	11,084
Converted total yards in place:	9,577
Average Stockpile Moisture:	12.8
Average Corrected Standard Proctor:	
Average Corrected Modified Proctor:	
Cumulative cubic yards:	124,353
Composite Hydraulic Conductivity:	

FOR INFORMATION ONLY

1-Oct-03

STOCKPILE 03-15

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/17/2003	LP03-104	1500	13.1											
9/17/2003	LP03-105	3000	13.6											
9/19/2003	LP03-106	4500	13.2											
9/19/2003	LP03-107	6000	12.7											
9/24/2003	LP03-108	7500	11.8											
9/25/2003	LP03-109	9000	12.7											

Reported total yards, surveyed: 10,107
Converted total yards in place: 8,732
Average Stockpile Moisture: 12.9
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards: 133,085
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

29-Sep-03

STOCKPILE 03-16

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/25/2003	LP03-110	1500	13.0											
9/25/2003	LP03-111	3000	13.5											
9/26/2003	LP03-112	4500	13.3											
9/29/2003	LP03-113	6000	14.0											
		7500												
		9000												

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

30-Sep-03

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 05 October 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 320

The report period covered by Weekly Report No. 320 is from Monday, 29 September 2003 through Sunday, 5 October 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were 0.4 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Flour Fernald Construction (FFC) started and completed screening for stockpile SP03-16. Screening for stockpile SP03-17 was started and is ongoing. Approximately 12,000 cubic yards of material were screened during the week and 147,000 cubic yards (estimated ICY) have been screened to date.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly truck load totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	496	16	0	512
2	273	329	0	602
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
Total	769	345	0	1114

PER:C. Sukow/K. Badu-Tweneboah

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 05 October 03

WEEKLY REPORT NO. 320

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

FFC began seeding and placing erosion mat over the Cell 2 Cap. Seeding and erosion mat placement is ongoing.

Phase V – Cell 6 Liner Construction

The Istre Company (TIC) began deployment of the geotextile cushion layer on the primary GML and FFC followed with placement of No.78 stone and No. 57 stone for the leachate collection system (LCS) drainage layer and drainage corridor, respectively. FFC also installed the perforated LCS collection pipe in the drainage corridor. Installation of the geotextile cushion layer and LCS layer are ongoing.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
ACR-001, Rev. 2	Submittal Register	3 Oct 2003	No Comments
02100-002, Rev. 9	Proposed Cell 2 Top of Vegetative Soil Layer	2 Oct 2003	No Comments
02100-002, Rev. 10	Proposed Cell 2 Topsoil Layer	2 Oct 2003	No Comments
02280-003, Rev. 0	Notification of Construction Manager of biointrusion barrier material and choke stone shipment	3 Oct 2003	A
02930-001, Rev. 0	Mixes and application rate for seed, mulch, fertilizers and crusting agents	3 Oct 2003	C w/Comments
02930-002, Rev. 0	Manuf's product data and recommended methods for application of seed	3 Oct 2003	No Comments
02930-005, Rev. 0	Manuf's cert. for seed mixture, %age of weed content, germination,...	3 Oct 2003	C w/Comments

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 05 October 03

WEEKLY REPORT NO. 320

Construction Submittal Review (Cont'd)

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02770-012, Rev. 0	Cell 6 Leak Detection Testing Rep.	3 Oct 2003	A
02772-001, Rev. 0	Cell 6 subgrade acceptance cert.	3 Oct 2003	A

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec showed representatives from USEPA, Tetra Tech, DOE and Fluor Fernald the Cell 6 primary liner extrusion-welded seams that were repaired and those not repaired during their field visit on 30 September 2003.

GeoSyntec reviewed progress survey certification data for the topsoil layer in the Cell 2 Final Cover during the period.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were 8 samples collected during the report period. A total of 106 samples have been collected to date. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached.

EKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 05 October 03

WEEKLY REPORT NO. 320

Construction Quality Control (CQC) (Cont'd)

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored seeding and the placement of erosion mat during the report period.

Phase V – Cell 6 Liner Construction

CQC monitored the installation of the geotextile cushion layer and placement of the No.78 stone over the primary GML. Close monitoring was performed to assure that wrinkles in the underlying geosynthetics were minimized during the placement of the drainage layer.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 29 September 2003 covered cold stress prevention.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. B. Habermehl,
5. R. Hastie,
6. C. Walker,
7. S. Schaeffer (part time), and
8. S. Abney

STOCKPILE 03-12

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/27/2003	LP03-81	1500	13.9	118.2 119.5	14.3 13.8	128.3 129.4	10.3 10.0	32	16	16	71.7	27.0	(CL) Lean Clay w/sand	5.9E-08 —
8/27/2003	LP03-82	3000	14.7	118.3 119.5	13.9 13.5	— —	— —	30	16	14	73.6	28.0	(CL) Lean Clay w/sand	— —
8/28/2003	LP03-84	4500	13.5	122.4 124.0	12.9 12.4	130.4 131.8	9.8 9.4	28	14	14	66.4	26.0	(CL) Sandy Lean Clay	— —
8/28/2003	LP03-85	6000	12.7	118.9 119.6	14.2 14.0	— —	— —	29	15	14	74.9	27.5	(CL) Lean Clay w/sand	— —
8/29/2003	LP03-86	7500	11.3	120.7 121.4	13.6 13.2	131.5 133.0	10.0 9.6	31	16	15	67.4	27.0	(CL) Sandy Lean Clay	— —
9/8/2003	LP03-87	9000	12.2	123.0 124.5	12.0 11.5	— —	— —	29	16	13	67.4	25.0	(CL) Sandy Lean Clay	— —

Reported total yards, surveyed:	9,958		
Converted total yards in place:	8,604		
Average Stockpile Moisture:	13.1		
Average Corrected Standard Proctor:	121.4	@	13.1
Average Corrected Modified Proctor:	131.4	@	9.7
Cumulative cubic yards:	104,866		
Composite Hydraulic Conductivity:	*8.E-08*		

FOR INFORMATION ONLY

3-Oct-03

000201

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STOCKPILE 03-13

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/8/2003	LP03-88	1500	12.3	120.7 121.6	13.0 12.7	129.0 129.8	10.0 9.8	32	15	17	67.7	27.0	(CL) Sandy Lean Clay	pend
9/9/2003	LP03-89	3000	13.4	120.0 121.4	13.2 12.7	— —	— —	29	15	14	69.6	28.0	(CL) Sandy Lean Clay	— —
9/9/2003	LP03-93	4500	10.4			131.9 133.5	9.1 8.7	29	14	15	68.4	26.0	(CL) Sandy Lean Clay	— —
9/9/2003	LP03-94	6000	13.6	119.0 120.4	14.8 14.3	— —	— —	31	15	16	69.9	26.0	(CL) Sandy Lean Clay	— —
9/10/2003	LP03-95	7500	12.6					27	14	13	68.4	25.0	(CL) Sandy Lean Clay	— —
9/10/2003	LP03-96	9000	13.2	117.6 118.6	14.5 14.1	— —	— —	32	14	18	72.6	28.0	(CL) Lean Clay w/sand	— —
9/11/2003	LP03-98	9000+	12.8	119.1 120.7	13.6 13.0	128.8 130.2	11.2 10.8	32	15	17	72.3	27.5	(CL) Lean Clay w/sand	— —

Reported total yards, surveyed:	11,470		
Converted total yards in place:	9,910		
Average Stockpile Moisture:	12.6		
Average Corrected Standard Proctor:	121.4	@	15.2
Average Corrected Modified Proctor:	131.5	@	9.7
Cumulative cubic yards:	114,776		
Composite Hydraulic Conductivity:	pend		

FOR INFORMATION ONLY

3-Oct-03

000202

53 67

STOCKPILE 03-14

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/10/2003	LP03-97	1500	12.5	121.5 122.9	12.6 12.2	133.4 132.1	9.4 9.7	29	15	14	68.6	24.5	(CL) Sandy Lean Clay	
9/11/2003	LP03-99	3000	12.7					31	15	16	68.7	25.0	(CL) Sandy Lean Clay	
9/12/2003	LP03-100	4500	15.4					33	16	17	72.9	28.5	(CL) Lean Clay w/sand	
9/16/2003	LP03-101	6000	12.4					29	15	14	66.1	pend	(CL) Sandy Lean Clay	
9/16/2003	LP03-102	7500	11.5					27	15	13	69.1	pend	(CL) Sandy Lean Clay	
9/17/2003	LP03-103	9000	12.4					31	15	16	69.1	pend	(CL) Sandy Lean Clay	
10/1/2003	LP03-119	9000+	16.6											

Reported total yards, surveyed: 11,084
Converted total yards in place: 9,577
Average Stockpile Moisture: 13.4
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards: 124,353
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

3-Oct-03

000203

53-67

STOCKPILE 03-15

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/17/2003	LP03-104	1500	13.1								68.3	pend		
9/17/2003	LP03-105	3000	13.6								68.7	pend		
9/19/2003	LP03-106	4500	13.2								72.4	pend		
9/19/2003	LP03-107	6000	12.7								69.6	pend		
9/24/2003	LP03-108	7500	11.8											
9/25/2003	LP03-109	9000	12.7											

Reported total yards, surveyed:	10,107
Converted total yards in place:	8,732
Average Stockpile Moisture:	12.9
Average Corrected Standard Proctor:	
Average Corrected Modified Proctor:	
Cumulative cubic yards:	133,085
Composite Hydraulic Conductivity:	

FOR INFORMATION ONLY

3-Oct-03

000204

5367

STOCKPILE 03-16

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/25/2003	LP03-110	1500	13.0											
9/25/2003	LP03-111	3000	13.5											
9/26/2003	LP03-112	4500	13.3											
9/29/2003	LP03-113	6000	14.0											
9/29/2003	LP03-114	7500	13.0											
9/30/2003	LP03-118	9000	13.6											

Reported total yards, surveyed:	9,952
Converted total yards in place:	8,599
Average Stockpile Moisture:	13.4
Average Corrected Standard Proctor:	
Average Corrected Modified Proctor:	
Cumulative cubic yards:	141,684
Composite Hydraulic Conductivity:	

FOR INFORMATION ONLY

2-Oct-03

000205

53367

STOCKPILE 03-17

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
10/1/2003	LP03-120	1500	12.5											
10/2/2003	LP03-121	3000												
10/3/2003	LP03-122	4500												
10/3/2003	LP03-123	6000												
		7500												
		9000												

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

3-Oct-03

000206

53 67

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 12 October 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 321

The report period covered by Weekly Report No. 321 is from Monday, 6 October 2003 through Sunday, 12 October 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were 0.2 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening of Compacted Clay Liner and Cap material continued during the report period. Flour Fernald Construction (FFC) started and completed screening for stockpile SP03-17. Screening for compacted clay liner has been completed for the year. Approximately 4,500 cubic yards of material were screened during the week and 151,500 cubic yards (estimated ICY) was screened this year.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Weekly truck load totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	610	62	0	672
2	5	115	0	120
3	0	0	0	0
4	20	0	0	20
5	0	0	0	0
Total	635	177	0	812

000207

PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ3211 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 12 October 03

WEEKLY REPORT NO. 321

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

FFC began seeding and placing erosion mat over the Cell 2 Cap. Seeding and erosion mat placement operations are ongoing.

Phase V – Cell 6 Liner Construction

The Istre Company (TIC) completed deployment of the geotextile cushion layer on the primary GML and FFC followed with placement of No.78 stone and No. 57 stone for the leachate collection system (LCS) drainage layer and drainage corridor, respectively. Placement of the LCS drainage layer was completed, fine grading is ongoing.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02770-011, Rev. 0	Work Plan for RLD Testing of Cell 6 Primary GML After placement of LCS Gravel	10 Oct 2003	No Comments

PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 12 October 03

WEEKLY REPORT NO. 321

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec prepared a preliminary draft addendum to the Impacted Material Placement (IMP) Plan for the potential use of soil mixed with concrete rubble as Category 1 material for select use in the OSDF placement activities. The preliminary draft addendum was issued to Fluor Fernald Engineering for comment.

GeoSyntec reviewed progress survey certification data for the top of leachate collection system (LCS) drainage layer in the Cell 6 liner system during the period.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There were 3 samples collected during the report period. A total of 109 samples have been collected to date. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored seeding and the placement of erosion mat during the report period.

Phase V – Cell 6 Liner Construction

CQC monitored the installation of the geotextile cushion layer and placement of the No.78 stone over the primary GML. Close monitoring was performed to assure that wrinkles in the underlying geosynthetics were minimized during the placement of the drainage layer.

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 12 October 03

WEEKLY REPORT NO. 321

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 6 October 2003 covered home fire safety.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. B. Habermehl,
5. R. Hastie,
6. C. Walker,
7. S. Schaeffer, and
8. S. Abney

PER:C. Sukow/K. Badu-Tweneboah

STOCKPILE 03-10

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/18/2003	LP03-67	1500	11.0	120.4 121.8	12.6 12.2	131.1 132.4	9.8 9.5	30	15	15	70.3	28.0	(CL) Lean Clay w/sand	— —
8/19/2003	LP03-68	3000	13.1	117.6 119.9	14.1 13.3	— —	— —	31	15	16	70.0	24.5	(CL) Lean Clay w/sand	— —
8/20/2003	LP03-69	4500	14.1	119.2 119.9	13.1 12.9	129.4 130.0	10.1 9.9	30	16	14	72.7	27.0	(CL) Sandy Lean Clay	— —
8/20/2003	LP03-70	6000	14.3	120.6 120.0	13.3 13.1	— —	— —	30	17	13	68.6	27.0	(CL) Sandy Lean Clay	— —
8/21/2003	LP03-71	7500	12.6	119.0 121.2	13.9 13.1	128.9 130.3	10.1 9.7	31	16	15	71.4	27.0	(CL) Lean Clay w/sand	— —
8/21/2003	LP03-72	9000	12.9	119.6 121.2	13.5 13.0	— —	— —	30	15	15	71.1	27.0	(CL) Lean Clay w/sand	— —
8/26/2003	LP03-78	9000+	10.7	121.7 123.6	12.5 11.9	130.8 132.4	9.2 8.8	27	14	13	69.5	25.0	(CL) Sandy Lean Clay	3.50E-08

Reported total yards, surveyed:	10,449		
Converted total yards in place:	9,028		
Average Stockpile Moisture:	12.7		
Average Corrected Standard Proctor:	121.1	@	12.8
Average Corrected Modified Proctor:	130.9	@	9.6
Cumulative cubic yards:	86,303		
Composite Hydraulic Conductivity:	2.9E-08		

FOR INFORMATION ONLY **8-Oct-03**
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

STOCKPILE 03-11

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/22/2003	LP03-74	1500	9.4	120.8 122.2	13.0 12.6	132.0 133.2	9.7 9.4	29	15	14	69.8	27.0	(CL) Sandy Lean Clay	9.0E-08 —
8/22/2003	LP03-75	3000	13.8	114.9 116.4	15.0 14.5	— —	— —	33	16	17	74.2	30.0	(CL) Lean Clay w/sand	— —
8/25/2003	LP03-76	4500	11.0	121.2 122.0	13.2 12.9	132.0 132.7	9.1 8.9	27	15	12	68.8	26.5	(CL) Sandy Lean Clay	— —
8/25/2003	LP03-77	6000	11.9	120.7 122.2	13.4 12.9	— —	— —	29	15	14	66.1	28.5	(CL) Sandy Lean Clay	— —
8/26/2003	LP03-79	7500	11.9	117.9 118.5	15.0 14.8	128.7 129.2	10.0 9.9	31	16	15	76.4	31.0	(CL) Lean Clay w/sand	— —
8/26/2003	LP03-80	9000	13.2	119.0 119.8	13.5 13.2	— —	— —	30	16	14	70.8	30.0	(CL) Lean Clay w/sand	— —
8/27/2003	LP03-83	9000+	13.7	117.0 118.3	15.1 14.6	129.5 130.6	10.4 10.1	32	17	15	74.4	29.5	(CL) Lean Clay w/sand	— —

Reported total yards, surveyed:	11,527		
Converted total yards in place:	9,959		
Average Stockpile Moisture:	12.1		
Average Corrected Standard Proctor:	119.9	@	13.6
Average Corrected Modified Proctor:	131.4	@	9.6
Cumulative cubic yards:	96,262		
Composite Hydraulic Conductivity:	4.1E-08		

FOR INFORMATION ONLY
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

8-Oct-03

000212

5367

STOCKPILE 03-12

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
8/27/2003	LP03-81	1500	13.9	118.2 119.5	14.3 13.8	128.3 129.4	10.3 10.0	32	16	16	71.7	27.0	(CL) Lean Clay w/sand	5.9E-08 —
8/27/2003	LP03-82	3000	14.7	118.3 119.5	13.9 13.5	— —	— —	30	16	14	73.6	28.0	(CL) Lean Clay w/sand	— —
8/28/2003	LP03-84	4500	13.5	122.4 124.0	12.9 12.4	130.4 131.8	9.8 9.4	28	14	14	66.4	26.0	(CL) Sandy Lean Clay	— —
8/28/2003	LP03-85	6000	12.7	118.9 119.6	14.2 14.0	— —	— —	29	15	14	74.9	27.5	(CL) Lean Clay w/sand	— —
8/29/2003	LP03-86	7500	11.3	120.7 121.4	13.6 13.2	131.5 133.0	10.0 9.6	31	16	15	67.4	27.0	(CL) Sandy Lean Clay	— —
9/8/2003	LP03-87	9000	12.2	123.0 124.5	12.0 11.5	— —	— —	29	16	13	67.4	25.0	(CL) Sandy Lean Clay	— —

Reported total yards, surveyed:	9,958		
Converted total yards in place:	8,604		
Average Stockpile Moisture:	13.1		
Average Corrected Standard Proctor:	121.4	@	13.1
Average Corrected Modified Proctor:	131.4	@	9.7
Cumulative cubic yards:	104,866		
Composite Hydraulic Conductivity:	8.5E-08		

FOR INFORMATION ONLY
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

6-Oct-03

000213

5367

STOCKPILE 03-13

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/8/2003	LP03-88	1500	12.3	120.7 121.6	13.0 12.7	129.0 129.8	10.0 9.8	32	15	17	67.7	27.0	(CL) Sandy Lean Clay	3.0E-08
9/9/2003	LP03-89	3000	13.4	120.0 121.4	13.2 12.7	— —	— —	29	15	14	69.6	28.0	(CL) Sandy Lean Clay	— —
9/9/2003	LP03-93	4500	10.4	121.9 123.7	12.5 11.9	131.9 133.5	9.1 8.7	29	14	15	68.4	26.0	(CL) Sandy Lean Clay	— —
9/9/2003	LP03-94	6000	13.6	119.0 120.4	14.8 14.3	— —	— —	31	15	16	69.9	26.0	(CL) Sandy Lean Clay	— —
9/10/2003	LP03-95	7500	12.6	122.5 123.6	13.0 12.6	131.6 132.6	9.9 9.6	27	14	13	68.4	25.0	(CL) Sandy Lean Clay	— —
9/10/2003	LP03-96	9000	13.2	117.6 118.6	14.5 14.1	— —	— —	32	14	18	72.6	28.0	(CL) Lean Clay w/sand	— —
9/11/2003	LP03-98	9000+	12.8	119.1 120.7	13.6 13.0	128.8 130.2	11.2 10.8	32	15	17	72.3	27.5	(CL) Lean Clay w/sand	— —

Reported total yards, surveyed:	11,470		
Converted total yards in place:	9,910		
Average Stockpile Moisture:	12.6		
Average Corrected Standard Proctor:	121.4	@	15.2
Average Corrected Modified Proctor:	131.5	@	9.7
Cumulative cubic yards:	114,776		
Composite Hydraulic Conductivity:	*4.E-08*		

FOR INFORMATION ONLY

9-Oct-03

STOCKPILE 03-14

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/10/2003	LP03-97	1500	12.5	121.5 122.9	12.6 12.2	132.1 133.4	9.7 9.4	29	15	14	68.6	24.5	(CL) Sandy Lean Clay	pend
9/11/2003	LP03-99	3000	12.7	120.7 122.2	13.5 13.0	— —	— —	31	15	16	68.7	25.0	(CL) Sandy Lean Clay	
9/12/2003	LP03-100	4500	15.4	118.7 119.7	14.1 13.8	129.5 130.3	10.6 10.4	33	16	17	72.9	28.5	(CL) Lean Clay w/sand	
9/16/2003	LP03-101	6000	12.4	121.2 123.4	12.2 11.5	— —	— —	29	15	14	66.1	22.0	(CL) Sandy Lean Clay	
9/16/2003	LP03-102	7500	11.5	123.5 124.4	12.2 11.9	131.9 132.7	9.9 9.7	27	15	13	69.1	23.0	(CL) Sandy Lean Clay	
9/17/2003	LP03-103	9000	12.4			— —	— —	31	15	16	69.1	24.0	(CL) Sandy Lean Clay	
10/1/2003	LP03-119	9000+	16.6	119.0 121.3	13.1 12.4	129.9 131.9	9.9 9.4				70.4			

Reported total yards, surveyed: 11,084
Converted total yards in place: 9,577
Average Stockpile Moisture: 13.4
Average Corrected Standard Proctor:
Average Corrected Modified Proctor: 131.8 @ 9.8
Cumulative cubic yards: 124,353
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

10-Oct-03

STOCKPILE 03-15

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/17/2003	LP03-104	1500	13.1					31	15	16	68.3	23.0	(CL) Sandy Lean Clay	
9/17/2003	LP03-105	3000	13.6					31	15	16	68.7	24.5	(CL) Sandy Lean Clay	
9/19/2003	LP03-106	4500	13.2					32	15	17	72.4	26.0	(CL) Lean Clay w/sand	
9/19/2003	LP03-107	6000	12.7					32	15	17	69.6	24.0	(CL) Sandy Lean Clay	
9/24/2003	LP03-108	7500	11.8					31	15	16	68.4	pend	(CL) Sandy Lean Clay	
9/25/2003	LP03-109	9000	12.7					32	15	17	71.0	pend	(CL) Lean Clay w/sand	

Reported total yards, surveyed:	10,107
Converted total yards in place:	8,732
Average Stockpile Moisture:	12.9
Average Corrected Standard Proctor:	
Average Corrected Modified Proctor:	
Cumulative cubic yards:	133,085
Composite Hydraulic Conductivity:	

FOR INFORMATION ONLY

10-Oct-03

STOCKPILE 03-16

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/25/2003	LP03-110	1500	13.0					32	15	17	73.1	pend	(CL) Lean Clay w/sand	
9/25/2003	LP03-111	3000	13.5					33	15	18	69.7	pend	(CL) Sandy Lean Clay	
9/26/2003	LP03-112	4500	13.3					31	15	16	71.1	pend	(CL) Lean Clay w/sand	
9/29/2003	LP03-113	6000	14.0								67.3	pend		
9/29/2003	LP03-114	7500	13.0								66.1	pend		
9/30/2003	LP03-118	9000	13.6											

Reported total yards, surveyed:	9,952
Converted total yards in place:	8,599
Average Stockpile Moisture:	13.4
Average Corrected Standard Proctor:	
Average Corrected Modified Proctor:	
Cumulative cubic yards:	141,684
Composite Hydraulic Conductivity:	

FOR INFORMATION ONLY

9-Oct-03

000217

5367

STOCKPILE 03-17

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
10/1/2003	LP03-120	1500	12.5											
10/2/2003	LP03-121	3000	14.3											
10/3/2003	LP03-122	4500	12.5											
10/3/2003	LP03-123	6000	12.4											
10/7/2003	LP03-124	7500	11.8											
10/8/2003	LP03-125	9000	12.1											
10/9/2003	LP03-126	9000+												

Reported total yards, surveyed:
Converted total yards in place:
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

9-Oct-03

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3221 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 19 October 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 322

The report period covered by Weekly Report No. 322 is from Monday, 13 October 2003 through Sunday, 19 October 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were 1.1 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Screening for compacted clay liner has been completed for the year. Approximately 151,500 cubic yards (estimated ICY) was screened this year. Fluor Fernald Construction (FFC) worked on building up the new construction laydown area, southeast of Cell 8 and northeast of the South Field Borrow Area (SFBA).

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Placement of general waste in Cell 3 has been completed and placement of the Category 1 select impacted material layer is ongoing. Weekly truckload totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	603	28	0	631
2	0	77	0	77
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
Total	603	105	0	708

000219

PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GO3221 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 19 October 03

WEEKLY REPORT NO. 322

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

FFC continued seeding and placing erosion mat over the Cell 2 Cap. Seeding and erosion mat placement and stapling operations are ongoing.

Phase V – Cell 6 Liner Construction

Fine grading of the LCS drainage layer was completed during the report period. Leak Location Services, Inc. (LLSI) performed leak detection testing of the primary liner geomembrane after placement of the LCS drainage layer.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 8	Cell 2 As-Built Topsoil Layer	13 Oct 2003	No Comments

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02710-003, Rev. 2	Supplier's certification of granular drainage layer material	15 Oct 2003	A
02772-001, Rev. 1	Cell 6 Subgrade acceptance cert.	15 Oct 2003	A

000220

PER: C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3221 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 19 October 03

WEEKLY REPORT NO. 322

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec incorporated comments from Fluor Fernald Engineering on the preliminary draft addendum to the Impacted Material Placement (IMP) Plan for the potential use of soil mixed with concrete rubble as Category 1 material for select use in the OSDF placement activities.

GeoSyntec completed review of progress survey certification data for the top of leachate collection system (LCS) drainage layer in the Cell 6 liner system during the period.

GeoSyntec issued memoranda to Fluor Fernald Construction on the confirmation of compliance of the: (i) compacted clay cap, cover drainage layer, biointrusion barrier layer, granular filter material, vegetative soil layer, and topsoil layer for the Phase IV2 - Cell 2 final cover construction; and (ii) compacted clay liner, leak detection system (LDS) drainage layer, and LCS drainage layer for the Phase V – Cell 6 liner construction.

GeoSyntec attended a 14 October 2003 meeting with Fluor Fernald to review and comment on a draft winter work plan document.

GeoSyntec attended a 16 October 2003 Valve House Alignment meeting with Fluor Fernald.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material being screened in the South Field Borrow Area. There was one sample collected during the report period. A total of 110 samples have been collected to date. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3221 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 19 October 03

WEEKLY REPORT NO. 322

Construction Quality Control (CQC) (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored seeding and the placement of erosion mat during the report period.

Phase V – Cell 6 Liner Construction

CQC periodically monitored the fine grading of the LCS drainage layer and the leak detection testing of the primary geomembrane liner.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 13 October 2003 covered hazards of working alone.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker (part-time),
5. B. Habermehl,
6. R. Hastie,
7. S. Schaeffer, and
8. S. Abney

STOCKPILE 03-13

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/8/2003	LP03-88	1500	12.3	120.7 121.6	13.0 12.7	129.0 129.8	10.0 9.8	32	15	17	67.7	27.0	(CL) Sandy Lean Clay	3.0E-08
9/9/2003	LP03-89	3000	13.4	120.0 121.4	13.2 12.7	— —	— —	29	15	14	69.6	28.0	(CL) Sandy Lean Clay	— —
9/9/2003	LP03-93	4500	10.4	121.9 123.7	12.5 11.9	131.9 133.5	9.1 8.7	29	14	15	68.4	26.0	(CL) Sandy Lean Clay	— —
9/9/2003	LP03-94	6000	13.6	119.0 120.4	14.8 14.3	— —	— —	31	15	16	69.9	26.0	(CL) Sandy Lean Clay	— —
9/10/2003	LP03-95	7500	12.6	122.5 123.6	13.0 12.6	131.6 132.6	9.9 9.6	27	14	13	68.4	25.0	(CL) Sandy Lean Clay	— —
9/10/2003	LP03-96	9000	13.2	117.6 118.6	14.5 14.1	— —	— —	32	14	18	72.6	28.0	(CL) Lean Clay w/sand	— —
9/11/2003	LP03-98	9000+	12.8	119.1 120.7	13.6 13.0	128.8 130.2	11.2 10.8	32	15	17	72.3	27.5	(CL) Lean Clay w/sand	— —

Reported total yards, surveyed:	11,470		
Converted total yards in place:	9,910		
Average Stockpile Moisture:	12.6		
Average Corrected Standard Proctor:	121.4	@	15.2
Average Corrected Modified Proctor:	131.5	@	9.7
Cumulative cubic yards:	114,776		
Composite Hydraulic Conductivity:	3.5E-08		

FOR INFORMATION ONLY
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

13-Oct-03

000223

5367

STOCKPILE 03-14

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/10/2003	LP03-97	1500	12.5	121.5 122.9	12.6 12.2	132.1 133.4	9.7 9.4	29	15	14	68.6	24.5	(CL) Sandy Lean Clay	6.0E-08
9/11/2003	LP03-99	3000	12.7	120.7 122.2	13.5 13.0	— —	— —	31	15	16	68.7	25.0	(CL) Sandy Lean Clay	
9/12/2003	LP03-100	4500	15.4	118.7 119.7	14.1 13.8	129.5 130.3	10.6 10.4	33	16	17	72.9	28.5	(CL) Lean Clay w/sand	
9/16/2003	LP03-101	6000	12.4	121.2 123.4	12.2 11.5	— —	— —	29	15	14	66.1	22.0	(CL) Sandy Lean Clay	
9/16/2003	LP03-102	7500	11.5	123.5 124.4	12.2 11.9	131.9 132.7	9.9 9.7	27	15	13	69.1	23.0	(CL) Sandy Lean Clay	
9/17/2003	LP03-103	9000	12.4	121.1 122.5	13.1 12.6	— —	— —	31	15	16	69.1	24.0	(CL) Sandy Lean Clay	
10/1/2003	LP03-119	9000+	16.6	119.0 121.3	13.1 12.4	129.9 131.9	9.9 9.4	29	14	15	70.4	26.0	(CL) Lean Clay w/sand	

Reported total yards, surveyed:	11,084		
Converted total yards in place:	9,577		
Average Stockpile Moisture:	13.4		
Average Corrected Standard Proctor:	122.3	@	12.5
Average Corrected Modified Proctor:	131.8	@	9.8
Cumulative cubic yards:	124,353		
Composite Hydraulic Conductivity:	3.5E-08		

FOR INFORMATION ONLY **17-Oct-03**
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

000224

53367

STOCKPILE 03-15

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/17/2003	LP03-104	1500	13.1	120.1 121.9	13.7 13.1	130.0 131.5	10.0 9.6	31	15	16	68.3	23.0	(CL) Sandy Lean Clay	
9/17/2003	LP03-105	3000	13.6	123.7 125.1	12.7 12.2	— —	— —	31	15	16	68.7	24.5	(CL) Sandy Lean Clay	
9/19/2003	LP03-106	4500	13.2	119.4 120.1	13.9 13.6	129.2 129.8	10.8 10.6	32	15	17	72.4	26.0	(CL) Lean Clay w/sand	pend
9/19/2003	LP03-107	6000	12.7	120.6 121.9	13.5 13.0	— —	— —	32	15	17	69.6	24.0	(CL) Sandy Lean Clay	
9/24/2003	LP03-108	7500	11.8	120.7 122.8	13.5 12.8	129.7 131.6	10.0 9.5	31	15	16	68.4	25.0	(CL) Sandy Lean Clay	
9/25/2003	LP03-109	9000	12.7	120.7 122.4	12.5 12.0	— —	— —	32	15	17	71.0	27.5	(CL) Lean Clay w/sand	

Reported total yards, surveyed:	10,107		
Converted total yards in place:	8,732		
Average Stockpile Moisture:	12.9		
Average Corrected Standard Proctor:	122.4	@	12.8
Average Corrected Modified Proctor:	131.0	@	9.9
Cumulative cubic yards:	133,085		
Composite Hydraulic Conductivity:	pend		

FOR INFORMATION ONLY

17-Oct-03

000225

53367

STOCKPILE 03-16

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/25/2003	LP03-110	1500	13.0					32	15	17	73.1	28.0	(CL) Lean Clay w/sand	
9/25/2003	LP03-111	3000	13.5					33	15	18	69.7	28.5	(CL) Sandy Lean Clay	
9/26/2003	LP03-112	4500	13.3	121.5 122.9	13.1 12.6			31	15	16	71.1	28.5	(CL) Lean Clay w/sand	
9/29/2003	LP03-113	6000	14.0					30	16	14	67.3	25.0	(CL) Sandy Lean Clay	
9/29/2003	LP03-114	7500	13.0					29	15	14	66.1	26.0	(CL) Sandy Lean Clay	
9/30/2003	LP03-118	9000	13.6					30	15	15	65.4	pend	(CL) Sandy Lean Clay	

Reported total yards, surveyed:	9,952
Converted total yards in place:	8,599
Average Stockpile Moisture:	13.4
Average Corrected Standard Proctor:	
Average Corrected Modified Proctor:	
Cumulative cubic yards:	141,684
Composite Hydraulic Conductivity:	

FOR INFORMATION ONLY

18-Oct-03

STOCKPILE 03-17

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
10/1/2003	LP03-120	1500	12.5					30	15	15	68.2	pend	(CL) Sandy Lean Clay	
10/2/2003	LP03-121	3000	14.3					31	15	16	69.7	pend	(CL) Sandy Lean Clay	
10/3/2003	LP03-122	4500	12.5					28	15	13	64.0	pend	(CL) Sandy Lean Clay	
10/3/2003	LP03-123	6000	12.4					29	15	14	70.0	pend	(CL) Lean Clay w/sand	
10/7/2003	LP03-124	7500	11.8					28	14	14		pend		
10/8/2003	LP03-125	9000	12.1									pend		
10/9/2003	LP03-126	10500	12.3									pend		
########	LP03-127	10500+	13.1									pend		

Reported total yards, surveyed:	13,662
Converted total yards in place:	11,804
Average Stockpile Moisture:	12.6
Average Corrected Standard Proctor:	
Average Corrected Modified Proctor:	
Cumulative cubic yards:	153,488
Composite Hydraulic Conductivity:	

18-Oct-03

FOR INFORMATION ONLY

000227

5367

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3231 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 26 October 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 323

The report period covered by Weekly Report No. 323 is from Monday, 20 October 2003 through Sunday, 26 October 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there was no rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

Fluor Fernald Construction (FFC) worked on building up the new construction laydown area, southeast of Cell 8 and northeast of the South Field Borrow Area (SFBA).

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Placement of general impacted materials (Category 1 through 5) in Cell 3 has been completed and placement of the Category 1 select impacted material layer for the final cover system is ongoing. Weekly truckload totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	329	267	0	596
2	1	364	0	365
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
Total	330	631	0	961

000228

PER: C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

/EEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3231 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 26 October 03

WEEKLY REPORT NO. 323

Construction Progress (cont'd)

FFC completed seeding and placing erosion mat over the Cell 2 Cap. Erosion mat stapling is ongoing.

Phase V – Cell 6 Liner Construction

FFC began installing the geotextile filter over the LCS drainage layer in preparation for placement of the impacted and non-impacted protective layer in Cell 6. Non-impacted material was placed over the Cell 6 and Cell 7 intercell berm and No. 78 stone was placed in the Cell 6 runoff catchment area.

FFC placed and compacted fill material for the primary anchor trenches of Cell 6. FFC also constructed the east clay wedge for Cell 6.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 9	Cell 2 As-Built Top of Granular Filter Layer	20 Oct 2003	No Comments
02100-005, Rev. 10	Cell 2 As-Built Vegetative Soil Layer	20 Oct 2003	No Comments

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 4	Cell 6 LDS As-Built Drawing	20 Oct 2003	No Comments

PER: C. Sukow/K. Badu-Tweneboah

EEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3231 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 26 October 03

WEEKLY REPORT NO. 323

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

GeoSyntec incorporated comments from Fluor Fernald Engineering on the preliminary draft addendum to the Impacted Material Placement (IMP) Plan for the potential use of soil mixed with concrete rubble as Category 1A material for select use in the OSDF placement activities.

GeoSyntec reviewed progress survey certification data for the top of non-impacted protective layer in the Cell 6 runoff catchment area during the period.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC continued testing Compacted Clay Liner and Cap material collected from the screened stockpiles in the South Field Borrow Area. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored seeding and the placement and stapling of erosion mat during the report period.

Phase V – Cell 6 Liner Construction

CQC monitored the placement of the geotextile filter over the LCS drainage layer. Sewn seams were inspected to ensure the repair of any thread skips. CQC also monitored the placement of the non-impacted protective layer over the Cell 6 runoff catchment area and the south side of the Cell 6/Cell 7 intercell berm

CQC monitored and tested the placement and compaction of materials for the primary anchor trenches and east clay wedge.

