

0094054

TANK 4 AND LEACHATE TRANSMISSION SYSTEM REPORT
CONSTRUCTION QUALITY ASSURANCE (CQA)

SECTION

3 OF 9



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	05-016-084
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Cloudy : Hi: 79°F Lo: 46°F Wind: 28-mph Rain: 0.18-in

CONSTRUCTION ACTIVITIES

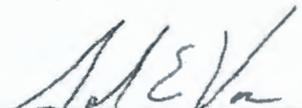
- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. Stratton Surveying was on-site to verify the lysimeter subgrade design points.
- 2.0 Admix Production – TWS produced a total of 4,342 tons of admix material. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications. The west silo belt scale is particularly jumpy in the readings, TWS has scheduled a repair/recalibration of the west silo scale.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the center of Cell 9 and along the west tie-in. CQA observed TWS use two (2) CAT 825 sheepsfoot compactor to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller to proof roll the finished admix to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight.

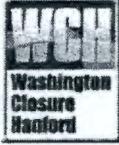
TWS, ESI (Geosynthetic Installer), and CQA walked the admix subgrade for acceptance for liner deployment. CQA and ESI approved the surface for liner deployment.

- 4.0 Leachate Transmission Line – CQA witnessed BMWC weld the 12-in HDPE riser pipes. The weld beads were removed from the pipes. The pipes were placed to the east of Cell 10.

CQA observed TWS backfilling the leachate transfer line between MH-35 and MH-36 with the CAT 312 excavator. TWS incorporated water into the fill material and the Hitachi trackhoe with attached hoe-pack compacted each lift. CQA tested and verified that lifts 1-3 met compaction specifications.


 ENVIROTECH – CQA

6/10/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	05-016-085
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Pt. Cloudy : 84 Hi: °F Lo: 56°F Wind: 39-mph Rain: 0.08-in

FIELD NOTEBOOKS

James Schut Book 1	Page: 16-17	Joe Voss Book 1	Pages 101
Matt Lunday	Pages 8-9		

FIELD TESTING

Submittal 5-18B Cell 10 Tank Footing	Lift: Subgrade	T3-03 to T3-04	Passed
Submittal 5-18C Cell 10 Subgrade	Lift: Subgrade	SG-053 to SG-062	Passed (SG-58 Failed)
Submittal 5-18E Belt Scale Measurements	June 9, 2010	5,308 Tons	Passed
Submittal 5-18J Admix Field Testing	Lifts: 1, 5	SL-268 to SL-296	Passed (F2 Failed)

CQA HOLD POINTS

Submittal 5-18R-014 Subgrade Hold 014	June 9, 2010	Grids: H3, H4, H5, I3, I4, I5	Passed
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-13	Permeability, Std. Proctor: On-Going
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GENERAL ACTIVITIES

1.0 Geosynthetic Stop Work – After several hours, the geosynthetic installer was able to locate and submit the paperwork for the spreader bar. By the time the paperwork was approved, the wind had increased to unsafe conditions for liner deployment, and the liner crew was unable to deploy liner.

CONSTRUCTION ACTIVITIES

1.0 Subgrade – CQA observed TWS proof rolling the subgrade with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. Prior to placing admix on the subgrade, TWS utilized the CAT 563 smooth drum roller to finish the surface and the Payhauler water truck to moisture condition the subgrade. CQA verified that the subgrade met contract specifications.

CQA also completed field density testing on the southwest corner of the Cell 10 subgrade. CQA verified that the subgrade met compaction specifications. One test SG-58 failed to meet compaction specifications, TWS shall recompact at a later date.

CQA also observed TWS removing grade trimmings from the floor of Cell 10 to the operations stockpile.

2.0 Admix Production – TWS produced a total of 5,308 tons of admix material. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications. The west silo belt scale remains particularly jumpy in the readings.

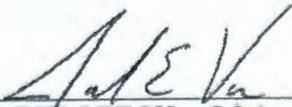


CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	05-016-085
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Pt. Cloudy : 84 Hi: °F Lo: 56°F Wind: 39-mph Rain: 0.08-in

CONSTRUCTION ACTIVITIES

- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the center of Cell 9 and along the west tie-in. CQA observed TWS use two (2) CAT 825 sheepsfoot compactor to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller to proof roll the finished admix to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.
- At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight.
- At the end of the day, grid F-2, lift 5 failed to meet contract specifications. The area was backdragged, sealed, and shall be re-worked tomorrow.
- 4.0 Geocomposite – Three (3) trucks of geocomposite were delivered to site. CQA completed receipt inspection of the geocomposite rolls that were previously delivered to site.
- 5.0 Leachate Transmission Line – CQA witnessed BMWC completing the welding of the 12-in HDPE riser pipes. The inner weld beads were removed from the pipes. The pipes were placed to the east of Cell 10. BMWS began welding 10-in x 16-in double containment pipes in the BMWC laydown area.
- 6.0 Tank #3 – CQA observed TWS excavate the footing for the tank #3 ring wall. After the footing was in-place, CQA tested and verified that the footing subgrade met contract specifications.


 ENVIROTECH – CQA

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-086
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	2	Weather:
		Pt. Cloudy : 73 Hi: °F Lo: 51°F Wind: 38-mph Rain: 0.03-in	

FIELD NOTEBOOKS

Matt Lunday	Pages 10-12	Joe Voss Book 1	Pages 101-102
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FIELD TESTING

Submittal 5-18C Cell 10 Subgrade	Lift: Subgrade	SG-58A	Passed
Submittal 5-18J Admix Field Testing	Cell 9 Lifts: 2, 5, 6	SL-292A to SL-311 & SL-320 to SL-325	Passed
Submittal 5-18J Admix Field Testing	Cell 10 Lifts: 1-2	SL-312 to SL-319 & SL-326 to SL-329	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 – Cell 9 Floor Grid D2	SL-297	Sample Collected Perm: On going

CQA HOLD POINTS

Submittal 5-18R-016 Subgrade Hold 016	June 10, 2010	Grids: J6, K6, L6, and M6	Passed
Submittal 5-18R-015 Admix Hold 015	June 10, 2010	Panels: S-1 to S-5	Passed

LABORATORY TESTING

5-13-19 60 mil Geomembrane	Reference No. G100622	Passes Specification
5-18D Admix Soil Testing	AM-13	Permeability On-Going Std. Proctor: Completed

CONSTRUCTION ACTIVITIES

1.0 Subgrade – CQA observed TWS proof rolling the subgrade with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. Prior to placing admix on the subgrade, TWS utilized the CAT 563 smooth drum roller to finish the surface and the Payhauler water truck to moisture condition the subgrade. CQA verified that the subgrade met contract specifications.