PER: C. Sukow/K. Badu-Tweneboah

EEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION:FERNALD, OHIO PROJECT NO.:GQ3231 TASK NO.:04
DESCRIPTION:PHASE IV2 & V CONSTRUCTION WEEK ENDING: 26 October 03

WEEKLY REPORT NO. 323

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 20 October 2003 covered how to avoid repeating accidents.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. R. Hastie,
7. S. Schaeffer, and
8. S. Abney

PER:C. Sukow/K. Badu-Tweneboah

STOCKPILE 03-15

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/17/2003	LP03-104	1500	13.1	120.1 121.9	13.7 13.1	130.0 131.5	10.0 9.6	31	15	16	68.3	23.0	(CL) Sandy Lean Clay	— —
9/17/2003	LP03-105	3000	13.6	123.7 125.1	12.7 12.2	— —	— —	31	15	16	68.7	24.5	(CL) Sandy Lean Clay	— —
9/19/2003	LP03-106	4500	13.2	119.4 120.1	13.9 13.6	129.2 129.8	10.8 10.6	32	15	17	72.4	26.0	(CL) Lean Clay w/sand	3.50E-08 —
9/19/2003	LP03-107	6000	12.7	120.6 121.9	13.5 13.0	— —	— —	32	15	17	69.6	24.0	(CL) Sandy Lean Clay	— —
9/24/2003	LP03-108	7500	11.8	120.7 122.8	13.5 12.8	129.7 131.6	10.0 9.5	31	15	16	68.4	25.0	(CL) Sandy Lean Clay	— —
9/25/2003	LP03-109	9000	12.7	120.7 122.4	12.5 12.0	— —	— —	32	15	17	71.0	27.5	(CL) Lean Clay w/sand	— —

Reported total yards, surveyed:	10,107		
Converted total yards in place:	8,732		
Average Stockpile Moisture:	12.9		
Average Corrected Standard Proctor:	122.4	@	12.8
Average Corrected Modified Proctor:	131.0	@	9.9
Cumulative cubic yards:	133,085		
Composite Hydraulic Conductivity:	2.7E-08		

FOR INFORMATION ONLY
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

23-Oct-03

STOCKPILE 03-16

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
9/25/2003	LP03-110	1500	13.0	118.5	14.5	129.1	11.1	32	15	17	73.1	28.0	(CL)	—
				119.6	14.1	130.0	10.8						Lean Clay w/sand	—
9/25/2003	LP03-111	3000	13.5	119.8	14.0	—	—	33	15	18	69.7	28.5	(CL)	—
				121.0	13.6	—	—						Sandy Lean Clay	—
9/26/2003	LP03-112	4500	13.3	121.5	13.1	130.9	10.2	31	15	16	71.1	28.5	(CL)	3.20E-08
				122.9	12.6	132.1	9.9						Lean Clay w/sand	—
9/29/2003	LP03-113	6000	14.0	119.6	13.9	130.9	10.5	30	16	14	67.3	25.0	(CL)	—
				121.7	13.2	132.7	10.0						Sandy Lean Clay	—
9/29/2003	LP03-114	7500	13.0	121.0	13.8	—	—	29	15	14	66.1	26.0	(CL)	—
				123.3	13.0	—	—						Sandy Lean Clay	—
9/30/2003	LP03-118	9000	13.6	122.8	12.8	—	—	30	15	15	65.4	27.0	(CL)	—
				123.9	12.4	—	—						Sandy Lean Clay	—

Reported total yards, surveyed:	9,952		
Converted total yards in place:	8,599		
Average Stockpile Moisture:	13.4		
Average Corrected Standard Proctor:	122.1	@	13.2
Average Corrected Modified Proctor:	131.6	@	10.2
Cumulative cubic yards:	141,684		
Composite Hydraulic Conductivity:	3.5E-08		

FOR INFORMATION ONLY
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

24-Oct-03

STOCKPILE 03-17

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
10/1/2003	LP03-120	1500	12.5	123.1 125.5	12.1 11.4	— —	— —	30	15	15	68.2	27.0	(CL) Sandy Lean Clay	— —
10/2/2003	LP03-121	3000	14.3	120.1 121.7	13.1 12.6	130.0 131.3	10.5 10.1	31	15	16	69.7	28.5	(CL) Sandy Lean Clay	pend —
10/3/2003	LP03-122	4500	12.5	123.7 125.5	12.6 12.0	130.1 131.7	10.0 9.6	28	15	13	64.0	27.0	(CL) Sandy Lean Clay	— —
10/3/2003	LP03-123	6000	12.4			— —	— —	29	15	14	70.0	28.0	(CL) Lean Clay w/sand	— —
10/7/2003	LP03-124	7500	11.8	123.2 125.4	12.9 12.2	132.3 134.2	9.5 9.0	28	14	14	66.5	26.5	(CL) Sandy Lean Clay	— —
10/8/2003	LP03-125	9000	12.1	122.7 125.9	13.2 12.1	— —	— —	30	15	15	64.9	23.0	(CL) Sandy Lean Clay	— —
10/9/2003	LP03-126	10500	12.3			131.1 132.8	9.4 9.0	29	15	14	68.2	25.0	(CL) Sandy Lean Clay	— —
10/14/2003	LP03-127	10500+	13.1			— —	— —	30	15	15	67.9	25.0	(CL) Sandy Lean Clay	— —

Reported total yards, surveyed:	13,662		
Converted total yards in place:	11,804		
Average Stockpile Moisture:	12.6		
Average Corrected Standard Proctor:	123.7	@	12.5
Average Corrected Modified Proctor:	132.5	@	9.4
Cumulative cubic yards:	153,488		
Composite Hydraulic Conductivity:			

FOR INFORMATION ONLY

24-Oct-03

0000234

5367

STOCKPILE 03-18

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
10/22/2003	LP03-131	1500	15.6											
10/22/2003	LP03-132	3000	16.3											
10/22/2003	LP03-133	4500	15.4											
10/23/2003	LP03-134	6000	16.7											
10/23/2003	LP03-135	7500	17.9											
10/24/2003	LP03-136	9000												

Reported total yards, surveyed: 0
Converted total yards in place: 0
Average Stockpile Moisture:
Average Corrected Standard Proctor:
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

FOR INFORMATION ONLY

24-Oct-03

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 02 November 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 64	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Willie Frazier, Fluor Fernald	MS 52-5	Don Pfister, DOE	MS 45
Neil Davies, Geosyntec	Atlanta	Dave Phillips, GeoSyntec	Atlanta

WEEKLY REPORT NO. 324

The report period covered by Weekly Report No. 324 is from Monday, 27 October 2003 through Sunday, 2 November 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were 1.1 inches rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No field activities during the report period.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Placement of general impacted materials (Category 1 through 5) in Cell 3 has been completed and placement of the Category 1 select impacted material layer for the final cover system is ongoing. Weekly truckload totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	115	536	0	651
2	2	173	0	175
3	0	0	0	0
4	0	0	0	0
5	0	8	0	8
Total	117	717	0	834

000236

PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 02 November 03

WEEKLY REPORT NO. 324

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

FFC continued erosion mat stapling during the report period.

Phase V – Cell 6 Liner Construction

Non-impacted material was placed over the Cell 6 and Cell 7 intercell berm for the impacted material haul road. Non-impacted protective layer material was also placed on the south side of the Cell 6 and Cell 7 intercell berm during the period. FFC constructed the west clay wedge for Cell 6 and began construction of the Cell 7 east berm. FFC also continued to strip excess topsoil and excavate the footprint of Cell 7.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-005, Rev. 11	Cell 2 As-Built Top Riprap Layer	29 Oct 2003	No Comments

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02100-002, Rev. 5	Cell 6 Proposed Top of Protective Layer Drawing	29 Oct 2003	No Comments
02100-005, Rev. 5	Cell 6 LCS As-Built Drawing	29 Oct 2003	No Comments

000237

PER: C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 02 November 03

WEEKLY REPORT NO. 324

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

RCI No. 20105-00xR was initiated by GeoSyntec to propose a placement method for "Ric-Wil" pipes containing asbestos insulation material that are part of the D&D of the Service Building and are destined to be placed in the OSDF cells. This draft RCI is currently under review by Fluor Engineering.

GeoSyntec reviewed a draft letter from Fluor Fernald and DOE to USEPA and Ohio EPA concerning completion of the second-phase of the leak location testing of the Cell 6 primary liner geomembrane following installation of the geotextile cushion layer and placement of the overlying LCS granular drainage layer material. The purpose of this letter was to obtain approval from the Regulatory Agencies to allow continuation of the Cell 6 liner system construction, including placement of the impacted protective layer material.

GeoSyntec incorporated comments from Fluor Fernald Engineering on Addendum 5 to the Impacted Material Placement (IMP) Plan for the potential use of soil mixed with concrete rubble as Category 1A material for select use in the OSDF placement activities.

GeoSyntec reviewed progress survey certification data for the top of non-impacted protective layer on the Cell 6 and Cell 7 intercell berm during the report period.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC completed on site testing of Compacted Clay Liner and Cap material collected from the screened clay material stockpiles in the South Field Borrow Area. Remolded permeability testing for the final stockpile is ongoing. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 02 November 03

WEEKLY REPORT NO. 324

Construction Quality Control (CQC) (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored the stapling of erosion mat during the report period.

Phase V – Cell 6 Liner Construction

CQC monitored and tested the placement and compaction of soil materials for the west clay wedge, Cell 6 and Cell 7 impacted material haul road, and Cell 7 east berm.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 28 October 2003 covered overhead crane safety.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. R. Hastie,
7. S. Schaeffer, and
8. S. Abney

000239

STOCKPILE 03-17

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
10/1/2003	LP03-120	1500	12.5	123.1 125.5	12.1 11.4	— —	— —	30	15	15	68.2	27.0	(CL) Sandy Lean Clay	— —
10/2/2003	LP03-121	3000	14.3	120.1 121.7	13.1 12.6	130.0 131.3	10.5 10.1	31	15	16	69.7	28.5	(CL) Sandy Lean Clay	3.80E-08 —
10/3/2003	LP03-122	4500	12.5	123.7 125.5	12.6 12.0	130.1 131.7	10.0 9.6	28	15	13	64.0	27.0	(CL) Sandy Lean Clay	— —
10/3/2003	LP03-123	6000	12.4	119.7 120.6	14.1 13.8	— —	— —	29	15	14	70.0	28.0	(CL) Lean Clay w/sand	— —
10/7/2003	LP03-124	7500	11.8	123.2 125.4	12.9 12.2	132.3 134.2	9.5 9.0	28	14	14	66.5	26.5	(CL) Sandy Lean Clay	— —
10/8/2003	LP03-125	9000	12.1	122.7 125.9	13.2 12.1	— —	— —	30	15	15	64.9	23.0	(CL) Sandy Lean Clay	— —
10/9/2003	LP03-126	10500	12.3	120.4 122.3	13.6 12.9	131.1 132.8	9.4 9.0	29	15	14	68.2	25.0	(CL) Sandy Lean Clay	— —
10/14/2003	LP03-127	10500+	13.1	121.4 122.9	13.3 12.8	— —	— —	30	15	15	67.9	25.0	(CL) Sandy Lean Clay	— —

Reported total yards, surveyed:	13,662		
Converted total yards in place:	11,804		
Average Stockpile Moisture:	12.6		
Average Corrected Standard Proctor:	123.7	@	12.5
Average Corrected Modified Proctor:	132.5	@	9.4
Cumulative cubic yards:	153,488		
Composite Hydraulic Conductivity:	5.9E-08		

FOR INFORMATION ONLY
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

31-Oct-03

000240

53 67

STOCKPILE 03-18

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
10/22/2003	LP03-131	1500	15.6	118.6 120.2	14.2 13.6	129.1 130.5	10.9 10.5	32	15	17	69.7	pend	(CL) Sandy Lean Clay	pend —
10/22/2003	LP03-132	3000	16.3	119.2 120.6	14.4 13.9	— —	— —	33	14	19	72.6	pend	(CL) Lean Clay w/sand	— —
10/22/2003	LP03-133	4500	15.4	117.0 118.4	15.1 14.6	128.8 130.0	11.0 10.6	33	16	17	72.5	pend	(CL) Lean Clay w/sand	— —
10/23/2003	LP03-134	6000	16.7	117.5 118.5	14.1 13.8	— —	— —	33	15	18	73.7	pend	(CL) Lean Clay w/sand	— —
10/23/2003	LP03-135	7500	17.9	117.3 119.0	14.7 13.7	130.6 132.0	10.1 9.7	33	15	18	71.5	pend	(CL) Lean Clay w/sand	— —
10/24/2003	LP03-136	9000	15.9	117.5 118.8	14.7 14.2	— —	— —	33	16	17	71.8	pend	(CL) Lean Clay w/sand	— —

Reported total yards, surveyed:	0		
Converted total yards in place:	0		
Average Stockpile Moisture:	16.3		
Average Corrected Standard Proctor:	119.3	@	14.0
Average Corrected Modified Proctor:	130.8	@	10.3
Cumulative cubic yards:	0		
Composite Hydraulic Conductivity:	pend		

FOR INFORMATION ONLY

27-Oct-03

000241

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GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 09 November 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 84	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Don Pfister, DOE	MS 45	Neil Davies, Geosyntec	Atlanta
Dave Phillips, GeoSyntec	Atlanta		

WEEKLY REPORT NO. 325

The report period covered by Weekly Report No. 325 is from Monday, 3 November 2003 through Sunday, 9 November 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were 0.25 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No field activities during the report period.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Placement of general impacted materials (Category 1 through 5) in Cell 3 has been completed and placement of the Category 1 select impacted material layer for the final cover system is ongoing. Weekly truckload totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	13	486	0	499
2	0	122	0	122
3	0	1	0	1
4	0	0	0	0
5	0	9	0	9
Total	13	618	0	631

000242

PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 09 November 03

WEEKLY REPORT NO. 325

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

FFC continued erosion mat stapling during the report period.

Phase V – Cell 6 Liner Construction

Non-impacted material was placed over the Cell 6 and Cell 7 intercell berm for the impacted material haul road. Geotextile was deployed over the LCS drainage layer in the northwest corner of Cell 6 and rip-rap was placed along the storm water channel east of Cell 6.

FFC continued constructing the Cell 7 east perimeter berm. FFC also continued to strip excess topsoil and excavate the footprint of Cell 7. The dead tree in the footprint of Cell 7 was removed during the report period.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02930-005, Rev. 1	Manufacturer's cert. for seed mixture, germination, etc.	7 Nov 2003	No Comments

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02770-012, Rev. 1	Report for ELD Testing of Cell 6 Primary GML after placement of LCS	7 Nov 2003	A

000243

PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 09 November 03

WEEKLY REPORT NO. 325

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

RCI No. 20105-00xR was initiated by GeoSyntec to propose a placement method for "Ric-Wil" pipes containing asbestos insulation material that are part of the D&D of the Service Building and are destined to be placed in the OSDF cells. This draft RCI is currently under review by Fluor Engineering.

GeoSyntec provided comments on the draft letter from Fluor Fernald and DOE to USEPA and Ohio EPA concerning completion of the second-phase of the leak location testing of the Cell 6 primary liner geomembrane following installation of the geotextile cushion layer and placement of the overlying LCS granular drainage layer material. The purpose of this letter was to obtain approval from the Regulatory Agencies to allow continuation of the Cell 6 liner system construction, including placement of the impacted protective layer material.

GeoSyntec incorporated comments from Fluor Fernald Engineering on Addendum 5 to the Impacted Material Placement (IMP) Plan for the potential use of soil mixed with concrete rubble as Category 1A material for select use in the OSDF placement activities.

GeoSyntec reviewed progress survey certification data for the top of non-impacted protective layer on the Cell 6 and Cell 7 intercell berm during the report period.

GeoSyntec reviewed survey certification data for the top of protective clay layer (clay wedge) on the Cell 6 east and west perimeter berms during the report period.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

CQC completed on site testing of Compacted Clay Liner and Cap material collected from the screened clay material stockpiles in the South Field Borrow Area. A preliminary summary of sampling and results on geotechnical laboratory tests completed to date is attached. All 18 stockpiles passed project specifications for clay liner and cap material.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

000244

PER: C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 09 November 03

WEEKLY REPORT NO. 325

Construction Quality Control (CQC) (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored the stapling of erosion mat during the report period.

Phase V – Cell 6 Liner Construction

CQC monitored and tested the placement and compaction of soil materials for the Cell 6 and Cell 7 impacted material haul road and Cell 7 east perimeter berm.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 2 November 2003 covered accidents and errors.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. S. Schaeffer, and
7. S. Abney

000245

STOCKPILE 03-18

Date Sampled	Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)		Modified Proctor (and rock correction)		Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
				pcf	%M	pcf	%M							
10/22/2003	LP03-131	1500	15.6	118.6 120.2	14.2 13.6	129.1 130.5	10.9 10.5	32	15	17	69.7	pend	(CL) Sandy Lean Clay	5.4E-08 —
10/22/2003	LP03-132	3000	16.3	119.2 120.6	14.4 13.9	— —	— —	33	14	19	72.6	pend	(CL) Lean Clay w/sand	— —
10/22/2003	LP03-133	4500	15.4	117.0 118.4	15.1 14.6	128.8 130.0	11.0 10.6	33	16	17	72.5	pend	(CL) Lean Clay w/sand	— —
10/23/2003	LP03-134	6000	16.7	117.5 118.5	14.1 13.8	— —	— —	33	15	18	73.7	pend	(CL) Lean Clay w/sand	— —
10/23/2003	LP03-135	7500	17.9	117.3 119.0	14.7 13.7	130.6 132.0	10.1 9.7	33	15	18	71.5	pend	(CL) Lean Clay w/sand	— —
10/24/2003	LP03-136	9000	15.9	117.5 118.8	14.7 14.2	— —	— —	33	16	17	71.8	pend	(CL) Lean Clay w/sand	— —

Reported total yards, surveyed:	0		
Converted total yards in place:	0		
Average Stockpile Moisture:	16.3		
Average Corrected Standard Proctor:	119.3	@	14.0
Average Corrected Modified Proctor:	130.8	@	10.3
Cumulative cubic yards:			
Composite Hydraulic Conductivity:	2.6E-08		

FOR INFORMATION ONLY **6-Nov-03**
TESTING COMPLETE
STOCKPILE SUITABLE FOR CLAY LINER

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 16 November 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 84	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Don Pfister, DOE	MS 45	Neil Davies, Geosyntec	Atlanta
Dave Phillips, GeoSyntec	Atlanta		

WEEKLY REPORT NO. 326

The report period covered by Weekly Report No. 326 is from Monday, 10 November 2003 through Sunday, 16 November 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were 1.5 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No field activities during the report period.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Placement of general impacted materials (Category 1 through 5) in Cell 3 has been completed and placement of the Category 1 select impacted material layer for the final cover system is ongoing. Weekly truckload totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Total
1	40	775	0	815
2	0	74	0	74
3	0	0	0	0
4	0	0	0	0
5	0	44	0	44
Total	40	893	0	933

000247

PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 16 November 03

WEEKLY REPORT NO. 326

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

FFC completed erosion mat stapling during the report period.

Phase V – Cell 6 Liner Construction

Non-impacted material was placed over the Cell 6 and Cell 7 intercell berm for the impacted material haul road and completed with a final lift of No. 304 stone. The LCS geotextile filter was deployed over the remaining portions of Cell 6 LCS drainage layer.

FFC continued with the construction of the Cell 7 east perimeter berm and began preparation of the west berm for the horizontal monitoring well. FFC also continued to remove the old LTS line from the footprint of Cell 7.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

PER: C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 16 November 03

WEEKLY REPORT NO. 326

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

RCI No. 20105-00xR was initiated by GeoSyntec to propose a placement method for "Ric-Wil" pipes containing asbestos insulation material that are part of the D&D of the Service Building and are destined to be placed in the OSDF cells. This draft RCI is currently under review by Fluor Engineering.

GeoSyntec incorporated comments from Fluor Fernald Engineering on Addendum 5 to the Impacted Material Placement (IMP) Plan for the potential use of soil mixed with concrete rubble as Category 1A material for select use in the OSDF placement activities. Additional comments, including restrictions on using this material to fill the spaces between transite panels, were provided via E-mail on 13 November.

GeoSyntec reviewed progress survey certification data for the top of non-impacted protective layer on the Cell 6 and Cell 7 intercell berm during the report period.

GeoSyntec issued an interim construction certification letter on 11 November 2003 to Fluor Fernald Construction on the substantial completion of Cell 6 liner system construction.

GeoSyntec reviewed and provided comments on the proposed corrective action for NCR No. 682 that was written by Fluor Fernald QA on Fluor Fernald Construction on the separation between the screened clay material stockpiles in the borrow area.

GeoSyntec provided clarifications, via E-mail, to Fluor Fernald on the thickness of the select impacted material layer as described in Section 2.4 (page 2-5) and Section 7.3.1 (page 7-2) of the IMP Plan.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. Moisture/density tests were performed on lifts of Category 1 soil as required.

PER: C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 16 November 03

WEEKLY REPORT NO. 326

Construction Quality Control (CQC) (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

CQC periodically monitored the stapling of erosion mat during the report period.

Phase V – Cell 6 Liner Construction

CQC monitored and tested the placement and compaction of soil materials for the Cell 6 and Cell 7 impacted material haul road, Cell 7 east perimeter berm, and backfill of the old LTS trench. Five samples of the brown till were collected from the floor of Cell 7 for the purpose of testing for use as the contouring layer for the Cell 3 final cover.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 10 November 2003 covered cold medications and drowsiness.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. S. Schaeffer, and
7. S. Abney

PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 23 November 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 84	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Don Pfister, DOE	MS 45	Neil Davies, Geosyntec	Atlanta
Dave Phillips, GeoSyntec	Atlanta		

WEEKLY REPORT NO. 327

The report period covered by Weekly Report No. 327 is from Monday, 17 November 2003 through Sunday, 23 November 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were 0.8 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No field activities during the report period.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Placement of general impacted materials (Category 1 through 5) in Cell 3 has been completed. Placement of the Category 1 select impacted material layer for the final cover system continued during the period. Placement of the impacted protective and select impacted material layers for the Cell 6 liner system began during the report period and is ongoing. Weekly truckload totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Cell 6	Total
1	329	279	0	527	1135
2	1	26	0	0	27
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	0	0
Total	330	305	0	527	1162

000251

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 23 November 03

WEEKLY REPORT NO. 327

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

No field activities during the report period.

Phase V – Cell 6 Liner Construction

No field activities during the report period.

Phase V – Cell 7

FFC continued with the construction of the Cell 7 subgrade and preparation of the west berm for the horizontal monitoring well. The trench for the horizontal monitoring well was excavated and welding began on sections of the 6-in and 10-in diameter HDPE SDR-11 solid and perforated pipes.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 23 November 03

WEEKLY REPORT NO. 327

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

RCI No. 20105-00xR was initiated by GeoSyntec to propose a placement method for "Ric-Wil" pipes containing asbestos insulation material that are part of the D&D of the Service Building and are destined to be placed in the OSDF cells. This draft RCI is currently under review by Fluor Engineering.

GeoSyntec incorporated comments from Fluor Fernald Engineering on Addendum 5 to the Impacted Material Placement (IMP) Plan for the potential use of soil mixed with concrete rubble as Category 1A material for select use in the OSDF placement activities. Additional comments, including restrictions on using this material to fill the spaces between transite panels, were provided via E-mail on 13 November.

GeoSyntec reviewed and provided comments on draft DCN No. 20104-018, initiated by Fluor Fernald as RCI No. 20104-008R, requesting clarifications on seed purity, germination and additional requirements for seed substitutions on the Final Cover Permanent Vegetation seed mix per Technical Specification Section 02930.

GeoSyntec reviewed and provided comments on draft RCI No. 20105-001R, initiated by Fluor Fernald, to allow temporary stockpiling of Category 1 material in each active cell.

GeoSyntec reviewed and provided comments on draft RCI No. 20105-002R, initiated by Fluor Fernald, to allow construction of 4-ft high berms for placement of Category 2 impacted materials.

GeoSyntec reviewed and provided comments on draft RCI No. 20105-003R, initiated by Fluor Fernald, to allow the use of scrapers to excavate soil material from the production area and direct haul into the OSDF for placement.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

PER: C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 23 November 03

WEEKLY REPORT NO. 327

Construction Quality Control (CQC) (cont'd)

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. CQC also monitored the placement of the select and protective layers in Cell 3 and Cell 6. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

No activities.

Phase V – Cell 6 Liner Construction

No activities.

Phase V – Cell 7

CQC monitored the earthwork for Cell 7 and welding of the HDPE pipe sections for the Cell 7 horizontal monitoring well.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 17 November 2003 covered confined spaces.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. S. Schaeffer, and
7. S. Abney

PER: C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 07 December 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 84	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Don Pfister, DOE	MS 45	Neil Davies, Geosyntec	Atlanta
Dave Phillips, GeoSyntec	Atlanta		

WEEKLY REPORT NO. 328 and 329

The report period covered by Weekly Report Nos. 328 and 329 is from Monday, 24 November 2003 through Sunday, 7 December 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. Weekly reports No. 328 and No. 329 were combined due to limited work activities over the Thanksgiving holidays. During the period, there were 2.1 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No field activities during the report period.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Placement of general impacted materials (Category 1 through 5) in Cell 3 has been completed. Placement of the Category 1 select impacted material layer for the final cover system continued during the period. Placement of the impacted protective layer for the Cell 6 liner system was completed; and placement of the select impacted material layer for the Cell 6 liner system also continued during the report period and is ongoing. Weekly truckload totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Cell 6	Total
1	427	680	0	585	1692
2	0	88	0	0	88
3	0	0	0	0	0
4	0	40	0	0	40
5	0	0	0	0	0
Total	427	808	0	585	1820

000255

PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 07 December 03

WEEKLY REPORT NO. 328 and 329

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

No field activities during the report period.

Phase V – Cell 6 Liner Construction

The LDS, LCS, and RLCS carrier pipes were video taped during the report period.

Phase V – Cell 7 Liner Site Preparations

FFC continued with the construction of the Cell 7 subgrade excavating excess topsoil and adding fill to the Cell 6 and Cell 7 IMP haul road.

Welding for the horizontal monitoring well was completed and the horizontal monitoring well trench was backfilled during the report period. Welding began on sections of the 6-in and 10-in diameter HDPE SDR-11 pipes for the LDS, LCS, and RLCS of Cell 6.

FCC also continued to remove the old LTS line from the Cell 7 and Cell 8 footprints.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 07 December 03

WEEKLY REPORT NO. 328 and 329

Construction Submittal Review (cont'd)

Phase V - Option 1 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
02772P-003, Rev. 0	Manufacturer's QC Procedures	1 Dec 2003	No Comments
02772P-004, Rev. 0	Requirements for GTX Component	1 Dec 2003	A
02772P-005, Rev. 0	Certification of GTX Component	1 Dec 2003	A
02772P-006, Rev. 0	Certification of MARVs	1 Dec 2003	A
02772P-010, Rev. 0	Completed Forms GCl-1	1 Dec 2003	No Comments
02772P-011, Rev. 0	Material Safety Data Sheets (GCL)	1 Dec 2003	No Comments

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

RCI No. 20105-00xR was initiated by GeoSyntec to propose a placement method for "Ric-Wil" pipes containing asbestos insulation material that are part of the D&D of the Service Building and are destined to be placed in the OSDF cells. This draft RCI is currently under review by Fluor Engineering.

GeoSyntec incorporated comments from Fluor Fernald Engineering on Addendum 5 to the Impacted Material Placement (IMP) Plan for the potential use of soil mixed with concrete rubble as Category 1A material for select use in the OSDF placement activities. Additional comments, including restrictions on using this material to fill the spaces between transite panels, were provided via E-mail on 13 November.

Phase IV DCN No. 20104-018, initiated by Fluor Fernald as RCI No. 20104-008R, was approved by GeoSyntec. This DCN made changes to require the seed mix as a whole to have a minimum of 90% germination, etc. Technical Specifications Section 02930 (Vegetation) was affected.

Phase V RCI No. 20105-001R, requested by Fluor Fernald, was addressed by GeoSyntec. This RCI allowed temporary stockpiling of Category 1 material in each active cell.

Phase V RCI No. 20105-002R, requested by Fluor Fernald, was addressed by GeoSyntec. This RCI allowed construction of 4-ft high berms for placement of Category 2 impacted materials.

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 07 December 03

WEEKLY REPORT NO. 328 and 329

Design Clarifications and Modifications (cont'd)

Phase IV2 and Phase V Projects

Phase V RCI No. 20105-003R, initiated by Fluor Fernald, was addressed by GeoSyntec. This RCI allowed the use of scrapers to excavate soil material from the production area and direct haul into the OSDF for placement.

GeoSyntec reviewed progress survey certification data for the top of impacted protective layer and top of 2-ft thick select impacted material Layer in Cell 6 during the period.

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4. CQC also monitored the placement of the select impacted material and protective layers in Cell 3 and Cell 6. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

No activities.

Phase V – Cell 6 Liner Construction

CQC periodically monitored the video taping of the Cell 6 LDS, LCS, and RLCS pipes.

Phase V – Cell 7

CQC monitored the earthwork for Cell 7 and welding of the HDPE pipe sections for the Cell 7 LDS, LCS, and RLCS pipes.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

PER: C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 07 December 03

WEEKLY REPORT NO. 328 and 329

Health and Safety (cont'd)

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 25 November 2003 covered silicon dust hazards and the GeoSyntec weekly safety meeting held on 2 December 2003 covered holiday stress.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis,
4. C. Walker,
5. B. Habermehl,
6. S. Schaeffer, and
7. S. Abney.

PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 14 December 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 84	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Don Pfister, DOE	MS 45	Neil Davies, Geosyntec	Atlanta
Dave Phillips, GeoSyntec	Atlanta		

WEEKLY REPORT NO. 330

The report period covered by Weekly Report No. 330 is from Monday, 8 December 2003 through Sunday, 14 December 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were 0.4 inches of rain recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No field activities during the report period.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Placement of general impacted materials (Category 1 through 5) in Cell 3 has been completed. Additional impacted materials are being added to the Cell 3 south slope. Placement of the Category 1 select impacted material layer for the final cover system continued during the period. Placement of the impacted protective layer for the Cell 6 liner system was completed; and placement of the select impacted material layer for the Cell 6 liner system also continued during the report period and is ongoing. Weekly truckload totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Cell 6	Total
1	189	216	10	476	891
2	3	22	0	0	25
3	0	0	0	0	0
4	0	4	0	0	4
5	0	0	1	0	1
Total	192	242	11	476	921

000260

PER:C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 14 December 03

WEEKLY REPORT NO. 330

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

No field activities during the report period.

Phase V – Cell 6 Liner Construction

No field activities during the report period.

Phase V – Cell 7 Liner Site Preparations

FFC continued with the construction of the Cell 7 subgrade excavating excess topsoil and adding fill to the Cell 7 and Cell 8 intercell berm area to bring the subgrade elevations closer to grade.

Welding was completed on sections of the 6-in and 10-in diameter HDPE SDR-11 pipes for the LDS, LCS, and RLCS of Cell 7. The pipes were installed from Valve House 7 to the other side of the Valve House access corridor.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

PER: C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 14 December 03

WEEKLY REPORT NO. 330

Construction Submittal Review (cont'd)

Phase V - Option 1 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
9268/1-001, Rev. 0	GML Submittal Register	10 Dec 2003	w/ Comments
9269/1-001, Rev. 0	GCL Submittal Register	10 Dec 2003	No Comments
9270/1-001, Rev. 0	GTX Submittal Register	10 Dec 2003	No Comments
02772P-001, Rev. 0	GCL Product Name	10 Dec 2003	w/ Comments
02772P-002, Rev. 0	GCL Daily Production Capacity	10 Dec 2003	No Comments
02772P-007, Rev. 0	GCL Recom. Installation Procedures	12 Dec 2003	No Comments
02772P-008, Rev. 0	GCL Recom. Storage Requirements	10 Dec 2003	No Comments
02772P-009, Rev. 0	GCL Projected Delivery Dates	10 Dec 2003	No Comments

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

RCI No. 20105-00xR was initiated by GeoSyntec to propose a placement method for "Ric-Wil" pipes containing asbestos insulation material that are part of the D&D of the Service Building and are destined to be placed in the OSDF cells. This draft RCI is currently under review by Fluor Engineering.

GeoSyntec incorporated comments from Fluor Fernald Engineering on Addendum 5 to the Impacted Material Placement (IMP) Plan for the potential use of soil mixed with concrete rubble as Category 1A material for select use in the OSDF placement activities. Additional comments, including restrictions on using this material to fill the spaces between transite panels, were provided via E-mail on 13 November.

Phase IV DCN No. 20104-018 was revised to incorporate comments from Ohio EPA. This DCN made changes to require the seed mix as a whole to have a minimum of 90% germination, etc. Technical Specifications Section 02930 (Vegetation) was affected.

GeoSyntec reviewed and provided comments on the revised draft of the OSDF Impacted Material Placement Plan for Winter Months during the period.

GeoSyntec reviewed progress survey certification data for the top of 2-ft thick select impacted material layer in Cell 6 during the period.

PER: C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 14 December 03

WEEKLY REPORT NO. 330

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3 and Cell 4 and Category 5 transite in Cell 5. CQC also monitored the placement of the select impacted material and protective layers in Cell 3 and Cell 6. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

No activities.

Phase V – Cell 6 Liner Construction

No activities.

Phase V – Cell 7

CQC monitored the earthwork for Cell 7 and welding of the HDPE pipe sections for the Cell 7 LDS, LCS, and RLCS pipes.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 8 December 2003 covered quality work reducing safety risks.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1.K. Badu-Tweneboah, 2. C. Sukow, 7. S. Abney
3.T. Willis, 4. C. Walker,
5.B. Habermehl, 6. S. Schaeffer, and

PER:C. Sukow/K. Badu-Tweneboah

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO **PROJECT NO.:** GQ3211 **TASK NO.:** 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION **WEEK ENDING:** 21 December 03

DISTRIBUTION:

J.D. Chiou, Fluor Fernald	MS 64	Reinhard Friske, Fluor Fernald	MS 64
Michael Godber, Fluor Fernald	MS 84	Gregg Johnson, Fluor Fernald	MS 60
Uday Kumthekar, Fluor Fernald	MS 64	Chuck VanArsdale, Fluor Fernald	MS 64
William Zebick, Fluor Fernald	MS 60	Thomas Beasley, Fluor Fernald	MS 60
Kevin Harbin, Fluor Fernald	MS 60	Jerry Williams, Fluor Fernald	MS 60
Mike Stumbo, Fluor Fernald	MS 60	Don Goetz, Fluor Fernald	MS 60
Don Pfister, DOE	MS 45	Neil Davies, Geosyntec	Atlanta
Dave Phillips, GeoSyntec	Atlanta		

WEEKLY REPORT NO. 331

The report period covered by Weekly Report No. 331 is from Monday, 15 December 2003 through Sunday, 21 December 2003. The Resident Engineer's Weekly Report and the Construction Quality Control (CQC) Consultant's Weekly Report are combined into one report for the On-Site Disposal Facility (OSDF) Phase IV2 and Phase V projects. During the period, there were 0.3 inches of rain and approximately 4.75 inches of snow recorded.

Construction Progress

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No field activities during the report period.

Phase V - Impacted Material Placement

Fluor Fernald Construction (FFC) continued to place impacted materials in Cell 3 and Cell 4 during the report period. Placement of general impacted materials (Category 1 through 5) in Cell 3 has been completed. Additional impacted materials are being added to the Cell 3 south slope. Weekly truckload totals for each category are as follows:

Category	Cell 3	Cell 4	Cell 5	Cell 6	Total
1	9	77	159	0	245
2	3	83	1	0	87
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	0	0
Total	12	160	160	0	332

000264

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 21 December 03

WEEKLY REPORT NO. 331

Construction Progress (cont'd)

Phase IV2 – Cell 2 Final Cover Construction

No field activities during the report period.

Phase V – Cell 6 Liner Construction

FCC performed hydrostatic pressure testing of the 6-in. and 10-in.diameter pipes for the ILTS line from Valve House 6 to the permanent lift station (PLS).

Phase V – Cell 7 Liner Site Preparations

FFC continued to place compacted fill over the LDS, LCS, and RLCS pipes for Cell 7. FFC also excavated a "trash pit" containing historical debris from the footprint of Cell 8.

Construction Submittal Review

Phase IV2 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Phase V Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

000265

PER: C. Sukow/K. Badu-Tweneboah

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 21 December 03

WEEKLY REPORT NO. 331

Construction Submittal Review (cont'd)

Phase V - Option 1 Project

The following construction materials and geosynthetics procurement submittals were reviewed during the report period.

Submittal No.	Item Description	RE Disposition	Recommended Status
None			

Design Clarifications and Modifications

Phase IV2 and Phase V Projects

RCI No. 20105-00xR was initiated by GeoSyntec to propose a placement method for "Ric-Wil" pipes containing asbestos insulation material that are part of the D&D of the Service Building and are destined to be placed in the OSDF cells. This draft RCI is currently under review by Fluor Engineering.

GeoSyntec incorporated comments from Fluor Fernald Engineering on Addendum 5 to the Impacted Material Placement (IMP) Plan for the potential use of soil mixed with concrete rubble as Category 1A material for select use in the OSDF placement activities. Additional comments, including restrictions on using this material to fill the spaces between transite panels, were provided via E-mail on 13 November.

Phase IV DCN No. 20104-018 was revised to incorporate comments from Ohio EPA. This DCN made changes to require the seed mix as a whole to have a minimum of 90% germination, etc. Technical Specifications Section 02930 (Vegetation) was affected.

GeoSyntec reviewed and provided comments on the revised draft of the OSDF Impacted Material Placement Plan for Winter Months during the period.

GeoSyntec reviewed progress survey certification data for the top of 2-ft thick select impacted material layer and the top 1-ft of Category 1 impacted material layer, which was placed as part of the 3-ft thick select layer for the liner system, in Cell 6 during the period.

000266

GeoSyntec Consultants

FLUOR FERNALD

WEEKLY FIELD REPORT

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: PHASE IV2 & V CONSTRUCTION WEEK ENDING: 21 December 03

WEEKLY REPORT NO. 331

Construction Quality Control (CQC)

Phase V - Borrow Area Excavation, Clay Screening and Restoration Activities

No activities.

Phase V - Impacted Materials Placement

CQC monitored the placement of Category 1 soil and Category 2 debris in Cell 3, Cell 4, and Cell 5. Moisture/density tests were performed on lifts of Category 1 soil as required.

Phase IV2 – Cell 2 Final Cover Construction

No activities.

Phase V – Cell 6 Liner Construction

CQC monitored the hydrostatic pressure testing performed on the ILTS 6 and 10 inch diameter pipes.

Phase V – Cell 7

CQC monitored soil cover and compaction over the HDPE pipe sections for the Cell 7 LDS, LCS, and RLCS pipes.

Health and Safety

GeoSyntec continues to hold daily safety tailgate meetings. In addition, representative GeoSyntec CQC field personnel attended the Contractor's daily construction/health and safety tailgate meetings.

GeoSyntec also holds weekly health and safety meetings for its on-site employees. The GeoSyntec weekly safety meeting held on 17 December 2003 covered general construction equipment safety.

GeoSyntec Personnel Schedule

GeoSyntec had the following project staff personnel on site for the report period:

1. K. Badu-Tweneboah,
2. C. Sukow,
3. T. Willis (part-time),
4. C. Walker,
5. B. Habermehl (part-time),
6. S. Schaeffer, and
7. S. Abney

PER: C. Sukow/K. Badu-Tweneboah

MINUTES OF MEETINGS

FERNALD ENVIRONMENTAL MANAGEMENT PROJECTFLUOR CONTRACT
FERNALD, OHIO

FERNALD

DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0015

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 32

MEETING DATE: March 5, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: March 7, 2003
SDFP File Station
ECDC 20104.1.6

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Art Murphy, MS45
+Don Pfister, MS45

Ohio EPA
Tom Ontko

GeoSyntec
+Kwasi Badu-Tweneboah, MS38
Collin P. Sukow, MS38

Safety Topic – Take care whatever the conditions are where you're working.

Value Creation Topic – Keep meetings informative and short

Balance Topic – Enjoy the weekend.

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- ISM audit scheduled for last week in March. Sample questions/sample answers are available to share/review with field personnel to reinforce.
- No injuries/accidents during past week
- Contacted Security about vehicle speeding on "E" St. to the west of Bldg. 82
- Completed safety training for supervisors and craft personnel
- In process of reviewing and updating Safety section of Traveler for New employee orientation
- IH tech training nearly complete

IH

- Nothing reported

RAD

- Air sample results below action levels

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

-

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Type D stone deliveries – 65% complete
- Type 78 stone deliveries – 80% complete
- RFP for Concrete Crushing goes out 2/5/03
- Kick-off Tuesday 3/11/03 9:00 / T183
- Waste Management will be staging 11-12 trucks a day for shipping and receiving; beware of activities

V. PROJECT SUPPORT REPORTS

- GC lab up and running
- Characterization will be losing Eric Koger
- Area Phase 3 Hot Spot
- Impacted material (less than 1 truck load) needs to be removed from off-property
- Northern Pines Restoration to resume 3/17/03

VII. ACTION ITEM LIST

- Action Item List will be updated with information provided

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0017

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 33

MEETING DATE: March 12, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: March 12, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Be watchful of critters on pathway between T183 & Bldg 82. Skunks abound.

Value Creation Topic – Communicate – notify other owners when you are going to be in their area.

Balance Topic – Skunks show up in all kinds of places.

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- ISM audit scheduled for last week in March. Sample questions/sample answers are available to share/review with field personnel to reinforce.
- No injuries/accidents during past week
- No further feedback on vehicles speeding on "E" St. if speeding is still occurring, need validation to go to Security.
- Traveler revisions in process
- Will kick-off new hire program Monday. Incorporating the new employee briefing and mentor program.

IH

- Nothing reported

RAD

- Air sample results below action levels
- Dumped 2 tankers of AWWT spent resin
-

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Quantity tracking system discussed by engineering

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Backfill of leachate line repair to be by SDFP – test not complete yet
- Looking at new type pliers for pulling liner & will use scissors in lieu of hook blade knives
- Pre-bid meeting on Concrete Crushing was held 3/11/03 – bids due 3/20/03
- Old North Access Road excavation was completed 3/11/03 – placing clean stone to support entrance to Restoration group's bldg.
- Looking at constructing a decon facility to support getting equipment out of contamination areas
- No work is scheduled for this weekend
- Rail expansion seeding/mulching completed 3/12/03
- Labor foremen are being scheduled for training beginning March 24
- Updating radio list on project
- Looking at Motorola type radios (14 channel) to support the project – trying out various types

V. PROJECT SUPPORT REPORTS

- Submittals for sand approved
- #78 stone deliveries - 93% complete
- Type D dumped rock deliveries - 81% complete
- Liner installation contract out for bid this week
- Geosynthetic deliveries scheduled between 3/24 & 4/28
- Engineering issued activity schedule to support construction for next four (4) months.
- Greg Lupton new to Characterization Group
- Real Time back in field since areas are drying up
- Talk on Tuesday on erosion control matting 2-4pm in T-183 conference Room
- Starting Restoration in SWU & Northern Pines next week
- Flyover next week to update survey information
- Failed joint of leachate forced main pipe is in Rob Janke's office for anyone who wants to look at it.