CQA observed TWS re-rolling the failed area of the Cell 10 subgrade, test SG-58, with a CAT CS583 smooth drum roller. After compaction was completed, CQA tested and verified that the subgrade met compaction specifications.

2.0 Admix Production – The pugmill was not operating due to the west silo scale providing erratic readings. TWS is working on repairing the west silo scale.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-086
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	2	Weather:
			Pt. Cloudy : 73 Hi: °F Lo: 51°F Wind: 38-mph Rain: 0.03-in

CONSTRUCTION ACTIVITIES (CONTINUED)

3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the floor of Cell 9 and along the west side. In addition, TWS also hauled admix to the west side of Cell 10. The admix was compacted on the floor of Cell 10 and not compacted on the side slope. CQA observed TWS use two (2) CAT 825 sheepsfoot compactor to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller and double smooth drum roller to proof roll lift 6 of the finished admix to maintain a sealed, smooth finish on the floor of Cell 9. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight.

The admix in grid F-2 lift 5, which failed to meet contract specifications in report 5-16-085, was re-worked with the CAT 825 compactor and moisture conditioned with the Payhauler watertruck. After compaction was completed, CQA tested and verified that the failing area met contract specifications.

4.0 Geomembrane Deployment – CQA observed ESI deploying secondary geomembrane panels S1 to S-6 over accepted admix subgrade on the south slope and south west floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. The sheets were deployed down the south embankment by hand and then attached to a Kubota ATV and pulled across the Cell 9 floor with the aid of a spreader bar.

After the sheets were deployed, two fusion welders seamed the secondary geomembrane together. The tie-in between Cells 9 and 8 was intentionally left un-welded to allow the two panels to stabilize to the same temperature. CQA and the ESI superintendent decided to halt liner activities at 14:00 due to rain showers.

5.0 Geosynthetics – Three (3) trucks of geosynthetics were delivered to site.

6.0 Leachate Transmission Line – CQA witnessed BMWC welding 10-in x 16-in double containment pipes in the BMWC laydown area. The pipe was stockpiled east of Cell 10.

ENVIROTECH – CQA

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-087
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Pt. Cloudy : 80 Hi: °F Lo: 54°F Wind: 24-mph

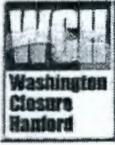
FIELD NOTEBOOKS			
James Schut Book 1	Page: 18-19	Joe Voss Book 1	Pages 103-104
Matt Lunday	Pages 13-14		

FIELD TESTING			
Submittal 5-18J Admix Field Testing	Lifts: 4, 5, 6	SL-330 to SL-347	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 – Cell 9 Floor Grid D2	SL-297	Perm: On going

CQA HOLD POINTS			
Submittal 5-18R-017 Admix Hold 017	June 11, 2010	Panels: S-6 to S-9	Passed

LABORATORY TESTING		
5-18D Admix Soil Testing	AM-13	Permeability: On-Going

CONSTRUCTION ACTIVITIES
<p>1.0 <u>Subgrade</u> – CQA observed TWS proof rolling the subgrade with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic.</p> <p>CQA observed TWS reconstructing the Cell 9 lysimeter trench with the CAT 312 trackhoe after the rain yesterday.</p> <p>2.0 <u>Admix Production</u> – The pugmill was not operating due to the west silo scale providing erratic readings. TWS is working on repairing the west silo scale.</p>



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-087
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Pt. Cloudy : 80 Hi: °F Lo: 54°F Wind: 24-mph

CONSTRUCTION ACTIVITIES

3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the center of Cell 9 and along the west tie-in. CQA observed TWS use two (2) CAT 825 sheepsfoot compactor to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller to proof roll the finished admix to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight Admix that had reached the 6th lift was trimmed with the CAT D6 dozer and proof rolled with the CAT 563 smooth drum compactor and double smooth drum compactor.

CQA surveyor verified that the admix met grading tolerances in the design drawings for the admix in the south half of Cell 9.

4.0 CQA inspected the admix following the rain shower in report 5-16-086; CQA verified that the admix under the geosynthetics was unaffected by the small rain shower.

5.0 Geosynthetics – Two (2) trucks of geocomposite and one (1) truck with both 8oz. and 16 oz. geotextile was delivered to site. CQA shall complete geosynthetic receiving at a later date.

6.0 Geomembrane Deployment – CQA observed ESI deploying secondary geomembrane panels S-6 to S-9 over accepted admix subgrade on the south slope and south west floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. The sheets were deployed down the south embankment by hand and then attached to a Kubota ATV and pulled across the Cell 9 floor with the aid of a spreader bar.

After the sheets were deployed, two fusion welders seamed the secondary geomembrane together. ESI completed welding both seams left open from the previous day. All additional panels were welded together. ESI also welded approximately ¾ of the tie-in seam left exposed in Report 5-16-086. The remainder of the tie-in was left leistered but not welded.

CQA collected destructive tests DS-01 to DS-06. An ESI crew completed extrusion repairs to panels S-1 to S-5 as identified by CQA.