VII. ACTION ITEM LIST

- Action Item List will be updated with information provided

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0019

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 34

MEETING DATE: March 19, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: March 26, 2003
SDFP File Station
ECDC 20104.1.6

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Ohio EPA
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Collin P. Sukow, MS38

Safety Topic – It's that time of year – Lightning Awareness (50/30 or Flash/Bang)

Value Creation Topic – Cost Awareness (70/30)

Balance Topic – Let the games begin!

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Training indoctrination/Mentoring Program implemented this week
- Minor injury – not recordable
- Radio parts list being compiled to support project needs
- Squad run to Plt. 9 Control point – non-work related condition
- Change in heavy equipment inspection process. Incoming heavy equipment must be coordinated with Renee or Frank
- Solid Waste Landfill will need to be added to Traveler before any field activity

IH

- Nothing reported

RAD

- Air sample results below action levels

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Quantity tracking system will be distributed once a month

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Ensure fence @ Sediment Basin #2 is constructed to OSDF specifications
- Need Cat D3 dozer to support backfill of leachate line repair
- Need Regulator approval before placing any material in cell
- Add rework of ramp into Cell #4 to schedule
- Need to respond to EPA comments before approval of A2PII excavation
- Need revision to Traveler prior to size-reducing Plant 5 casings
- 2nd tank @ Fire Training Facility excavation has been removed
- AWWT needs to change out carbon beds prior to accepting FTF water
- Need to look at required revision to Excavation Traveler prior to implementing SWL excavation

V. PROJECT SUPPORT REPORTS

- Geosythetic test results being reviewed – deliveries to start 3/31/03
- Requisitions for Cell #6 materials are being held up
- Preparing responses to EPA comments
- Engineering working on package for OSDF Construction Well #3
- Draft optimization plan has been developed based on current schedule – will be revised for acceleration
- A9PII hot spot has been bounded by characterization
- TQP ready for final signature – ensure personnel are properly trained

- ISM re-validation is next week
- Approval of 2.2M last Thursday for Cell #6 liner
- Randy Reynolds discussed acceleration plan

VII. ACTION ITEM LIST

- Action Item List will be updated with information provided

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0021

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 35

MEETING DATE: March 26, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: March 30, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – This is a construction site. Pay attention to what's going on around you.

Value Creation Topic – Communicate, communicate, communicate

Balance Topic – Fly your American flags to show families of our troops that we are supporting them in the war efforts.

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- First Aid – teamster caught arm on door pin while exiting vehicle. Investigation showed pin was in upside down. Other vehicles checked – all OK.
- Still working on compiling radio spare parts inventory
- Heavy equipment mobilization is underway
- ISM review in process; none of the issues currently known are within our division:
  ^Lack of secondary containment when fuel gas cans are not "in use"
  ^Issues with storage and valve caps of pressurized gas cylinders
  ^Work authorization – work in field was beyond scope of plan and permit
  ^Flammable material storage
  ^Unsafe tool use
  ^Vibration issue when worker uses tools that produce vibration (both power tools and heavy equipment

IH

- Nothing reported

RAD

- Air sample results below action levels
- Loggable event – clothing contamination

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Quantity tracking system report was distributed.

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- May need to look at alternative method of disposing of water from the FTF
- Still waiting on OK from landowner for A9PII Hot Spot
- Heat stress instruction will be held in the next few weeks

V. PROJECT SUPPORT REPORTS

- Material procurement in process for new cell construction
- Design revisions for 3B/4B/5 are being expedited
- Preparing response to Phase V comments from EPA
- In process of justifying and processing OSDF waterwell
- Assessing Geosytec instrumentation calibration & personnel
- Preparatory meeting for Cell 2 Cap contouring layer is being planned
- Survey data being processed
- Herbicide contract in place

- Woody plants need to be removed from ditches
- Need to re-emphasize training for new hires and re-hire labor
- New scheduling will be developed based on Acceleration Plan with ties to other projects
- Internal Fluor audits will be scheduled on timesheet accountability
- Weekly construction schedule needs to be available by 9:00 am Wednesday

VII. ACTION ITEM LIST

- Action Item List will be updated with information provided

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0023

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 36

MEETING DATE: April 2, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: April 7, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Fire safety with drying weather conditions.

Value Creation Topic – Plan to do the work right the first time

Balance Topic – Enjoy the sunshine while it's here.

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- One injury – an operator scraped his right arm while entering a bulldozer. Injury apparently caused by uneven edge of molded plastic.
- Safety concern identified involving lack of restrooms at T-96 area for the increased work force.
- Seven injuries on site 4/1/03 of which two (2) were recordables

IH

- Nothing reported

RAD

- Air sample results below action levels
- Uncovered 6x6 thorium contaminated plates at Plant 6 Pickling Area – taken to Waste Pits

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Quantity tracking system will be distributed once a month.

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Cell 2 certification data must be reviewed/approved by SDFP engineering & Geosyntec prior to starting contouring layer
- GML material on hold
- Meeting scheduled in T-139 on 4/3/03 to discuss Area 9 "Hot Spot" removal
- 18,000-20,000 ICY select remaining in Cell 5
- Approx. 700 CY of AWAC remaining in Area 3A
- Work resumed in FTF 4/2/03

V. PROJECT SUPPORT REPORTS

- Cell Placement quantity update for March issued
- Cell Liner contract bids back for review
- Cap/Liner material procurements in process
- CFC drawings for OSDF construction water well
- Slope stability drawings for Plant 6 should be available by first week of May
- Schedule meeting with Geosytec on deep excavation
- Construction must approve stockpiles for clay prior to compacted clay placement
- Brian McDaniel primary contact for Real-Time
- Alan Boeckman will be visiting the site in Tuesday, April 08, 2003
- Need to identify status for site vehicles –feedback to Randy Reynolds & JD Chiou
- Overtime approval by only four (4) upper level managers for the site.

VII. ACTION ITEM LIST

- Action Item List will be updated with information provided

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0025

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 37

MEETING DATE: April 9, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: April 15, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic –Check PPE for defects prior to use. Be especially aware of safety glasses.

Value Creation Topic – Plan to do the work right the first time

Balance Topic – Getting close to Easter

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Mentor stickers have been ordered for those still needing them
- Additional Fluor Corp safety training will be held Tuesday, April 22, in the SBCR. Any craft not previously attending a class need to be scheduled to attend
- Working with Training to get all the prior Fluor safety training documents into the site system.
- Hoe-Ram fell off excavator attachment

IH

- Nothing reported

RAD

- Air sample results below action levels

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Quantity tracking system report was distributed.

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Investigating alternative tools for cutting liner material in lieu of razor knives
- Need to look at areas for stockpiling unsuitable materials within the footprint of Cells 7 & 8 – running out of available space
- Approximately 10,000 BCY of AWAC has been hauled from Plant 6 to-date

V. PROJECT SUPPORT REPORTS

- GCL approval underway
- Geotextiles approved
- GML on hold
- Type 'C' material from Hanson has been approved
- Liner installation contract review meeting Thursday, April 10, 2003, 1:00 pm in T-183,
- Slope stability seminar on Thursday, April 24, 2003, 1:00-4:30 pm in T-183.
- Need to schedule removal of approximately 300 CY of material from Quonset Hut
- Need to identify planned source of vegetative layer material so Geosyntec can evaluate and approve for use.

VII. ACTION ITEM LIST

- Action Item List will be updated with information provided

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0027

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 38

MEETING DATE: April 16, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: April 21, 2003
SDFP File Station
ECDC 20104.1.6

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+Art Murphy, MS45
Don Pfister, MS45

Ohio EPA
Tom Ontko

GeoSyntec
Kwasi Badu-Tweneboah, MS38
+Collin P. Sukow, MS38

Safety Topic –Heat Stress – know preventive measures & signs of Heat Stress.

Value Creation Topic – Communication

Balance Topic – Easter holiday 4/17/03 – enjoy the long weekend

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Mentoring program being implemented – need supervisor's buy-in for program to work
- One (1) day Fluor Corp safety training scheduled for Tuesday, April 22, in the SBCR. Any craft not previously attending a class need to be scheduled to attend
- Reported bee sting occurrence on project

IH

- Nothing reported

RAD

- Air sample results below action levels

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Updated report was distributed.

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Drilling of Well #3 should start 4/17/03
- Fencing around Sediment Basin #2 should start week of 5/5/03 (Wise Services)
- Area 9 Phase 2 – Hot Spot has been removed & area backfilled
- Need revision to Construction Traveler – Module #3 for size-reducing Plant 5 casings (Kevin Harbin to provide input)

V. PROJECT SUPPORT REPORTS

- Geotextile & GCL deliveries are in process – GML still on hold
- Penetration box deliveries anticipated in mid-May
- Slope stability presentation on 4/24/03
- Cell #8 footprint not certified – needs to be planned/scheduled
- Real-time distributed a checklist to enhance communication with Construction
- Geosynthetics installation contract ready to be awarded

VII. ACTION ITEM LIST

- Action Item List will be updated with information provided

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0028

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 39

MEETING DATE: April 25, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: April 28, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Be aware of small things (i.e. paper cuts)

Value Creation Topic – Planning and communication – always look for improvements

Balance Topic – Spend quality time with family & friends

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- No injuries or accidents on project this past week.
- Approximately 76 attended 4/22/03 8 hour safety training class
- Need to complete/identify "Competent Person" designation forms; especially Eyewash, Ladders and Fall Protection
- Individual in D&D project struck on hardhat by piece of pipe; another individual "near miss" struck by section of pipe
- Need to review safety incentive workgroups & divide into three (3) groups instead of the current two (2) groups – have changes established by May 1

IH

- Nothing reported

RAD

- Air sample results below action levels
- Rad techs (4) scheduled for Fall Protection Training - need to reschedule some in order not to impact field activities
- *** Training has been re-scheduled for Friday, 4/25/03

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

No report issued

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Need to look at adding additional ramps for access to cells in order to sustain required placement volumes
- Approximately 2,000 bcy of AWAC has been hauled out of Plant 6 during past week
- Haul road wheel wash will be shut down for 2-3 weeks to concentrate on equipment decontamination
- Basin #2 fencing (Wise Services) scheduled to start 5/5/03
- Approximately three (3) days of topsoil in Borrow Area remains prior to seeding
- Will be moving to SWU to complete Restoration work following Borrow Area Restoration
- Need to finalize plan for stockpiling materials in Borrow Area to minimize impacts to screening operations

V. PROJECT SUPPORT REPORTS

- Material submittals are in process
- Slope stability presentation 1-5 pm 4/24/03 in T-183 CR
- GML has been released & deliveries should start next week
- Leak detection contract being reviewed – issue next week for bids

- Crushed concrete will be placed as Category 1 – manifest will reflect same
- Moving forward with GPS utilization on dozers for new cell construction
- Inspection on Cell 1 cap @ 9:30 am 4/24/03 – additional vehicles will be in the area
- Need to start using same schedule next week as used by Executive Management
- Foreman "Discipline Training" is being scheduled
- Reinhard Friske introduced as part of Quality Team

VII. ACTION ITEM LIST

- Action Item List will be updated with information provided
- Status of rail removal (how is it to be dispositioned?)

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0029

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 40

MEETING DATE: April 305, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: May 6, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Walk Your Space – remain aware of your environment at all times.

Value Creation Topic – Proper communication – always look for ways to improve it.

Balance Topic – Spend quality time with family & friends

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- No injuries or accidents on project this past week.
- Approximately 45 project personnel are scheduled for the 2-day Fluor Safety Training. Session #1- Tuesday, May 13th, 7:30 – 4:00 and Wednesday, May 14th, 7:30-12:00. Session #2 – Wednesday, May 14th, 1:00-4:00 and Thursday, May 15th, 7:30-4:00
- Heat Stress Training by Medical personnel is in process this week
- Heat Stress monitoring data will be sent out over alpha pagers to supervisors again this construction season
- Discussed "near miss" with falling rebar incident at Silos

IH

- Nothing reported

RAD

- Air sample results below action levels
- Grapple head & AWAC truck beds still have fixed contamination
- Setting up drinking water stations in contaminated areas.

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

No report issued

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Seeding in Borrow Area is in process – should complete this week
- Uncertified material from OSDF ditch line needs to be placed in the cell
- Fencing around Sediment Basin #2 is in process (Wise Services)
- Construction Traveler for Excavation of Solid Waste Landfill (SWL) needs to be finalized in order to start excavation
- Need traveler revision to incorporate cutting of Plant 5 steel casings

V. PROJECT SUPPORT REPORTS

- Slope stability drawings for Plant 6 will be available for review/comment Thursday & Monday, 5/1/03 & 5/5/03
- Need to look at additional ramps into individual cells in order to maximize cell placement quantities

VII. ACTION ITEM LIST

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0033

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 41

MEETING DATE: May 7, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: May 12, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Ticks appear to be bad this year. Take extra care.

Value Creation Topic – Communication – Everyday we prove we don't do it well enough.

Balance Topic – Mother's Day this Sunday

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- No injuries or accidents on project this past week.
- Approximately 45 project personnel are scheduled for the 2-day Fluor Safety Training. Session #1- Tuesday, May 13th, 7:30 – 4:00 and Wednesday, May 14th, 7:30-12:00. Session #2 – Wednesday, May 14th, 1:00-4:00 and Thursday, May 15th, 7:30-4:00
- Heat Stress Training by Medical personnel continuing
- Heat Stress monitoring data will be sent out over alpha pagers to supervisors again this construction season
- Working to obtain an additional full time H &S representative by June
- Need to look at procuring fall protection safety equipment to support project
- Need to make decision on knives and alternatives to knife use

IH

- Nothing reported

RAD

- Air sample results below action levels
- Still working on deconning truck beds formerly used in AWAC area. Need to look at alternative method.

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Monthly report was distributed

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Will be installing a portable water tower to support dust control at new cell construction
- Existing topsoil stockpile in Borrow Area will be surveyed for quantity
- Davis-Bacon determination is back for erecting tent for Real-Time – covered work for Building Trades.
- AWAC excavation schedule - need to work up to 60 hrs per week to recoup schedule date
- Solid Waste Landfill – segregation of WAC material is not required
- Need to look at methods for expediting sampling turnaround times to support AWAC excavations
- Equipment mobilization for Borrow Area is scheduled to start 5/12/03
- Will look at working select personnel & equipment additional hours to recover schedule – will be addressed on a case-by-case basis
- GPS purchase order issued. Will be here in 3 weeks; then 3-4 days to install

- Need to continue to maintain good contractor/client relationship

V. PROJECT SUPPORT REPORTS

- Slope stability drawings for Plant 6 will be available 5/15/03
- DOE tour scheduled tomorrow, 5/8/03

VII. ACTION ITEM LIST

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0035
SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 42

MEETING DATE: May 13, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: May 15, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Be aware of sun glare & blind spots when driving

Value Creation Topic – Communication – Everyday we prove we don't do it well enough.

Balance Topic – Enjoy the sunshine while we have it

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S
- Nothing reported

IH
- Nothing reported

RAD
- Nothing reported

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Nothing reported

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Started placing Cell #2 clay cap layer 5/12/03
- Inlet box & gravity inlet structure materials are schedule to ship next week
- Still awaiting EPA approval to start SWL excavation
- K-65 trench can be backfilled just prior to starting utility isolation trenching of that area.
- Commitment has been to recover activities behind schedule by the end of July. Area managers to plan work accordingly.

V. PROJECT SUPPORT REPORTS

- RCI is in process to increase Cat 2 grid placement size from 100' x 100' to 200' x 200'
- HDPE pipe certification contained incorrect information. As soon as correct info is received it will be approved for shipping.
- GPS expected 1st week of June. Will require 1-2 day installation per dozer.
- Need to expedite set-up of additional double wide trailer for field use
- Sampling will begin transition onto 2-shift Monday-Friday schedule late May
- Sampling working to greatly improve turnaround time on sampling results: U and VOA results within 16 hours; Tc-99 results with in 40 hours
- Real-time capability on excavator is available for filed use
- New DOE software directive to be released by IM in June.
- Final Public Tour, Tuesday, June 10

VII. ACTION ITEM LIST

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0037
SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 43

MEETING DATE: May 20, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: May 22, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Be cognizant of surroundings at all times; especially when operating or working around heavy equipment and vehicles.

Value Creation Topic – Plan your work – work your plan.

Balance Topic – Holiday this weekend.

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- No injuries on project during the past week
- Continuing heat stress training. Should begin doing baselines at morning meetings in order to be prepared for coming hot weather.
- Update on incident of collision of equipment with passenger van
- Looking at obtaining approval for use of knives for specific liner installation activities
- Started installation/erection of tent for Real-Time

IH

- Nothing reported

RAD

- Air sample results below action levels
- Articulating truck #2307 was free-released following demo decontamination effort Bartlett using a hydro lazer.

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Nothing reported

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Additional quantity of Cell #6 overexcavation is being encountered
- Gravity inlet structures & HDPE piping has been delivered to site
- Regulatory approval for Radium Hot Spot expected this week
- Weather has impacted clay placement, soils, excavation, and cell placement activities this past week
- Site preparation work at Solid Waste Landfill in progress
- Starting to mobilize equipment for Concrete Crushing contract
- Screeners/stackers have been mobilized and will be set-up as weather permits. Will set-up screeners within Area 3
- SWU excavation/reclamation activities have been completed
- Cat 980 loader was observed operating near parking lot-need to exercise caution in those situation

- Schedule is currently under review by Leadership Team; changes may take place because of budget constraints
- Project title is Soil and Disposal Facility Project (SDFP) again; changed back from Soil & Water Project (SWP)

V. PROJECT SUPPORT REPORTS

- Plant 6 slope stability drawings have been sent to EC DC for distribution
- Borrow Area excavation for Area 4 & Area 6 is being revised
- GPS has been shipped, should be received this week. Surveying is already studying software
- 3 rolls of material missing Geotextile missing for order.
- Glen Griffith is acting DOE Site Director
- Valve Houses No. 7 & No. 8 are scheduled to start October 1, 2003
- Randy Reynolds will be looking at activities to schedule this winter
- Charles Carney introduced as new member of SDFP management

VII. ACTION ITEM LIST

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0039

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 44

MEETING DATE: May 27, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: May 30, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Watch footing during wet weather; avoid slipping on grass, walkways, equipment.

Value Creation Topic – Communication – always strive to improve

Balance Topic – All holidays (time off away from work) are enjoyable.

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S
- Nothing reported

IH
- Nothing reported

RAD
- Nothing reported.

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Nothing reported

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Weekend work on cell cap clay liner helped to recover schedule
- Missing rolls of GML/GCL have been located
- Meeting with Geosynthetic installation subcontractor today to discuss sequencing of work
- Sediment Basin #2 fencing is complete except for grounding
- Work in Cell #3 catchment area needs to be expedited—additional pipe work required by Wise Services
- Need to remove tanks & debris from former Fire Training Facility area to complete demobilization
- Screening equipment currently being set-up as well as installation of gabion baskets. Screening should start by the end of this week.

V. PROJECT SUPPORT REPORTS

- Finalized RCI for Cat 2 grid placement
- DCN 20104-012 for placing topsoil on final lift of vegetative cover issued for review/approval
- Engineering working on revised plan for ramps into each cell for placement
- Starting installation of GPS equipment on Cat D6R LGP dozers in MCM off-site equipment yard
- Need Engineering data substantiating design of truck to handle ISO containers prior to use
- Procedure for utilizing knife on project has been approved by Jamie Jameson

- Procedure will be utilized for site-wide training purposes

VII. ACTION ITEM LIST

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0041
SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 45

MEETING DATE: June 3, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: June 5, 2003

SDFP File Station
ECDC 20104.1.6

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Safety Topic – Ticks are everywhere. Take precautions ahead of time. Wear light colored clothing, tape pant legs, spray repellant.

Value Creation Topic – Communication –Everyday we prove we don't do it well enough. Always strive to improve.

Balance Topic – Enjoy the green grass, etc. that the rain has given us. It will end eventually (we hope).

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Laborer fell while using hand truck – first aid
- Laborer reaction to insect bite (possible spider) in hospital for antibiotic
- Seven (7) employees went to Medical following adverse reaction to working around dumped soil into cell
- Operating engineer closed door on own hand

IH

- Nothing reported

RAD

- BZ & Air Sample results below action levels

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Nothing reported

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- OSDF well #3 should be complete & operational within two weeks
- Briefing on liner installation & knife use to be held 6/4/05
- Clay liner placement in Cell #6 started last week
- Bottom of Cell #4 filled with transite – truck for hauling transite is to be deconned and changed out
- Meeting 6/4/03 to discuss Area 3B utility trenching & finalize mobilization date for trencher
- New crusher for Concrete Crushing contract received at MCM's offsite equipment area 6//202
- Borrow Area equipment mobilization will be completed this week
- T65 and T190 trailers will be moved and set-up as project cool down trailers

V. PROJECT SUPPORT REPORTS

- New DCN being developed to allow some flexibility concerning GML installation
- Finalizing details on new ramps into cells to support placement
- Mike Frank heading up Real-Time
- GPS installation on Cat D6R dozers is underway – first dozer should be ready today with second unit shortly thereafter
- Need to look at project needs relative to pumps and generators required to support the project
- Need to look at path forward relative to Cat 826 landfill compactor – continue rental or exercise purchase option.

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0043

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 46

MEETING DATE: June 10, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: June 16, 2003

SDFP File Station
ECDC 20104.1.6

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Safety Topic – Be safe – even on vacation. Plan safely and properly for your destination/adventures

Value Creation Topic – Measure twice – cut once

Balance Topic – Enjoy your favorite sport / entertainment whenever you have the chance

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Employee reported to Medical – chigger bites – need to wear proper PPE while working in weeds

IH

- Nothing reported

RAD

- Nothing reported

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Nothing reported

IV. SDFP PROGRESS DETAIL REPORT

- OSDF Construction Well No. 3 should be complete next week
- Cap/Liner Construction activities to be coordinated to ensure liner installation subcontractor work is continuous
- Notify OSDF Construction Manager & Borrow Area Construction Manager whenever entering the work area due to large numbers of equipment & associated changing traffic patterns
- Area 3A AWAC excavation is complete, pending final Real-Time results
- Area 3B utility isolation trenching is scheduled to start 6/16/03
- Started screening for clay-currently adjusting screen plant equipment
- Restoration work at SWU and Northern Pines areas has been completed. Break/cool down trailers to be reassigned within project
- Valve House #7 start FY04 moved to FY05

V. PROJECT SUPPORT REPORTS

- Borrow Area excavation design has been approved
- Design of ramps into cells in process
- Design of Area 4B utility isolation trenching being finalized
- Area west of SP 7 will be posted as thorium airborne area until WPRAP is complete
- Coordinating activities with this afternoon's scheduled tour
- Look at adverse trend on recent safety/injury incidents on the project
- Project controls to roll-out baseline budget for all aspects of the project for group/department review

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0023

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 36

MEETING DATE: April 2, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: April 7, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Fire safety with drying weather conditions.

Value Creation Topic – Plan to do the work right the first time

Balance Topic – Enjoy the sunshine while it's here.

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- One injury – an operator scraped his right arm while entering a bulldozer. Injury apparently caused by uneven edge of molded plastic.
- Safety concern identified involving lack of restrooms at T-96 area for the increased work force.
- Seven injuries on site 4/1/03 of which two (2) were recordables

IH

- Nothing reported

RAD

- Air sample results below action levels
- Uncovered 6x6 thorium contaminated plates at Plant 6 Pickling Area – taken to Waste Pits

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Quantity tracking system will be distributed once a month.

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Cell 2 certification data must be reviewed/approved by SDFP engineering & Geosyntec prior to starting contouring layer
- GML material on hold
- Meeting scheduled in T-139 on 4/3/03 to discuss Area 9 "Hot Spot" removal
- 18,000-20,000 ICY select remaining in Cell 5
- Approx. 700 CY of AWAC remaining in Area 3A
- Work resumed in FTF 4/2/03

V. PROJECT SUPPORT REPORTS

- Cell Placement quantity update for March issued
- Cell Liner contract bids back for review
- Cap/Liner material procurements in process
- CFC drawings for OSDF construction water well
- Slope stability drawings for Plant 6 should be available by first week of May
- Schedule meeting with Geosytec on deep excavation
- Construction must approve stockpiles for clay prior to compacted clay placement
- Brian McDaniel primary contact for Real-Time
- Alan Boeckman will be visiting the site in Tuesday, April 08, 2003
- Need to identify status for site vehicles –feedback to Randy Reynolds & JD Chiou
- Overtime approval by only four (4) upper level managers for the site.

VII. ACTION ITEM LIST

- Action Item List will be updated with information provided

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0025

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 37

MEETING DATE: April 9, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: April 15, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic –Check PPE for defects prior to use. Be especially aware of safety glasses.

Value Creation Topic – Plan to do the work right the first time

Balance Topic – Getting close to Easter

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Mentor stickers have been ordered for those still needing them
- Additional Fluor Corp safety training will be held Tuesday, April 22, in the SBCR. Any craft not previously attending a class need to be scheduled to attend
- Working with Training to get all the prior Fluor safety training documents into the site system.
- Hoe-Ram fell off excavator attachment

IH

- Nothing reported

RAD

- Air sample results below action levels

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Quantity tracking system report was distributed.

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Investigating alternative tools for cutting liner material in lieu of razor knives
- Need to look at areas for stockpiling unsuitable materials within the footprint of Cells 7 & 8 – running out of available space
- Approximately 10,000 BCY of AWAC has been hauled from Plant 6 to-date

V. PROJECT SUPPORT REPORTS

- GCL approval underway
- Geotextiles approved
- GML on hold
- Type 'C' material from Hanson has been approved
- Liner installation contract review meeting Thursday, April 10, 2003, 1:00 pm in T-183,
- Slope stability seminar on Thursday, April 24, 2003, 1:00-4:30 pm in T-183.
- Need to schedule removal of approximately 300 CY of material from Quonset Hut
- Need to identify planned source of vegetative layer material so Geosyntec can evaluate and approve for use.

VII. ACTION ITEM LIST

- Action Item List will be updated with information provided

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0027

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 38

MEETING DATE: April 16, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: April 21, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic –Heat Stress – know preventive measures & signs of Heat Stress.

Value Creation Topic – Communication

Balance Topic – Easter holiday 4/17/03 – enjoy the long weekend

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Mentoring program being implemented – need supervisor's buy-in for program to work
- One (1) day Fluor Corp safety training scheduled for Tuesday, April 22, in the SBCR. Any craft not previously attending a class need to be scheduled to attend
- Reported bee sting occurrence on project

IH

- Nothing reported

RAD

- Air sample results below action levels

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Updated report was distributed.

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Drilling of Well #3 should start 4/17/03
- Fencing around Sediment Basin #2 should start week of 5/5/03 (Wise Services)
- Area 9 Phase 2 – Hot Spot has been removed & area backfilled
- Need revision to Construction Traveler – Module #3 for size-reducing Plant 5 casings (Kevin Harbin to provide input)

V. PROJECT SUPPORT REPORTS

- Geotextile & GCL deliveries are in process – GML still on hold
- Penetration box deliveries anticipated in mid-May
- Slope stability presentation on 4/24/03
- Cell #8 footprint not certified – needs to be planned/scheduled
- Real-time distributed a checklist to enhance communication with Construction
- Geosynthetics installation contract ready to be awarded

VII. ACTION ITEM LIST

- Action Item List will be updated with information provided

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0028

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 39

MEETING DATE: April 25, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: April 28, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Be aware of small things (i.e. paper cuts)

Value Creation Topic – Planning and communication – always look for improvements

Balance Topic – Spend quality time with family & friends

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- No injuries or accidents on project this past week.
- Approximately 76 attended 4/22/03 8 hour safety training class
- Need to complete/identify "Competent Person" designation forms; especially Eyewash, Ladders and Fall Protection
- Individual in D&D project struck on hardhat by piece of pipe; another individual "near miss" struck by section of pipe
- Need to review safety incentive workgroups & divide into three (3) groups instead of the current two (2) groups – have changes established by May 1

IH

- Nothing reported

RAD

- Air sample results below action levels
- Rad techs (4) scheduled for Fall Protection Training - need to reschedule some in order not to impact field activities
- *** Training has been re-scheduled for Friday, 4/25/03

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

No report issued

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Need to look at adding additional ramps for access to cells in order to sustain required placement volumes
- Approximately 2,000 bcy of AWAC has been hauled out of Plant 6 during past week
- Haul road wheel wash will be shut down for 2-3 weeks to concentrate on equipment decontamination
- Basin #2 fencing (Wise Services) scheduled to start 5/5/03
- Approximately three (3) days of topsoil in Borrow Area remains prior to seeding
- Will be moving to SWU to complete Restoration work following Borrow Area Restoration
- Need to finalize plan for stockpiling materials in Borrow Area to minimize impacts to screening operations

V. PROJECT SUPPORT REPORTS

- Material submittals are in process
- Slope stability presentation 1-5 pm 4/24/03 in T-183 CR
- GML has been released & deliveries should start next week
- Leak detection contract being reviewed – issue next week for bids

- Crushed concrete will be placed as Category 1 – manifest will reflect same
- Moving forward with GPS utilization on dozers for new cell construction
- Inspection on Cell 1 cap @ 9:30 am 4/24/03 – additional vehicles will be in the area
- Need to start using same schedule next week as used by Executive Management
- Foreman "Discipline Training" is being scheduled
- Reinhard Friske introduced as part of Quality Team

VII. ACTION ITEM LIST

- Action Item List will be updated with information provided
- Status of rail removal (how is it to be dispositioned?)

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0029

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 40

MEETING DATE: April 305, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: May 6, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Walk Your Space – remain aware of your environment at all times.

Value Creation Topic – Proper communication – always look for ways to improve it.

Balance Topic – Spend quality time with family & friends

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- No injuries or accidents on project this past week.
- Approximately 45 project personnel are scheduled for the 2-day Fluor Safety Training. Session #1- Tuesday, May 13th, 7:30 – 4:00 and Wednesday, May 14th, 7:30-12:00. Session #2 – Wednesday, May 14th, 1:00-4:00 and Thursday, May 15th, 7:30-4:00
- Heat Stress Training by Medical personnel is in process this week
- Heat Stress monitoring data will be sent out over alpha pagers to supervisors again this construction season
- Discussed "near miss" with falling rebar incident at Silos

IH

- Nothing reported

RAD

- Air sample results below action levels
- Grapple head & AWAC truck beds still have fixed contamination
- Setting up drinking water stations in contaminated areas.

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

No report issued

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Seeding in Borrow Area is in process – should complete this week
- Uncertified material from OSDF ditch line needs to be placed in the cell
- Fencing around Sediment Basin #2 is in process (Wise Services)
- Construction Traveler for Excavation of Solid Waste Landfill (SWL) needs to be finalized in order to start excavation
- Need traveler revision to incorporate cutting of Plant 5 steel casings

V. PROJECT SUPPORT REPORTS

- Slope stability drawings for Plant 6 will be available for review/comment Thursday & Monday, 5/1/03 & 5/5/03
- Need to look at additional ramps into individual cells in order to maximize cell placement quantities

VII. ACTION ITEM LIST

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115
PAGE 1 OF 2

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0033

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 41

MEETING DATE: May 7, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: May 12, 2003
SDFP File Station
ECDC 20104.1.6

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Collin P. Sukow, MS38

Safety Topic – Ticks appear to be bad this year. Take extra care.

Value Creation Topic – Communication – Everyday we prove we don't do it well enough.

Balance Topic – Mother's Day this Sunday

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- No injuries or accidents on project this past week.
- Approximately 45 project personnel are scheduled for the 2-day Fluor Safety Training. Session #1- Tuesday, May 13th, 7:30 – 4:00 and Wednesday, May 14th, 7:30-12:00. Session #2 – Wednesday, May 14th, 1:00-4:00 and Thursday, May 15th, 7:30-4:00
- Heat Stress Training by Medical personnel continuing
- Heat Stress monitoring data will be sent out over alpha pagers to supervisors again this construction season
- Working to obtain an additional full time H &S representative by June
- Need to look at procuring fall protection safety equipment to support project
- Need to make decision on knives and alternatives to knife use

IH

- Nothing reported

RAD

- Air sample results below action levels
- Still working on deconning truck beds formerly used in AWAC area. Need to look at alternative method.

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Monthly report was distributed

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Will be installing a portable water tower to support dust control at new cell construction
- Existing topsoil stockpile in Borrow Area will be surveyed for quantity
- Davis-Bacon determination is back for erecting tent for Real-Time – covered work for Building Trades.
- AWAC excavation schedule - need to work up to 60 hrs per week to recoup schedule date
- Solid Waste Landfill – segregation of WAC material is not required
- Need to look at methods for expediting sampling turnaround times to support AWAC excavations
- Equipment mobilization for Borrow Area is scheduled to start 5/12/03
- Will look at working select personnel & equipment additional hours to recover schedule – will be addressed on a case-by-case basis
- GPS purchase order issued. Will be here in 3 weeks; then 3-4 days to install

5367

- Need to continue to maintain good contractor/client relationship

V. PROJECT SUPPORT REPORTS

- Slope stability drawings for Plant 6 will be available 5/15/03
- DOE tour scheduled tomorrow, 5/8/03

VII. ACTION ITEM LIST

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0035
SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 42

MEETING DATE: May 13, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: May 15, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Be aware of sun glare & blind spots when driving

Value Creation Topic – Communication – Everyday we prove we don't do it well enough.

Balance Topic – Enjoy the sunshine while we have it

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Nothing reported

IH

- Nothing reported

RAD

- Nothing reported

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Nothing reported

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Started placing Cell #2 clay cap layer 5/12/03
- Inlet box & gravity inlet structure materials are schedule to ship next week
- Still awaiting EPA approval to start SWL excavation
- K-65 trench can be backfilled just prior to starting utility isolation trenching of that area.
- Commitment has been to recover activities behind schedule by the end of July. Area managers to plan work accordingly.

V. PROJECT SUPPORT REPORTS

- RCI is in process to increase Cat 2 grid placement size from 100' x 100' to 200' x 200'
- HDPE pipe certification contained incorrect information. As soon as correct info is received it will be approved for shipping.
- GPS expected 1st week of June. Will require 1-2 day installation per dozer.
- Need to expedite set-up of additional double wide trailer for field use
- Sampling will begin transition onto 2-shift Monday-Friday schedule late May
- Sampling working to greatly improve turnaround time on sampling results: U and VOA results within 16 hours; Tc-99 results with in 40 hours
- Real-time capability on excavator is available for filed use
- New DOE software directive to be released by IM in June.
- Final Public Tour, Tuesday, June 10

VII. ACTION ITEM LIST

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0037
SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 43

MEETING DATE: May 20, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: May 22, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Be cognizant of surroundings at all times; especially when operating or working around heavy equipment and vehicles.

Value Creation Topic – Plan your work – work your plan.

Balance Topic – Holiday this weekend.

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- No injuries on project during the past week
- Continuing heat stress training. Should begin doing baselines at morning meetings in order to be prepared for coming hot weather.
- Update on incident of collision of equipment with passenger van
- Looking at obtaining approval for use of knives for specific liner installation activities
- Started installation/erection of tent for Real-Time

IH

- Nothing reported

RAD

- Air sample results below action levels
- Articulating truck #2307 was free-released following demo decontamination effort Bartlett using a hydro lazer.

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Nothing reported

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Additional quantity of Cell #6 overexcavation is being encountered
- Gravity inlet structures & HDPE piping has been delivered to site
- Regulatory approval for Radium Hot Spot expected this week
- Weather has impacted clay placement, soils, excavation, and cell placement activities this past week
- Site preparation work at Solid Waste Landfill in progress
- Starting to mobilize equipment for Concrete Crushing contract
- Screeners/stackers have been mobilized and will be set-up as weather permits. Will set-up screeners within Area 3
- SWU excavation/reclamation activities have been completed
- Cat 980 loader was observed operating near parking lot-need to exercise caution in those situation

- Schedule is currently under review by Leadership Team; changes may take place because of budget constraints
- Project title is Soil and Disposal Facility Project (SDFP) again; changed back from Soil & Water Project (SWP)

V. PROJECT SUPPORT REPORTS

- Plant 6 slope stability drawings have been sent to EC DC for distribution
- Borrow Area excavation for Area 4 & Area 6 is being revised
- GPS has been shipped, should be received this week. Surveying is already studying software
- 3 rolls of material missing Geotextile missing for order.
- Glen Griffith is acting DOE Site Director
- Valve Houses No. 7 & No. 8 are scheduled to start October 1, 2003
- Randy Reynolds will be looking at activities to schedule this winter
- Charles Carney introduced as new member of SDFP management

VII. ACTION ITEM LIST

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0039

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 44

MEETING DATE: May 27, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: May 30, 2003
SDFP File Station
ECDC 20104.1.6

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GeoSyntec
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Collin P. Sukow, MS38

Safety Topic – Watch footing during wet weather; avoid slipping on grass, walkways, equipment.

Value Creation Topic – Communication – always strive to improve

Balance Topic – All holidays (time off away from work) are enjoyable.

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Nothing reported

IH

- Nothing reported

RAD

- Nothing reported.

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Nothing reported

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- Weekend work on cell cap clay liner helped to recover schedule
- Missing rolls of GML/GCL have been located
- Meeting with Geosynthetic installation subcontractor today to discuss sequencing of work
- Sediment Basin #2 fencing is complete except for grounding
- Work in Cell #3 catchment area needs to be expedited—additional pipe work required by Wise Services
- Need to remove tanks & debris from former Fire Training Facility area to complete demobilization
- Screening equipment currently being set-up as well as installation of gabion baskets. Screening should start by the end of this week.

V. PROJECT SUPPORT REPORTS

- Finalized RCI for Cat 2 grid placement
- DCN 20104-012 for placing topsoil on final lift of vegetative cover issued for review/approval
- Engineering working on revised plan for ramps into each cell for placement
- Starting installation of GPS equipment on Cat D6R LGP dozers in MCM off-site equipment yard
- Need Engineering data substantiating design of truck to handle ISO containers prior to use
- Procedure for utilizing knife on project has been approved by Jamie Jameson

- Procedure will be utilized for site-wide training purposes

VII. ACTION ITEM LIST

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0041
SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 45

MEETING DATE: June 3, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: June 5, 2003

SDFP File Station
ECDC 20104.1.6

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Safety Topic – Ticks are everywhere. Take precautions ahead of time. Wear light colored clothing, tape pant legs, spray repellant.

Value Creation Topic – Communication –Everyday we prove we don't do it well enough. Always strive to improve.

Balance Topic – Enjoy the green grass, etc. that the rain has given us. It will end eventually (we hope).

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Laborer fell while using hand truck – first aid
- Laborer reaction to insect bite (possible spider) in hospital for antibiotic
- Seven (7) employees went to Medical following adverse reaction to working around dumped soil into cell
- Operating engineer closed door on own hand

IH

- Nothing reported

RAD

- BZ & Air Sample results below action levels

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Nothing reported

IV. SDFP PROGRESS DETAIL REPORT

- Two Week Lookahead schedule was distributed and discussed
- OSDF well #3 should be complete & operational within two weeks
- Briefing on liner installation & knife use to be held 6/4/05
- Clay liner placement in Cell #6 started last week
- Bottom of Cell #4 filled with transite – truck for hauling transite is to be deconned and changed out
- Meeting 6/4/03 to discuss Area 3B utility trenching & finalize mobilization date for trencher
- New crusher for Concrete Crushing contract received at MCM's offsite equipment area 6//202
- Borrow Area equipment mobilization will be completed this week
- T65 and T190 trailers will be moved and set-up as project cool down trailers

V. PROJECT SUPPORT REPORTS

- New DCN being developed to allow some flexibility concerning GML installation
- Finalizing details on new ramps into cells to support placement
- Mike Frank heading up Real-Time
- GPS installation on Cat D6R dozers is underway – first dozer should be ready today with second unit shortly thereafter
- Need to look at project needs relative to pumps and generators required to support the project
- Need to look at path forward relative to Cat 826 landfill compactor – continue rental or exercise purchase option.

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0043

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 46

MEETING DATE: June 10, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: June 16, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Be safe – even on vacation. Plan safely and properly for your destination/adventures

Value Creation Topic – Measure twice – cut once

Balance Topic – Enjoy your favorite sport / entertainment whenever you have the chance

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Employee reported to Medical – chigger bites – need to wear proper PPE while working in weeds

IH

- Nothing reported

RAD

- Nothing reported

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Nothing reported

IV. SDFP PROGRESS DETAIL REPORT

- OSDF Construction Well No. 3 should be complete next week
- Cap/Liner Construction activities to be coordinated to ensure liner installation subcontractor work is continuous
- Notify OSDF Construction Manager & Borrow Area Construction Manager whenever entering the work area due to large numbers of equipment & associated changing traffic patterns
- Area 3A AWAC excavation is complete, pending final Real-Time results
- Area 3B utility isolation trenching is scheduled to start 6/16/03
- Started screening for clay-currently adjusting screen plant equipment
- Restoration work at SWU and Northern Pines areas has been completed. Break/cool down trailers to be reassigned within project
- Valve House #7 start FY04 moved to FY05

V. PROJECT SUPPORT REPORTS

- Borrow Area excavation design has been approved
- Design of ramps into cells in process
- Design of Area 4B utility isolation trenching being finalized
- Area west of SP 7 will be posted as thorium airborne area until WPRAP is complete
- Coordinating activities with this afternoon's scheduled tour
- Look at adverse trend on recent safety/injury incidents on the project
- Project controls to roll-out baseline budget for all aspects of the project for group/department review

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:00453

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 47

MEETING DATE: June 17, 2003

LOCATION: *Fluor Fernald Office*

ISSUE DATE: June 20, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Beware of potential safety hazards when dealing with water removal.

Value Creation Topic – Preplanning is the key to success

Balance Topic – Enjoy the weather while the rain is away

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Stay aware of requirements and manage personnel relative to heat stress monitoring
- Keep Safety & Health informed of plans to work extended shift hours and weekends
- Stay aware of problems working in weeds (chiggers, bugs, bees, etc.)
- Real-Time individual loaned to Rad Control was bitten or stung by insect last week.

IH

- Nothing reported

RAD

- Recent DOE Assessment of poor/inadequate Rad practices identified on another site project—deficiencies are being shared with project personnel in safety briefings

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Nothing reported

IV. SDFP PROGRESS DETAIL REPORT

- Waiting on new pump for OSDF Construction Well #3
- Pipe damage after weekend in OSDF Basin #2 -- repairs to pipe and additional slope protection measures are in process
- Received email from OEPA last week concerning verification of rock removal from Cell #2 Cap clay layer
- Pumping of stormwater into existing storm sewers is on hold based on direction from AWWT project (Ev Henry)
- Utility Isolation Trenching started 6/17/03 (trencher mobilized 6/13/03)
- Concrete crushing equipment being moved into work area this week

V. PROJECT SUPPORT REPORTS

- DCN for Cell #4 ramp is being discussed with EPA
- Engineering is updating Optimization Plan for Excavation/Placement
- If weather permitting at end of week, schedule select activities over weekend (Saturday and Sunday) if feasible to do so
- Cell phones are being swapped out for radios
- Need full list of all individuals assigned radios on the project
- All project support personnel shall attend field safety briefing each day (mandatory)
- Need to plan ahead on material requirements and requisition accordingly in advance

I. PREVIOUS MEETING REVIEW

Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- No injuries this past week
- Ensure work scope is included in and addressed by construction travelers

IH

- Nothing reported

RAD

- Air sampling & BZ results are below action levels

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Report distributed

IV. SDFP PROGRESS DETAIL REPORT

- Should complete electrical/mechanical on OSDF Construction Well #3 next week
- Started Geosynthetics installation last weekend
- Started work on penetration boxes 6/24/03
- Repairs completed on damage to pipe in Sediment Basin #2 last week
- Excavation impacted last week by weather & not being permitted to pump water to AWWT
- Gradall received 6/23/03 for excavation of Area 2 Phase 2 / Radium Hot Spot – ready to start removal
- Concrete Crushing equipment being setup – should begin crushing this week
- Clay screening averaging approximately 3,400 CY/Day when weather permitting
- Design drawings for Valve House #7 are in review

V. PROJECT SUPPORT REPORTS

- Anticipate EPA approval on 200' x 200' placement grids and ramp into Cell 4 this week
- Still need third Cat D6 LGP Dozer for installation of the GPS equipment
- Additional interface meetings are being scheduled with Silos and D&D projects
- Weekend work to be scheduled/approved based on case-by-case basis
- Work shall be scheduled on 7/3/04, but no work on 7/4/07
- Need to give written direction to subcontractors when requesting work outside of normal construction hours specified in the contract

VI. ACTION ITEM

Find solution to measuring / calibrating accuracy with scale(s) used with Concrete Crushing

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
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CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0057

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 53

MEETING DATE: July 29, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: July 31, 2003

SDFP File Station
ECDC 20104.1.6

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Safety Topic – Managers/Supervisors need to set good example in following/complying with safety culture/rules

Value Creation Topic – Look for ideas to improve performance & safety

Balance Topic – Company picnic coming up on August 16

PREVIOUS MEETING REVIEW

Nothing reported.

I. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Ensure adequate lighting is available at beginning of shift
- Internal assessment underway on equipment inspections
- Teamster bumped elbow while adding oil to site vehicle – taken to Medical. Classification -Reporting Only

IH

- Nothing reported

RAD

- Air sampling & BZ results are below action levels
- Up-posted ramp for Cell 5

II. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

No report distributed

III. SDFP PROGRESS DETAIL REPORT

- OSDF Construction Well in use
- Should finish Cell #2 Cap drainage layer this week
- Approximately five (5) working days required to complete secondaryGCL/GML in Cell #6 liner
- Continuing transite placement in Cell #5
- Project placed dumped rock on North side of 2nd St and load tested pavement to check stability following utility isolation trenching
- Crush concrete from Plant 1 Pad material to assist in scale calibration on concrete crushing equipment
- Radio traffic needs to be cleaned up to help eliminate congestion
- Need to look at additional servicing of portable toilets to support extended hours and weekend work schedule or obtain additional toilets
- Need to determine status for repair of Cat 730 Articulating Dump Truck that lost wheel last week
- Piping in Quonset Hut installed & soil placed back over piping
- Need to determine realistic date for completing Concrete Crushing operations
- Need to aggressively pursue Plant 1 Pad work

IV. PROJECT SUPPORT REPORTS

- Cell 5 impacted material access road being worked by engineering
- Construction coordinate Real-time needs with Real-time group
- Need to look at load manifesting process and alternatives for material tracking for cell placement
- Will be relocating GPS instrumentation base station – no impact on project
- Quarterly inspection on Cell #1 cap next week
- Ensure labor is charged to the appropriate charge number
- Manager/supervisors need to ensure workers are performing work safely – stress accountability.
- Dan Powell shared feedback from last week's DOE tour – received positive feedback on new technology (GPS on dozers)

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0055

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 52

MEETING DATE: July 22, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: July 28, 2003

SDFP File Station
ECDC 20104.1.6

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Safety Topic – Use proper body mechanics when lifting

Value Creation Topic – Plan the work – work the plan.

Balance Topic – County Fair time – support local 4-H & FFA

PREVIOUS MEETING REVIEW

Nothing reported.

I. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Updated open items list from weekly safety walkdowns need to be worked off/closed
- Site projects that no more than 2 recordable injuries will enable Site to meet established safety goal.

IH

- Nothing reported

RAD

- Air sampling & BZ results are below action levels
- Clothing contamination (off-normal) in Cell 3 catchment area last week – project briefed.

II. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

No report distributed

III. SDFP PROGRESS DETAIL REPORT

- Cell 2 Cap leak detection complete
- Cell 6 liner clay paced – certification in process
- Cell 6 liner secondary GCL/GML started 7/17/03
- Cell 1 cap erosion rills to be corrected when it dries up later this week
- Area 2 PII Radium Hot Spot Excavation – tree has been felled- still needs to be cut up & stump removed
- Concrete Crushing scale rep working with MCM to rectify scale issues
- Concrete/Soil piles for crushing being screened to separate soil from concrete prior to crushing operation
- PVC Piping has been installed in Quonset Hut – backfill soil over pipe this week

IV. PROJECT SUPPORT REPORTS

- Area currently containing stockpiled lime sludge material will be left open as "stockpile" following removal of existing material.

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0058

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 54

MEETING DATE: August 5, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: August 7, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Be aware of your surroundings & stay focused on task at hand;especially when working in a construction area

Value Creation Topic – If you don't know where you're going, ask for directions

Balance Topic – Get your kicks where you can

Nothing reported.

I. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Current / planned Safety assessments
  - Equipment Operations
  - Equipment Inspection
  - Excavation & Penetration Permits
- DOE has requested that Lessons Learned (especially those relevant to this site) be distributed by whatever means appropriate
- No injuries in the last week

IH

- Nothing reported

RAD

- Air sampling & BZ results are below action levels
- The findings/results (including a PAA infraction) from the recent Radiological audit are being clarified.
- Rad Control will begin issuing RDRs after three violations to individuals not signing out on RWPs

II. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

Updated Excavation Quantity Tracking Report for July distributed

III. SDFP PROGRESS DETAIL REPORT

- Approximately 30% complete with Type "D" dumped rock for Cell 2 cap
- Impactor/tractor to resume Plant 1 Pad concrete demolition 8/5/03
- Scale calibration problem with Concrete Crushing equipment appears to be resolved at this time
- Equipment from Savannah River is on site for treating RCRA soil in Quonset Hut
- 4 pieces of equipment left in decon: 1 Articulating Truck, D6 dozer, 2 excavators - all have fixed contamination from working in or loading/hauling AWAC material

IV. PROJECT SUPPORT REPORTS

- Cell #5 preliminary drainage plan being completed by Engineering
- Photos of liner defects have been taken
- Water in Plant 6 basement needs to be sampled prior to pumping
- No Excavation/Cell Placement work planned for Sunday 8/10/03 – wells shut down
- Excavation plans to work 12-hr days, weather permitting

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0060

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 55

MEETING DATE: August 12, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: August 13, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – When driving in construction areas, be aware of changing roads conditions, only travel where needed and where it's safe

Value Creation Topic – Communication - every day we prove we don't do it well enough

Balance Topic – Whether it's prairie dog fishing or attending the Fluor Fernald Family picnic, enjoy time with your co-workers and family

PREVIOUS MEETING REVIEW

Nothing reported.

I. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Potential injuries – back strain & dust partical in eye
- Safety assessments nearly finalized
- Water tower scheduled to come down 8/23
  - 3B/4B is included in the 800 ft exclusion zone
  - Names of individuals scheduled to work that day need to be submitted
  - A face-to-face (not radio contact) accountability will be done prior to demolition
- Per Randy Reynolds – Excavation will not work that day
- Sunday work pending
- New WAO radios are using Channel 16 solely as a WAO channel. Continue to contact them in same means as currently used

IH

- Nothing reported

RAD

- Air sampling & BZ results are below action levels
- Direct haul started yesterday utilizing haul trucks from D&D areas directly into cell or OMTA

II. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

- No report distributed

III. SDFP PROGRESS DETAIL REPORT

- Choke stone in Cell 2 to start end of this week
- Primary GCL/GML in Cell 6 will start today
- Sent select patches to Geosyntec last night; should have results by noon today
- Placing transite as received from D&D
- We will now be hauling debris from D&D areas into cells or OMTA
- Mary Eleton is new supervisor of OMTA
- Concrete Crushing not working to capacity
- Drum found in area 8 along Patty's Run
- 1st week in Sept the soil from Quonset Hut will be move to the cell and the soil from the Burrito will be taken to Quonset Hut
- Steam heat replacement project to mobilize next week
- Negotiating Change Order for South Field Extraction Phase II
- AWWT drawings are in ECDC awaiting distribution

IV. PROJECT SUPPORT REPORTS

- Cell 5 impacted road drawings are complete & will issue tomorrow
- Updating cross sections in OSDF cells
- Working with Geosyntec on thorium debris grid changes
- Surface defects in GML. Plan to use suspect roles last. Defects do not effect the integrity of the material, but it is time consuming to cut off the defects and patch.
- Hours for extra work and labor need to be tracked under a separate charge number
- Water standing in Plant 6 sump is to be pumped to the storm sewer
- Will attempt again to relocate the GPS antenna this weekend. See no reason for interruption
- Generators need to be exchanged for those brought in

- Timely reporting of incidents and injuries is the responsibility of everyone
- SWP management working to put together achievable Safety Goals for 2004
- PPE – each subcontractor is responsible for providing "blues"
- Timesheets recording accuracy continues to need attention
- Accurately record cost codes & time changes

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
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CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0062

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 56

MEETING DATE: August 19, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: August 26, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – West Water Tower implosion scheduled for 08/23/03

Value Creation Topic – Learn CPR – someone's life may depend on it some day

Balance Topic – Take time to simile – enjoy a funny story

PREVIOUS MEETING REVIEW

Nothing reported.

I. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Dozer and articulating haul truck collision in cell
- Spotter nose injury – hit by own radio
- Additional craft training classes are being planned – need to identify conference room for scheduling

IH

- Nothing reported

RAD

- Air sampling & BZ results are below action levels
- AWAC areas to be identified by "red" ropes

II. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

- Updated report distributed

III. SDFP PROGRESS DETAIL REPORT

- Matting and seed for Cell 2 cap needed September
- Cell 2 cap granular fill started 8/19/03
- Should complete Cell 6 liner survey of secondary drainage layer 8/20/03
- Leak Location Services scheduled to mobilize 9/03/03 for leak testing Cell 6 liner
- CCPL7 charge number established for direct haul of D&D debris to OSDF
- Remaining concrete demolition in Area 4A is AWAC
- Approximately 2,000 ton of concrete crushed last week
- Approximately 35,000 CY of soil remaining in Borrow Area accessible for clay screening unless existing clay stockpiles are relocated

IV. PROJECT SUPPORT REPORTS

- DCN for access ramp to Cell 5 in process
- Utility isolation trenching @ Lab Building scheduled for October
- Looking at survey support requirements for remainder of construction season
- Need to close-out NCRs in a timely manner
- Ensure Lockout/Tagout training is up-to-date & appropriate personnel are trained
- Effective 8/25/03, craft work hours will be adjusted – new start time will be 7:AM because of later sunrise
- No project work scheduled this weekend (Sat/Sun) due to water tower demolition

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0065

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 57

MEETING DATE: August 26, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: August 29, 2003
SDFP File Station
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Safety Topic – It's Hot! Whether at work or at home, take care not to get dehydrated. Drink plenty of non-carbonated / non-alcoholic liquids---water

Value Creation Topic – Communication – everyday we prove we don't do it well enough

Balance Topic – Labor Day weekend – no work Saturday thru Monday

PREVIOUS MEETING REVIEW

5367

Nothing reported.

I. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Articulating truck dump bed tipped over in Borrow Area. No injury, no equipment damage
- Heat stress related incident 8/25/03. Individual went to Medical

IH

- Nothing reported

RAD

- Air sampling & BZ results are below action levels

II. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

- No report distributed

III. SDFP PROGRESS DETAIL REPORT

- D&D staged sealand in work area (product leaking from container)
- Approximately 18,000 BCY of Cat 1 remaining in Area 3A/4A based on current survey information – looking for additional sources
- SP-8 should be ready to excavate/haul next week
- Looking at moving soil from Quonset Hut to OSDF and relocating RCRA soil from Burrito to Quonset Hut for treatment

IV. PROJECT SUPPORT REPORTS

- Cell #5 access ramp approved by EPA- ready to start construction
- Engineering working on following:
  - Wetland CFC package
  - Interceptor trench design
  - STP excavation
- Request for using scrapers in Area 3A/4A submitted to EPA for review/approval
- SP-7 filling up quickly
- Need to start looking at Safety Goals and objectives for the project for FY04
- Need to look for additional sources of Cat 1 material to support placement goals
- Need to close out NCRs in timely manner
- Ensure requisitions are necessary prior to new fiscal year

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0067

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 58

MEETING DATE: September 2, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: September 9, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Rain changes work conditions. Be especially careful of steps and equipment movement

Value Creation Topic – Communication – everyday we prove we don't do it well enough

Balance Topic – Start making plans for Tall Stacks

PREVIOUS MEETING REVIEW

Nothing reported.

I. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Trying to close NCR on timesheets
- Working with equipment vendors and union representatives to obtain additional information on safe equipment operation in order to enhance project training/awareness
- Preparing letter to DOE on articulating truck wheel failure incident on 7/25/03. Currently waiting on additional information from MCM to close out
- DOE assessment of Construction Safety is scheduled next week
- Compiling list of project employees to attend Fluor safety training – those hired subsequent to last session need to attend

IH

- Nothing reported

RAD

- Nothing reported

II. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

- *No report distributed*

III. SDFP PROGRESS DETAIL REPORT

- Cell #2 cap vegetative cover is approximately 30% complete
- Patches/repairs remaining on Cell #6 liner primary GML installation
- Mobilization of Cell #6 leak testing subcontractor moved back to 9/8/03 due to weather constraints
- Direct hauling of D&D debris to OSDF is going well.
- Plan to start hauling material from SP-8 to the OSDF this week
- Concrete Crushing scale issues are still being worked
- Sample results from Quonset Hut soil are expected this week. If results are OK, material can be placed in OSDF and material in Burrito can be moved to Quonset Hut

IV. PROJECT SUPPORT REPORTS

- Engineering
  - Area 6 excavation drawings being finalized
  - Wetland drawings have been sent to EPA for comments
  - Cell 5 access ramp (DCN 20104-016) has been approved, pending improved access for impacted material placement
  - Fill plan for STP excavation being developed with Cell #8 design – only west side of road to be filled
  - Valve house #7/#8 design plans are in Blue Sheet Review
- Characterization
  - SP8 material is acceptable for OSDF placement
  - Fire Training Facility excavation needs to be pumped out to allow additional sampling
- Restoration
  - Seed and matting material procurement for Cell 2 cap should be awarded 9/2/03

- Seed material readily available – should be able to provide within 1-week notice
- Construction Management
  - Due to inclement weather over weekend and early this week, selective overtime may be scheduled for this weekend – still need to stay under 60-hr total for the week

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0068

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 59

MEETING DATE: September 9, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: September 15, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Walk your space

Value Creation Topic – Think outside the box - look for ways to improve every process

Balance Topic – Fluor Fernald Golf Outing 9:00 Friday at Twin Run

PREVIOUS MEETING REVIEW

Nothing reported.

I. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- No accidents/ injuries over past week
- DOE Construction safety assessment occurring this week
- Fluor project safety assessment scheduled for next week
- Teamster BA will be addressing safe work groups on safe equipment practices at afternoon safety briefings this week

IH

- Nothing reported

RAD

- Air sample results below action levels
- Interface issues between D&D and excavation projects need to be addressed to minimize spread of contamination

II. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

- Updated report distributed and reviewed

III. SDFP PROGRESS DETAIL REPORT

- Will complete placement of Cell #2 Cap vegetative layer this week
- Awaiting test results from Cell #6 liner primary GHL repairs
- Cell #6 liner leak testing is scheduled to start 9/10/03
- Cell #6 liner should be ready for placement of protective cover by mid-October
- Continuing to load/haul impacted material from SP-8 to the OSDF and place in cells
- Weather permitting, anticipate placing approximately 10,000 yds of material in cells during the next two (2) weeks
- Communication issues with D&D project relative to direct haul of debris to OSDF need to be resolved
- Reviewing schedule recovery options with MCM on Concrete Crushing contract
- Will continue screening soil for clay through end of September then decide at that time whether to continue screening operations or stop for this year
- AWWT Steam Heat replacement project is adding electricians in order to catch up on schedule

IV. PROJECT SUPPORT REPORTS

- Engineering
  - DCN "Final Cover Determination" has been issued
  - Design for filling STP excavation on west side of road
  - Interceptor trench design
  - Re-routing of OMTA drainage
  - Stormwater inspections-Eng taking more active role
- Characterization
  - Status of 3B AWAC (design areas)
  - FTF water has been pumped down to allow additional sampling
- Construction Management
  - Project schedule goals for FY03 are being met- provide positive feedback to team members, including craft
  - Will be finalizing winter construction work plan during the next few weeks

- Currently funded to present schedule – looking at pulling additional work forward if funding can be obtained
- Safety goal for next year – No Recordable Injuries
- Looking at additional award/recognition for groups with no recordable injuries during the past year
- Support the United Way Campaign
- Warren Hooper has joined our group and will be in charge of all field operations. Randy Reynolds has moved to Silos

V. ACTION ITEMS INITIATED 9-9-03

Shut down Borrow Area screening operations for season	Hooper
Status of Valve Houses 7 & 8 Engineering review	Kumthekar
Acceleration of liner for Cell 8 (funding)	Powell
Waste Pit / Cap 4 material availability	Chiou
Will trencher be required for Area 4B Utility Isolation trench	Carney/Harbin
Tractor requirements for Cell 2 seeding and restoration projects	Williams
Source(s) of add'l Cat 1 material for Cell 6 protective layer	Construction/ Engineering
Winter work	Construction team

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0070

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 60

MEETING DATE: September 16, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: September 22, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Fall Protection – ensure personnel are trained and comply with safety requirements

Value Creation Topic – When communicating with others, be sure they understand what you are saying

Balance Topic – It's not your position in life that makes you happy or unhappy. It's your disposition.

PREVIOUS MEETING REVIEW

Nothing reported.

I. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- DOE Construction Safety Assessment close-out meeting was held 9/16/03 – results/findings will be shared with the project
- Fluor Quality/Safety assessment is taking place this week
- Bee sting and foreign object (dust) to eye. Both occurred 9/16/03

IH

- Nothing reported

RAD

- Air sample results below action levels
- Project will share control point on west side of excavation with Wise

II. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

- No report

III. SDFP PROGRESS DETAIL REPORT

- Cell 6 liner GML weld repair/patching still in process
- Leak detection subcontractor will perform additional testing following acceptance of weld repair work
- One (1) load of fiber board from D&D to be placed in cell - need to identify placement requirements
- D&D scheduled to work 7 day/week for rest of September – our project will be supporting their work schedule
- Resumed use of concrete impactor on Plant 1 pad area 9/16/03
- Demolition of Plant 6 basement concrete is complete
- Solid Waste Landfill excavation is scheduled to start on 9/22/03
- MCM crushed 4,850 tons of concrete weekending 9/13/03 - approximately 35% complete
- Approximately 17,000 CY of clay screened weekending 9/13/03 – 140,000 CY screened so far this season

IV. PROJECT SUPPORT REPORTS

- Engineering
  - Design for filling STP excavation on west side of road
  - DCN "Final Cover Determination" - approved by EPA
  - OMTA drainage modification design
  - Area 3A/4A final grading design
- Characterization
  - Area 6 Phase1 – no arsenic excavation required
- Construction Management
  - Received very positive feedback from DOE concerning last week's safety assessment – share with project employees at all levels
  - Working on project poster

V. ACTION ITEMS

Action Items	Lead	Date Initiated

Shut down Borrow Area screening operations for season	Hooper	9/9/03
Status of Valve Houses 7 & 8 Engineering review	Kumthekar	9/903
Acceleration of liner for Cell 8 (funding)	Powell	9/903
Waste Pit / Cap 4 material availability	Chiou	9/903
Will trencher be required for Area 4B Utility Isolation trench?	Carney/Harbin	9/9/03
Tractor requirements for Cell 2 seeding and restoration projects	Williams	9/9/03
Source(s) of add'l Cat 1 material for Cell 6 protective layer	Const/Eng	9/9/03
Winter work	Const. Mgmt.	9/9/03

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0071

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 61

MEETING DATE: September 23, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: October 6, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Be safe when cleaning leaves from gutters. Move ladder along roof, don't reach too far.

Value Creation Topic – Slow down – school has started; and weather is changing

Balance Topic – Football time is here

PREVIOUS MEETING REVIEW
Nothing reported.

I. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Soils/OSDF received a score of 94% from recent Fluor Safety Assessment
- MCM has obtained for the project a series of Caterpillar-produced safety videos on safe equipment operation/practices. These videos are being viewed by various work groups at Monday Safety Meetings
- A special safety training class is scheduled 9/24/03 from 5:30-7:30pm in T183 for project teamsters
- Daylight hours are decreasing – ensure adequate lighting is available to support start of all tasks

IH

- Nothing reported

RAD

- Air sample results below action levels
- South half of "B" St. is being changed to contaminated area
- Lessons Learned issued concerning prohibited product hauled from D&D to OSDF last week

II. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

- Progress report distributed

III. SDFP PROGRESS DETAIL REPORT

- Cell #2 cap topsoil complete
- Cell #2 cap seeding to start 9/24/03 provided it dries up sufficiently
- Cell #6 liner primary GML repairs in process
- Geosyntec has approved plan for Cell #6 liner penetration box repair
- Leak detection subcontractor is scheduled to return 9/24/03
- Permanent power for Cell #6 to be installed following completion of Valve House Road
- Concrete impactor demolition at Plant 1 Pad scheduled to resume 9/24/03 – anticipate demobilizing impactor prior to 10/09/03
- Changed screens 9/19/03 on concrete crusher – ran material through and checked gradation for compliance with Cat 1 material requirements
- Re-checked concrete crusher scale calibration last week – checked within requirements
- Plan to discontinue Borrow Area screening operation 10/03/03 – approximately 160,000 CY should have been screened at that time for this season – additional material is also available from prior year screening
- Northern Pines planting scheduled to start 10/15/03

IV. PROJECT SUPPORT REPORTS

- Engineering
  - Valve House 7/8 drawings available 9/23/03
  - Letter from Geosyntec on GML repairs
  - Winter work plan to be developed/finalized
  - Design of construction laydown area
- Construction Management
  - 2004 Safety Goals /Poster
  - Support of United Way campaign
  - Staffing plan for winter construction
  - There will be a 90-day follow-up from the recently completed DOE Safety Assessment

V. ACTION ITEMS

Action Items	Lead	Date Initiated
- Acceleration of liner for Cell 8 (funding)	Powell	9/903
- Status Waste Pit / Cap 4 material availability	Chiou	9/903
- Source(s) of add'l Cat 1 material for Cell 6 protective layer	Const/Eng	9/9/03
- Plan for winter work	Const. Mgmt	9/9/03
- Baseline Review – Support groups review '04 schedule and be ready for meeting 2nd week of October	Support Groups	9/23/03
- All suggestions for Safety Goals due to D. Powell by Oct. 4	All	9/23/03
- Send Fluor Assessment/Report Score to DOE (Harris)	Johnson	9/23/03

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0073

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 62

MEETING DATE: September 30, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: October 6, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Be aware of traffic patterns; obey traffic signs

Value Creation Topic – Practice proper communication

Balance Topic – Like 'fish stories', there's always a 'deer story' just waiting to be told

PREVIOUS MEETING REVIEW
Nothing reported.

I. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Investigating potential Lock & Tag violation 9/29/03
- SWP stopped work Friday 9/26/03 to proactively review project (Time Out For Safety) – resumed work that afternoon
- Project will implement random work area stand downs each week to discuss safety
- Cat 730 Articulating truck was damaged while cleaning bed with hydraulic excavator - bent lift cylinders while truck bed was fully raised

IH

- Nothing reported

RAD

- Air sample results below action levels
- Thorium breathing zone test results were OK
- Will need to purchase additional Rad rope to support future cell up-postings

II. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

- No report distributed

III. SDFP PROGRESS DETAIL REPORT

- Started Cell #2 cap seeding/erosion mat 9/29/03
- Cell #6 liner primary Geotextile & drainage layer started 9/29/03
- Cell #6 will be ready for impacted material placement mid-November
- Awaiting stone deliveries in order to complete Cell #5 ramp
- K-65 trench scheduled to begin next week
- Issue with SWL boxes – packaging at risk using conservative approach
- SP7 full – cannot move any additional material into it. Approval expected next week for relocating soil from Quonset Hut to cell. With nowhere else to go, AWAC could soon be shut down
- Need approval to place Cat 2 in Cell #4 without cover
- Walkdown with DOE of Area 4B Utility Isolation Trench alignment is necessary prior to start of actual trenching
- Screening will conclude 10/3/03 with approximately 170,000 CY screened this season
- Excavation will be working 10 hours this week since D&D is not functioning at full speed
- Project will re-assess work schedule due to shorter daylight hours and later sunrise

IV. PROJECT SUPPORT REPORTS

- Engineering
  - Weld rod issue
  - Leak location services back for additional testing
  - Relocated STP area ditch
  - Design of construction laydown areas
  - OMTA drainage design- (isolation of storm drains)

- Project Controls
  - Continuing resolution starting 10/01/03
- Construction Management
  - Project support for United Way Campaign was outstanding
  - Weekly proactive review of safety (random) to enhance project performance
  - Work will continue this winter

V. ACTION ITEMS

Action Items	Lead	Date Initiated
- Acceleration of liner for Cell 8 (funding)	Powell	9/903
- Status Waste Pit / Cap 4 material availability	Chiou	9/903
- Source(s) of add'l Cat 1 material for Cell 6 protective layer	Const/Eng	9/9/03
- Plan for winter work	Const. Mgmt	9/9/03
- Baseline Review – Support groups review '04 schedule and be ready for meeting 2nd week of October	Support Groups	9/23/03
- All suggestions for Safety Goals due to D. Powell by Oct. 4	All	9/23/03

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0074

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 63

MEETING DATE: October 7, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: October 13, 2003
SDFP File Station
ECDC 20104.1.6

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Safety Topic – Fire Prevention Month – check smoke detectors

Value Creation Topic – Communication is critical – both internal and external

Balance Topic – Enjoy the nice weather this week

I. **PREVIOUS MEETING REVIEW**
Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- 9/15/03 Bee sting – first aid
- Site will contract for spraying in nesting areas

IH

- Nothing reported

RAD

- Air sample and BZ results below action levels
- Concerns about dumping soil from SWL (asbestos) into SP-7 has been addressed by Industrial Hygiene

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

- Updated report distributed and discussed

IV. SDFP PROGRESS DETAIL REPORT

- Cell #2 cap seeding and erosion mat installation still in process
- Cell#6 liner – GML and penetration box repairs completed
- Old STP excavation/fill work on east side nearly complete
- Should complete Cell #6 primary Geotextile installation 10/07/03
- Awaiting stone deliveries to complete Cell #6 liner impacted haul road and Cell #5 ramp from fueling area
- All impacted soil is currently being sent to Cell #3 – need to identify location for stockpiling at and below-grade Cat 2 materials.
- Started K65 (Phase II) utility trench excavation 10/6/03 – hit water line during excavation
- SWL AWAC excavation going well – no material has been required to be boxed for NTS to-date
- Approximately 4,000 tons of concrete crushed last week – 1,500 tons crushed 10/6/03 – very good day!
- Shutting down Borrow Area screening operations this week – will be grading areas to drain
- Additional piping being procured for treatment of soil in Quonset Hut – much of existing piping damaged during removal of previously staged soil
- Additional funds from DOE/Technology may become available for our use for winter placement and demolition

V. PROJECT SUPPORT REPORTS

- Engineering
  - STP fill plan complete
  - Leak detection work plan
  - Winter work plan in Blue Sheet Review
  - Meeting scheduled next week to determine Valve House responsibilities
  - Area 4B drawing review/approval
  - Walkdown scheduled to look for additional areas for excavation
- Real Time
  - Pre-certification scan of 3A/4A – when should it be scheduled?
- Survey
  - Re-staked Valve Houses 7 & 8

- Cells 7 & 8 roughed in

Construction Management

- Continue to emphasize work area cleanliness and good housekeeping

VI. ACTION ITEMS

Action Items	Lead	Date Initiated
- Acceleration of liner for Cell 8 (funding) (10/7/03 - answer: funding should be available mid-November)	Powell	9/9/03
- Status Waste Pit / Cap 4 material availability	Chiou	9/9/03
- Source(s) of add'l Cat 1 material for Cell 6 protective layer	Const/Eng	9/9/03
- Plan for winter work	Const. Mgmt	9/9/03
- Baseline Review – Support groups review '04 schedule and be ready for meeting 2nd week of October	Support Groups	9/23/03
- Area 3A/4A Stormwater Diversion ditch	Const/Eng	10/7/03
- Funding release for Valve House 7	Whitaker	10/7/03
- Organization structure for self-perform for Valve House 7	Hooper	10/7/03
- Revise estimate for Valve House 7 for self-perform	Whitaker	10/7/03
- Funding for Cell 8 site preparation	Powell	10/7/03
- Decision on Waste Shipping move from Bldg 82 area	Hooper	10/7/03

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0076

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 64

MEETING DATE: October 14, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: October 27, 2003
SDFP File Station
ECDC 20104.1.6

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+Frank Miller, MS64
+Ray Murphy, MS60
Chris Neumann, MS64
+Charles Payne, MS52-5
Dan Powell, MS64
Marty Prochaska, MS60
Dave Russell, MS64
+Richard Scheper, MS64
Jim Schwing, MS29
Anthony Snider, MS64
+Richard Stengel, MS60
+Mike Stumbo, MS60
Harold Swiger, MS65-2
+Chuck VanArsdale, MS64
+Christa Walls, MS52-5
+Rodney Whitaker, MS60
+Jerry Williams, MS60
+Fred Wilson, MS60
+Eric Woods, MS65-2
+Bill Zebick, MS60

DOE
+Allen Harris, MS45
Don Pfister, MS45

Ohio EPA
Tom Ontko

GeoSyntec
+Kwasi Badu-Tweneboah, MS38
Collin P. Sukow, MS38

Safety Topic – Fire safety practices (i.e. fire extinguishers, smoke detectors, escape routes)

Value Creation Topic – Communication needs to be practiced among ourselves

Balance Topic – Tall Stacks this week

I. **PREVIOUS MEETING REVIEW**
Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- First aid – particle in eye from equipment defroster fan
- Close-out T512 Off-Normal Event
- Operator safety training (Caterpillar instructors) on equipment safety

IH

- Nothing reported

RAD

- Air sample/Bz data below action level
- Assessment of Radiological program/work practices
- Up-posting "A" Street as contamination area

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

- Nothing Reported

IV. SDFP PROGRESS DETAIL REPORT

- Cell #2 cap seeding and erosion mat installation continuing – approximately 5 acres completed to date
- Cell#6 liner – impacted haul road will follow leak testing
- Leak Location Services will perform additional leak testing after liner repairs are completed
- Cell #5 ramp from fueling area nearly complete
- Approximately 15,000icy of Cat 1 impacted material is required to reach Cell #3 capping elevation
- Area 3B "designed AWAC" complete except for catch basin
- Anticipate completing 1st Street utility isolation trenching by 10/14/03
- Approximately 6,000 tons of concrete was crushed w/e 10/11/03. Approximately 19,000 tons remaining on crushing contract
- Wetland Mitigation Phase II Grading – draft report sent to EPA 10/9/03; still need to resolve certification status
- AWWT steam heat replacement status
  - FAB/install piping – completed; electrical/instrumentation 98%; HVAC/mechanical 75-80%
- $350k funding for Valve House #7 construction

V. PROJECT SUPPORT REPORTS

- Engineering
  - 4B CFC design expected this week
  - Rob Knight lead for Valve House #7/#8 construction
  - Presentation by Cetco on GCL 10/21/03 – off site
  - Leak Location Services on site
  - Cell #7/Cell #8 design
- Characterization
  - Plant 9 'stinky' soil to be sampled
- Survey
  - Authorization for survey preliminary work on Cell #7
- Construction Management
  - Meeting to review winter work plan – 3:00pm 10/14/03 in T183 Conference Room
  - D&D startup will happen only after extensive review of project

- Ensure DOE Facility Reps are aware of our planned activities
- Place 600,000 CY in OSDF cells in CY04

VI. ACTION ITEMS

Action Items	Lead	Date Initiated
- Acceleration of liner for Cell 8 (funding) (10/7/03 - answer: funding should be available mid-November)	Powell	9/9/03
- Status Waste Pit / Cap 4 material availability	Chiou	9/9/03
- Source(s) of add'l Cat 1 material for Cell 6 protective layer	Const/Eng	9/9/03
- Plan for winter work	Const. Mgmt	9/9/03
- Baseline Review – Support groups review '04 schedule and be ready for meeting 2nd week of October	Support Groups	9/23/03
- Area 3A/4A Stormwater Diversion ditch	Const/Eng	10/7/03
- Funding release for Valve House 7	Whitaker	10/7/03
- Organization structure for self-perform for Valve House 7	Hooper	10/7/03
- Revise estimate for Valve House 7 for self-perform	Whitaker	10/7/03
- Funding for Cell 8 site preparation	Powell	10/7/03
- Decision on Waste Shipping move from Bldg 82 area	Hooper	10/7/03

FERNALD CLOSURE PROJECT
FERNALD, OHIO

FLUOR FERNALD CONTRACT
DE-AC24-01OH20115

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0077

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 65

MEETING DATE: October 21, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: October 27, 2003
SDFP File Station
ECDC 20104.1.6

DISTRIBUTION: + Attendees * Author of Notes

Fluor Fernald

+Rich Abitz, MS64
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Linda Barlow, MS41
Tom Beasley, MS60
Pete Bolig, MS60
Charles Carney, MS60
+Tom Carr, MS60
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+*Frank Flack, MS60
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+Mike Frank, MS90
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+Christa Walls, MS52-5
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+Eric Woods, MS65-2
+Bill Zebick, MS60

DOE
+Allen Harris, MS45
Don Pfister, MS45

Ohio EPA
Tom Ontko

GeoSyntec
+Kwasi Badu-Tweneboah, MS38
Collin P. Sukow, MS38

Safety Topic – Labeling of containers – good practice to follow at home as well as work

Value Creation Topic – Communication - Procurement invited to participate in weekly construction meetings

Balance Topic – Leaves are turning – enjoy fall colors

I. PREVIOUS MEETING REVIEW
Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Ambulance run yesterday
- Excavator safety training classes held last week
- Operating Engineer B.A. to address workgroups – next week's 30-minute safety meetings
- Traveler revisions in process – Module 1 & Module 2
- Weekly safety walk

IH

- Nothing reported

RAD

- Air sample data below action levels
- Areas up-posted to "contamination area" to support utility isolation trenching

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

- Nothing Reported

IV. SDFP PROGRESS DETAIL REPORT

- Construction of laydown area south of Cell#8 is in process
- Should complete Cell #2 cap seeding & erosion mat installation by end of October
- Cell #6 liner - trench backfill complete
- Resumed direct haul of D&D debris to OSDF 10/21/03 - Wise Services work scope
- Concrete impactor demolition complete & impactor/tractor has been deconned & demobilized
- Should start deconning Vermeer trencher (4B utility isolation trench) on 10/24/03
- 47,950 tons of concrete crushed as of last week (w/e 10/18/03)
- Northern Pines planting to start following completion of Cell #2 cap seeding/erosion mat installation, using that crew
- Wetland Mitigation Phase II grading still on hold pending "design comments" and resolution of certification issue
- New Craft work hours effective 10/27/03 to be 7:00am to 5:30 pm
- Construction of Cell #7 Horizontal Well should start in couple of weeks – Horizontal Well #8 not designed yet
- Anticipate starting Valve House #7 construction in early spring of next year

V. PROJECT SUPPORT REPORTS

- Engineering
  - Cetco (GCL manufacturer) presentation @ 2:30 10/21/03 – off-site
  - Stormwater design in 3B
  - Winter work plan finalization (cost estimate)
  - Material procurement for Cell #3 & Cell #7
- Quality
  - Management assessment (Quality)
- Project Controls
  - Laminated cards with FY02 charge numbers distributed to meeting attendees
  - Charge number BFDDX is to be used for all activities related to deconning D&D equipment
- Procurement