ENVIROTECH – CQA

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-088
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Pt. Cloudy : 81 Hi: °F Lo: 54°F Wind: 41-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 2-3	Joe Voss Book 1	Pages: 105-106
Tyler Williams Book 2	Pages: 47-48	James Schut Book 1	Pages: 20-21

FIELD TESTING

Submittal 5-18B Leachate Transmission	Lifts: 6-7	LT-89 to LT-92	Passed
Submittal 5-18E Belt Scale Measurements	June 14, 2010	3,159 Tons	Passed
Submittal 5-18J Admix Field Testing	Lifts: 1, 2, and 3	SL-348 to SL-353	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 - Cell 9 Floor Grid D2	SL-297	Perm: On going

CQA HOLD POINTS

Submittal 5-18R-018 Subgrade Hold 018	June 14, 2010	Grids: F3 and G3	Passed
Submittal 5-18R-019 Admix Hold 019	June 14, 2010	Panels: S-10 to S-15	Passed

LABORATORY TESTING

5-18D Admix Soil Testing	AM-13	Permeability: On-Going
5-18D Admix Soil Testing	AM-14	Sample Collected USCS: On-Going

GENERAL ACTIVITIES

- 1.0 DOE Stop Work - DOE issued a general Hanford site wide stop work for possible beryllium contamination. At approximately 10:30, ERDF construction received release to continue construction work.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade - CQA observed TWS proof rolling the subgrade with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. CQA verified that the subgrade surface was prepared for admix placement, hold point 5-18R-018 was issued releasing grids F3 and G3 for placement of admix material.
- 2.0 Admix Production - TWS produced a total of 3,159 tons of admix material. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-088
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Pt. Cloudy : 81 Hi: °F Lo: 54°F Wind: 41-mph

CONSTRUCTION ACTIVITIES

3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the center of Cell 9. CQA observed TWS use two (2) CAT 825 sheepsfoot compactor to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller to proof roll the finished admix to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight Admix that had reached the 6th lift was trimmed with the CAT D6 dozer and proof rolled with the CAT 563 smooth drum compactor and double smooth drum compactor.

Prior to placing geosynthetics on the admix surface, CQA ensured the admix met all contract specifications. CQA released admix hold point 5-18R-19 prior to liner placement on the admix surface.

4.0 Geomembrane Deployment – CQA observed ESI deploying secondary geomembrane panels S-10 to S-15 over accepted admix subgrade on the south slope and south west floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. The sheets were deployed down the south embankment by hand and then attached to a Kubota ATV and pulled across the Cell 9 floor with the aid of a spreader bar.

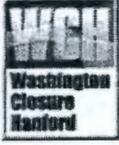
After the sheets were deployed, and two fusion welders seamed the secondary geomembrane together. All additional panels were welded together. ESI also welded the remainder of the tie-in seam and miscellaneous repairs and patches on the secondary geomembrane as identified by CQA. CQA also collected destructive tests DS-07 to DS-12.

5.0 Leachate Transmission Line – CQA witnessed BMWC welding 10-in x 16-in double containment pipes in the BMWC laydown area. The pipe was stockpiled east of Cell 10.

CQA observed TWS backfilling the leachate transfer line between MH-35 and MH-36 with the CAT 312 excavator. TWS incorporated water into the fill material and the Hitachi trackhoe with attached hoe-pack compacted each lift. CQA tested and verified that lifts 6-7 met compaction specifications.


ENVIROTECH – CQA

6/18/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-089
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Pt. Cloudy : 77 Hi: °F Lo: 50°F Wind: 36-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 4-5	Joe Voss Book 1	Pages: 107-108
Tyler Williams Book 2	Pages: 49-50	James Schut Book 1	Pages: 22-23

FIELD TESTING

Submittal 5-18B Leachate Transmission	Lifts: 8-9	LT-93 to LT-96	Passed
Submittal 5-18E Belt Scale Measurements	June 15, 2010	5,235 Tons	Passed
Submittal 5-18J Admix Field Testing	Lifts: 1, 4, 5, and 6	SL-354 to SL-363	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 - Cell 9 Floor Grid D2	SL-297	Perm: On going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 9 Floor Grid G3	SL-354	Perm: On going

CQA HOLD POINTS

Submittal 5-18R-020 Subgrade Hold 020	June 15, 2010	Grids:G4 and G5	Passed
Submittal 5-18R-021 Admix Hold 021	June 15, 2010	Panels: S-16 to S-22	Passed

LABORATORY TESTING

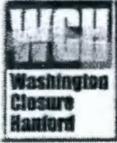
5-18D Admix Soil Testing	AM-13	Permeability: Passed
5-18D Admix Soil Testing	AM-14	USCS: On-Going

GENERAL ACTIVITIES

- 1.0 Weekly Progress Meetings – CQA attended the construction contractor’s weekly progress meeting on Tuesday, June 15, 2010 at 10:00 am. in the WCH conference room.
- 2.0 CQA Progress Meeting – CQA attended the construction contractors CQA meeting on Tuesday, June 15, 2010 at 10:30 am. in the WCH conference room.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. CQA verified that the subgrade surface was prepared for admix placement, hold point 5-18R-020 was issued releasing grids G4 and G5 for placement of admix material.
- 2.0 Admix Production – TWS produced a total of 5,235 tons of admix material. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-089
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Pt. Cloudy : 77 Hi: °F Lo: 50°F Wind: 36-mph

CONSTRUCTION ACTIVITIES

3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the center of Cell 9. CQA observed TWS use two (2) CAT 825 sheepsfoot compactor to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller to proof roll the finished admix to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight Admix that had reached the 6th lift was trimmed with the CAT D6 dozer and proof rolled with the CAT 563 smooth drum compactor and double smooth drum compactor.

Prior to placing geosynthetics on the admix surface. CQA ensured the admix met all contract specifications. CQA released admix hold point 5-18R-21 prior to liner placement on the admix surface.

4.0 Geomembrane Deployment – CQA observed ESI deploying secondary geomembrane panels S-16 to S-22 over accepted admix subgrade on the south slope and south floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. The sheets were deployed down the south embankment by hand and then attached to a Kubota ATV and pulled across the Cell 9 floor with the aid of a spreader bar.

After the sheets were deployed, and two fusion welders seamed the secondary geomembrane together. ESI extrusion welded repairs as identified by CQA.

5.0 Geosynthetics – Two (2) trucks of geomembrane were delivered to site. CQA shall complete geosynthetic receiving at a later date.

6.0 Leachate Transmission Line – CQA witnessed BMWC welding 10-in x 16-in double containment pipes in the BMWC laydown area. The pipe was stockpiled east of Cell 10.

CQA observed TWS backfilling the leachate transfer line between MH-35 and MH-36 with the CAT 312 excavator. TWS incorporated water into the fill material and the Hitachi trackhoe with attached hoe-pack compacted each lift. CQA tested and verified that lifts 8-9 met compaction specifications.

ENVIROTECH – CQA

DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-090
Job Number:	S013213A00	Staff On-site:	6
Contractor(s):	TradeWind Services	Date:	Wednesday, June 16, 2010
		Weather:	Pt. Cloudy : 70 Hi: °F Lo: 46°F Wind: 21-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 6-	Joe Voss Book 1	Pages: 109-110
Tyler Williams Book 2	Pages: 51-52	James Schut Book 1	Pages: 24-25

FIELD TESTING

Submittal 5-18B Leachate Transmission	Lifts: 10	LT-97 to LT-98	Passed
Submittal 5-18E Belt Scale Measurements	June 16, 2010	5,077 Tons	Passed
Submittal 5-18J Admix Field Testing	Lifts: 1, 2, 3, and 4	SL-364 to SL-375	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 - Cell 9 Floor Grid D2	SL-297	Perm: On going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 9 Floor Grid G3	SL-354	Perm: On going

CQA HOLD POINTS

Submittal 5-18R-022 Subgrade Hold 022	June 16, 2010	Grids: F4, F5, and D3	Passed
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-14	USCS: Passed
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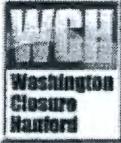
CONSTRUCTION ACTIVITIES

1.0 Subgrade – CQA observed TWS proof rolling the subgrade with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. CQA verified that the subgrade surface was prepared for admix placement, hold point 5-18R-020 was issued releasing grids F4 and F5 for placement of admix material.

In addition, TWS began grading the Cell 10 sump with the D6R dozer.

Stratton Survey was on-site to survey the lysimeter sump prior to placement of tertiary geomembrane.

2.0 Admix Production – TWS produced a total of 5,077 tons of admix material. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-090
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Pt. Cloudy : 70 Hi: °F Lo: 46°F Wind: 21-mph

CONSTRUCTION ACTIVITIES

3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the center of Cell 9. CQA observed TWS use two (2) CAT 825 sheepsfoot compactor to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller to proof roll the finished admix to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight Admix that had reached the 6th lift was trimmed with the CAT D6 dozer and proof rolled with the CAT 563 smooth drum compactor and double smooth drum compactor.

The CQA surveyor Stratton Survey, was on-site to verify the admix thickness on the Cell 9 floor.

Prior to placing geosynthetics on the admix surface, CQA ensured the admix met all contract specifications. CQA released admix hold point 5-18R-22 prior to liner placement on the admix surface.

4.0 Geomembrane Deployment – CQA observed ESI deploying tertiary geomembrane panels T-1 to T-13 over accepted subgrade in the Cell 9 sump. The panels were deployed to the east of the sump and hand maneuvered into place.

After the sheets were deployed, two fusion welders seamed the tertiary geomembrane together.

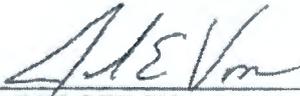
In addition, ESI extrusion welded repairs as identified by CQA on both the secondary and tertiary geomembrane.

5.0 Geosynthetics – One (1) truck of geomembrane were delivered to site. CQA shall complete geosynthetic receiving at a later date.

6.0 Electrical Conduit – CQA observed American Electric placing red concrete over the Cell 9 electrical conduit in the north berm. CQA witnessed Intermountain Material Testing sampling and testing the placed concrete.

7.0 Leachate Transmission Line – CQA witnessed BMWC welding 10-in x 16-in double containment pipes in the BMWC laydown area. The pipe was stockpiled east of Cell 10.

CQA observed TWS backfilling the leachate transfer line between MH-35 and MH-36 with the CAT 312 excavator. TWS incorporated water into the fill material and the Hitachi trackhoe with attached hoe-pack compacted each lift. CQA tested and verified that lift 10 met compaction specifications.


ENVIROTECH – CQA

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-091
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Thursday, June 17, 2010
			Cloudy : 73 Hi: °F Lo: 56°F
			Wind: 25-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 9-10	Joe Voss Book 1	Pages: 111-112
Tyler Williams Book 2	Pages: 53-54	James Schut Book 1	Pages: 26-27

FIELD TESTING

Submittal 5-18B Leachate Transmission	Lifts: 11	LT-99 to LT-100	Passed
Submittal 5-18E Belt Scale Measurements	June 17, 2010	2,397 Tons	Passed
Submittal 5-18J Admix Field Testing	Lifts: 4, 5, and 6	SL-376 to SL-384	Passed SL-384: Failed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 – Cell 9 Floor Grid D2	SL-297	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 9 Floor Grid G3	SL-354	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-023 Admix Hold 023	June 15, 2010	Panels: S-23 to S-27	Passed
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-15	Sample Collected USCS: On-going
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GENERAL ACTIVITIES

1.0 Take Cover Drill – CQA took part in a site wide take cover drill at approximately 10:00.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic.
- 2.0 Admix Production – TWS produced a total of 2,397 tons of admix material. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications. Northwest Scales was on-site to re-calibrate the west silo scale.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the center of Cell 9. CQA observed TWS use two (2) CAT 825 sheepsfoot compactor to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller to proof roll the finished admix to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-091
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Cloudy : 73 Hi: °F Lo: 56°F Wind: 25-mph

CONSTRUCTION ACTIVITIES

4.0 Admix Placement (Cont) – At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight Admix that had reached the 6th lift was trimmed with the CAT D6 dozer and proof rolled with the CAT 563 smooth drum compactor and double smooth drum compactor. Admix placed on lift 6 in zones F4 and F5 did not meet compaction specifications, TWS shall rework at a later date.