- Purchase of four (4) Intercontinental Services pieces of heavy equipment to be finalized soon
- Construction Management
  - Safety Poster
  - Winter work plan
  - Integrated schedule (due to D. Powel) Friday morning
  - Services being transitioned as project winds down
  - East parking lot to service as staging area for materials
  - Transportation moving to Silos area after first of year (Jan/Feb)

VI. ACTION ITEMS

Action Items	Lead	Date Initiated
- Acceleration of liner for Cell 8 (funding) (10/7/03 - answer: funding should be available mid-November)	Powell	9/9/03
- Status Waste Pit / Cap 4 material availability	Chiou	9/9/03
- Source(s) of add'l Cat 1 material for Cell 6 protective layer	Const/Eng	9/9/03
- Plan for winter work	Const. Mgmt	9/9/03
- Baseline Review – Support groups review '04 schedule and be ready for meeting 2nd week of October	Support Groups	9/23/03
- Area 3A/4A Stormwater Diversion ditch	Const/Eng	10/7/03
- Funding release for Valve House 7	Whitaker	10/7/03
- Organization structure for self-perform for Valve House 7	Hooper	10/7/03
- Revise estimate for Valve House 7 for self-perform	Whitaker	10/7/03
- Funding for Cell 8 site preparation	Powell	10/7/03
- Decision on Waste Shipping move from Bldg 82 area	Hooper	10/7/03

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0078

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 66

MEETING DATE: October 28, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: November 10, 2003
SDFP File Station
ECDC 20104.1.6

DISTRIBUTION: + Attendees * Author of Notes

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+Tom Beasley, MS60
Pete Bolig, MS60
+Charles Carney, MS60
+Tom Carr, MS60
+J.D. Chiou, MS64
+Melissa Church, MS60
+Dave Clutter, MS60
+Randy Ector, MS 44-0-S
Mary Eleton, MS60
Jeff Ellis, MS60
+Corey Fabricante, MS60
+*Frank Flack, MS60
Krista Flaugh, MS64
+Mike Frank, MS90
Willie Frazier, MS52-5
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+Eric Woods, MS65-2
+Bill Zebick, MS60

DOE
+Allen Harris, MS45
+Don Pfister, MS45

Ohio EPA
Tom Ontko

GeoSyntec
+Kwasi Badu-Tweneboah, MS38
Collin P. Sukow, MS38

Safety Topic – Cold, wet, windy days ahead – dress accordingly

Value Creation Topic – Plan your work then work your plan

Balance Topic – Halloween Safety

I. PREVIOUS MEETING REVIEW
Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Lessons Learned - truck wheel incident
  - obtaining/using 'used trailers'
- Operating Engineer BA addressed safety workgroups this week on working safely
- Pete Bolig supporting D&D Project on part-time basis

IH

- Nothing reported

RAD

- Dose assessment has been completed for OU1 stockpile area – pre-job briefing to be completed prior to excavation
- Up-posting ramp into Cell #5
- Issuing RDR's for not properly signing out on Rad Work Permits – supervisors need to take appropriate disciplinary action

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

- Nothing Reported

IV. SDFP PROGRESS DETAIL REPORT

- 3-Phase electrical task order for relocating air monitor power to Cells 6/7 is awaiting approval by D. Nixon
- Cell #2 cap erosion matting has been placed – still installing staples to secure matting
- Cell #6 liner trenches have been backfilled
- Cell #5 ramp from fueling area is scheduled for completion 10/28/03
- Approximately 10,000 icy of "select" material required to complete Cell #3 to capping elevation
- Approximately 6,200 tons of concrete remains on Concrete Crushing contract to complete contract quantity
- Looking at burying above-ground water line within confines of utility isolation trenches to prevent freezing of water line this winter
- AWWT steam heat replacement status as follows: electrical/instrumentation complete; HVAC/mechanical 92% complete; and testing/start-up in process

V. PROJECT SUPPORT REPORTS

- Engineering
  - Draft Cell7/cell8 design (preliminary info) review 10/29/03 with follow-up the following Wednesday
  - Draft leak location testing report received
  - Incorporating EPA comments for Wetland drawings
  - Winter work plan to DOE tomorrow
- Surveying
  - New cards for GPS dozers to be issued for Cell #7
- Construction Management
  - William J. Taylor taking over Closure Project for DOE- replacing glen Griffiths
  - D&D Project will report to Dan Powell

VI. ACTION ITEMS

Action Items	Lead	Date Initiated
- Acceleration of liner for Cell 8 (funding) (10/7/03 - answer: funding should be available mid-November)	Powell	9/9/03
- Status Waste Pit / Cap 4 material availability	Chiou	9/9/03
- Source(s) of add'l Cat 1 material for Cell 6 protective layer	Const/Eng	9/9/03
- Plan for winter work	Const. Mgmt	9/9/03
- Baseline Review – Support groups review '04 schedule and be ready for meeting 2nd week of October	Support Groups	9/23/03
- Area 3A/4A Stormwater Diversion ditch	Const/Eng	10/7/03
- Funding release for Valve House 7	Whitaker	10/7/03
- Organization structure for self-perform for Valve House 7	Hooper	10/7/03
- Revise estimate for Valve House 7 for self-perform	Whitaker	10/7/03
- Funding for Cell 8 site preparation	Powell	10/7/03
- Decision on Waste Shipping move from Bldg 82 area	Hooper	10/7/03

CONFERENCE/MEETING NOTES
NOTES LETTER LOG NO.:MN:SDFP:2003:0079

SUBJECT: SDFP WEEKLY CONSTRUCTION COORDINATION MEETING
Meeting No. 67

MEETING DATE: November 4, 2003

LOCATION: Fluor Fernald Office

ISSUE DATE: November 10, 2003
SDFP File Station
ECDC 20104.1.6

DISTRIBUTION: + Attendees * Author of Notes

Fluor Fernald

+Rich Abitz, MS64
Muriel Allen, MS60
+Linda Barlow, MS41
Tom Beasley, MS60
Pete Bolig, MS60
+Charles Carney, MS60
+Tom Carr, MS60
+J.D. Chiou, MS64
Melissa Church, MS60
+Dave Clutter, MS60
+Randy Ector, MS 44-0-S
Jeff Ellis, MS60
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Grant Hale, MS60
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Alan Hohnhorst, MS60
John Homer, MS65-2
+Warren Hooper, MS64
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+Gregg Johnson, MS60
+Uday Kumthekar, MS64
Greg Lupton, MS64
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+Fred Wilson, MS60
+Eric Woods, MS65-2
+Bill Zebick, MS60

DOE
+Allen Harris, MS45
Don Pfister, MS45

Ohio EPA
Tom Ontko

GeoSyntec
Kwasi Badu-Tweneboah, MS38
+Collin P. Sukow, MS38

Safety Topic – Changing conditions (weather, daylight, etc.) - plan work accordingly

Value Creation Topic – Communication

Balance Topic – Election Day today

I. **PREVIOUS MEETING REVIEW**
Nothing reported.

II. HEALTH & SAFETY, INDUSTRIAL HYGIENE, RADIOLOGICAL SAFETY

H&S

- Changes in ORPS reporting system – personnel will be briefed to requirements
- Operator equipment safety training classes to be held 11/5/03 in T183 CR
- No injuries since 10/7/03
- Winter work plan – reviewing traveler(s) for necessary changes

IH

- Nothing reported

RAD

- Air sample results below action levels
- 2 cranes and 1 excavator deconned for D&D Project to-date

III. CONSTRUCTION PROGRESS (QUANTITY) UPDATE

- Nothing Reported

IV. SDFP PROGRESS DETAIL REPORT

- Still installing staples in Cell #2 cap erosion matting
- Cell #6 liner non impacted granular fill is complete as well as east and west wedges and sacrificial geomembrane
- Cell #6 liner clean ramp is 50% complete
- Cell #7 clear/grub/remove topsoil is 50% complete and site preparation is approximately 20% complete
- Direct haul of D&D debris to OSDF is starting up slowly
- Bldg 68 east berm excavation is scheduled for Thursday or Friday this week
- Excavation of K65 utility trench (Phase II) is scheduled for next week as well as Bldg 68 south berm excavation
- Area 4B utility isolation trenching has been completed
- Approximately 540 tons remaining to be crushed to fulfill existing concrete crushing contract
- Relocation of Burrito soil to Quonset hut is going slowly due to wet conditions
- Wetland Mitigation Phase II grading – stripping completed 10/20/03
- AWWT stream replacement – testing/start-up is approximately 66% complete

V. PROJECT SUPPORT REPORTS

- Engineering
  - Cell 7/8 design comment meeting is scheduled
  - Finalizing EPA comments – Wetland Mitigation design
  - Schedule with Rob Knight to discuss valve house work
  - Need to protect rolls of GCL for use next year
- Quality
  - NCR to be issued on missed survey points
- Restoration
  - Could use "clean" vehicle for Nov/Dec for Restoration crew
- Project Controls
  - Estimate for Valve House work to be started soon
- Construction Management
  - Charley Carney – portfolio assignment to assist in integration with D&D

CORRESPONDENCE

FLUOR FERNALD

Fluor Fernald, Inc.
P.O. Box 538704
Cincinnati, OH 45253-8704

(513)648-3000

5367

FLUOR

December 2, 2002

Fernald Environmental Management Project
Letter No. C:CONT(CA):2002-0482

GSE Lining Technology, Inc.
Attn: Mr. Scott Biondi
19103 Gundle Road
Houston, TX 77073

Dear Mr. Biondi:

REQUEST FOR PROPOSALS F02PB9268, F02PB9269, AND F02PB9270 OSDF MATERIAL CONTRACTS

In review of your letters dated November 27, 2002, requesting changes to the specifications for the above Request for Proposals; Fluor Fernald Engineering has determined that these changes cannot be made to the specifications.

Please be advised that all specifications remain as per the above Request for Proposals and your proposals should be based on these specifications.

If you have any questions I can be reached at 513-648-5168.

Sincerely,

Alan J. Hohnhorst
Contract Administrator

c: Deborah Campbell, MS44-0-S
Randy Ector, MS44-0-S
Mike Godber, MS64
Kwasi Badu-Tweneboah, MS38
Chuck Van Arsdale, MS64
Contract File

Department of Energy
Ohio Field Office
Fernald Environmental Management Project
P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155

5367

DEC 05 2002

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0115-03

RECEIVED
DEC

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

TRANSMITTAL OF THE ON-SITE DISPOSAL FACILITY PHASE V SUPPORT PLANS, CONSTRUCTION DRAWINGS AND DESIGN CRITERIA PACKAGE

Enclosed for your information are the following On-Site Disposal Facility (OSDF) Phase V construction documents:

OSDF Phase V Construction Drawings, Revision 0
OSDF Revised Final Design Criteria Package, Revision 1E
OSDF Phase V Revised Final Calculation Package, Revision 0, Volume VII of VII
OSDF Construction Quality Assurance Plan, Revision 2B
OSDF Surface Water Management and Erosion Control Plan, Revision 2B

Please note the following:

The current Phase IV, Revision 1 Technical Specifications will be used for the Phase V Scope of Work. No changes were made to the Borrow Area Management and Restoration Plan, Revision 1.

If you have any questions or need further information, please contact Robert Janke at (513) 648-3124.

Sincerely,

Johnny Reising

FEMP:R.J. Janke

Johnny W. Reising
Fernald Remedial Action
Project Manager

Enclosures: As Stated

cc w/enclosures:
A. Murphy, OH/FEMP
D. Pfister, OH/FEMP
T. Schneider, OEPA-Dayton (three copies of enclosures)
M. Cullerton, Tetra Tech
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosures:
R. Greenberg, EM-31/CLOV
N. Hallein, EM-31/CLOV
R. Janke, OH/FEMP
J. Reising, OH/FEMP
A. Tanner, OH/FEMP
G. Jablonowski, USEPA-V, SRF-5J
F. Bell, ATSDR
M. Shupe, HSI GeoTrans
R. Vandegrift, ODH
K. Badu-Tweneboah, GeoSyntec, MS38
D. Carr, Fluor Fernald, Inc./MS2
J. Chiou, Fluor Fernald, Inc./MS64
T. Hagen, Fluor Fernald, Inc./MS9
U. Kumthekar, Fluor Fernald, Inc./MS64
S. Lorenz, Fluor Fernald, Inc./MS52-5
T. Poff, Fluor Fernald, Inc./MS65-2
A. Snider, Fluor Fernald, Inc./MS64
C. Van Arsdale, Fluor Fernald, Inc./MS64
W. Zebick, Fluor Fernald, Inc./MS64
ECDC, Fluor Fernald, Inc./MS52-7

FLUOR

Memorandum

5367

To:	Mike Godber, MS64	Date:	April 9, 2003
Location:	Fernald	Reference:	N/A
From:	Mike Stumbo, MS60	Fernald #:	M:SDFP:2003-005
Location:	Fernald	Client:	DOE DE-AC24-01OH20115
Extension:	648-4151	Subject:	**CONTOURING LAYER MATERIAL ACCEPTANCE FOR CELL CAP 2**

c: K. Badu-Tweneboah, GeoSyntec, MS38
C. Sukow, GeoSyntec, MS38
C. VanArsdale, MS64
B. Zebick, MS60
SDFP File Station
20104.1.5

Pursuant to specification 02240, Part 2.01, Paragraph C; and review of GeySyntec memorandum "Summary Results of Conformance Testing of Proposed Contouring Layer Stockpiles" dated April 4, 2004, OSDF Construction Manager approves the use of Sediment Basin 2 excavated material stockpile and material from stockpile 02-06 for use as contouring layer material.

If you have any further questions, please feel free to contact me.

GMS:dmw
Attachments

For Mike Stumbo

FLUOR

5367

Memorandum

To:	Mike Godber, MS64	Date:	April 15, 2003
Location:	Fernald	Reference:	N/A
From:	Mike Stumbo, MS60	Fernald #:	M:SDFP:2003-0007
Location:	Fernald	Client:	DOE DE-AC24-01OH20115
Extension:	648-4151	Subject:	**APPROVED STOCKPILES FOR USE FOR CLAY LINER AND CAP MATERIAL**

c: K. Badu-Tweneboah, GeoSyntec, MS38
C. Sukow, GeoSyntec, MS38
C. VanArsdale, MS64
W. Zebick, MS60
SDFP File Station
Project Number 20104.1.5

Pursuant to Part 3.04.A3 of Specification 02225; screened material stockpiles 02-01, 02-02, 02-04, 02-05, and 02-07 through 02-17 are approved for use as clay liner and cap material.

If you have any further question, please contact me at ext. 4151 or 484-2219 cell.

GMS:dmw

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

5367

FERNALD
LOG D-0990

cc: Dave Phillips

2003 MAY 15 P 1:46

REPLY TO THE ATTENTION OF: 6446.3f

MAY 14 2003

Mr. Johnny Reising
United States Department of Energy
Feed Materials Production Center
P.O. Box 398705
Cincinnati, Ohio 45239-8705

SRF-5J

RE: Revised Final Design Criteria
Package OSDF Phase V RTC

Dear Mr. Reising:

The United States Environmental Protection Agency (U.S. EPA) has completed its review of the United States Department of Energy's (U.S. DOE) Response to Comments (RTC) on the revised final design criteria package for the On-Site Disposal Facility (OSDF) Phase V.

The RTC have adequately addressed U.S. EPA's previous comments with one exception. Original Specific Comment 41 recommends that consideration be given regarding the settlement of the Enhanced Permanent Leachate Transmission System (EPLTS) gravity line with a 0.25 slope. Previous OSDF landfill cells have had problems with construction of the EPLTS, causing leachate to back up into the landfill. Although the previous EPLTS has been constructed in accordance with a U.S. EPA approved design, the text should discuss how U.S. DOE will assure proper construction of the Phase V EPLTS and prevent excessive settlement.

Therefore, U.S. EPA approves the RTC on the revised final design criteria package for the On-Site Disposal Facility (OSDF) Phase V. U.S. DOE must submit a revised design document incorporating the revised responses to U.S. EPA within (30) thirty days receipt of this letter.

Please contact me at (312) 886-0992 if you have any questions regarding this matter.

Sincerely,

James A. Saric
Remedial Project Manager
Federal Facilities Section
SFD Remedial Response Branch #2

cc: Tom Schneider, OEPA-SWDO
Sally Robison, U.S. DOE-HQ
Jamie Jameson, Fluor Fernald
Terry Hagen, Fluor Fernald
Tim Poff, Fluor Fernald

Fluor Fernald, Inc.
P.O. Box 538704
Cincinnati, OH 45253-8704

(513) 648-3000

Kumi
cc: Dave Phillips

5367

FLUOR

June 30, 2003

Fernald Closure Project
Letter No. C:SDFP:2003-0059

Mr. Johnny W. Reising, Associate Director
Department of Energy
Fernald Closure Project
P. O. Box 538705
Cincinnati, Ohio 45253-8705

RECEIVED
7/24-3

Dear Mr. Reising:

CONTRACT DE-AC24-01OH20115, TRANSMITTAL OF RESPONSE TO ADDITIONAL U.S. ENVIRONMENTAL PROTECTION AGENCY COMMENT RESPONSE ON THE ON-SITE DISPOSAL FACILITY PHASE V SUPPORT PLANS, CONSTRUCTION DRAWINGS AND DESIGN CRITERIA PACKAGE

References: 1) Letter DOE-0323-03, J. Reising to J. Saric/T. Schneider, "Transmittal of Responses to Comments on the On-Site Disposal Facility Phase V Support Plans, Construction Documents and Design Criteria Package" dated April 10, 2003

2) Letter, J. Saric to J. Reising, "Revised Final Design Criteria Package OSDF Phase V RTC," dated May 14, 2003

Enclosed for your approval is the response to the U.S. Environmental Protection Agency (EPA) comment response on the On-Site Disposal Facility (OSDF) Phase V Support Plans, Construction Drawings and Design Criteria Package. Upon approval of this comment response, the Revised Final OSDF Phase V Package will be transmitted.

Upon your concurrence, please forward this document to the EPA and Ohio Environmental Protection Agency. If you have any questions or require additional information, please contact me at (513) 648-3726 or Uday Kumthekar at (513) 648-4640.

Sincerely,

Jyh-Dong Chiou, Project Manager
Soil and Disposal Facility Project

JDC:UAK:jkp
Enclosure

000389

c: With Enclosure

Thomas M. Beasley, MS60
Robert J. Janke, DOE-FCP, MS45
Uday A. Kumthekar, MS64
Chris Neumann, MS64
Donald A. Pfister, DOE-FCP, MS45
Randy R. Reynolds, MS64
Anthony C. Snider, MS64
G. Mike Stumbo, MS60
Charles C. Van Arsdale, MS64
AR Coordinator, MS78
T-82 File Station, MS64
SDFP Library, MS64
Project Number 20100.2.22 (20100-CA-0001, 20100-DC-0001, 20100-PL-0004, 20100-PL-0006), ECDC, MS52-7

Without Enclosure

Richard J. Abitz, MS64
Linda L. Barlow, MS41
Robert J. Bell, DOE Contracting Officer, MS45
Dennis J. Carr, MS1
Frank L. Flack, MS60
Reinhard Friske, MS52-3
Michael W. Godber, MS84
Glenn Griffiths, DOE-FCP, MS45
Terry D. Hagen, MS1
Kevin S. Harbin, MS60
Gregg K. Johnson, MS60
Susan K. Lorenz, MS41
Frank L. Miller, MS64
Loretta E. Parsons, DOE Contracting Officer, MS45
Timothy E. Poff, MS65-2
M. Daniel Powell, MS64
Richard G. Stengel, MS60
Rodney E. Whitaker, MS60
William A. Zebick, MS60
SDFP Letterlog, MS64

RESPONSE TO U.S. ENVIRONMENTAL PROTECTION AGENCY TECHNICAL REVIEW COMMENT RESPONSE ON THE REVISED FINAL ON-SITE DISPOSAL FACILITY PHASE V SUPPORT PLANS, CONSTRUCTION DRAWINGS, AND DESIGN CRITERIA PACKAGE (20100-CA-0001, 20100-DC-0001, 20100-PL-0004, 20105)

FERNALD CLOSURE PROJECT

SPECIFIC COMMENT

Commenting Organization: U.S. EPA | Commentor: Saric
Section #: 2.5.3.A | Page #: 2-47 | Line #: NA
Original Specific Comment #: 41

Original Comment: The third bullet item states that the EPLTS gravity line should be constructed with a minimum slope of 0.25 percent. Consideration should be given to settlement of the line that would affect a 0.25 percent slope. The text should be reviewed and revised accordingly.

Revised Comment: Specific Comment No. 41 comments on technical feasibility issues inherent in the EPLTS design. If these technical issues have been previously addressed, the appropriate reference should be given or the text should be revised to state why these changes are not technically necessary.

Response: The EPLTS valve houses have been constructed in accordance with the U.S. EPA approved design.

Action: No action required.

May 14, 2003 Response to Comment Response

Original Comment: Original Specific Comment No. 41 recommends that consideration be given regarding the settlement of the Enhanced Permanent Leachate Transmission System (EPLTS) gravity line with a 0.25 [percent] slope. Previous OSDF landfill cells have had problems with construction of the EPLTS, causing leachate to back up into the landfill. Although the previous EPLTS has been constructed in accordance with a U.S. EPA approved design, the text should discuss how U.S. DOE will assure proper construction of the Phase V EPLTS and prevent excessive settlement.

Response: Original Comment 41 questioned the ability to construct the EPLTS line such that settlement would not affect the required minimum slope of 0.25 percent. As constructed, the minimum slope of the EPLTS gravity line is 0.40 percent, with most sections at 0.79 percent. The minimum as-built slope of 0.40 percent is less flow restrictive than the required minimum slope of 0.25 percent. Settlement of the underlying soils necessary to impact the line such that the slope would be reduced to less than 0.25 percent is not considered to be realistic. The minimum slope of 0.40 percent will not be affected by the future construction of OSDF EPLTS Valve Houses 7 and 8 as they are to be installed along the existing EPLTS line between Valve House 6 and the Control Valve House.

Follow up commentary implies that back up of waters into the OSDF cells is related to line settlement. This is not the case. Review of the design calculations for the EPLTS Pipe Hydrograph (Geosyntec Consultants, January 10, 2000) anticipates temporary storage of waters in the cells and the EPLTS line. This temporary storage will occur, in varying volumes, any time the flow rate from the OSDF exceeds the discharge flow rate of the Permanent Lift Station (PLS). The discharge capacity of the PLS is approximately 200 gpm. When inflow exceeds outflow, the level in the PLS rises and a motor operated valve closes in the Control Valve House. This level control valve ensures that overflow of the PLS does not occur and that leachate is safely contained within the EPLTS or the OSDF. The EPLTS Pipe Hydrograph design calculations anticipate that the 25-year, 24-hour storm event will take up to a maximum of 11.8 days to drain impacted runoff from the OSDF for the worst case condition anticipated for the OSDF closure. It should be noted that the volume of impacted runoff will fluctuate as the number of cells with active catchment areas, completed caps, or in initial construction configuration changes. Intuitively, as the number of open catchments decreases, the back up of waters will decrease, until such time as all cells are capped.

These design details have all been previously reviewed and approved by the EPAs.

Action: No action required.

5367

FLUOR

Memorandum

To:	Tom Beasley, MS60	Date:	September 4, 2003
Location:	Fernald	Reference:	N/A
From:	Mike Stumbo, MS60 M. S.	Fernald #:	M:SDFP:2003-0025
Location:	Fernald	Client:	DOE DE-AC24-01OH20115
Extension:	648-4151	Subject:	**BIOINTRUSSION BARRIER MATERIALS APPROVAL**

c: K. Badu-Tweneboah, GeoSyntec, MS38
R. Friske, MS64
D. Goetz, MS60, w/attachments
C. Sukow, GeoSyntec, MS38
C. VanArsdale, MS64
SDFP File Station, w/attachments
Project Number 20104.1.5, w/attachments

RECEIVED
SEP 11 2003

Pursuant to Part 3.01.A3 of specification 02280 and referencing GeoSyntec Memorandum from 8/26/03. Stockpiled biointrussion materials are approved for us as Cell 2 cap cover materials.

If you have any further question, please contact me at ext. 4151 or 484-2219 cell.

GMS:dmw

State of Ohio Environmental Protection Agency

Southwest District Office

5367

I East Fifth Street
ayton, Ohio 45402-2911

TELE: (937) 285-6357 FAX: (937) 285-6404

Bob Taft, Governor
Jennette Bradley, Lt. Governor
Christopher Jones, Director

October 21, 2003

Mr. Glenn Griffiths
U.S. Department of Energy, Fernald Area Office
P.O. Box 538705
Cincinnati, OH 45253-8705

RE: APPROVAL OF RTCs ON OSDF PHASE V PLANS

Dear Mr.Griffiths:

This letter provides Ohio Environmental Protection Agency approval of the responses to our comments on the OSDF Phase V package. The package consists of support plans, construction drawings and a revised design criteria package. The responses to our comments were transmitted in a letter DOE-0323-03 from J. Reising to T Schneider.

Should you have any questions, please contact Tom Ontko or me.

Sincerely,

Thomas A. Schneider
Fernald Project Manager
Office of Federal Facilities Oversight

cc: Jim Saric, U.S. EPA
Terry Hagen, Fluor Fernald
Mark Shupe, GeoTrans, Inc.
Michelle Cullerton, Tetra Tech EM Inc.
Ruth Vandergrift, ODH

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FLUOR

5367

Memorandum

To:	Tom Beasley, MS60	Date:	October 21, 2003
Location:	Fernald	Reference:	N/A
From:	Mike Stumbo, MS60	Fernald #:	M:2003-0034
Location:	Fernald	Client:	DOE DE-AC24-01OH20115
Extension:	648-4151	Subject:	**VEGETATIVE LAYER MATERIALS APPROVAL**

c:

R. Friske, MS64
D. Goetz, MS60
W. Hooper, MS64
C. Sukow, GeoSyntec, MS38
K. Badu-Tweneboah, GeoSyntec, MS38
C, VanArsdale, MS64
SDFP File Station
Project Number 20104.1.5

RECEIVED
OCT 21 2003

Pursuant to Part 3.02C of specification 02250 and referencing GeoSyntec Memeorandum form 8/26/03. Stockpiled vegetative materials are approved for us as Cell 2 cap cover materials.

If you have any further questions, please contact me at ext. 4151 or 484-2219 cell.

M. S.

GMS:rjm

000395

FLUOR

5367

Memorandum

To:	Tom Beasley, MS60	Date:	November,6 2003
Location:	Fernald	Reference:	N/A
From:	Mike Stumbo,MS60 M. S.	Fernald #:	M: 2003-0036
Location:	Fernald	Client:	DOE DE-AC24-01OH20115
Extension:	648-4151	Subject:	**NON-IMPACTED PROTECTIVE LAYER MATERIALS APPROVAL**

c: R. Friske, MS64
D. Goetz, MS60
W. Hooper, MS64
C. Sukow, GeoSyntec,MS38
K. Badu-Tweneboah, MS38
C. VanArsdale, MS64
SDFP File Station
Project Number 20105

RECEIVED
NOV 10 2003

Pursuant to Part 3.20,A3 of specification 02240 the materials for non-impacted protective layer are approved for use in Cell 7.

If you have any further questions, please call me at ext.4151 or 484-2219 cell.

Department of Energy
Ohio Field Office
Fernald Environmental Management Project
P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155

5367

NOV 04 2003

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V, SR-6J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0022-04

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

LEAK LOCATION TESTING RESULTS FOR ON-SITE DISPOSAL FACILITY CELL 6 PRIMARY GEOMEMBRANE LINER AND REQUEST TO START IMPACTED MATERIAL PLACEMENT

Reference: Memorandum, K. Badu-Tweneboah and D. Phillips to U. Kumthekar and C. Van Arsdale, "Preliminary Evaluation of Potential Problem with Extrudate Welding Rods," dated September 23, 2003

The purpose of this letter is to inform you that the construction and subsequent leak location survey of the On-Site Disposal Facility (OSDF) Cell 6 has been successfully completed. Two leak tests have been conducted on the Cell 6 primary HDPE liner. The additional leak test was requested by the United States Environmental Protection Agency (USEPA) and Ohio Environmental Protection Agency (OEPA) due to a suspected quality problem associated with a batch of welding rods used in portions of the primary HDPE liner and the subsequent decision to only selectively fix these extrusion-welded locations (reference). This letter also summarizes the final leak location survey conducted after placement of the drainage layer and repair of three identified leak locations. With the completion of this test, Cell 6 is ready for impacted material placement pending regulatory approvals of the attached two test reports.

During installation of the Cell 6 primary geomembrane liner, our Construction Quality Control Consultant, GeoSyntec Consultants Inc., noticed that an unusually large number of extrusion-welded destructive seams were failing in both field tests and laboratory tests. The specimens were typically failing in the peel mode; the average peel strengths were adequate but the ASTM D 6392 break code indicated failure in adhesion or through the fillet weld.

Initially, it was suspected that the problem was either due to the welder or the welding equipment (i.e., extrusion welding gun). But similar results were obtained with different welders and different extrusion welding guns. Examination of trial welds after grinding part of the extrudate revealed the presence of small voids that indicated that continuous bonding of the parent material with the extrudate was not being achieved. However, there were no holes in the seams that would allow leakage through the liner. Typically, these small voids or holes are due to the presence of moisture and/or dirt on the welding rod or geomembrane being welded. But after careful inspection of the welding rods and trial seams, it was suspected that the potential problem was with the welding rod. This was confirmed when air pockets or tiny holes were observed trapped in the plastic after slicing into the welding rod. It appears that as the rod was being fabricated (i.e., extruded through the machine), air voids were caused by the vaporization of free water within the plastic. It is possible that the quick cooling of the rod caused the air voids to be trapped and thereby, producing a second-quality rod. The presence of additional free water or the resulting voids then prevented bonding of the extrudate to the parent material during welding which could have resulted in the seam failing in adhesion or through the fillet weld.

On September 11, 2003, Fluor Fernald, Inc. requested an additional 45 reels of new welding rods with backup certification to replace the other rods on site. We received reels of the new welding rods on Friday, September 12, 2003 and Monday, September 15, 2003. Fluor Fernald received the backup certification on September 17, 2003. Examination of the new rods and trial welds did not reveal the presence of the tiny holes in the rods or worm holes in the weld. Also, destructive samples completed with the welding rods passed in the field and laboratory with no signs of failure in adhesion or through the fillet.

Since the welding rod problems were discovered only on the primary geomembrane, GeoSyntec Consultants recommended to Fluor Fernald, via a September 23, 2003 memorandum (referenced), to repair suspect extrusion seams except for small seams that seams included patches at destructive test locations, T-seams and patches for small holes, tears, etc., which were small in dimension and were located on the bottom (two percent slopes) or on the 4H:1V side slopes of the cell. This recommendation was based on the fact that repairing these seams was not necessary, and would even be detrimental. Repairs were made to the relatively long (seven feet or greater) capped seams, and seams at locations with potential stress concentrations, such as the tie-in to the liner penetration boxes, grade breaks, steep slopes, and toe of slopes.

On September 26, 2003, a conference call was held among representatives of Fluor Fernald, USEPA, and OEPA to discuss the next step based on the data and recommendations presented. The USEPA and OEPA jointly requested an additional leak location test to be performed on the primary geomembrane liner after placement of the overlying geotextile cushion and granular drainage layers.

This leak location survey was performed on October 15-17, 2003 by the same company that performed the previous survey on the bare geomembrane, as required by the project specifications. Three leaks were found on the primary geomembrane liner. The first leak was an approximately 1 1/2-inch long cut. The second leak was approximately ¼-inch cut on a scuff mark. Both leaks were located near the tie-in with Cell 5. The third leak was a hole less than 1/16-inch diameter that was located near the middle of the cell floor. The hole and cuts locations were uncovered with the help of laborers; repaired and nondestructively tested (using the vacuum-box method) by the geosynthetic installer; and retested with the leak location survey equipment after placement of the geotextile cushion and granular drainage layers. Details on the leak location procedures, leaks, and retesting after the repairs are presented in the enclosed survey report.

Based on the construction quality assurance performed on the geomembrane liner, including the leak location testing on the bare geomembrane (Attachment 1) and after placement of the drainage layer (Attachment 2), the cell is ready to be completed and certified.

As requested by the USEPA and OEPA, the enclosed leak test reports need to be submitted for review and approval prior to initiation of impacted material placement in Cell 6.

If you have any questions or need further information, please contact Johnny Reising at (513) 648-3139.

Sincerely,

Glenn Griffiths
Acting Director

FCP:Reising

Enclosures: As Stated

cc w/enclosures:
J. Reising, OH/FCP
D. Pfister, OH/FCP
T. Schneider, OEPA-Dayton (three copies of enclosures)
G. Jablonowski, USEPA-V, SR-6J
M. Cullerton, Tetra Tech
F. Bell, ATSDR
M. Shupe, HSI GeoTrans
R. Vandegrift, ODH
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosures:
R. Greenberg, EM-31/CLOV
N. Hallein, EM-31/CLOV
K. Johnson, OH/FCP
R. Abitz, Fluor Fernald, Inc./MS64
K. Badu-Tweneboah, GeoSyntec, MS38
T. Beasley, Fluor Fernald, Inc./MS60
J. Chiou, Fluor Fernald, Inc./MS64
T. Hagen, Fluor Fernald, Inc./MS1
K. Harbin, Fluor Fernald, Inc./MS60
W. Hooper, Fluor Fernald, Inc./MS64
U. Kumthekar, Fluor Fernald, Inc./MS64
D. Powell, Fluor Fernald, Inc./MS64
T. Poff, Fluor Fernald, Inc./MS65-2
M. Stumbo, Fluor Fernald, Inc./MS60
C. Van Arsdale, Fluor Fernald, Inc./MS64
W. Zebick, Fluor Fernald, Inc./MS60
ECDC, Fluor Fernald, Inc./MS52-7

State of Ohio Environmental Protection Agency

Southwest District Office

401 East Fifth Street
Dayton, Ohio 45402-2911

TELE: (937) 285-6357 FAX

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Post-it® Fax Note 7671	Date	# of pages ▶
To Griffiths	From OHIO EPA	
Co./Dept.	Co.	
Phone #	Phone #	
Fax # 7131	Fax #	

November 11, 2003

Mr. Glenn Griffiths
U.S. Department of Energy, Fernald Area Office
P.O. Box 538705
Cincinnati, OH 45253-8705

RE: APPROVAL TO PLACE IMPACTED MATERIAL IN OSDF CELL 6

Dear Mr.Griffiths:

This letter provides Ohio Environmental Protection Agency approval to place impacted material in Cell 6 of the On-Site Disposal Facility as requested in your letter DOE-0022-04. We concur that the primary geomembrane liner is free from measurable defects as reported by Leak Locator Services, Inc. in a letter dated October 28, 2003 to Fluor Fernald, Inc. We also conclude that the extrusion welds that were made with the questionable welding rods are of sufficient strength and quality to function satisfactorily under the static loads that the primary gml is subjected to during the placement of impacted material.

The extruded seams made with the suspect welding rods were mechanically strong enough to meet the project specifications. However, the failure mode of the destructive tests did not meet the project requirements; the test pieces broke within the bead of the weld and not within the original gml panel. Furthermore, the seams were tested both by the vacuum box method and the water puddle electrical method and the primary liner was found to be free from leaks. We considered short-term risks to the liner (i.e. damage during the placing and spreading of the primary drainage layer) to be of greater concern than long-term risks (damage occurring under the static loading of a partially-filled cell).

Should you have any questions, please contact Michelle Waller or me.

Sincerely,

Michelle Waller for

Thomas A. Schneider
Fernald Project Manager
Office of Federal Facilities Oversight

cc: Jim Saric, U.S. EPA
Terry Hagen, Fluor Fernald
Mark Shupe, GeoTrans, Inc.
Michelle Cullerton, Tetra Tech EM Inc.
Ruth Vandergrift, ODH

O:\ou2\cell6placement.app wpd

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

NOV 14 2003

REPLY TO THE ATTENTION OF

SRF-6J

Mr. Johnny W. Reising
United States Department of Energy
Feed Materials Production Center
P.O. Box 398705
Cincinnati, Ohio 45239-8705

RE: Cell 6 Impacted Material Placement

Dear Mr. Reising:

The United States Environmental Protection Agency (U.S. EPA) has completed its review of the United States Department of Energy's (U.S. DOE) November 4, 2003, letter regarding the leak location testing results for the On-Site Disposal Facility (OSDF) Cell 6 primary geomembrane liner and request to start impacted material placement.

U.S. EPA approves of the test performed and the results provided from the OSDF Cell 6 liner. The test reports and the letter adequately address how the issue with the welding rod problems was resolved and the primary liner was tested.

Therefore, U.S. EPA approves the test reports and U.S. DOE can proceed with impacted material placement in OSDF Cell 6.

Please contact me at (312) 886-0992 if you have any questions regarding this matter.

Sincerely,

James A. Saric
Remedial Project Manager
Federal Facilities Section
SFD Remedial Response Branch #2

cc: Tom Schneider, OEPA-SWDO
Sally Robison, U.S. DOE-HDQ
Jamie Jameson, Fluor Fernald
Terry Hagen, Fluor Fernald
Tim Poff, Fluor Fernald

000402

FLUOR

5367

Memorandum

To:	Distribution	Date:	January 13, 2004
Location:	Various	Reference:	None
From:	Rob Kneip RWK	Fernald #:	M:OS:2004-0003
Location:	MS52-5	Client:	DOE DE-AC24-01OH20115
Extension:	3736	Subject:	**2003 VIDEO INSPECTION OF OSDF LINES**

c: File Record Subject OSDF Lines Video Inspection
Project Number 54000
OSDF Project File, MS64
J. D. Chiou, MS64
Everett Henry, MS52-5
Bill Hertel, MS52-5
Alan Hohnhorst, MS64
Mike Kopp, MS52-5
Uday Kumthekar, MS64
Kwasi Badu Tweneboah, MS38
Karen Voisard, MS12

The annual inspection of the Leak Detection System (LDS), Redundant Leachate Collection System (RLCS), and Leachate Collection System (LCS) pipelines from OSDF Cells 1, 2, 3, 4, 5, and 6 was completed in December 2003. In addition, the horizontal till monitoring well for each of the six OSDF cells was inspected.

Videos of the inspections and the video contractors written reports were reviewed and did not reveal any crushed piping or other significant defects, however, several pipes could not be viewed over their entire length due to accumulated mud and silt that obstructed the camera. The contractors written reports recommend cleaning 13 of the 24 lines, however, accumulations in most of these lines were not severe enough to impede flow or camera inspection. Therefore, only the following lines are recommended for cleaning and, in some cases, subsequent re-inspection. A summary of the lines and the recommended actions follows:

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- Cell #1 LDS; heavy deposits of gravel were noted at several locations along the line between 70' and 90' from the valve house. Recommendation: Clean line of debris/No additional camera work is required. Note: gravel deposits were not obstructing flow, however, future video inspection may be impeded by the accumulated gravel.

- Cell #3 RLCS; heavy deposits of mud and silt, camera view blocked at approximately 185' from the valve house prior to the perforated pipe under the waste cells. Recommendation: Clean line of mud and silt and re-inspect.

- Cell #4 LCS; mud and silt obscured camera prior to reaching perforated pipe. Recommendation: Clean line of mud and silt and re-inspect.

- Cell #5 RLCS; mud and silt obscured camera prior to reaching perforated pipe. Recommendation: Clean line of mud and silt and re-inspect.

- Cell #6 RLCS; a large towel was encountered in the line at approximately 108' from the valve house. This towel was pushed to the end of the line with the camera and remains in the RLCS line. This towel was likely left in the line during fusion welding activities. Recommendation: Towel should be removed to prevent future impact to downstream flow meters and valves.