Prior to placing geosynthetics on the admix surface, CQA ensured the admix met all contract specifications. CQA released admix hold point 5-18R-23 prior to liner placement on the admix surface.

5.0 Geomembrane Deployment – CQA observed ESI deploying secondary geomembrane panels S-23 to S-27 over accepted admix subgrade on the floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. The sheets were deployed from the east end of the admix, pulled across the floor from west to east by a Kubota ATV.

After the sheets were deployed, and two fusion welders seamed the secondary geomembrane together.

Destructive testing performed on extrusion welds from the Tertiary geomembrane deployed in report 05-16R-090 failed to meet specifications. CQA bracketed the failing test and cut new destructive test samples. The bracketed tests passed specifications, and all repairs between the bracketed tests were patched.

In addition, ESI extrusion welded repairs as identified by CQA on both the secondary and tertiary geomembrane.

6.0 Geotextile Deployment – ESI deployed cushion geotextile over the tertiary geomembrane in the lysimeter sump. All textile panels were continuously sewn together.

7.0 Geosynthetics – Two (2) trucks of geomembrane and two (2) trucks of geocomposite were delivered to site. CQA shall complete geosynthetic receiving at a later date.

8.0 Drainage Gravel – CQA observed TWS hauling Type C gravel from the on-site stockpile to the Cell 9 lysimeter in International Payhaulers. TWS constructed a 6-ft high ramp into the lysimeter sump to allow the truck to back into the sump. The drainage gravel was spread around the sump utilizing a CAT 312 excavator. CQA continuously observed gravel placement to ensure no geosynthetics were damaged during installation.

9.0 Leachate Transmission Line – CQA witnessed BMWC welding 10-in x 16-in double containment pipes in the BMWC laydown area. The pipe was stockpiled east of Cell 10.

CQA observed TWS backfilling the leachate transfer line between MH-35 and MH-36 with the CAT 312 excavator. TWS incorporated water into the fill material and the Hitachi trackhoe with attached hoe-pack compacted each lift. CQA tested and verified that lift 11 met compaction specifications.

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DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-092
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Pt. Cloudy : 83 Hi: °F Lo: 46°F Wind: 21-mph Rain: Trace

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 11-13	Joe Voss Book 1	Pages: 113-114
Tyler Williams Book 2	Pages: 55	James Schut Book 1	Pages: 28-29

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	June 18, 2010	3,338 Tons	Passed
Submittal 5-18J Admix Field Testing	Lifts: 1 and 6	SL-384A to SL-392	Passed SL-386 and SL-390: Failed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 9 Floor Grid G3	SL-354	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-024 Subgrade Hold 024	June 18, 2010	Grids:A1-A2, B1-B2, C1-C2, and E3	Passed
Submittal 5-18R-025 Admix Hold 025	June 18, 2010	Panels: S-28 to S-35	Passed

LABORATORY TESTING

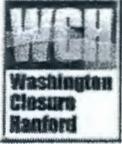
5-13-20 60 mil Geomembrane	Reference No. G100660	Passes Specification
5-18D Admix Soil Testing	AM-15	USCS: On-going

GENERAL ACTIVITIES

- 1.0 Stop Work – A stop work was called when admix material was placed over the north embankment subgrade that was not approved by CQA for admix placement due to incomplete survey. The admix material was excavated by hand to the subgrade-admix interface, where the subgrade was resurveyed by Stratton Survey. Stratton Survey verified that the subgrade met design drawing subgrade tolerances. After the verification was complete, the stop work was released.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. Prior to placing admix on the subgrade, CQA observed TWS moisture conditioning the subgrade. In addition, TWS graded the top shoulder of the north embankment that had been eroded by the wind. CQA verified that the subgrade surface was prepared for admix placement, and hold point 5-18R-024 was issued releasing grids G4 and G5 for placement of admix material.
- 2.0 Admix Production – TWS produced a total of 3,338 tons of admix material. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications. The pug mill shut down early due to a lack of bentonite delivery.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-092
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Pt. Cloudy : 83 Hi: °F Lo: 46°F Wind: 21-mph Rain: Trace

CONSTRUCTION ACTIVITIES

3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the north slope and around the lysimeter of Cell 9. CQA observed TWS use two (2) CAT 825 sheepsfoot compactor to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller to proof roll the finished admix to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight Admix that had reached the 6th lift was trimmed with the CAT D6 dozer and proof rolled with the CAT 563 smooth drum compactor and double smooth drum compactor. At the end of the day, Admix placed on lift 1 in zones A1 and C1 did not meet compaction specifications, TWS shall rework at a later date.

Prior to placing geosynthetics on the admix surface, CQA ensured the admix met all contract specifications. CQA released admix hold point 5-18R-23 prior to liner placement on the admix surface.

TWS placed admix material up to and over the 5-ft geosynthetic flap on the lysimeter trench to ensure storm water would flow over the lysimeter geomembrane and not under the geomembrane.

4.0 Geomembrane Deployment – CQA observed ESI deploying secondary geomembrane panels S-28 to S-35 over accepted admix subgrade on the floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. The sheets were deployed from the east end of the admix, pulled across the floor from west to east by a Kubota ATV.

After the sheets were deployed, and two fusion welders seamed the secondary geomembrane together. In addition, ESI extrusion welded repairs as identified by CQA on both the secondary geomembrane.

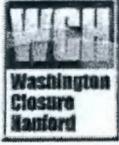
5.0 Geotextile – CQA observed ESI encapsulating the lysimeter pipe penetration in geotextile.

6.0 Drainage Gravel – CQA observed TWS hauling Type C gravel from the on-site stockpile to the Cell 9 lysimeter in International Payhaulers. The drainage gravel was spread around the sump utilizing a CAT 312 excavator. CQA verified that the TWS compacted the gravel by track-walking the CAT 312 excavator over the first lift. CQA continuously observed gravel placement to ensure no geosynthetics were damaged during installation.