RWK

GEOSYNTEC

MEMORANDUM

To: Mr. William Zebick and Mr. Don Goetz
Construction Management
Fluor Fernald, Inc.

From: Collin P. Sukow
Site CQC Manager
GeoSyntec Consultants

Date: 4 April 2003

Subject: Summary Results of Conformance Testing
of the Proposed Contouring Layer Stockpiles
On-site Disposal Facility
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) has completed conformance testing of samples from the proposed contouring layer stockpiles in the borrow area. The conformance testing performed confirms that the soil materials complies with section 2240 of the On-Site Disposal Facility (OSDF) Phase IV Technical Specifications, and as such the material can be used as contouring layer construction. Testing and minimum testing frequencies were in accordance with section 2240 of the Technical Specifications and the OSDF Construction Quality Assurance (CQA) Plan.

The results of the conformance testing for both stockpiles are summarized in the attachments to this memorandum. GeoSyntec has reviewed the test results and found them to comply with the contouring layer requirements of Section 2240. ML and SM materials are excluded for use on the final lift of the contouring layer as per Section 2240.2.01.C. Some of the material tested from Sediment Basin 2 was classified as either ML or SM. However, the excavation and stockpile process mixes this material sufficiently with the predominant CL material resulting in an overall CL material stockpile. Therefore, soil material in both stockpiles can be referred to as contouring layer and can be used for contouring layer construction. The complete results of the geotechnical laboratory testing performed on the contouring layer material will be documented in a final CQA report upon completion of Cell 2 cap construction.

Should you have any questions on the information presented above or in the attachment, please do not hesitate to contact the author of this memorandum.

Attachment

Copies to:
Uday Kumthekar, Fluor Fernald, Inc.
C. VanArsdale, Fluor Fernald, Inc.
Mike Godber, Fluor Fernald, Inc.
Kwasi Badu-Tweneboah, GeoSyntec
Dave Phillips GeoSyntec

Pre-Conformance Points Collected From Sediment Basin 2

Test Pit	Northing	Easting	Existing Elevation (feet)	Prop. Excav. Depth (feet)	Actual Excav. Depth (feet)	Sample No.	Sample Depth	Visual Description	Moisture Content (%)	Atterbergs LL/PL/PI	% Passing # 200 Sieve	% Clay Content	Soil Classification	Notes
PCP-66				12	2.5	A	2.5	Brown Silty Clay (CL)	17.6	43/21/22	76.3	—	CL-Lean Clay w/sand	
PCP-66				12	4.0	B	4.0	Brown Silty Clay (CL)	19.9	43/22/21	87.4	—	CL-Lean Clay	
PCP-66				12	6.5	C	6.5	Brown Silty Clay (CL)	20.8	45/22/23	95.2	—	CL-Lean Clay	
PCP-66				12	8.0	D	8.0	Brn-wht Silty Clay (CL)	19.9	31/16/15	72.2	—	CL-Lean Clay w/sand	Brown/white
PCP-66				12	10.0	E	10.0	Brn-wht Silty Clay (CL)	17.6	23/15/8	61.4	21.0	CL-Sandy Lean Clay	Brown/white
PCP-66				12	12.0	F	12.0	Brown Silty Clay (CL)	20.4	30/18/12	67.1	27.0	CL-Sandy Lean Clay	
PCP-67				12	4.5	A	4.5	Brown Silty Clay (CL)	20.7	49/24/25	84.7	—	CL-Lean Clay w/sand	
PCP-67				12	6.7	B	6.7	Brown Silty Clay (CL)	21.2	40/18/22	83.8	—	CL-Lean Clay w/sand	
PCP-67				12	8.3	C	8.3	Brwn Clayey Sand (SC)	23.1	31/11/20	54.6	26.0	CL-Sandy Lean Clay	
PCP-67				12	10.2	D	10.2	Brown Silty Clay (CL)	20.1	29/11/18	55.4	—	CL-Sandy Lean Clay	
PCP-67				12	11.9	E	11.9	Trans Silty Clay (CL)	22.4	31/17/14	59.7	—	CL-Sandy Lean Clay	
PCP-67				12	13.6	F	13.6	Trans Silty Clay (CL)	12.5	29/16/13	63.2	27.0	CL-Sandy Lean Clay	
PCP-68				12	2.0	A	2.0	Brown Silty Clay (CL)	24.0	50/24/26	89.5	—	CH-Fat Clay	
PCP-68				12	4.5	B	4.5	Brwn Clayey Sand (SC)	18.3	non-plastic	41.5	—	SM-Silty sand	
PCP-68				12	6.2	C	6.2	Brwn Clayey Sand (SC)	21.9	22/16/6	61.5	—	CL-ML-Sandy Silty Clay	
PCP-68				12	7.6	D	7.6	Brown Clayey Silt (ML)	22.7	non-plastic	93.8	—	ML-Silt	
PCP-68				12	10.3	E	10.3	Trans Silty Clay (CL)	23.7	36/20/16	96.7	49.0	CL-Lean Clay	
PCP-68				12	12.3	F	12.3	Trans Silty Clay (CL)	12.9	27/15/12	63.0	25.0	CL-Sandy Lean Clay	
PCP-69				10	3.5	A	3.5	Dk Brn Sandy Clay (CL)	21.8	52/22/30	92.7	42.0	CH-Fat Clay	Some topsoil
PCP-69				10	5.7	B	5.7	Brown Silty Clay (CL)	16.4	33/17/16	78.2	—	CL-Lean Clay w/sand	
PCP-69				10	8.2	C	8.2	Brown Silty Clay (CL)	13.6	non-plastic	91.5	21.0	ML-Silt	
PCP-69				10	10.4	D	10.4	Brown Silty Clay (CL)	19.5	non-plastic	94.2	—	ML-Silt	
PCP-70				12	3.2	A	3.2	Dk Brn Silty Clay (CL)	19.2	33/20/13	91.8	31.0	CL-Lean Clay	Some topsoil
PCP-70				12	5.3	B	5.3	Brown Silty Clay (CL)	21.1	43/20/23	94.3	—	CL-Lean Clay	
PCP-70				12	7.8	C	7.8	Brown Silty Clay (CL)	15.2	31/16/15	76.9	—	CL-Lean Clay w/sand	
PCP-70				12	10.4	D	10.4	Brown Silty Clay (CL)	21.2	24/16/8	70.4	—	CL-Lean Clay w/sand	
PCP-70				12	12.2	E	12.2	Brown Silty Clay (CL)	13.8	18/14/4	54.2	13.0	CL-ML-Sandy Silty Clay	
PCP-70				12	14.4	F	14.4	Brown Silty Clay (CL)	15.2	22/13/9	68.1	—	CL-Sandy Lean Clay	
PCP-71				10	3.1	A	3.1	Dk Brn Sandy Clay (CL)	16.1	29/16/13	60.9	—	CL-Sandy Lean Clay	Some topsoil
PCP-71				10	6.2	B	6.2	Brown Silty Clay (CL)	14.2	31/18/13	70.6	—	CL-Lean Clay w/sand	
PCP-71				10	8.4	C	8.4	Brown Silty Clay (CL)	13.2	25/16/9	59.7	20.0	CL-Sandy Lean Clay	
PCP-71				10	10.0	D	10.0	Brown Silty Clay (CL)	12.7	21/15/6	49.2	13.0	SC-SM-Silty Clayey Sand	

STOCKPILE 02-6

Sample Number	Sample Frequency (cu Yds)	Moisture Content %	Standard Proctor (and rock correction)	Modified Proctor pcf @ %	Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Clay Content %	Classification (USCS)	Hydraulic Conductivity
LP02-38	1500	11.8	124.5 @ 11.7 125.3@ 11.5	133.9 @ 9.1 134.6 @ 8.9	24	15	9	66.7	25.0	(CL) Sandy Lean Clay	— —
LP02-39	3000	13.3	121.3 @ 12.0 123.3 @ 11.4	— —	23	15	8	63.7	—	(CL) Sandy Lean Clay	— —
LP02-40	4500	12.5	123.9 @ 11.9 124.5 @ 11.7	— —	23	15	8	66.7	—	(CL) Sandy Lean Clay	— —
LP02-41	6000	12.4	125.3 @ 11.3 125.9 @ 11.1	— —	22	15	7	58.5	—	(CL-ML) Sandy Silty Clay	— —

Reported total yards, surveyed: 7,450
Converted total yards in place:
Average Stockpile Moisture:
Average Corrected Standard Proctor: 124.8 @ 11.4
Average Corrected Modified Proctor:
Cumulative cubic yards:
Composite Hydraulic Conductivity:

M E M O R A N D U M

TO: Mr. Uday Kumthekar, P.E.
Fluor Fernald, Inc.

FROM: Collin P. Sukow
Construction Quality Control (CQC) Manager

DATE: 8 April, 2003

SUBJECT: Summary Results of Conformance Testing of
Screened Clay Material Stockpiles 02-4, 02-5,
and 02-7 through 02-17
On-Site Disposal Facility
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) CQC has completed conformance testing of samples collected from the screened clay material stockpiles 02-4, 02-5, and 02-7 through 02-17 in the East Field Borrow Area. The conformance testing was performed to confirm that the clay material complies with Section 02225 of the On-Site Disposal Facility (OSDF) Phase IV Technical Specifications, and as such the material could be used for compacted clay liner and cap construction. Testing and minimum sampling frequencies were in accordance with Section 02225 of the Technical Specifications and the OSDF Construction Quality Assurance (CQA) Plan.

The results of the conformance testing, including the acceptable permeability zone (APZ), for 02-4, 02-5, and 02-7 through 02-17 clay material stockpiles are summarized in the attachments to this memorandum. GeoSyntec has reviewed the test results and found them to comply with the clay liner and cap material requirements of Section

02225. However, two of the 13 stockpiles, 02-4 and 02-5, failed permeability testing when remolded composite samples were held to the line of optimums APZ, which is right of the line of optimums. These composite samples subsequently passed permeability testing when held to the 90% saturation line APZ. As was done with the 99-4 stockpile, 02-4 and 02-5 will be held to the 90% saturation line for determination of passing and failing field moisture/density tests.

Therefore, the screened clay material in stockpiles 02-4, 02-5, and 02-7 through 02-17 can be referred to as clay liner and cap material and can be used for compacted clay liner and cap construction, including protective clay layer. The complete results of the geotechnical laboratory testing performed on the clay material will be documented in a final CQA report upon completion of Cell 6 liner and Cell 2 cap construction.

Should you have any questions on the information presented above or in the attachment, please do not hesitate to contact the author of this memorandum.

Attachments

Copies to:
William Zebick, Fluor Fernald, Inc.
D. Goetz, Fluor Fernald, Inc.
Chuck VanArsdale, Fluor Fernald, Inc.
Mike Godber, Fluor Fernald, Inc.
Kwasi Badu-Tweneboah, GeoSyntec
Dave Phillips, GeoSyntec

* * * * *

GQ1341-04.1/FFI2003.DOC

5367

MEMORANDUM

To: Mr. C. VanArsdale
Soils and Water Projects
Fluor Fernald, Inc.

From: Collin P. Sukow
Site CQC Manager
GeoSyntec Consultants

Date: 21 May 2003

Subject: Removal of the Temporary Ramp Over
The Cell 3 and Cell 4 Intercell Berm
Fernald Environmental Management Project

In November 2002, a cell access ramp was constructed over the intercell berm between Cell 3 and Cell 4 in order to place impacted protective material in Cell 4. During construction of this ramp, material not meeting select impacted material specifications (non-compliant material) was placed above the1-ft thick protective layer on the Cell 3 intercell berm. Also, part of the ramp (the toe slope into Cell 4) was constructed of non-compliant material (material not meeting the protective layer specifications). However, a geotextile separator was placed directly on top of the LCS geotextile filter in Cell 4 for protection. Per the addendum to DCN 20104-010 dated December 6, 2002, this non-compliant material was to be removed in the Spring of 2003.

The non-compliant material was removed from April 23, 2003 to April 25, 2003, and was monitored by GeoSyntec Consultants (GeoSyntec) CQC personnel. Non-compliant material in the ramp was excavated down to the visual contact of brown and gray till marking the top of protective layer at the intercell berm. In order not to damage the underlying LCS geotextile filter in Cell 4, the gray till material was excavated to within 1 foot of the elevation above the geotextile at the toe of the slope in Cell 4 (See attached cross section). GeoSyntec CQC personnel observed no visible oversized rocks in the brown and gray till material at the 1-ft elevation above the geotextile filter. The removed non-compliant material was placed as Category 1 soil material, including select impacted material, in the surrounding grids, and oversized rocks were removed during placement.

Based on GeoSyntec's CQC field observations, the gray till material did not appear to cause damage to the underlying geotextile filter on top of the LCS drainage layer in Cell 4.

Attachment

Copies to:
U. Kumthekar, Fluor Fernald, Inc.
J.D. Chiou, Fluor Fernald, Inc.
K. Harbin, Fluor Fernald, Inc.
J. Ellis, Fluor Fernald, Inc.
M. Godber, Fluor Fernald, Inc.
K. Badu-Tweneboah, GeoSyntec
D. Phillips GeoSyntec

5367

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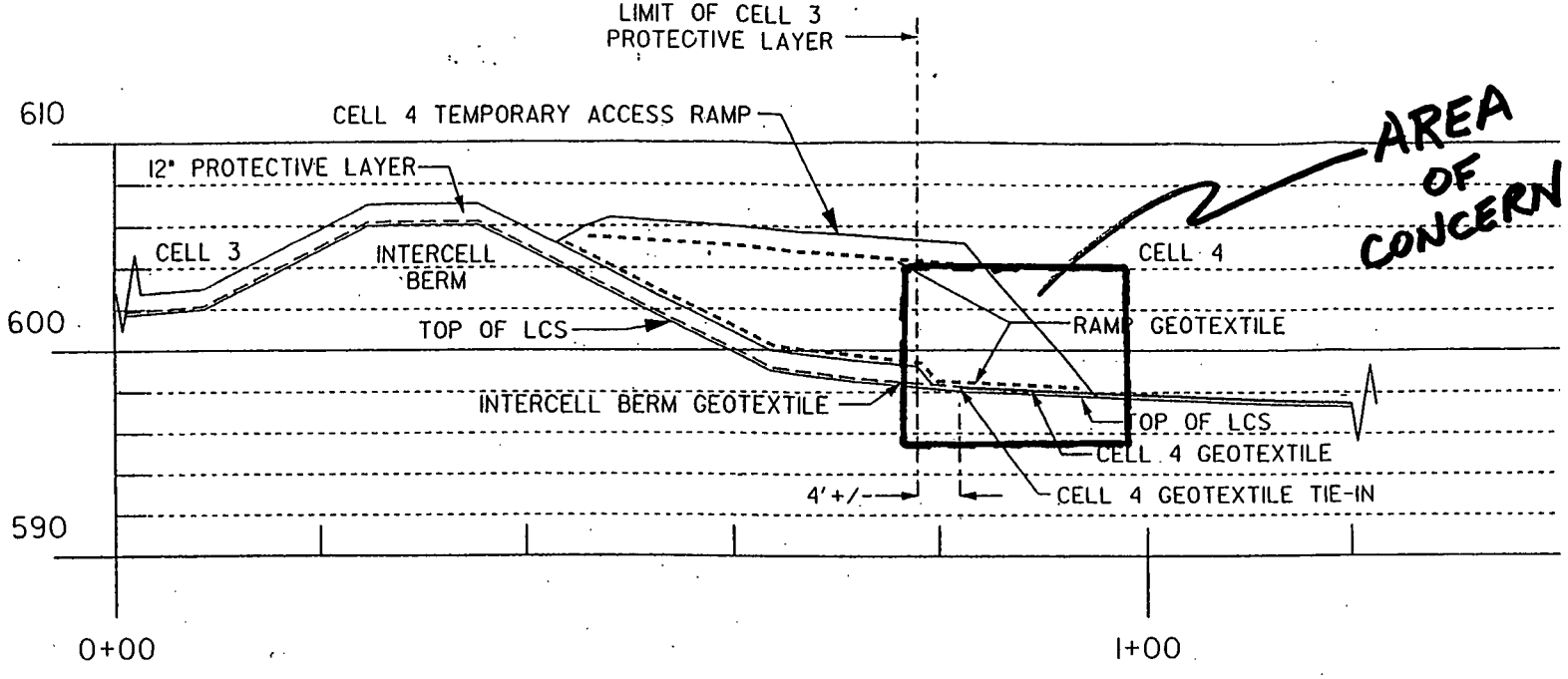

1/1 SECTION 1

1" = 12' HORIZONTAL
1" = 6' VERTICAL

NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.

Fernald Environmental Management Project
FLUOR FERNALD, INC.
U.S. DEPARTMENT OF ENERGY

CELL 4 TEMPORARY ACCESS RAMP
CROSS SECTION
DCN 20104-010 2
FILE NAME: CELL 4 ACCESS RAMP.DGN

M E M O R A N D U M

TO: J.D. Chiou, Ph.D., P.E. and Uday Kumthekar, P.E.
Soil Disposal Facility Project
Fluor Fernald, Inc.

FROM: K. Badu-Tweneboah, Ph.D., P.E. and J.F. Beech, Ph.D., P.E.
GeoSyntec Consultants

DATE: 27 May, 2003

SUBJECT: Evaluation of the Changes and Clarifications to the Impacted Material Placement Plan On the Long-Term Performance of the On-Site Disposal Facility Fernald Environmental Management Project (FEMP)

Introduction

GeoSyntec Consultants (GeoSyntec) has prepared this memorandum to summarize an evaluation of the individual and combined impact of the approved design changes (DCNs) and clarifications (RCIs), and proposed RCI to the Impacted Material Placement (IMP) Plan on the long-term performance of the on-site disposal facility (OSDF) at the FEMP site. This memorandum specifically addresses the significant changes and clarifications to the IMP Plan (Document No. 20100-PL-007), Revision 0, dated January 19, 1998, which was approved by the Regulatory Agencies (i.e., USEPA and OEPA) as part of the overall OSDF design package. The purpose of this memorandum is to evaluate the impact of each change and clarification, as well as the combined effect of the changes and clarifications on the: (i) original design intent; (ii) added protection and/or improvement of the systems; and (iii) maintenance of the long-term performance of the OSDF.

Approach for Review of DCNs and RCIs

DCNs and RCIs to the OSDF documents, including the specifications, construction drawings and the IMP Plan, are processed and approved according to the procedures described in FEMP Document No. ED-12-5002 titled "Engineering Design Change Process". During the review and approval process of each design change or clarification to the IMP Plan, GeoSyntec (the Design Organization) conducts the necessary review and technical evaluation to assure that the proposed change or clarification, and combined effect, is consistent with the original design intent, will provide protection, and that it would maintain or improve the overall long-term performance of the OSDF.

A copy of the Revision Summary from the current IMP Plan (Revision 3PCN1, dated October 2001) is attached for reference and also to summarize the changes made to the original IMP Plan (Revision 0, dated 1/19/1998). A summary of the significant changes to the IMP Plan is as follows:

- Clarification on the definition of Category 4 material. RCI No. 20102-059, dated 07/31/00 clarified the definition of "very compressible" as applied to Category 4 material and replaced it with "prone to decomposition", and thereby allowed the re-classification of materials such as PPE, insulation, rolls of fencing, carpet, ceiling tile, built-up roofing, rubber hose, tarping, plastic sheeting and the like as Category 2 impacted materials. This RCI was approved by the Regulatory Agency on November 13, 2000, and incorporated in the IMP Plan via page changes (1PCN1), dated 12/19/00.

- Addition of placement procedure for lime sludge with the proper consistency. RCI No. 20102-068R, dated 6/20/00, provided a technical justification for placing lime sludge and sludges mixed with soil with Category 2 debris in Category 2 grids. This RCI was approved by the Regulatory Agency on December 7, 2000, and incorporated in the IMP Plan via page changes (2PCN1), dated 6/01.

- Addition of alternate placement requirements for Category 3 materials (transite panels) to Section 8.4 of the IMP Plan. This change was based on a technical evaluation conducted

by GeoSyntec in September 2001, which was approved by the Regulatory Agencies, and subsequently implemented as page changes to the IMP Plan (3PCN1) in October 2001.

- Use of a 2-ft minimum intervening layer thickness between lifts of Category 2 and 3 materials. This change was also based on a technical evaluation conducted by GeoSyntec, and processed through RCI No. 20104-001R, dated December 19, 2001. This RCI was subsequently approved by the Regulatory Agencies in January 2002.

- Increasing the Grid Size for Category 2 Impacted Material Placement. This proposed RCI is addressed in the attached RCI No. 20104-007R, dated May 19, 2003. GeoSyntec has reviewed this RCI, and a technical evaluation on its individual and combined impact on the original design intent, protection of the overall system, and long-term performance of the OSDF is addressed in the body of the RCI, and summarized in this memorandum.

Evaluation of Changes and Clarifications

The design of the OSDF at the Fernald site includes impacted soil materials: (i) between the cover system and the upper most debris layer, and (ii) intervening layers between any two debris layers. The main purpose of these layers is to minimize potential settlement and resulting negative impacts to the cover system caused by future void development in any underlying debris layers. This purpose is one of the general design criteria used for developing the IMP Plan for the OSDF, which is as follows (Section 2.4, page 2-5):

'... Materials should be placed in a manner that results in a disposal pile with relatively homogeneous large-scale mechanical properties (i.e., compressibility and shear strength), to the extent possible; homogeneity should be achieved by distributing impacted materials throughout the OSDF to avoid large pockets or distinct concentrations of any type of impacted materials in a particular area; and the objective of achieving a homogeneous disposal pile is to minimize the potential for differential settlement... ".

GeoSyntec reviewed and evaluated each approved change and clarification, and the impact of all the changes and clarifications, to the IMP Plan to assure that the above design criterion is always met. The assurance also confirmed that the original design intent was maintained; that the protection of the overall system was intact; and the long-term performance of the OSDF

was maintained or improved. Additional technical evaluation for RCI No. 20104-007R, which is being submitted as part of this memorandum is provided below.

Proposed RCI to Increase Grid Size for Category 2 Material Placement

RCI No. 20104-007R proposes to increase the grid size for placement of Category 2 impacted material. As indicated in the RCI, the Category 2 material will still be mixed with soil to fill voids as required in the original design, thereby meeting the design criterion of homogeneity in the OSDF. The proposed clarification is also consistent with the other objectives of the placement procedures in the IMP Plan (page 2-4) that "*...Impacted material placement procedures should take into account:*

- *the rate and time at which impacted material will be available for placement in the cell;*
- *the types of impacted material available for disposal (i.e., soil, fly ash, lime sludge, solid waste, or building demolition debris);*
- *the potential for bulking/shrinkage of impacted material during placement;*
- *the availability of temporary stockpile capacity;*
- *the extent to which the disposal cell is constructed and available to receive impacted material...*"

Finally, the proposed clarification also includes the approximately 30-ft thick (bottom width) exterior soil berm on the east and west slopes, which was approved under RCI No. 20104-001R by the Regulatory Agencies. The bottom width ensures that Category 2 debris is contained by Category 1 soil, and thereby minimizes the potential for lateral migration of leachate.

Therefore, the proposed clarification to the grid size meets the original design intent; is protective of the system; and will improve the long-term performance of the OSDF.

Closure

GeoSyntec believes that each, and collectively, approved changes and clarifications to the IMP Plan, including the proposed clarification to the grid-size for Category 2 material, is consistent with the original design intent from the approved Legacy Design (i.e., Final Design Package). Each change has been reviewed and approved to assure protection of the overall system, and maintenance or improvement to the long-term performance of the OSDF. The combined changes or clarifications have also been reviewed to confirm that there is maintenance, and added protection or improvement to the overall long-term performance of the OSDF.

* * * * *

Attachment

Copies:
Charles Van Arsdale, P.E. (Fluor Fernald, Inc.)
David K. Phillips, P.E. (GeoSyntec)

GQ1341-03.1/IMPPLAN.DOC

5367

IMPACTED MATERIALS PLACEMENT PLAN ON-SITE DISPOSAL FACILITY

Revision 3
October 2001
20100-PL-007

United States Department of Energy

Fernald Environmental Management Project
Fernald, Ohio

Prepared by

GeoSyntec Consultants
1100 Lake Hearn Drive, NE, Suite 200
Atlanta, Georgia 30342

Under

Fluor Fernald, Inc.
Contract 95PS005028

REVISION SUMMARY

Revision	Dated	Description of Revision
0	1/19/98	Initial issuance of Revision 0, *Impacted Material Placement Plan, On-Site Disposal Facility* (20100-PL-007)
PCN 1	7/7/98	Added Revision Summary page and revised physical waste acceptance criteria for debris (Page 4-1) to reflect that transite panels will not be size reduced before disposal in the On-Site Disposal Facility
0 ADD 1	2/17/99	Addendum 1: Issuance of Revision 0, *Specialized Placement Plan for Bagged Impacted Material* to discuss placement of bagged material into the On-Site Disposal Facility
1	10/99	Issuance of Revision 1 based on page changes approved by the U.S. EPA and OEPA. Addendum 1 incorporated into Appendix C
1ADD2	3/00	Addendum 2: Issuance of Revision 1, *Specialized Placement Plan for Thyorium and Non-Bagged Impacted Material* to discuss placement of thorium debris and non-bagged material into the On-Site Disposal Facility
1ADD3C	3/00	Addendum 3: Issuance of Revision 1, *Alternative Trenching Method for Placement of Category 2 Impacted Material* to discuss placement of Category 2 items by trenching method into the On-Site Disposal Facility
1TBL1	3/00	Added *Placement Restrictions for Specialized Placement Plans* table to be inserted in front of Addendum 1 of Appendix C.
1 PCN 1	12/19/00	Revised Category 4 material definition to replace the words "very compressible" with "prone to decomposition" (page 5-2 and 8-5).
2	5/01	Issuance of Revision 2 to incorporate lessons learned from OSDF Phase I and ~~II~~ and DCN 20102-033 dated 1 July 1998. Addenda 2 and 3 incorporated into Appendix C.
2 PCN 1	6/01	Added ~~liner~~ lime sludge placement procedure to Section 8.6.5 based on RCI 20102-068R dated 20 June 2000.
3	7/01	Issuance of Revision 3 to incorporate 2 PCN 1.
3PCN1	10/01	Added alternate placement requirements for Category 3 materials (transite panels) to Section 8.4.

M E M O R A N D U M

TO: Mr. William (Bill) A. Zebick
Construction Manager
Fluor Fernald, Inc.

FROM: Kwasi Badu-Tweneboah, Ph.D., P.E. KBT
GeoSyntec Consultants

DATE: 27 May, 2003

SUBJECT: Approval of Contouring Layer
Cell 2 Final Cover Construction
On-Site Disposal Facility (OSDF) Phase IV2
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) Construction Quality Control (CQC) has completed performance testing and verification of Contractor's survey results of the contouring layer in the Cell 2 final cover system in accordance with Sections 02240 and 02225 of the Technical Specifications and Section 6.4 of the Construction Quality Assurance (CQA) Plan.

GeoSyntec CQC personnel have completed monitoring of the placement, compaction, and performance testing of lifts of contouring layer of the Cell 2 final cover system in accordance with the requirements of the CQA Plan. The contouring layer lifts were placed and compacted in compliance with Section 02240 and Section 6.4 of the Technical Specifications and the CQA Plan, respectively. Documentation on the contouring layer placement, compaction, and testing for the Cell 2 final cover system are presented in the Daily Field Reports and Monitoring Forms, and will be included in the Final Report for Phase IV2 – Cell 2 final cover system construction.

GQ1341-03.1/CONTOURINGLAYER.DOC

The contouring layer of Cell 2 final cover has been surveyed and certified by Tecumseh Surveying, Inc. (Tecumseh) of Shandon, Ohio, the surveyor for the OSDF Phase IV2 and Phase V construction projects. The survey certification data have been reviewed by Fluor Fernald Engineering and GeoSyntec and found to be within the tolerance of –0.3 to +0.1 feet of the grades indicated on the Construction Drawings and required by Section 02200 of the Technical Specifications.

GeoSyntec CQC personnel also witnessed the proofrolling of the top of contouring layer during the week of May 12, 2003. The top of contouring layer was proofrolled by driving a loaded Volvo articulated dump truck with a minimum weight of 31 tons, back and forth to confirm the firmness of the surface of the contouring layer.

Based on the information presented above, GeoSyntec concludes that the contouring layer on the Cell 2 final cover system is acceptable and ready for placement of the first lift of compacted clay cap. A verbal approval was given to representatives from Fluor Fernald on 14 May 2003. Prior to placement of the first lift of the compacted clay cap, the surface of the contouring layer would have to be prepared in accordance with Section 02225, Part 3.04 of the Technical Specifications.

Should you have any questions on the information presented above, please do not hesitate to contact the author of this memorandum.

Copies to:
Uday Kumthekar, Fluor Fernald, Inc.
Chuck VanArsdale, Fluor Fernald, Inc.
Mike Godber, Fluor Fernald, Inc.
G. Mike Stumbo, Fluor Fernald, Inc.
Collin Sukow, GeoSyntec CQC

* * * * *

GQ1341-03.1/CONTOURINGLAYER.DOC

M E M O R A N D U M

TO: Mr. William (Bill) A. Zebick
Construction Manager
Fluor Fernald, Inc.

FROM: Kwasi Badu-Tweneboah KBT
GeoSyntec Consultants

DATE: 4 June, 2003 V

SUBJECT: Approval of Subgrade – Cell 6 Floor and Slopes
Phase V - Cell 6 Liner System Construction
On-Site Disposal Facility (OSDF)
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) Construction Quality Control (CQC) has completed performance testing and verification of Contractor's survey results of the floor and slopes of Cell 6, including Cell6/7 intercell berm, in accordance with Sections 02200 and 02225 of the Technical Specifications and Section 6.4 of the Construction Quality Assurance (CQA) Plan.

GeoSyntec CQC personnel have completed monitoring of the placement, compaction, and performance testing of lifts of compacted fill in the floor and slopes of the Cell 6 liner system in accordance with the requirements of the CQA Plan. The compacted fill lifts were placed and compacted in compliance with Section 02200 and Section 6.4 of the Technical Specifications and the CQA Plan, respectively. Documentation on the compacted fill placement, compaction, and testing on the floor and slopes of Cell 6 are presented in the Daily Field Reports and Monitoring Forms, and will be included in the Final Report for Phase V – Cell 6 liner system construction.

GQ3211-01/SUBGRADE1.DOC

The subgrade on the floor and slopes of Cell 6 has been surveyed and certified by Tecumseh Surveying, Inc. (Tecumseh) of Shandon, Ohio, the surveyor for the Phase IV2 and Phase V construction projects. The survey certification data have been reviewed by GeoSyntec and found to be within the tolerance of –0.3 to +0.1 feet of the grades indicated on the Construction Drawings and required by Section 02200 of the Technical Specifications.

GeoSyntec CQC personnel also witnessed the proofrolling of the Cell 6 subgrade on the during the months of April and May 2003. The subgrade was proofrolled by driving a loaded Volvo articulated dump truck with a minimum weight of 31 tons, back and forth to confirm the firmness of the surface of the subgrade. Excessively soft areas and/or areas with ruts greater than 2 inches in depth were undercut, nonwoven geotextile and riprap were used to bridge over those areas, and compacted fill was placed and compacted to subgrade elevations in accordance with the Technical Specifications.

Based on the information presented above, GeoSyntec concludes that the subgrade on the floor and slopes of Cell 6, including the Cell 6/7 intercell berm, is acceptable and ready for placement of the first lift of compacted clay liner. A verbal approval was given to representatives from Fluor Fernald on 29 May 2003. Prior to placement of the first lift of the compacted clay liner, the surface of the subgrade would have to be prepared in accordance with Section 02225, Part 3.04 of the Technical Specifications.

Should you have any questions on the information presented above, please do not hesitate to contact the author of this memorandum.

Copies to:
Uday Kumthekar, Fluor Fernald, Inc.
Chuck VanArsdale, Fluor Fernald, Inc.
G. Mike Stumbo, Fluor Fernald, Inc.
Mike Godber, Fluor Fernald, Inc.
Don A. Pfister, Department of Energy
Collin Sukow, GeoSyntec CQC

* * * * *

GQ3211-01/SUBGRADE1.DOC

M E M O R A N D U M

TO: Mr. William (Bill) A. Zebick
Construction Manager
Fluor Fernald, Inc.

FROM: Kwasi Badu-Tweneboah, Ph.D., P.E. KBT
GeoSyntec Consultants

DATE: 6 June, 2003

SUBJECT: Approval of Top of Select Impacted Material Layer
Cell 2 Final Cover Construction
On-Site Disposal Facility (OSDF) Phase IV2
Fernald Environmental Management Project

The purpose of this memorandum is to provide documentation on the completion of performance testing and verification of Contractor's survey results of the select impacted material layer in the Cell 2 final cover system in accordance with Sections 02240 and 13010 of the Technical Specifications and the Impacted Material Placement (IMP) Plan.

GeoSyntec Consultants (GeoSyntec) Construction Quality Control (CQC) personnel have completed monitoring of the placement, compaction, and performance testing of lifts of select impacted material layer of the Cell 2 final cover system in accordance with the requirements of the Section 13010 of the Technical Specifications, the IMP Plan, and the IMP Construction Quality Assurance (CQA) Plan. The select impacted material layer was placed and compacted in compliance with the Technical Specifications and IMP Plan. Documentation on the select impacted material layer placement, compaction, and testing are presented in the IMP Test Logs and Daily Field Reports. Also, the compaction tests that failed to meet the minimum performance criteria, as addressed in Fluor Fernald NCR No. 1505, were retested in March and April 2003. Documentation on the retesting of these areas is attached to this memorandum.

GQ1341-03.1/SELECTLAYER.DOC

The top of select layer of Cell 2 final cover has been surveyed and certified by Tecumseh Surveying, Inc. (Tecumseh) of Shandon, Ohio, the surveyor for the OSDF Phase IV2 and Phase V construction projects. The survey certification data have been reviewed by Fluor Fernald Engineering and found to be within the tolerance and thickness requirements of the Construction Drawings and Technical Specifications. Documentation on the acceptance of the survey certification was provided by Fluor Fernald Engineering in a 10 April 2003 E-mail (copy attached).

Based on the information presented above, GeoSyntec documents that the select impacted material layer on the Cell 2 final cover system was acceptable and ready for placement of the contouring layer, as indicated in the 10 April 2003 E-mail.

Should you have any questions on the information presented above, please do not hesitate to contact the author of this memorandum.

Copies to:
Uday Kumthekar, Fluor Fernald, Inc.
Chuck VanArsdale, Fluor Fernald, Inc.
Mike Godber, Fluor Fernald, Inc.
G. Mike Stumbo, Fluor Fernald, Inc.
Don A. Pfister, Department of Energy
Collin Sukow, GeoSyntec CQC

* * * * *

GQ1341-03.1/SELECTLAYER.DOC

NONCONFORMANCE REPORT FORM

ORIGINATOR/ASSESSOR

1	**Nonconformance Number/Revision**	NCR No.: 505 Revision No. 0 5367
	Dates	Date Discovered: 1-21-03 Date NCR Issued:
3	**Type of Nonconformance**	[X] FINDING [ ] CONCERN
4	**Project Number Project/Activity @ Fac/Loc/Bldg.**	20104 Select/Impacted Material Field Testing
5	**Hazard Category**	Nuclear: [ ] 1 [ ] 2 [ ] 3 Radiological: [ ] Non-Nuclear: [ ] High Hazard [ ] Moderate Hazard [ ] Low Hazard Industrial: [ ] Standard Industrial Hazard [ ] Other Industrial Hazard Not Designated [X] Desktop review, document review, etc.
6	**Assessment**	[X] Internal (Site) [ ] External (OEPA, DOE) [ ] Supplier/Vendor_____
7	**Assessment Type**	[ ] Audit [X] Surveillance [ ] Inspection [ ] Self Assessment [ ]Other_____
8	**Assessment Number**	2016159
9	**Responsible Program/Project Division/Vendor**	[ ] WPRAP [ ] D&DP [X] S&DFP [ ] M&IS [ ] WMP [ ] ARP [ ] SH&Q [ ] SP [ ] CPM [ ] OP [ ] ADM [X]Supplier/Vendor/Subcontractor [ ] Other
10	**Responsible Department/Vendor**	GeoSyntec Consultants
11	**Responsible Manager/Supervisor/Vendor (Print Name)**	(For Concerns, assign to Project/Program Director Collin P. Sukow / J.D. CHIOU
12	**Functional Area (NA for Vendors)** (choose any that apply) (Ref. RM-0016)	[ ] CM [ ] ED [ ] RD [ ] MS [ ] QA [ ] AC [ ] PM [ ] PI [ ] FM [ ] EP [ ] EW [ ] MT [ ] OP [ ] PT [ ] SE [ ] TR [X] CT [ ] HR [ ] PC [ ] EM [ ] FP [ ] NS [ ] SH [ ] RP
13	**QA Criteria** (choose one that applies Ref. RM-0012) Other Criteria (CONOPS, etc.) (not RM-0012 applicable)	[ ] 1 Program [ ] 2 Training [ ] 3 Quality Improvement [ ] 4 Document/Records [X] 5 Work process [ ] 6 Design [ ] 7 Procurement [ ] 8 Inspect/Test [ ] 9 Management Assessment [ ] 10 Independent Assessment [ ] Other
14	**Requirement Description** Cite the requirement (clearly, concisely, and completely) and its source, including document identification number, page and paragraph number. A copy of the document (or page of the document) in which the requirement appears may be attached or added to the NCR file. Use additional or separate sheets as necessary.	Impacted Materials Placement Plan, On-Site Disposal Facility, rev 3, Sec 7.3.2: "Each lift of Select Impacted Material shall be compacted to...90%of the standard Proctor max dry density if adjacent to the contouring layer in the final cover system".
15	**Nonconformance Description** Describe the nonconformance. Include details such as supplier names, container numbers, purchase order, work order, or requisition numbers) and clearly describe the deviation from the written requirement. Use additional or separate sheets as necessary.	23 compaction tests on Select Materials in Cell 2, taken in 2002 were <90%, not meeting spec: Nos. 3, 4, 17, 64, 67, 70, 86, 87, 92, 93, 94, 104, 106, 122-126, 134, 140, 143, 149, 173.
16	**Tagging Required / Number of Tags**	[ ] Yes [X] No Number of Tags:
17	**Originator/Assessor**	Name: Richard J. Scheper Signature: Richard J. Scheper Date: 1-23-03

MANAGER/SUPERVISOR'S REVIEW

18	**Manager/Supervisor (Trained/Briefed on QA-0001)**	Name: Michael W. Godber Signature: Michael W. Godber Date: 1/23/03
	Response Date From Responsible Organization	REQUESTED RESPONSE DATE: 2/20/2003 (Reply within 20 working days)

5367

MEMORANDUM

To: Mr. Kwasi Badu-Tweneboah and Mr. Kevin Harbin
Project Management, Fluor Fernald
GeoSyntec Consultants

From: Collin P. Sukow
Site CQC Manager,
GeoSyntec Consultants

Date: 28 March 2003

Subject: NCR-1505

On 24 and 25 March 2003, GeoSyntec took density tests on the select layers in Cell 2 to expedite Flour NCR-1505 pertaining to the deficient test results recorded in 2002.

All of the 23 tests needing a passing re-test, 19 passed and 4 failed density test requirements. These 4 failed tests will still need a passing density test result prior to closing NCR-1505 and beginning placement of the Cell 2 contouring layer.

The 4 failing tests are all located on the east slope in grids H-8, I-8, J-8, and J-9. They are also all located on the top lift. The tests failed due to higher moisture contents and deep 1 ft to 1.5 ft ruts from the off road dump trucks were observed in these same grids. Deep ruts were also observed in H-9, H10, I-9, and I-10. These other 4 grids have passing density test results but will need to dry sufficiently to eliminate the rutting before the contouring layer is placed.