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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-093
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Pt. Cloudy : Hi: 78°F Lo: 58°F Wind: 27-mph Rain: Trace

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 14-15	Joe Voss Book 1	Pages: 115-116
Tyler Williams Book 2	Pages: 56	James Schut Book 1	Pages: 30-31

FIELD TESTING

Submittal 5-18B Electrical Bank	Lifts: 1-2	EB-01 to EB-04	Passed
Submittal 5-18E Belt Scale Measurements	June 21, 2010	4,071Tons	Passed
Submittal 5-18J Admix Field Testing	Lifts: 1, 2, and 3	SL-386A to SL-406	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 9 Floor Grid G3	SL-354	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-026 Subgrade Hold 026	June 21, 2010	Grids:E4 and E5	Passed
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-15	USCS: On-going
5-18D Admix Soil Testing	AM-16	Sample Collected - USCS: On-going

GENERAL ACTIVITIES

- 1.0 Geomembrane Hold – Storm water run-off from weekend storm events eroded the admix liner and left pools of standing water. CQA placed a hold on all geomembrane placement over the unacceptable admix surface.
- 2.0 Stop Work – Due to frequent scattered showers, liner repairs were halted intermittently throughout the day.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. Prior to placing admix on the subgrade, CQA observed TWS moisture conditioning the subgrade. CQA verified that the subgrade surface was prepared for admix placement, and hold point 5-18R-026 was issued releasing grids E4 and E5 for placement of admix material.
- 2.0 Admix Production – TWS produced a total of 4,071 tons of admix material. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-093
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Pt. Cloudy : Hi: 78°F Lo: 58°F Wind: 27-mph Rain: Trace

CONSTRUCTION ACTIVITIES

3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the north slope and west of the lysimeter of Cell 9. CQA observed TWS use two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller to proof roll the finished admix to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight Admix that had reached the 6th lift was trimmed with the CAT D6 dozer and proof rolled with the CAT 563 smooth drum compactor and double smooth drum compactor. Admix in grids A1 and C1 were reworked and retested. CQA verified that the failing areas from Report 5-16-092 met construction specifications.

CQA inspected the admix subgrade following the rain showers over the weekend. CQA determined that the admix subgrade under the geomembrane was dry and no water penetrated under the secondary geomembrane.

4.0 Geomembrane Deployment – CQA observed ESI conducting repairs and testing on the secondary geomembrane as identified by CQA.

5.0 Drainage Gravel – CQA observed TWS hauling Type C gravel from the on-site stockpile to the Cell 9 lysimeter in International Payhaulers. The drainage gravel was spread around the sump utilizing a CAT 312 excavator. CQA verified that the TWS compacted the gravel by track-walking the CAT 312 excavator over the second lift. CQA continuously observed gravel placement to ensure no geosynthetics were damaged during installation.

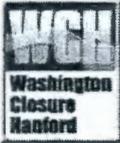
In addition, CQA directed TWS to pump and remove the storm water run-off that had collected in the sump over the tertiary geomembrane.

3.0 Leachate Transmission Line – CQA witnessed BMWC welding 10-in x 16-in double containment pipes in the BMWC laydown area. The pipe was stockpiled east of Cell 10.

CQA observed TWS backfilling the electrical duct bank trench between Cells 8 and 10 Crest pads with the CAT 312 excavator. TWS incorporated water into the fill material and the Hitachi trackhoe with attached hoe-pack compacted each lift. CQA verified that the fill between Cells 8 and 9 Crest Pads met construction specifications. CQA shall test the fill placed between Cells 9 and 10 Crest Pads at a later date.


ENVIROTECH – CQA

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-094
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Pt. Cloudy : Hi: 86°F Lo: 53°F Wind: 23-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 16-18	Joe Voss Book 1	Pages: 117-118
Tyler Williams Book 2	Pages: 57	James Schut Book 1	Pages: 32

FIELD TESTING

Submittal 5-18B Electrical Bank	Lifts: 1-2	EB-05 to EB-07	Passed
Submittal 5-18B Electrical Bank	Lifts: 1	LT-101 to LT-102	Failed
Submittal 5-18E Belt Scale Measurements	June 22, 2010	4,890Tons	Passed
Submittal 5-18J Admix Field Testing	Lifts: 1, 2, and 3.	SL-407 to SL-421	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 9 Floor Grid G3	SL-354	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 9 North Slope Grid B1	SL-408	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-027 Admix Hold 027	June 22, 2010	Panels: S-36 to S-42	Passed
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LABORATORY TESTING

5-18A Earthwork Structural Fill	SF-08	Sample Collected USCS. Proctor: On-going
5-18D Admix Soil Testing	AM-15	USCS: Passed
5-18D Admix Soil Testing	AM-16	USCS: On-going

GENERAL ACTIVITIES

- 1.0 Weekly Progress Meetings – CQA attended the construction contractor’s weekly progress meeting on Tuesday, June 22, 2010 at 10:00 am. in the WCH conference room.
- 1.0 CQA Progress Meeting – CQA attended the construction contractors CQA meeting on Tuesday, June 22, 2010 at 10:30 am. in the WCH conference room.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic.
- 2.0 Admix Production – TWS produced a total of 4,890 tons of admix material. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-094
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Pt. Cloudy : Hi: 86°F Lo: 53°F Wind: 23-mph

CONSTRUCTION ACTIVITIES

3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the north slope and east of the lysimeter of Cell 9. CQA observed TWS use two (2) CAT 825 sheepfoot compactors to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller to proof roll the finished admix to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight Admix that had reached the 6th lift was trimmed with the CAT D6 dozer and proof rolled with the CAT 563 smooth drum compactor and double smooth drum compactor.

Prior to placing geosynthetics on the admix surface, CQA ensured the admix met all contract specifications. CQA released admix hold point 5-18R-27 prior to liner placement on the admix surface.

4.0 Geomembrane Deployment – CQA observed ESI deploying secondary geomembrane panels S-36 to S-42 over accepted admix subgrade on the floor of Cell 9. The sheets were deployed from the east end of the admix and pulled across the floor from east to west by a Kubota ATV. All panels were fusion welded together.