Over the week of 24 March 2003, the slope looked visually better. We anticipate being able to complete these final 4 tests during the week of 31 March 2003 as the slope continues to dry.

GeoSyntec Consultants

FLUOR FERNALD, INC.

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 3017 AND ASTM D 2922)

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO

DESCRIPTION: Phase IV

PROJECT NO.: GQ1341 TASK NO.: 4.1

DATE: 3 day April month 2003 year

SPECIFICATION REQUIREMENTS

SOURCE: ON SITE MATERIAL TYPE: (CIRCLE ONE) IMPACTED MATERIAL / (OTHER: SELECT) LIFT THICKNESS (LOOSE / COMPACTED): 12"

% COMPACTION: 90% MOISTURE RANGE: N/A ASTM D 698: A (B) C / ASTM D 1557: A B C (CIRCLE ONE)

NUCLEAR GAUGE TYPE: Troxler 3440 NUCLEAR GAUGE SERIAL NO. 28800 COR. FACTOR: N/A QA ID: QA

TEST NO.	TEST LOCATION	PROBE DEPTH/ LIFT NO.	LAB RESULTS			FIELD TEST RESULTS							RETEST NO.	RETEST	
			SAMPLE NO.	OMC (%)	MAX DRY UNIT WT (PCF)	FMC (%)	WET UNIT WT (PCF)	DRY UNIT WT (PCF)	PERCENT COMPACT (%)	PASS	FAIL	RUN. AVG. *		PASS	FAIL
201	Grid H-8	12" / 6	IM-101	11.1	125.7	7.6	138.1	128.3	102.1	P	—	—	—	—	—
202	Grid I-8	12" / 6	IM-101	11.1	125.7	7.1	137.3	128.2	102.0	P	—	—	—	—	—
203	Grid J-8	12" / 4	IM-106	10.0	128.9	9.0	132.3	121.2	94.1	P	—	—	—	—	—
204	Grid J-9	12" / 4	IM-106	10.0	128.9	7.2	137.5	128.2	98.5	P	—	—	—	—	—

COMMENTS: * RUNNING AVERAGE IS FOR LAST TEN TESTS

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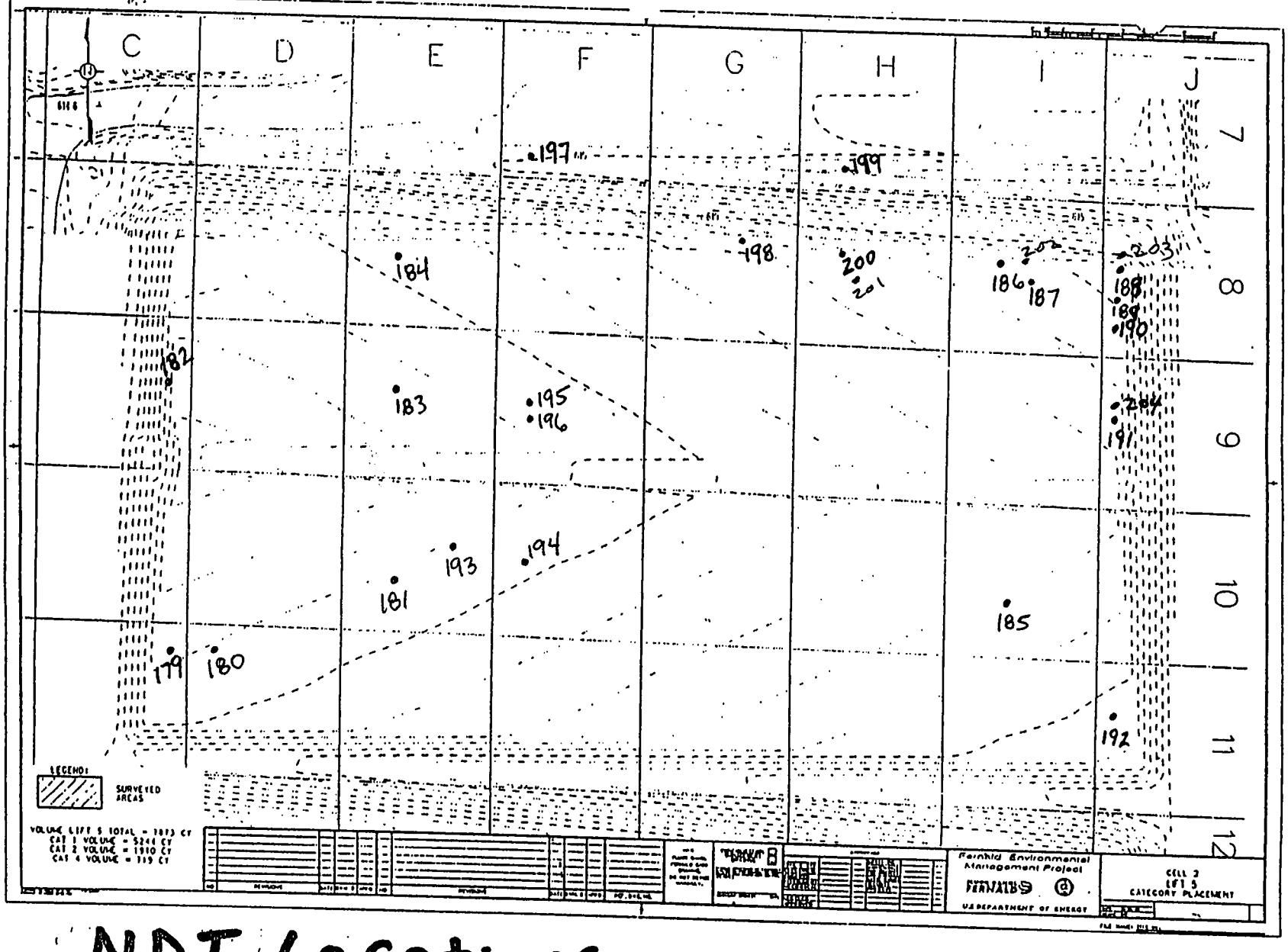


N

NDT Locations 2002

5 of 5

000429

5367

Kwasi Badu-Tweneboah

From: "Vanarsdale, Chuck" <Chuck.Vanarsdale@fernald.gov>
To: "Godber, Mike" <Mike.Godber@fernald.gov>
Cc: "Vanarsdale, Chuck" <Chuck.Vanarsdale@fernald.gov>; "Stumbo, Gordon" <Gordon.Stumbo@fernald.gov>; "Zebick, Bill" <Bill.Zebick@fernald.gov>; "Goetz, Don" <Don.Goetz@fernald.gov>; "Kwasi Badu-Tweneboah (E-mail)" <kwasib@geosyntec.com>; "DeFonzo, Ralph" <Ralph.DeFonzo@fernald.gov>; "Kumthekar, Uday" <Uday.Kumthekar@fernald.gov>
Sent: Thursday, April 10, 2003 3:57 PM
Subject: Cell 2 top of select certification

Gentlemen:

Elevations provided by Tecumseh Surveyors satisfy the requirements for Cell 2 Top of Select grades. The three-foot thickness has been achieved and the as-built grades are within tolerance. Additional points at the southern edge to accommodate the southern access road will be shot in the next few days.

Construction may begin to place contouring layer from the northern side toward the south.

The CQC Consultant will prepare a letter certifying this surface.

k Van Arsdale

M E M O R A N D U M

TO: Uday Kumthekar, P.E. and Charles Van Arsdale, P.E.
On-Site Disposal Facility (OSDF) Project
Fluor Fernald, Inc.

COPIES TO: Alan J. Hohnhorst and William "Bill" Zebick
Fluor Fernald, Inc.

FROM: K. Badu-Tweneboah, Ph.D., P.E. and David K. Phillips, P.E.
GeoSyntec Consultants

DATE: 3 July, 2003

SUBJECT: Waiver of the Approval or License of Installer by the Geomembrane Manufacturer
Fernald Environmental Management Project (FEMP)

GeoSyntec Consultants (GeoSyntec) has completed review and approval of Design Change Notice (DCN) No. 20104-013, dated 12 June 2003 for the OSDF Phase IV – Cell 2 Final Cover Construction and Phase V – Cell 6 Liner System Construction projects at the FEMP site. This DCN adds an alternative requirement to allow the Installer to submit a letter to the Construction Manager requesting waiver of the letter of approval or license by the Manufacturer. GeoSyntec has prepared this memorandum to inform Fluor Fernald of potential Manufacturer's issues that may be associated with waiving the approval of the Installer by the Manufacturer.

Part 1.04, Section 02770: Geomembrane Liner and Cap Technical Specifications require the Installer to submit a letter of approval or license by the Manufacturer. The primary reason for this submittal is to have the Manufacturer confirm that the Installer is

capable of installing the Manufacturer's product, and to have the Manufacturer provide technical support (including sending a representative to the site) during the installation, should the Installer encounter problems with the product. This submittal requirement has been complied with for previous OSDF construction projects (i.e., Cells 1 through 5 liner systems and Cell 1 final cover). In particular, the current geomembrane Manufacturer has issued this letter of approval or license to the proposed Installer for four of the six OSDF cell liner or cap constructions. However, it is understood that the same geomembrane Manufacturer has refused to issue this letter of approval or license to the Installer for the 2003 construction, as indicated in the attached DCN.

Based on the Installer's qualifications, experience, and known past performance on geomembrane installation at the Fernald site or similar projects, GeoSyntec has approved this DCN. As previously indicated, the approval of the Installer by the Manufacturer provides the Installer the opportunity to obtain technical support during installation. This was evident during the 2002 construction when the Manufacturer sent representatives to the FEMP site to review and resolve welding problems that were initially encountered by the Installer. GeoSyntec suggests that Fluor Fernald verify whether this technical support would be available if the Manufacturer does not approve the Installer. Additionally, the use of an unapproved Installer may affect the material warranty requirement of Part 1.04.A, Section 02770P of the geomembrane liner and cap Procurement Specifications. This five-year warranty requirement is for "defects in materials", but could be interpreted by the Manufacturer as due to "defects in installation", should some problems occur in the very near future.

GeoSyntec requests that Fluor Fernald review warranty provisions contained in Fluor Fernald Solicitation Number F02PB09268 along with the Manufacturer's warranty provided during the submittal process and address any potential Manufacturer's issues associated with allowing an Installer that was not approved by the Manufacturer to install geomembrane for the OSDF projects.

Should you have any questions or comments on the information presented in the above memorandum, please do not hesitate to contact the authors.

* * * * *

Attachment

Copies to:
Mike W. Godber (Fluor Fernald, Inc.)
J.F. Beech, Ph.D., P.E. (GeoSyntec)

GQ3211-01/INSTALLER.DOC

RCI/DCN FORM

5367

REQUEST FOR CLARIFICATION OF INFORMATION / DESIGN CHANGE NOTICE

(1) PROJECT/CWO/RES NO.: 20104	(2) S/C NO.: FSC-653	(3) Pg. 1 of 2	(4) DATE: June 12, 2003
(5) PROJECT/CWO/RES/S/C TITLE: On-Site Disposal (Phase IV) Construction			(6) RCI NO.:
(7) RCI/DCN TITLE: Alternative Requirement to letter of approval or license by geomembrane manufacturer			(6) DCN NO.: 20104-013

(8) DOCUMENTS AFFECTED	(8) DOCUMENT NOS.	(8) REV.	(9) OTHER
Phase IV OSDF Technical Specifications	20104-TS-001	1	Section 02770, Part 1.04

(10) REQUESTOR:	(11) CE / PE
Charles C. Van Arsdale 6/12/03	Charles C. Van Arsdale 6/12/03
NAME (Print & Sign) DATE	NAME (Print & Sign) DATE

(12) [ ] RCI-DESCRIPTION (13) [X] DCN-JUSTIFICATION. EXISTING CONDITION & REQUESTED/PROPOSED CHANGE

Justification: Due to the possibility of conflict of interest or business competition, a geomembrane Manufacturer may not issue a letter of approval or license to an Installer even though the Manufacturer might have approved the same Installer in previous construction projects. An alternative requirement needs to be specified to address this potential scenario in current and future construction contracts.

Existing Conditions: Technical Specification 02770, Part 1.04 requires the Installer to submit a letter of approval or license by the Manufacturer the geomembrane for the installation of the geomembrane material, and no alternate is specified.

Requested/Proposed Change: See page 2 of 2 for proposed change.

DESIGN ORGANIZATION RCI – DCN SUMMARY DESCRIPTION

(14) RCI/DCN SUMMARY DESCRIPTION

An alternative requirement is added to the Specification to allow the Installer to submit a letter to the Construction Manager requesting a waiver of the letter of approval or license by the Manufacturer. The Construction Manager may approve this waiver request based on the experience and past performance of the Installer on similar projects.

(15) REVIEWS COMPLETED #011

[ ] Configuration Management SSC Review Complete

DO NAME (Print & Sign) DATE

[X] Impact Assessment Review Complete

K. BADU-TWEBEBAH 6/13/03

DO NAME (Print & Sign) DATE

UDAY KUMTHEKAR 6/13/03

PE NAME (Print & Sign) DATE

[X] Technical Review Complete

K. BADU-TWEBEBAH 6/12/03

DO NAME (Print & Sign) DATE

[X] ED-12-4010 Review Complete

UDAY KUMTHEKAR 6/13/03

PE NAME (Print & Sign) DATE

(16) DOES CE AGREE WITH SOLUTION: [ ] NO [X] YES

IS A PURCHASE REQUISITION REQUIRED: [X] NO [ ] YES

Charles C. Van Arsdale 6/13/03

CE NAME (Print & Sign) DATE

(17) FIELD WORK COMPLETED:

CE OR PE (Print & Sign) DATE:

000434

FS-F-4259
Rev. 6: 10/18/02, ED-12-5002

5367

Add the following to Part 1.04.B.3 of Technical Specification 02770:

The Installer may submit a letter to the Construction Manager requesting waiver of the letter of approval or license by the Manufacturer. The letter should be based on the Installer's qualifications, experience, and past performance on installation of similar types of geomembranes at the Fernald site or similar projects. The Construction Manager will review the letter along with the supporting information and may approve the request based on the Installer's qualifications, experience, and past performance.

MEMORANDUM

To: Mr. Mike Stumbo and Don Goetz
Construction Management
Fluor Fernald

From: Collin P. Sukow
Site CQC Manager
GeoSyntec Consultants

Date: 26 August 2003

Subject: Conformance Sampling and Test Results
of the Cell 2 Cap Cover Materials
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) CQC has completed conformance sampling and testing from the stockpiled materials including Cover Drainage Layer (No. 78 stone), Biointrusion Barrier (Type D Rip-Rap), Biointrusion Barrier Choke Stone (No. 57 crushed stone), and Granular Filter (sand). The conformance testing was performed to confirm that the materials complied with Sections 02710, 02280, and 02712 of the On Site Disposal Facility (OSDF) Phase IV Cell 2 Final Cover System Specifications.

All samples were collected as the material was delivered and stockpiled during the 2003 construction season. All conformance test results met project specifications except for three of the No. 78 stone samples. These three stone samples failed gradation with over 2% passing the No. 200 sieve. However, NCR 20104-3 was written to address this, and the failing No. 78 stone samples were accepted for use as Cover Drainage Layer material.

Attachment

Copies to:
U. Kumthekar, Fluor Fernald
C VanArsdale, Fluor Fernald
K. Badu-Tweneboah, Geosyntec

Cover Drainage Layer (#78 stone)									
Sample Number	Sieve Size							Hydraulic Conductivity	Carconate Content
	3/4 in	1/2 in	3/8 in	#4	#8	#16	#200		
CDL03-1	100	92	60	7	3	3	1.1	7.00	0.040
CDL03-2	100	95	72	18	3	2	1.6	2.50	0.080
CDL03-3	100	97	73	15	4	3	1.9	1.60	—
CDL03-4	100	96	71	13	4	3	2.4	1.80	0.025
CDL03-5	100	90	61	18	6	4	2.9	2.20	0.070
CDL03-6	100	96	70	11	2	2	1.2	1.30	0.050
CDL03-7	100	96	77	21	3	2	1.2	2.00	0.060
CDL03-8	100	95	70	21	8	6	4.2	0.95	—

Biointrusion Barrier (Type D Rip-Rap)		
Sample Number	Specific Gravity	Absorbtion
RR03-1	2.64	0.65
RR03-2	2.63	0.42
RR03-3	2.62	0.43
RR03-4	2.67	0.40
RR03-5	2.73	0.56
RR03-6	2.70	0.62

Biointrusion Barrier (#57 Choke Stone)							
Sample Number	Sieve Size					Specific Gravity	Absorbtion
	1-1/2 in	1 in	1/2 in	#4	#8		
CH03-1	100	100	27	4	2.4	2.68	0.88

Granular Filter (Sand)				
Sample Number	Sieve Size			Classification
	#4	#50	#200	
GF03-1	99	9	0.7	SP
GF03-2	99	12	3.0	SP
GF03-3	100	13	0.7	SP

M E M O R A N D U M

TO: Uday Kumthekar, P.E. and Chuck VanArsdale, P.E.

COPY: J.D. Chiou, Ph.D., P.E. and Rudy Bonaparte, Ph.D., P.E.

FROM: Kwasi Badu-Tweneboah, Ph.D., P.E. and Dave Phillips, P.E.

DATE: 22 September 2003

SUBJECT: Preliminary Evaluation of Potential Problem With Extrudate Welding Rods

---

The purpose of this memorandum is to inform you of a potential problem with the extrudate welding rods manufactured and supplied by GSE Lining Technology, Inc. (GSE) this year that are being used on the Year 2003 OSDF Phase V construction project in Cell 6 primary liner geomembrane installation. As you are aware, GeoSyntec Consultants (GeoSyntec) is performing construction quality assurance (CQA) monitoring services on the project. The potential problem was initially recognized on 10 September 2003 while reviewing CQA destructive test results of extrusion welds for the Cell 6 primary geomembrane liner. GeoSyntec notified Fluor Fernald of this issue, orally on 10 September 2003, and through a draft memorandum dated 11 September 2003.

The remainder of this memorandum is organized to present information regarding the extrusion-seam destructive test results; observations of extrusion seams and welding rods; potential problem with the welding rods; summary of analysis performed; seaming and observations with new welding rods; implications on completed extrusion seams not tested; and closure.

DESTRUCTIVE TEST RESULTS

Both fusion and extrusion welding of the geomembrane panels for the Cell 2 cap, Cell 6 secondary liner, and portion of the Cell 6 primary liner proceeded as would be normally expected for geomembrane seaming operations of this type. The seam destructive test failure rates were typical of the rates routinely observed on this project and within the industry in general (i.e., less than 8 to 10 percent failure rate). There were defects in the geomembrane panels that were addressed separately and these defects are not suspected of contributing to the current problem.

Extrusion welding of the remaining portion of the Cell 6 primary liner has resulted in an excessively high rate of failure. The number of destructive test failures increased when additional destructive testing on each side of failed seam test locations was performed to isolate failed seam test locations. Initial review of testing results indicates that, at each failed location, the shear and peel strengths of the tested specimens exceeded the minimum required values. In particular, the average peel strength of the five specimens exceeded the minimum required value of 84 lb/in.; however, the break code, per the test standard ASTM D 6392, indicated the mode of specimen rupture in the peel test was break due to lack of adhesion or break through the fillet weld. These break codes result in the test being interpreted as failure even when the seam strength is adequate. In summary, the seam strength is sufficient, but the mode of specimen rupture in peel is not satisfactory. This indicates that the behavior of the seams may not be adequate if they are subjected to peel stresses. Therefore, it is important to determine which of the seams are likely to be subjected to peel stresses in the field.

Extrudate welding rods manufactured and supplied by GSE in 2002 were used for extrusion welding of the Cell 2 cap geomembrane, Cell 6 secondary liner geomembrane, and the Cell 6 primary liner geomembrane on the eastern half of the Cell 6 and Cell 7 intercell berm. Extrudate welding rods manufactured and supplied by GSE in 2003 were used for the extrusion welding of the remaining portion of the Cell 6 primary liner geomembrane.

OBSERVATIONS OF EXTRUSION SEAMS AND WELDING RODS

Observations in both the testing laboratory and in the field indicate the presence of small voids in the actual extrudate fillet weld. These voids are not visible from the surface, but are visible only after grinding part of the extrudate. This revealed the presence of small voids both within the extrudate bead and at the contact between the extrudate bead and the geomembrane. However, there were no holes in the seams that would allow leakage through the liner. Different extrusion welding guns using the same welding rod produced similar results even when close observation of the welding confirmed the seam area was dry and clean. These observations along with testing results showing break due to lack of adhesion and break through the fillet weld seem to be indicative of a problem with the welding rods.

Field observation of the welding rod made by slicing into the welding rod with a razor knife revealed tiny holes or air bubbles trapped in the welding rod. These holes or bubbles should not exist in a HDPE welding rod manufactured to appropriate standards; therefore, the initial information collected after the problem was discovered implicates the welding rod as being the source of the problem.

The only available information on the welding rods supplied for the project was a certification statement from the manufacturer on the compatibility of the extrudate welding material with the geomembrane; this was required by the specifications. The certification statement indicated that "...HDPE welding rod is of the same type and has the same properties as the ... HDPE geomembranes to be supplied to this project." Since then, it is understood that Fluor Fernald has contacted GSE to obtain data and information on the welding rods manufactured for the OSDF Phase V construction project. It is also understood that two types of resins, both supplied by Chevron Phillips Chemical Company LP (Chevron Phillips), were used to manufacture the welding rods:

- The first resin, with Lot Number 8221322, had a density of 0.937 g/cc and a melt flow index of 0.08 g/10 min. This resin was used to produce the welding rods in January 2003.

- The second resin, with Lot Number 8221459, had a density of 0.937 g/cc and a melt flow index of 0.10 g/10 min. This resin was used to produce the welding rods in April 2003.

It should be noted that the geomembrane rolls manufactured for the OSDF Phase V project were produced from resins, also supplied by Chevron Phillips, with lot numbers 8221454, 8221460, 8221511, 8221514, and 8221520. The second resin, with Lot Number 8221459, used to manufacture the welding rods falls within the resin lot numbers used to manufacture the geomembrane rolls.

POTENTIAL PROBLEM WITH THE WELDING RODS

The manufacturing process for welding rods may not include as much quality control and testing as routinely conducted during the manufacture of geomembrane rolls. Since the manufacturing process may include exposure to high humidity conditions or cooling by water, it may be possible to entrap water in the welding rod during the manufacturing process. Water or some other condition may have resulted in production of welding rods that are defective. Therefore, the investigation of the quality of the welding rods required further analysis.

SUMMARY OF ANALYSIS PERFORMED

GeoSyntec collected samples of the welding rods from the two resin lots used to manufacture the welding rods. These samples were shipped to Golder Associates Testing Laboratory, Atlanta, Georgia for density and melt flow index testing. The density testing (ASTM D 1505) was conducted on the samples before and after melting. The purpose of this dual approach was to find out whether any moisture or water vapor was trapped in the rod. A large amount of void space would result in a significant difference between the densities measured before and after melting, assuming the voids would be eliminated by melting. Test results indicate that the density values were: 0.946 g/cc (before melting) and 0.947 g/cc (after melting) for the welding rod manufactured

from resin Lot Number 8221322; and 0.946 g/cc (before melting) and 0.945 (after melting) for the welding rod manufactured from resin Lot Number 8221459. The very small differences between measured density values suggest that the percentage of any voids or air pockets within the rods is less than 0.1 percent, which may not have a significant impact on the rod. Also, the density values are comparable to the measured densities of the geomembrane rolls. It should be noted that these densities include the density of the carbon black and other additives that are typically added to the resin in the manufacturing of geomembrane rolls and welding rods.

The measured melt flow index values were 0.78 and 0.10 g/10 min. for the resin Lot Numbers 8221322 and 8221459, respectively. There is a significant difference between these two melt flow indexes. Also the 0.78 g/10 min. value is much different from the supplier's reported value of 0.08 g/10 min. for resin Lot Number 8221322. A resin with a high melt flow index would typically cause the extrudate to purge quickly through the welding gun and, therefore, may not provide adequate bonding to the liner.

Also, the resins used to manufacture the geomembrane rolls had melt flow index values that ranged from 0.07 to 0.10 g/10 min. for the different lots. The measured melt flow index of 0.78 g/10 min. for the welding rod from resin Lot Number 8221322 meets the specifications. However, it is significantly different from the geomembrane resin melt flow index values, which could be interpreted as a risk of incompatibility between the rod and geomembrane. This type of incompatibility could also have caused the problems with the extrusion seams.

It is possible that the large difference in melt flow index may have contributed to the mode of rupture in the peel test more than the small voids in the extrudate. A detailed investigation would be required to determine the cause of the observed problem. To that end, GeoSyntec recommends that samples of the suspect welding rods be archived and samples sent to the laboratory for other appropriate testing, such as oxidative induction time (ASTM D 3895 or ASTM D 5885). Additionally, welding rods should be inspected by using a methodology such as x-ray to confirm the presence of voids or perhaps moisture.

GSE should be provided with information on the current situation, and allowed to perform any testing or analysis they wish to perform. GSE should also be asked to provide any insight they may have regarding further analysis to help identify and resolve the problem.

SEAMING AND OBSERVATIONS WITH NEW WELDING RODS

GeoSyntec understands that GSE was contacted by Fluor Fernald on 11 September 2003 and agreed to immediately ship new welding rods to the site to avoid the continued use of suspect welding rods. These new welding rods were received on site on 12 and 15 September, and are believed to be manufactured from a resin, also supplied by Chevron Phillips, with Lot Number 8230630. This resin had a density of 0.938 g/cc and melt flow index of 0.09 g/10 min. Density and melt flow index testing performed on a sample of the rod resulted in the following values: 0.945 g/cc (before melting) and 0.947 g/cc (after melting), and 0.09 g/10 min., respectively. The rod melt flow index compares favorably with that of the resin used in the geomembrane.

GeoSyntec performed the same investigation with the new welding rods that it had performed with the suspect welding rods previously supplied by GSE this year, i.e., slicing into new welding rods, and grinding the extrudate of trial seams made with the new welding rods. The examination did not reveal the presence of small voids in the rods or inside the seams. Also, destructive tests performed on samples collected from the seams done with new welding rods to date have passed both field and laboratory testing. In particular, the peel tests showed no breaks due to lack of adhesion or breaks through the fillet weld.

Based on the observations with the new extrudate welding rods described above, GeoSyntec concludes that the problems encountered during the extrusion-seam welding of the Cell 6 primary geomembrane liner were primarily due to the welding rods, as was initially suspected.

IMPLICATIONS ON COMPLETED EXTRUSION SEAMS NOT TESTED

Destructive seam testing is conducted to randomly evaluate the strength and integrity of seams (both double-track fusion seams and extrusion seams) to confirm that the production seams are in accordance with the specifications. For the Cell 6 primary geomembrane liner, extrusion seams were generally used to repair: (i) failed double-track fusion seams by capping; (ii) destructive-seam test locations by patching or capping; (iii) T-seams; (iv) failed non-destructively tested seams by patching or capping; and (v) small holes, tears, impact damage and other minor scratches on the geomembrane panel by patching or spot-extruding with a bead. In addition, extrusion seams were used to weld the geomembrane to the liner penetration boxes.

Based on the preliminary evaluation reported in this memorandum, the extrudate welding rods previously supplied this year may have created substandard extrusion-welded seams. However, GeoSyntec recommends that only certain seams be repaired. This recommendation is based on the fact that repairing other seams would not be necessary, and may even be detrimental. This is further discussed below.

GeoSyntec recommends that repairs be made to the relatively long (7 ft or greater) capped seams, and seams at locations with potential stress concentrations, such as the tie-in to the liner penetration boxes, grade breaks, steep slopes, and toe of slopes. The location of these seams is shown on the attached sketch. In fact, this recommendation is currently being implemented. The rationale for repairing these seams is: (i) due to their length and/or location, these seams could be exposed to tensile stresses and/or wrinkles that could induce peel stresses in the seams; and (ii) capping these seams and performing destructive tests on the cap seams would confirm compliance of the production seams with the Technical Specifications and CQA Plan.

The remaining suspect extrusion seams include patches at destructive test locations, T-seams and patches for small holes, tears, etc., which are small in dimension and are located on the bottom (2 percent slopes) or on the 4H:1V side slopes of the cell (see attached sketch). These seams are not likely to be subjected to tensile stresses or large wrinkles that could cause peel stresses and affect seam integrity. Therefore, GeoSyntec

recommends against repairing these seams. Furthermore, repairing these seams would be detrimental to the strength of the liner because some of the repairs would require capping, which results in more than doubling the length of the original seam. "Since seams are typically weaker than the parent geomembrane, increasing the seam length weakens the geomembrane liner", as pointed out by Giroud et al. (1993) in a paper used as introduction to the 1994 *GFR Specifier's Guide*. This paper describes the weakening of geomembrane liners resulting from excessive zeal in replacing seams that are slightly below standards. Essentially, the paper presents a case history showing that it is not wise to replace one seam slightly below standards by two seams that meet standards. Furthermore, there is the potential that repairing some seams by reseaming at the same location could be detrimental to the long-term performance of the geomembrane by inducing additional temperature cycles to the geomembrane polymer. Therefore, it is important to limit repairs to areas where they are necessary.

The above discussion of the various factors that affect seam performance and longevity shows that the extrusion seams that are not repaired can be expected to have a performance and longevity similar to those of the large seams that are repaired. Also, it is important to note that the seams that were completed with the suspect welding rods have three characteristics that confirm that their performance and longevity can be expected to be satisfactory: (i) their average shear and peel strengths exceed the minimum required values, as shown by destructive test results; (ii) the continuity of these seams has been verified through vacuum-box testing; and (iii) electrical leak location survey of the entire liner has shown that there were no leaks in these seams.

Finally, wrinkles, which could be detrimental to seam performance, will be minimized, for the reasons that follow. The primary geomembrane liner will be overlain by a 10-oz/yd^2 geotextile cushion layer prior to placement of the overlying LCS granular drainage layer material. The geotextile cushion layer should help to reduce the risk of wrinkle development during placement of the drainage layer, as the material being placed will not be pushed directly in contact with the geomembrane. It is also recommended that the CQA personnel perform close monitoring of suspect locations during placement of the granular layer to check that the operation of construction equipment does not result in unacceptable wrinkles.

CLOSURE

Extrusion welding rods manufactured and supplied by GSE in 2002 were used for extrusion welding of the Cell cap geomembrane, Cell 6 secondary liner geomembrane, and part of the Cell 6 primary liner geomembrane (see attached sketch) with no major problems. However, problems with the extrusion seams occurred during the installation of most of the Cell 6 primary liner geomembrane, when the extrudate welding rods manufactured and supplied by GSE in 2003 were used. It is recommended to repair suspect extrusion seams except small seams that include patches at destructive test locations, T-seams and patches for small holes, tears, etc. It has been shown that repairing these seams is not necessary, and would even be detrimental.

It is understood that the suspect welding rods have been taken out of the system and tagged to avoid use until further analysis is complete. GeoSyntec is in full agreement with this action. GeoSyntec requests confirmation from Fluor Fernald that the procedures and recommendations described above are acceptable and would meet the requirements of the project.

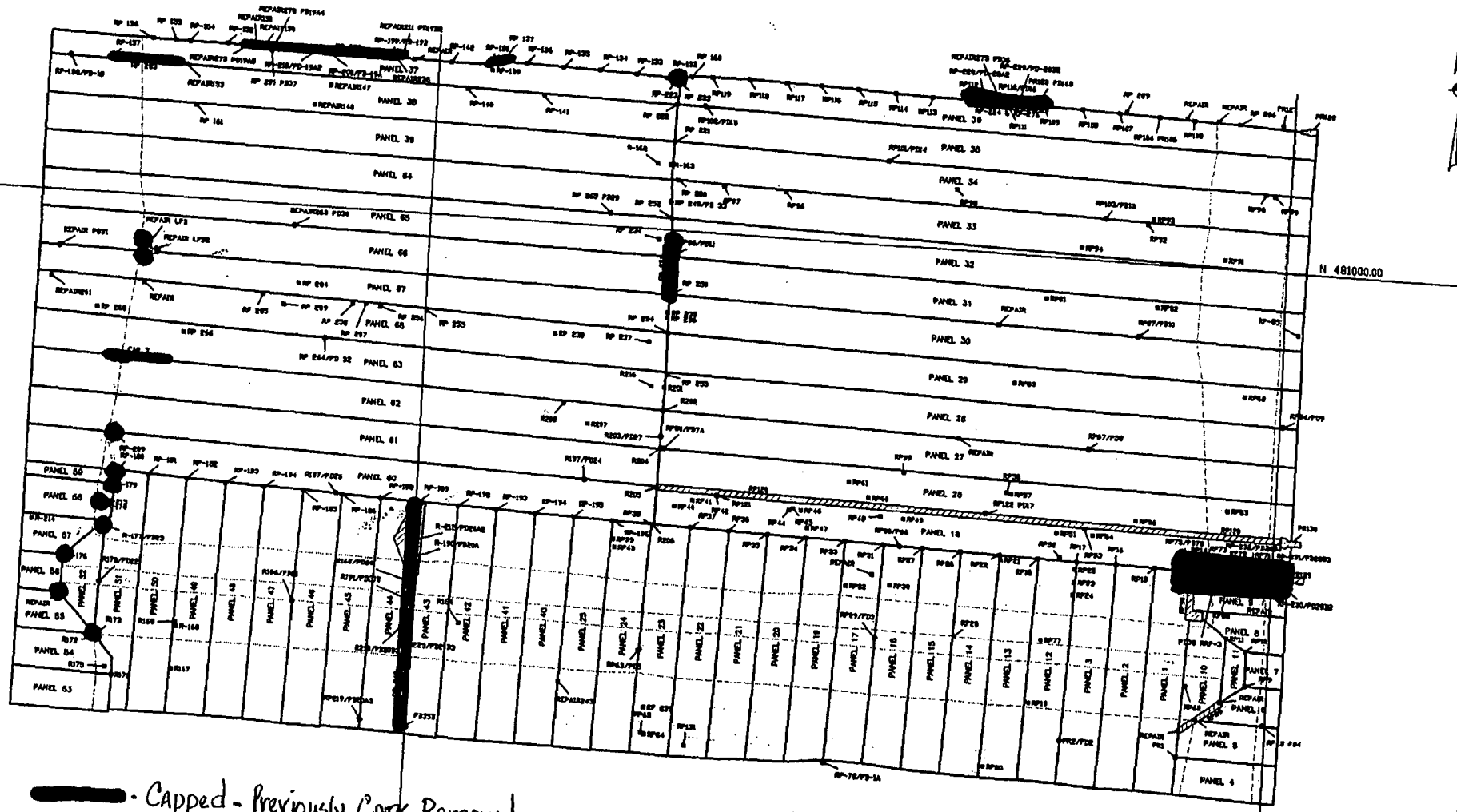
This memorandum, including the recommendations, was prepared with input and review from Dr. J.P. Giroud, Consulting Engineer, JP Giroud, Inc. of Ocean Ridge, Florida. The memorandum was also reviewed by Dr. Rudy Bonaparte, P.E., of GeoSyntec.

Please contact either of the authors of this memorandum if you have questions, additional guidance, or if you need additional information.

* * * * *

REFERENCE

Giroud, J.P., Luettich, S.M., and Charron, R.M., 1993, "Specify, Don't Overspecify", *1994 Specifier's Guide, Geotechnical Fabrics Report*, Vol. 11, No. 9, December 1993, pp. 4, 6, 8, 9-10.



- Capped - Previously Caps Removed
- — Repairs (Re-Welded with New Rod) 8230630 Resin Lot
- Area Not suspected of Rod problems

000447

5367

TECUMSEH SURVEYING, INC.
4948 CINCINNATI-BROOKVILLE ROAD
SHANDON, OHIO 45013
TELEPHONE: 513 738-2134

FLUOR FERNALD, INC.
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
OSDF CELL 6

REVISIONS:

Date: 6-22-2003
Scale: 1" = 30'

CELL 6 PRIMARY GEOSYNTHETIC LINER

1 OF 1

M E M O R A N D U M

TO: Mr. Thomas M. Beasley
OSDF Construction Manager
Fluor Fernald, Inc.

FROM: Kwasi Badu-Tweneboah KBT
GeoSyntec Consultants

DATE: 14 October, 2003

SUBJECT: Approval of LCS Drainage Layer
Phase V - Cell 6 Liner System Construction
On-Site Disposal Facility (OSDF)
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) Construction Quality Control (CQC) has periodically monitored the placement of the leachate collection system (LCS) drainage layer on the floor and slopes of Cell 6, including the Cell 6/Cell 7 intercell berm. GeoSyntec CQC has also reviewed the Contractor's survey certification data on the top of the Cell 6 LCS drainage layer, including Cell 6/7 intercell berm, in accordance with Sections 02100, 02710 and 02714 of the Technical Specifications and Section 6.5 of the Construction Quality Assurance (CQA) Plan.

GeoSyntec CQC personnel have completed periodic monitoring of the placement and compaction of the LCS drainage layer on the floor and slopes of the Cell 6 liner system in accordance with the requirements of the CQA Plan. The LCS drainage layer material, drainage corridor material, and perforated pipes were placed or installed in compliance with Section 02710 and Section 6.5 of the Technical Specifications and the CQA Plan, respectively. Documentation on the construction of the LCS drainage layer on the floor and slopes of Cell 6 are presented in the Daily Field Reports and Monitoring Forms, and will be included in the Final Report for Phase V – Cell 6 liner system construction.

GQ3211-01/CELL6LCS.DOC

The top of the LCS drainage layer on the floor and slopes of Cell 6 has been surveyed and certified by Tecumseh Surveying, Inc. (Tecumseh) of Shandon, Ohio, the surveyor for the Phase IV2 and Phase V construction projects. The survey certification data have been reviewed by GeoSyntec and found to be within the tolerance of +0.0 to +0.1 feet of the thicknesses indicated on the Construction Drawings and required by Section 02710 of the Technical Specifications.

Based on the information presented above, GeoSyntec concludes that the top of the LCS drainage layer on the floor and slopes of Cell 6, including the Cell 6/7 intercell berm, is acceptable and ready for installation of the overlying LCS geotextile filter, backfilling of the anchor trench, and construction of the protective clay layer (i.e. clay wedge). During backfilling of the anchor trench, care should be taken to prevent entrapment of air underneath the primary liner geomembrane, and thereby minimize wrinkles developing at the crest of the perimeter berm.

Should you have any questions on the information presented above, please do not hesitate to contact the author of this memorandum.

Copies to:
Chuck VanArsdale, Fluor Fernald, Inc.
G. Mike Stumbo, Fluor Fernald, Inc.
Reinhard Friske, Fluor Fernald, Inc.
Don A. Pfister, Department of Energy
Collin Sukow, GeoSyntec CQC

* * * * *

GQ3211-01/CELL6LCS.DOC

M E M O R A N D U M

TO: Mr. Thomas M. Beasley
OSDF Construction Manager
Fluor Fernald, Inc.

FROM: Kwasi Badu-Tweneboah KBT
GeoSyntec Consultants

DATE: 14 October, 2003

SUBJECT: Approval of LDS Drainage Layer
Phase V - Cell 6 Liner System Construction
On-Site Disposal Facility (OSDF)
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) Construction Quality Control (CQC) periodically monitored the placement of the leak detection system (LDS) drainage layer. GeoSyntec CQC also reviewed the Contractor's survey certification data on the top of the Cell 6 LDS drainage layer, including Cell 6/7 intercell berm, in accordance with Sections 02100, 02710 and 02772 of the Technical Specifications and Section 6.5 of the Construction Quality Assurance (CQA) Plan.