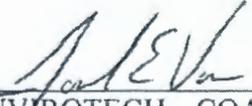
CQA observed ESI conducting repairs and testing on the secondary geomembrane as identified by CQA.

5.0 Drainage Gravel – CQA observed TWS hauling Type C gravel from the on-site stockpile to the Cell 9 lysimeter in International Payhaulers. The drainage gravel was spread around the sump utilizing a CAT 312 excavator. CQA verified that the TWS compacted the gravel by track-walking the CAT 312 excavator over the second and third lifts. CQA witnessed the CAT 312 excavator grading the sump rock as per the design drawings with the aid of the TWS surveyor. CQA continuously observed gravel placement to ensure no geosynthetics were damaged during installation.

2.0 Leachate Transmission Line – CQA witnessed BMWC welding 10-in x 16-in double containment pipes in the BMWC laydown area. The pipe was stockpiled east of Cell 10.

CQA observed TWS backfilling the leachate transfer line between MH-37 and MH-38 with the CAT 312 excavator. TWS incorporated water into the fill material and the Hitachi trackhoe with attached hoe-pack compacted each lift. The first lift did not meet compaction specifications. CQA then observed TWS compacting with the jumping jack hand compactor. Since neither method produced passing CQA test results. CQA collected structural fill sample SF-08 to verify the selected proctor.

CQA observed TWS completing the backfilling the electrical duct bank trench between Cells 9 and 10 Crest pads with the CAT 312 excavator. TWS incorporated water into the fill material and the Hitachi trackhoe with attached hoe-pack compacted each lift. CQA verified that the fill between Cells 9 and 10 Crest Pads met construction specifications. However, CQA failed to collect the correct number of tests on the backfill between the Cell 9 and 10 Crest Pads; CQA shall collect the remaining test in Report 5-16-095.


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DATE

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-095
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Pt. Cloudy : Hi: 90°F Lo: 63°F Wind: 24-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 19-20	Joe Voss Book 1	Pages: 119-120
Tyler Williams Book 2	Pages: 58	James Schut Book 1	Pages: 33-34

FIELD TESTING

Submittal 5-18B Electrical Bank	Lifts: 1	EB-08	Passed
Submittal 5-18B Leachate Transmission MH-37 to MH-38	Lifts: 1-4	LT-101 to LT-108	Passed Failed LT-102 and 103
Submittal 5-18E Belt Scale Measurements	June 23, 2010	5,597Tons	Passed
Submittal 5-18J Admix Field Testing	Lifts: 4, 5, and 6	SL-422 to SL-439	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 9 North Slope Grid B1	SL-408	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 9 North Slope Grid A2	SL-436	Sample Collected Perm: On-going
Submittal 5-18L Cell 9 Lysimeter Gravel	Lift No. 3	CG9-1	Passed

LABORATORY TESTING

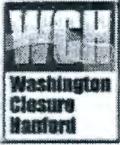
5-18A Earthwork Structural Fill	SF-08	USCS, Proctor: Passed
5-18D Admix Soil Testing	AM-16	USCS: Passed
5-18D Admix Soil Testing	AM-17	Sample Collected USCS, Proctor, Perm: On-going

GENERAL ACTIVITIES

- 1.0 Leachate Transmission Pipe – Verification proctor SF-08 demonstrated that tests LT-102 and LT-103 failed to meet contract specifications. TWS shall address the deficiency in a later report.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic.
- 2.0 Admix Production – TWS produced a total of 5,597 tons of admix material. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-095
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Pt. Cloudy : Hi: 90°F Lo: 63°F Wind: 24-mph

CONSTRUCTION ACTIVITIES

3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the north slope and east of the lysimeter of Cell 9. CQA observed TWS use two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller to proof roll the finished admix to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight

4.0 Geomembrane Deployment – CQA observed ESI CQA conducting repairs and testing on the secondary geomembrane as identified by CQA. The CQA surveyors, Stratton Surveying, were on-site to conduct a seam survey of the secondary geomembrane.

5.0 Geocomposite – CQA observed ESI deploying geocomposite from the east side of the south berm to the west side. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters. CQA also verified that the end seams on the slopes were staggered a minimum of 10-ft apart.

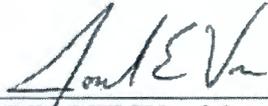
6.0 Drainage Gravel – CQA witnessed the CAT 312 excavator grading the Type C drainage gravel in the Cell 9 lysimeter sump as per the design drawings with the aid of the TWS surveyor. CQA continuously observed gravel placement to ensure no geosynthetics were damaged during installation. CQA tested and verified that the Type C construction gravel met compaction specifications.

The CQA surveyors, Stratton Surveying, were on-site to verify that the Cell 9 lysimeter rock backfill met construction plans specifications and tolerances.

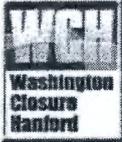
7.0 Leachate Transmission Line – CQA witnessed BMWC welding 10-in x 16-in double containment pipes in the BMWC laydown area. The pipe was stockpiled east of Cell 10.

CQA observed TWS backfilling three (3) lifts of the leachate transfer line between MH-37 and MH-38 with the CAT 312 excavator. All backfill was placed at TWS risk, since the proctor SF-08 was not completed. TWS incorporated water into the fill material and the Hitachi trackhoe with attached hoe-pack compacted each lift. CQA collected moisture-density readings, but was unable to verify the proctor until the end of the day. After the proctor was completed, two (2) of the outstanding tests failed to meet construction specifications. TWS shall address the deficiency at a later date.

8.0 Electrical Duct Bank – TWS excavated the west electrical duct bank trench between Cells 9 and 10 with the CAT 312 excavator. CQA collected the missed test on the backfill, and the test location was backfilled. CQA verified that the electrical duct bank between Crest Pads 9 and 10 met compaction specifications.