GeoSyntec CQC personnel completed periodic monitoring of the placement and compaction of the LDS drainage layer on the floor and slopes of the Cell 6 liner system in accordance with the requirements of the CQA Plan. The LDS drainage layer material, drainage corridor material, and perforated pipes were placed or installed in compliance with Section 02710 and Section 6.5 of the Technical Specifications and the CQA Plan, respectively. Documentation on the construction of the LDS drainage layer on the floor and slopes of Cell 6 are presented in the Daily Field Reports and Monitoring Forms, and will be included in the Final Report for Phase V – Cell 6 liner system construction.

GQ3211-01/CELL6LDS.DOC

The top of the LDS drainage layer on the floor and slopes of Cell 6 was surveyed and certified by Tecumseh Surveying, Inc. (Tecumseh) of Shandon, Ohio, the surveyor for the Phase IV2 and Phase V construction projects. The survey certification data were reviewed by GeoSyntec and Fluor Fernald Engineering, and were found to be within the tolerance of +0.0 to +0.1 feet of the thicknesses indicated on the Construction Drawings and required by Section 02710 of the Technical Specifications.

Based on the information presented above, GeoSyntec concluded that the top of the LDS drainage layer on the floor and slopes of Cell 6, including the Cell 6/7 intercell berm, was acceptable and ready for installation of the overlying geosynthetic clay liner (GCL). A verbal approval was given to representatives from Fluor Fernald prior to deployment of the primary liner GCL and geomembrane.

Should you have any questions on the information presented above, please do not hesitate to contact the author of this memorandum.

Copies to:
Chuck VanArsdale, Fluor Fernald, Inc.
G. Mike Stumbo, Fluor Fernald, Inc.
Reinhard Friske, Fluor Fernald, Inc.
Don A. Pfister, Department of Energy
Collin Sukow, GeoSyntec CQC

* * * * *

GQ3211-01/CELL6LDS.DOC

M E M O R A N D U M

TO: Mr. Thomas M. Beasley
OSDF Construction Manager
Fluor Fernald, Inc.

FROM: Kwasi Badu-Tweneboah
GeoSyntec Consultants

DATE: 14 October, 2003

SUBJECT: Approval of Compacted Clay Liner
Phase V - Cell 6 Liner System Construction
On-Site Disposal Facility (OSDF)
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) Construction Quality Control (CQC) completed performance testing and verification of Contractor's survey results of the floor and slopes of Cell 6, including Cell 6/7 intercell berm, in accordance with Sections 02225 and 02772 of the Technical Specifications and Section 6.4 of the Construction Quality Assurance (CQA) Plan.

GeoSyntec CQC personnel completed monitoring of the placement, compaction, and performance testing of lifts of the compacted clay liner in the floor and slopes of the Cell 6 liner system in accordance with the requirements of the CQA Plan. The clay liner was placed and compacted within the acceptable permeability zone (APZ) of each clay liner stockpile in compliance with Section 02225 and Section 6.4 of the Technical Specifications and the CQA Plan, respectively. Documentation on the compacted clay liner placement, compaction, and testing on the floor and slopes of Cell 6 are presented in the Daily Field Reports and Monitoring Forms, and will be included in the Final Report for Phase V – Cell 6 liner system construction.

GQ3211-01/CELL6CCL.DOC

The compacted clay liner on the floor and slopes of Cell 6 was surveyed and certified by Tecumseh Surveying, Inc. (Tecumseh) of Shandon, Ohio, the surveyor for the Phase IV2 and Phase V construction projects. The survey certification data were reviewed by GeoSyntec Fluor Fernald Engineering, and were found to be within the tolerance of –0.2 to +0.2 feet of the grades, and within +0.00 to +0.3 feet of the thicknesses, indicated on the Construction Drawings and required by Section 02225 of the Technical Specifications.

Based on the information presented above, GeoSyntec concluded that the compacted clay liner on the floor and slopes of Cell 6, including the Cell 6/7 intercell berm, was acceptable and ready for installation of the overlying secondary liner geosynthetics. A verbal approval was given to representatives from Fluor Fernald prior to deployment of the geosynthetic clay liner and geomembrane.

Should you have any questions on the information presented above, please do not hesitate to contact the author of this memorandum.

Copies to:
Chuck VanArsdale, Fluor Fernald, Inc.
G. Mike Stumbo, Fluor Fernald, Inc.
Reinhard Friske, Fluor Fernald, Inc.
Don A. Pfister, Department of Energy
Collin Sukow, GeoSyntec CQC

* * * * *

GQ3211-01/CELL6CCL.DOC

M E M O R A N D U M

TO: Mr. Thomas M. Beasley
OSDF Construction Manager
Fluor Fernald, Inc.

FROM: Kwasi Badu-Tweneboah KBT
GeoSyntec Consultants

DATE: 15 October, 2003

SUBJECT: Conformance Check Survey of Top of Topsoil Layer
Phase IV2 - Cell 2 Final Cover Construction
On-Site Disposal Facility (OSDF)
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) Construction Quality Control (CQC) completed the periodic monitoring on the placement of the topsoil layer on the Cell 2 final cover. GeoSyntec CQC also reviewed the Contractor's survey certification data on the top of topsoil layer on the Cell 2 final cover in accordance with Sections 02100 and 02920 of the Technical Specifications.

GeoSyntec CQC personnel have completed periodic monitoring of the placement of the topsoil layer on the Cell 2 final cover system in accordance with the requirements of the Construction Quality Assurance (CQA) Plan. The topsoil was placed in compliance with Section 02920 of the Technical Specifications and the CQA Plan. Documentation on the construction of the topsoil layer are presented in the Daily Field Reports and Monitoring Forms, and will be included in the Final Report for Phase IV2 – Cell 2 final cover system construction.

GQ3211-01/CELL2TOPSOIL.DOC

The top of the topsoil layer on the Cell 2 final cover was surveyed and certified by Tecumseh Surveying, Inc. (Tecumseh) of Shandon, Ohio, the surveyor for the Phase IV2 and Phase V construction projects. The survey certification data were reviewed by GeoSyntec and Fluor Fernald Engineering, and were found to be within the grade tolerance of 0.0 to +0.5 feet and thickness tolerance of -0.1 to +0.1 feet indicated on the Construction Drawings and required by Section 02920 of the Technical Specifications.

Based on the information presented above, GeoSyntec concluded that the top of the topsoil layer on the Cell 2 final cover was acceptable and ready for seeding and installation of the erosion mat.

Should you have any questions on the information presented above, please do not hesitate to contact the author of this memorandum.

Copies to:

Chuck VanArsdale, Fluor Fernald, Inc.
G. Mike Stumbo, Fluor Fernald, Inc.
Reinhard Friske, Fluor Fernald, Inc.
Don A. Pfister, Department of Energy
Collin Sukow, GeoSyntec CQC

* * * * *

GQ3211-01/CELL2TOPSOIL.DOC

M E M O R A N D U M

TO: Mr. Thomas M. Beasley
OSDF Construction Manager
Fluor Fernald, Inc.

FROM: Kwasi Badu-Tweneboah KBT
GeoSyntec Consultants

DATE: 15 October, 2003

SUBJECT: Conformance Check Survey of Top of Vegetative Soil Layer
Phase IV2 - Cell 2 Final Cover Construction
On-Site Disposal Facility (OSDF)
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) Construction Quality Control (CQC) completed the periodic monitoring and performance testing of the vegetative soil layer on the Cell 2 final cover. GeoSyntec CQC also reviewed the Contractor's survey certification data on the top of vegetative soil layer on the Cell 2 final cover in accordance with Sections 02100, 02250, and 02920 of the Technical Specifications.

GeoSyntec CQC personnel have completed periodic monitoring of the placement and compaction and the performance testing of compacted lifts of the vegetative soil layer on the Cell 2 final cover system in accordance with the requirements of the Construction Quality Assurance (CQA) Plan. The vegetative soil layer was placed and compacted in compliance with Section 02250 of the Technical Specifications and the CQA Plan. Documentation on the construction of the vegetative soil layer are presented in the Daily Field Reports and Monitoring Forms, and will be included in the Final Report for Phase IV2 – Cell 2 final cover system construction.

GQ3211-01/CELL2VEGETATIVESOIL.DOC

The top of the vegetative soil layer on the Cell 2 final cover was surveyed and certified by Tecumseh Surveying, Inc. (Tecumseh) of Shandon, Ohio, the surveyor for the Phase IV2 and Phase V construction projects. The survey certification data were reviewed by GeoSyntec and Fluor Fernald Engineering, and were found to be within the tolerance of -0.1 to +0.1 feet of the thicknesses indicated on the Construction Drawings and required by Section 02712 of the Technical Specifications.

Based on the information presented above, GeoSyntec concluded that the top of the vegetative soil layer on the Cell 2 final cover was acceptable and ready for placement of the overlying topsoil.

Should you have any questions on the information presented above, please do not hesitate to contact the author of this memorandum.

Copies to:
Chuck VanArsdale, Fluor Fernald, Inc.
G. Mike Stumbo, Fluor Fernald, Inc.
Reinhard Friske, Fluor Fernald, Inc.
Don A. Pfister, Department of Energy
Collin Sukow, GeoSyntec CQC

* * * * *

GQ3211-01/CELL2VEGETATIVESOIL.DOC

M E M O R A N D U M

TO: Mr. Thomas M. Beasley
OSDF Construction Manager
Fluor Fernald, Inc.

FROM: Kwasi Badu-Tweneboah KBT
GeoSyntec Consultants

DATE: 15 October, 2003

SUBJECT: Conformance Check Survey of Top of Granular Filter Material
Phase IV2 - Cell 2 Final Cover Construction
On-Site Disposal Facility (OSDF)
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) Construction Quality Control (CQC) periodically monitored the placement of the granular filter material on the Cell 2 final cover. GeoSyntec CQC also reviewed the Contractor's survey certification data on the top of granular filter material on the Cell 2 final cover in accordance with Sections 02100, 02250, and 02712 of the Technical Specifications.

GeoSyntec CQC personnel have completed periodic monitoring of the placement and compaction of the granular filter material on the slopes of the Cell 2 final cover system in accordance with the requirements of the Construction Quality Assurance (CQA) Plan. The granular filter material was placed and compacted in compliance with Section 02712 and Section 6.5 of the Technical Specifications and the CQA Plan, respectively. Documentation on the construction of the granular filter material are presented in the Daily Field Reports and Monitoring Forms, and will be included in the Final Report for Phase IV2 – Cell 2 final cover system construction.

GQ3211-01/CELL2GRANULARFILTER.DOC

The top of the granular filter material on the Cell 2 final cover was surveyed and certified by Tecumseh Surveying, Inc. (Tecumseh) of Shandon, Ohio, the surveyor for the Phase IV2 and Phase V construction projects. The survey certification data were reviewed by GeoSyntec and Fluor Fernald Engineering, and were found to be within the tolerance of 0.0 to +0.1 feet of the thicknesses indicated on the Construction Drawings and required by Section 02712 of the Technical Specifications.

Based on the information presented above, GeoSyntec concluded that the top of the granular filter material on the Cell 2 final cover was acceptable and ready for placement of the overlying vegetative soil layer.

Should you have any questions on the information presented above, please do not hesitate to contact the author of this memorandum.

Copies to:
Chuck VanArsdale, Fluor Fernald, Inc.
G. Mike Stumbo, Fluor Fernald, Inc.
Reinhard Friske, Fluor Fernald, Inc.
Don A. Pfister, Department of Energy
Collin Sukow, GeoSyntec CQC

* * * * *

GQ3211-01/CELL2GRANULARFILTER.DOC

M E M O R A N D U M

TO: Mr. Thomas M. Beasley
OSDF Construction Manager
Fluor Fernald, Inc.

FROM: Kwasi Badu-Tweneboah
GeoSyntec Consultants

DATE: 15 October, 2003

SUBJECT: Conformance Check Survey of Top of Biointrusion Barrier Layer
Phase IV2 - Cell 2 Final Cover Construction
On-Site Disposal Facility (OSDF)
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) Construction Quality Control (CQC) periodically monitored the placement of the biointrusion barrier and choke stone layer material(s) on the Cell 2 final cover. GeoSyntec CQC also reviewed the Contractor's survey certification data on the top of biointrusion barrier layer on the Cell 2 final cover in accordance with Sections 02100, 02280 and 02712 of the Technical Specifications.

GeoSyntec CQC personnel have completed periodic monitoring of the placement and compaction of the biointrusion barrier layer on the slopes of the Cell 2 final cover system in accordance with the requirements of the Construction Quality Assurance (CQA) Plan. The biointrusion barrier layer was placed and compacted in compliance with Section 02280 and Section 6.5 of the Technical Specifications and the CQA Plan, respectively. Documentation on the construction of the biointrusion barrier layer are presented in the Daily Field Reports and Monitoring Forms, and will be included in the Final Report for Phase IV2 – Cell 2 final cover system construction.

GQ3211-01/CELL2BIOINTRUSION.DOC

The top of the biointrusion barrier layer on the Cell 2 final cover was surveyed and certified by Tecumseh Surveying, Inc. (Tecumseh) of Shandon, Ohio, the surveyor for the Phase IV2 and Phase V construction projects. The survey certification data were reviewed by GeoSyntec and Fluor Fernald Engineering, and were found to be within the tolerance of -0.1 to +0.3 feet of the thicknesses indicated on the Construction Drawings and required by Section 02280 of the Technical Specifications.

Based on the information presented above, GeoSyntec concluded that the top of the biointrusion barrier layer on the Cell 2 final cover was acceptable and ready for placement of the overlying granular filter layer.

Should you have any questions on the information presented above, please do not hesitate to contact the author of this memorandum.

Copies to:
Chuck VanArsdale, Fluor Fernald, Inc.
G. Mike Stumbo, Fluor Fernald, Inc.
Reinhard Friske, Fluor Fernald, Inc.
Don A. Pfister, Department of Energy
Collin Sukow, GeoSyntec CQC

* * * * *

GQ3211-01/CELL2BIOINTRUSION.DOC

M E M O R A N D U M

TO: Mr. Thomas M. Beasley
OSDF Construction Manager
Fluor Fernald, Inc.

FROM: Kwasi Badu-Tweneboah KBT
GeoSyntec Consultants

DATE: 15 October, 2003

SUBJECT: Conformance Check Survey of Top of Cover Drainage Layer
Phase IV2 - Cell 2 Final Cover Construction
On-Site Disposal Facility (OSDF)
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) Construction Quality Control (CQC) periodically monitored the placement of the cover drainage layer material on the Cell 2 final cover. GeoSyntec CQC also reviewed the Contractor's survey certification data on the top of cover drainage layer on the slopes of the Cell 2 final cover in accordance with Sections 02100, 02710 and 02280 of the Technical Specifications.

GeoSyntec CQC personnel have completed periodic monitoring of the placement and compaction of the cover drainage layer on the slopes of the Cell 2 final cover system in accordance with the requirements of the Construction Quality Assurance (CQA) Plan. The cover drainage layer was placed and compacted in compliance with Section 02710 and Section 6.5 of the Technical Specifications and the CQA Plan, respectively. Documentation on the construction of the cover drainage layer are presented in the Daily Field Reports and Monitoring Forms, and will be included in the Final Report for Phase IV2 – Cell 2 final cover system construction.

GQ3211-01/CELL2COVERDRAINAGE.DOC

The top of the cover drainage layer on the slopes of the Cell 2 final cover was surveyed and certified by Tecumseh Surveying, Inc. (Tecumseh) of Shandon, Ohio, the surveyor for the Phase IV2 and Phase V construction projects. The survey certification data were reviewed by GeoSyntec and Fluor Fernald Engineering, and were found to be within the tolerance of +0.0 to +0.1 feet of the thicknesses indicated on the Construction Drawings and required by Section 02710 of the Technical Specifications.

Based on the information presented above, GeoSyntec concluded that the top of the cover drainage layer on the Cell 2 final cover was acceptable and ready for placement of the overlying biointrusion barrier layer.

Should you have any questions on the information presented above, please do not hesitate to contact the author of this memorandum.

Copies to:
Chuck VanArsdale, Fluor Fernald, Inc.
G. Mike Stumbo, Fluor Fernald, Inc.
Reinhard Friske, Fluor Fernald, Inc.
Don A. Pfister, Department of Energy
Collin Sukow, GeoSyntec CQC

* * * * *

GQ3211-01/CELL2COVERDRAINAGE.DOC

M E M O R A N D U M

TO: Mr. Thomas M. Beasley
OSDF Construction Manager
Fluor Fernald, Inc.

FROM: Kwasi Badu-Tweneboah KBT
GeoSyntec Consultants

DATE: 15 October, 2003

SUBJECT: Confirmation of Compliance of Compacted Clay Cap
Phase IV2 - Cell 2 Final Cover Construction
On-Site Disposal Facility (OSDF)
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) Construction Quality Control (CQC) completed performance testing and verification of Contractor's survey results of the Cell final cover compacted clay cap, in accordance with Sections 02225 and 02772 of the Technical Specifications and Section 6.4 of the Construction Quality Assurance (CQA) Plan.

GeoSyntec CQC personnel completed monitoring of the placement, compaction, and performance testing of lifts of the compacted clay cap for the Cell 2 final cover system in accordance with the requirements of the CQA Plan. The clay cap was placed and compacted within the acceptable permeability zone (APZ) of each clay liner/cap stockpile in compliance with Section 02225 and Section 6.4 of the Technical Specifications and the CQA Plan, respectively. Documentation on the compacted clay cap placement, compaction, and testing for the Cell 2 final cover are presented in the Daily Field Reports and Monitoring Forms, and will be included in the Final Report for Phase IV2 – Cell 2 final cover system construction.

GQ3211-01/CELL2CCC.DOC

The compacted clay cap on the Cell 2 final cover was surveyed and certified by Tecumseh Surveying, Inc. (Tecumseh) of Shandon, Ohio, the surveyor for the Phase IV2 and Phase V construction projects. The survey certification data were reviewed by GeoSyntec and Fluor Fernald Engineering, and were found to be within the tolerance of –0.2 to +0.2 feet of the grades, and within +0.00 to +0.3 feet of the thicknesses, indicated on the Construction Drawings and required by Section 02225 of the Technical Specifications.

Based on the information presented above, GeoSyntec concluded that the compacted clay cap for the Cell 2 final cover was acceptable and ready for installation of the overlying geosynthetics. A verbal approval was given to representatives from Fluor Fernald prior to deployment of the geosynthetic clay cap and geomembrane cap.

Should you have any questions on the information presented above, please do not hesitate to contact the author of this memorandum.

Copies to:
Chuck VanArsdale, Fluor Fernald, Inc.
G. Mike Stumbo, Fluor Fernald, Inc.
Reinhard Friske, Fluor Fernald, Inc.
Don A. Pfister, Department of Energy
Collin Sukow, GeoSyntec CQC

* * * * *

GQ3211-01/CELL2CCC.DOC

MEMORANDUM

To: Mr. Mike Stumbo and Don Goetz
Construction Management
Fluor Fernald

From: Collin P. Sukow
Site CQC Manager
GeoSyntec Consultants

Date: 20 October 2003

Subject: Conformance Sampling of the Cell 6 Spoils
Stockpile and clean fill stockpile SW of T-139
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) CQC has completed conformance samples from the Stockpiled spoils from the Cell 6 excavation and the stockpile of clean fill SW of T-139. The conformance testing was performed to confirm that the materials complied with section 02250 of the On Site Disposal Facility (OSDF) Phase IV Cell 2 Final Cover System Specifications.

Sample Nos. CF03-08, CF03-09, CF03-10 and CF03-11 were collected throughout the 2003 construction season. Conformance test results indicate the materials classify as either a lean clay with sand (CL) or sandy lean clay (CL). Section 02250 states CL, SC, and GC materials are suitable for placement as vegetative cover layer. Therefore, these materials comply with the specifications for vegetative cover.

Attachment

Copies to:
Uday Kumthekar, Fluor Fernald
Chuck VanArsdale, Fluor Fernald
Dave Phillips, GeoSyntec
Kwasi-Badu-Tweneboah, Geosyntec

Conformance Testing for Vegetative Cover
Cell 2 Phase IV

Sample Number	Liquid Limit %	Plastic Limit %	Plasticity Index	Passing #200 sieve %	Classification (USCS)	Stockpile Location
CF03-8	31	16	15	70.3	(CL) Lean Clay w/sand	Cell 6 excavated spoils
CF03-9	31	14	17	62.4	(CL) Sandy Lean Clay	Cell 6 excavated spoils
CF03-10	31	16	15	65.1	(CL) Sandy Lean Clay	Fill Stockpile SW of T-139
CF03-11	33	16	17	71.1	(CL) Lean Clay w/sand	Fill Stockpile SW of T-139

MEMORANDUM

To: Mr. Mike Stumbo and Don Goetz
Construction Management
Fluor Fernald

From: Collin P. Sukow
Site CQC Manager
GeoSyntec Consultants

Date: 27 October 2003

Subject: Conformance Sampling of Cell 7 Excavated Materials for Non-Impacted Protective Cover
Fernald Environmental Management Project

The purpose of this memorandum is to document that GeoSyntec Consultants (GeoSyntec) CQC has completed a conformance sample from the Cell 7 excavation. The conformance testing was performed to confirm that the material placed as non-impacted protective cover complied with section 02240 of the On Site Disposal Facility (OSDF) Phase IV Cell 2 Final Cover System Specifications.

Sample No. CF03-13 was collected as the material was excavated. Conformance test results indicate the material classifies as lean clay with sand (CL). Section 02240 states GC, SC, SM, ML, CL, or CH materials are suitable for placement as non-impacted protective cover. Therefore, this material complies with the specifications for non-impacted protective cover.

Attachment

Copies to:
Uday Kumthekar, Fluor Fernald
Chuck VanArsdale, Fluor Fernald
Dave Phillips, GeoSyntec
Kwasi-Badu-Tweneboah, Geosyntec

APPENDIX D

PERSONNEL LOGS

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GeoSyntec Consultants

FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3309 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 5-Jan-04

ITEM	REF ID	COMPANY	MON 1/5	TUES 1/6	WED 1/7	THURS 1/8	FRI 1/9	SAT 1/10	SUN 1/11
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec	MEDICAL LEAVE						
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓			
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 29-Dec-03

ITEM	REF ID	COMPANY	MON 12/29	TUES 12/30	WED 12/31	THURS 1/1	FRI 1/2	SAT 1/3	SUN 1/4
Kwasi Badu-Tweneboah	KBT	GeoSyntec		✓	✓	HOLIDAY	✓		
Collin Sukow	CS	GeoSyntec							
Tim Willis	TW	GeoSyntec	✓	✓	✓		✓		
Chris Walker	CW	GeoSyntec							
Rick Hastie	RH	GeoSyntec							
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓	✓	✓				
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓				
Sheila Abney	SA	GeoSyntec	✓	✓	✓				

GeoSyntec Consultants

FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 22-Dec-03

ITEM	REF ID	COMPANY	MON 12/22	TUES 12/23	WED 12/24	THURS 12/25	FRI 12/26	SAT 12/27	SUN 12/28
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓					
Collin Sukow	CS	GeoSyntec	✓						
Tim Willis	TW	GeoSyntec	✓	✓					
Chris Walker	CW	GeoSyntec	✓	✓					
Rick Hastie	RH	GeoSyntec							
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓						
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓					
Sheila Abney	SA	GeoSyntec	✓	✓					

HOLIDAY

HOLIDAY

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GeoSyntec Consultants

FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 22-Dec-03

ITEM	REF ID	COMPANY	MON 12/22	TUES 12/23	WED 12/24	THURS 12/25	FRI 12/26	SAT 12/27	SUN 12/28
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓					
Collin Sukow	CS	GeoSyntec	✓						
Tim Willis	TW	GeoSyntec	✓	✓					
Chris Walker	CW	GeoSyntec	✓	✓					
Rick Hastie	RH	GeoSyntec							
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓						
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓					
Sheila Abney	SA	GeoSyntec	✓	✓					

HOLIDAY

HOLIDAY

GeoSyntec Consultants

FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 15-Dec-03

ITEM	REF ID	COMPANY	MON 12/15	TUES 12/16	WED 12/17	THURS 12/18	FRI 12/19	SAT 12/20	SUN 12/21
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec		✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓				✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Rick Hastie	RH	GeoSyntec							
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓			✓			
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓		✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 8-Dec-03

ITEM	REF ID	COMPANY	MON 12/8	TUES 12/9	WED 12/10	THURS 12/11	FRI 12/12	SAT 12/13	SUN 12/14
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓				
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Rick Hastie	RH	GeoSyntec							
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec							
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 1-Dec-03

ITEM	REF ID	COMPANY	MON 12/1	TUES 12/2	WED 12/3	THURS 12/4	FRI 12/5	SAT 12/6	SUN 12/7
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓				
Collin Sukow	CS	GeoSyntec		✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓					
Rick Hastie	RH	GeoSyntec							
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓			
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 24-Nov-03

ITEM	REF ID	COMPANY	MON 11/24	TUES 11/25	WED 11/26	THURS 11/27	FRI 11/28	SAT 11/29	SUN 11/30
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓		HOLIDAY	HOLIDAY		
Collin Sukow	CS	GeoSyntec	✓	✓	✓				
Tim Willis	TW	GeoSyntec	✓	✓					
Chris Walker	CW	GeoSyntec	✓	✓					
Rick Hastie	RH	GeoSyntec							
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓	✓	✓				
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓				
Sheila Abney	SA	GeoSyntec	✓	✓					

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 17-Nov-03

ITEM	REF ID	COMPANY	MON 11/17	TUES 11/18	WED 11/19	THURS 11/20	FRI 11/21	SAT 11/22	SUN 11/23
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓		✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓	✓	✓
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Rick Hastie	RH	GeoSyntec							
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓	✓	✓
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 10-Nov-03

ITEM	REF ID	COMPANY	MON 11/10	TUES 11/11	WED 11/12	THURS 11/13	FRI 11/14	SAT 11/15	SUN 11/16
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓ HOLIDAY	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Rick Hastie	RH	GeoSyntec							
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 3-Nov-03

ITEM	REF ID	COMPANY	MON 11/3	TUES 11/4	WED 11/5	THURS 11/6	FRI 11/7	SAT 11/8	SUN 11/9
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Rick Hastie	RH	GeoSyntec	—	—	—	—	—		
Dave Evans	DE	GeoSyntec	—	—	—	—	—		
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec	—	—	—	—	—		
Steven Schaeffer	SS	GeoSyntec	✓	✓	—	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 27-Oct-03

ITEM	REF ID	COMPANY	MON 10/27	TUES 10/28	WED 10/29	THURS 10/30	FRI 10/31	SAT 11/1	SUN 11/2
Kwasi Badu-Tweneboah	KBT	GeoSyntec		✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓	✓	
Rick Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓	✓	.	✓	✓		
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓	✓	
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 20-Oct-03

ITEM	REF ID	COMPANY	MON 10/20	TUES 10/21	WED 10/22	THURS 10/23	FRI 10/24	SAT 10/25	SUN 10/26
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓			
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Rick Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓	✓	✓		✓		
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓		✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 13-Oct-03

ITEM	REF ID	COMPANY	MON 10/13	TUES 10/14	WED 10/15	THURS 10/16	FRI 10/17	SAT 10/18	SUN 10/19
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓	✓	
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓	✓	
Chris Walker	CW	GeoSyntec	✓			✓	✓	✓	
Rick Hastie	RH	GeoSyntec	✓	✓	✓	✓			
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓	✓	
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 6-Oct-03

ITEM	REF ID	COMPANY	MON 10/6	TUES 10/7	WED 10/8	THURS 10/9	FRI 10/10	SAT 10/11	SUN 10/12
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Rick Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓	✓		✓	✓		
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 29-Sep-03

ITEM	REF ID	COMPANY	MON 9/29	TUES 9/30	WED 10/1	THURS 10/2	FRI 10/3	SAT 10/4	SUN 10/5
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓		✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Rick Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓			
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓				
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 22-Sep-03

ITEM	REF ID	COMPANY	MON 9/22	TUES 9/23	WED 9/24	THURS 9/25	FRI 9/26	SAT 9/27	SUN 9/28
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓				
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec			✓		✓		
Rick Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec							
Brian Habermehl	BH	GeoSyntec		✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓			
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 15-Sep-03

ITEM	REF ID	COMPANY	MON 9/15	TUES 9/16	WED 9/17	THURS 9/18	FRI 9/19	SAT 9/20	SUN 9/21
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec							
Rick Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 8-Sep-03

ITEM	REF ID	COMPANY	MON 9/8	TUES 9/9	WED 9/10	THURS 9/11	FRI 9/12	SAT 9/13	SUN 9/14
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓		✓	✓	✓	✓	
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓	✓	
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec						✓	
Rick Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓	✓	
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 1-Sep-03

ITEM	REF ID	COMPANY	MON 9/1	TUES 9/2	WED 9/3	THURS 9/4	FRI 9/5	SAT 9/6	SUN 9/7
Kwasi Badu-Tweneboah	KBT	GeoSyntec	HOLIDAY	✓	✓	✓		✓	
Collin Sukow	CS	GeoSyntec		✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec		✓	✓	✓	✓	✓	
Chris Walker	CW	GeoSyntec		✓	✓	✓	✓	✓	
Rick Hastie	RH	GeoSyntec		✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec		✓	✓	✓	✓		
Brian Habermehl	BH	GeoSyntec		✓		✓	✓		
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec		✓	✓	✓			
Sheila Abney	SA	GeoSyntec		✓	✓	✓	✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 25-Aug-03

ITEM	REF ID	COMPANY	MON 8/25	TUES 8/26	WED 8/27	THURS 8/28	FRI 8/29	SAT 8/30	SUN 8/31
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓		✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Rick Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓			
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec							
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec		✓	✓		✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 18-Aug-03

ITEM	REF ID	COMPANY	MON 8/18	TUES 8/19	WED 8/20	THURS 8/21	FRI 8/22	SAT 8/23	SUN 8/24
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓		✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓						
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Rick Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec	✓	✓		✓	✓		
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ3211 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 11-Aug-03

ITEM	REF ID	COMPANY	MON 8/11	TUES 8/12	WED 8/13	THURS 8/14	FRI 8/15	SAT 8/16	SUN 8/17
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓						
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓	✓	
Rick Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec	✓	✓	✓	✓	✓		
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓		✓	✓	
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: WEEK BEGINNING: ~~4 Aug 03~~ 22 June 2003

ITEM	REF ID	COMPANY	MON 8/4	TUE 8/5	WED 8/6	THU 8/7	FRI 8/8	SAT 8/9	SUN 8/10
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓	✓	
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓	✓	
Dave Evans	DE	GeoSyntec	✓	✓	✓				
Ken Herrick	KH	GeoSyntec	✓	✓	✓	✓	✓	✓	
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓	✓	
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		
Richard Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓		
Steven Schaeffer	SS	GeoSyntec	✓	✓		✓	✓	✓	
PAV									

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: WEEK BEGINNING: 28-Jul-03

ITEM	REF ID	COMPANY	MON 7/28	TUE 7/29	WED 7/30	THU 7/31	FRI 8/1	SAT 8/2	SUN 8/3
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓			
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓	✓	
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec	✓	✓			✓	✓	
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓				
Richard Hastie	RH	GeoSyntec	✓	✓	✓		✓		
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓		✓	

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: WEEK BEGINNING: 21-Jul-03

ITEM	REF ID	COMPANY	MON 7/21	TUES 7/22	WED 7/23	THURS 7/24	FRI 7/25	SAT 7/26	SUN 7/27
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓	✓	
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓	✓	
Tim Willis	TW	GeoSyntec	✓	✓					
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓	✓	
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec	✓	✓	✓	✓	✓		
Brian Habermehl	BH	GeoSyntec	✓	✓	✓		✓	✓	✓
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		
Richard Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓		
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓	✓	
Dave Phillips	DP						✓	✓	

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: WEEK BEGINNING: 14-Jul-03

ITEM	REF ID	COMPANY	MON 7/14	TUES 7/15	WED 7/16	THURS 7/17	FRI 7/18	SAT 7/19	SUN 7/20
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓			
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec	✓	✓	✓	✓	✓		
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		
Richard Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓		
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓		

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FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: WEEK BEGINNING: 7-Jul-03

ITEM	REF ID	COMPANY	MON 7/7	TUES 7/8	WED 7/9	THURS 7/10	FRI 7/11	SAT 7/12	SUN 7/13
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓	✓	
Collin Sukow	CS	GeoSyntec	✓	[redacted]	✓	✓	✓	✓	✓
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓	✓	✓
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓	✓	✓
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓			
Ken Herrick	KH	GeoSyntec	✓	✓	✓	✓	—	✓	
Brian Habermehl	BH	GeoSyntec	✓	✓			✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		
Richard Hastie (BH)	RH	GeoSyntec	✓	✓	✓	✓	✓	✓	✓
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓		✓	✓	✓

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT:	ON-SITE DISPOSAL FACILITY (OSDF)		
LOCATION:	FERNALD, OHIO	PROJECT NO.: GQ3211	TASK NO.: 04
DESCRIPTION:		WEEK BEGINNING:	30-Jun-03

ITEM	REF ID	COMPANY	MON 6/30	TUES 7/1	WED 7/2	THURS 7/3	FRI 7/4	SAT 7/5	SUN 7/6
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓			
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓			
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓			
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓			
Dave Evans	DE	GeoSyntec	✓	✓					
Ken Herrick	KH	GeoSyntec	✓	✓	✓	✓			
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓			
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓			
Richard Hastie	RH	GeoSyntec	✓	✓	✓	✓			
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓			

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: WEEK BEGINNING: 23-Jun-03

ITEM	REF ID	COMPANY	MON 6/23	TUES 6/24	WED 6/25	THURS 6/26	FRI 6/27	SAT 6/28	SUN 6/29
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓			
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓	✓	✓
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓	✓	
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓	✓	✓
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓	✓	
Ken Herrick	KH	GeoSyntec		✓	✓	✓	✓		
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		
Richard Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓	✓	
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓	✓	

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ3211 TASK NO.: 04
DESCRIPTION: WEEK BEGINNING: 16-Jun-03

ITEM	REF ID	COMPANY	MON 6/16	TUES 6/17	WED 6/18	THURS 6/19	FRI 6/20	SAT 6/21	SUN 6/22
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓	✓	
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓	✓	✓
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓	✓	
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓	✓	✓
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec	✓	✓	✓	✓			
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		
Richard Hastie	RH	GeoSyntec	✓	✓	✓	✓	✓	✓	✓
Steven Schaeffer	SS	GeoSyntec	✓	✓	✓	✓	✓		

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV & V CONSTRUCTION WEEK BEGINNING: 9-Jun-03

ITEM	REF ID	COMPANY	MON 6/9	TUES 6/10	WED 6/11	THURS 6/12	FRI 6/13	SAT 6/14	SUN 6/15
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓				
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓			
Ken Herrick	KH	GeoSyntec	✓	✓	✓	✓	✓		
Steven Schaeffer ~~Ken Sparks~~	SS ~~KS~~	GeoSyntec	✓	✓	✓	✓	✓		
Brian Habermehl	BH	GeoSyntec	✓	✓	✓				
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓			
Rick Hastie	RH		✓	✓	✓	✓	✓		

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV & V CONSTRUCTION WEEK BEGINNING: 2-Jun-03

ITEM	REF ID	COMPANY	MON 6/2	TUES 6/3	WED 6/4	THURS 6/5	FRI 6/6	SAT 6/7	SUN 6/8
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec	✓	✓	✓	✓	✓		
Ken Sparks	KS	GeoSyntec							
Brian Habermehl	BH	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓		✓	✓		

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV & V CONSTRUCTION WEEK BEGINNING: 26-May-03

ITEM	REF ID	COMPANY	MON 5/26	TUES 5/27	WED 5/28	THURS 5/29	FRI 5/30	SAT 5/31	SUN 6/1
Kwasi Badu-Tweneboah	KBT	GeoSyntec	HOLIDAY	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec		✓	✓	✓	✓		
Tim Willis	TW	GeoSyntec		✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec		✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec		✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec				✓	✓		
Ken Sparks	KS	GeoSyntec							
Brian Habermehl	BH	GeoSyntec		✓		✓	✓		
Sheila Abney	SA	GeoSyntec		✓	✓	✓	✓		

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)
LOCATION: FERNALD, OHIO PROJECT NO.: GQ1341 TASK NO.: 04
DESCRIPTION: PHASE IV & V CONSTRUCTION WEEK BEGINNING: 19-May-03

ITEM	REF ID	COMPANY	MON 5/19	TUES 5/20	WED 5/21	THURS 5/22	FRI 5/23	SAT 5/24	SUN 5/25
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓	✓	
Tim Willis	TW	GeoSyntec	✓	✓		✓			
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓	✓	
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Ken Herrick	KH	GeoSyntec	✓	✓	✓	✓	✓	✓	
Ken Sparks	KS	GeoSyntec	✓	✓	✓	✓	✓		
Brian Habermehl	BH	GeoSyntec	← IN	TRAINING		→	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		
Nelson Breeden	NB	GeoSyntec		✓	✓	✓			

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ1341 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 12-May-03

ITEM	REF ID	COMPANY	MON 5/12	TUES 5/13	WED 5/14	THURS 5/15	FRI 5/16	SAT 5/17	SUN 5/18
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓			
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Byran York	BY	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	1	✓		
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Ken Sparks	KS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	TW		✓	✓	✓	✓	✓		
Ken Herrick	KH		✓	✓	✓	✓	✓		

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ1341 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 5-May-03

ITEM	REF ID	COMPANY	MON 5/5	TUES 5/6	WED 5/7	THURS 5/8	FRI 5/9	SAT 5/10	SUN 5/11
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓			
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Byran York	BY	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓			
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Ken Sparks	KS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		
Tim Willis	Tw		✓	✓	✓	✓	✓		
D. Phillips	DP			✓	✓				
K. Hamilk	KH				✓	✓			

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ1341 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 28-Apr-03

ITEM	REF ID	COMPANY	MON 4/28	TUES 4/29	WED 4/30	THURS 5/1	FRI 5/2	SAT 5/3	SUN 5/4
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Byran York	BY	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓				
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Ken Sparks	KS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓	✓		
Tom Willis	TW			✓	✓	✓	✓		

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ1341 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 21-Apr-03

ITEM	REF ID	COMPANY	MON 4/21	TUES 4/22	WED 4/23	THURS 4/24	FRI 4/25	SAT 4/26	SUN 4/27
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓	✓	✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Byran York	BY	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Ken Sparks	KS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓			

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PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ1341 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 14-Apr-03

ITEM	REF ID	COMPANY	MON 4/14	TUES 4/15	WED 4/16	THURS 4/17	FRI 4/18	SAT 4/19	SUN 4/20
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓					
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Byran York	BY	GeoSyntec	✓	✓	✓	✓	✓		
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Ken Sparks	KS	GeoSyntec	✓	✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓		✓	✓		

 FILE No. 1-03-PDL SHEET No. ____ of ____

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GeoSyntec Consultants

FLUOR FERNALD

PERSONNEL/EQUIPMENT DAILY LOG

PROJECT: ON-SITE DISPOSAL FACILITY (OSDF)

LOCATION: FERNALD, OHIO PROJECT NO. GQ1341 TASK NO.: 04

DESCRIPTION: WEEK BEGINNING: 7-Apr-03

ITEM	REF ID	COMPANY	MON 4/7	TUES 4/8	WED 4/9	THURS 4/10	FRI 4/11	SAT 4/12	SUN 4/13
Kwasi Badu-Tweneboah	KBT	GeoSyntec	✓	✓	✓		✓		
Collin Sukow	CS	GeoSyntec	✓	✓	✓	✓	✓		
Byran York	BY	GeoSyntec	✓	✓	✓	✓			
Chris Walker	CW	GeoSyntec	✓	✓	✓	✓	✓		
Dave Evans	DE	GeoSyntec	✓	✓	✓	✓	✓		
Ken Sparks	KS	GeoSyntec		✓	✓	✓	✓		
Sheila Abney	SA	GeoSyntec	✓	✓	✓	✓			

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