ENVIROTECH – CQA

6/24/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-096
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Pt. Cloudy : Hi: 92°F Lo: 61°F Wind: 14-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 21-22	Joe Voss Book 1	Pages: 121-122
Tyler Williams Book 2	Pages: 60-62	James Schut Book 1	Pages: 35-36

FIELD TESTING

Submittal 5-18B Leachate Transmission	Lift: 5	LT-109 to LT-110	Passed
Submittal 5-18C Cell 10 Subgrade	Lift: Subgrade	SG-63 to SG-77	Passed
Submittal 5-18E Belt Scale Measurements	June 24, 2010	5,393Tons	Passed
Submittal 5-18J Admix Field Testing	Lift: 1	SL-440 to SL-443	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 9 North Slope Grid B1	SL-408	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 9 North Slope Grid A2	SL-436	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-028 Subgrade	June 24, 2010	Grids: A4, B4 and C4
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-17	USCS, Proctor, Perm: On-going
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CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic.
- 2.0 Admix Production – TWS produced a total of 5,393 tons of admix material. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the north slope and east of the lysimeter of Cell 9. CQA observed TWS use two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller to proof roll the finished admix to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevents excessive moisture loss overnight.

CQA also observed TWS begin excavating the anchor trench along the north embankment in preparation for admix placement.



CQA DAILY CONSTRUCTION REPORT

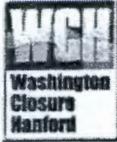
Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	S-16-096
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Pt. Cloudy : Hi: 92°F Lo: 61°F Wind: 14-mph

CONSTRUCTION ACTIVITIES

- 4.0 Geomembrane Deployment – Due to the heat, a large wrinkle had formed near the south toe of panels S16 through S18. ESI cut the liner, removed the wrinkle, capped the area and vacuum tested the welds prior to covering the area with geocomposite.
- 5.0 Geocomposite – CQA observed ESI deploying geocomposite along the south berm and the floor of Cell 9. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters. CQA also verified that the end seams on the slopes were staggered a minimum of 10-ft apart.
- 6.0 Leachate Transmission Line – CQA witnessed BMWC welding 10-in x 16-in double containment pipes in the BMWC laydown area. The pipe was stockpiled east of Cell 10.

CQA observed TWS backfilling lift five (5) over the leachate transfer line between MH-37 and MH-38 with the CAT 312 excavator. The backfill was moisture conditioned and compacted with the Hitachi 200 Hoe-pack. CQA tested and verified that all backfill placed met the contract specifications.

6/28/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-097
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 91°F Lo: 67°F Wind: 30-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 23-24	Joe Voss Book 1	Pages: 124-125
Tyler Williams Book 2	Pages: 63-65	James Schut Book 1	Pages: 37-38

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	June 25, 2010	4,677Tons	Passed
Submittal 5-18J Admix Field Testing	Lift: 1,2,3	SL-444 to SL-451	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 9 North Slope Grid B1	SL-408	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 9 North Slope Grid A2	SL-436	Perm: On-Going

CQA HOLD POINTS

Submittal 5-18R-029 Subgrade	June 25, 2010	Grids: A3, B3 and C3
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-17	USCS: Complete Proctor, Perm: On-going
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GENERAL ACTIVITIES

- 1.0 Geomembrane Placement – ESI has requested to use a Bobcat skid loader to deploy the primary geomembrane over the geocomposite. TWS has submitted the submittal for the Bobcat, however the submittal has yet to be approved by WCH. Primary geomembrane placement is on hold until the issue is resolved.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade of Cell 9 and Cell 10 with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic.
- 2.0 Admix Production – TWS produced a total of 4,677 tons of admix material. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-097
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 91°F Lo: 67°F Wind: 30-mph

CONSTRUCTION ACTIVITIES

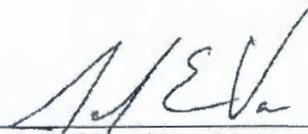
3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the north slope and east of the lysimeter of Cell 9. TWS also placed admix in the Cell 9 lysimeter sump. CQA observed TWS use two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller and the small double drum roller to proof roll the finished admix on the north slope of Cell 9 to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight

4.0 Geocomposite – CQA observed ESI deploying geocomposite along the south berm and the floor of Cell 9. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters. CQA also verified that the end seams on the slopes were staggered a minimum of 10-ft apart . CQA also performed receiving inspections for geocomposite stockpiled in the unloading area.

5.0 Leachate Transmission Line – CQA witnessed BMWC welding 10-in x 16-in double containment pipes in the BMWC laydown area. The pipe was stockpiled east of Cell 10.

CQA observed TWS backfilling the sixth and final lift over the leachate transfer line between MH-37 and MH-38 with the CAT 330 excavator. The lift was moisture conditioned and compacted with Hitachi Hoe-pack. QCA tested and verified that the lift met the contract specifications.


 ENVIROTECH – CQA

7/6/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-098
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Clear : Hi: 95°F Lo: 60°F Wind: 35-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 25-26	Rob Stallings	N/A
Tyler Williams Book 2	Pages: 68-69	James Schut Book 1	Pages: 39-40

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	June 26, 2010	4,119Tons	Passed
Submittal 5-18E Belt Scale Measurements	June 28, 2010	5,378Tons	Passed
Submittal 5-18J Admix Field Testing	Lift: 1,2,3, 4 and 5	SL-452 to SL-469	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 9 North Slope Grid B1	SL-408	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 9 North Slope Grid A2	SL-436	Perm: Passed

CQA HOLD POINTS

Submittal 5-18R-030 Subgrade	June 28, 2010	Grids: A5, B5, C5, D4, and D5
Submittal 5-18R-031 Admix Surface	June 28, 2010	Panels: S-43 to S-44

LABORATORY TESTING

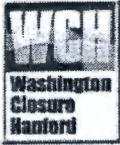
5-18D Admix Soil Testing	AM-17	Perm: Complete Proctor: On-going
5-18D Admix Soil Testing	AM-18	Sample Collected USCS: On-going

GENERAL ACTIVITIES

- 1.0 Geomembrane Placement – On Friday, June 25, 2010, ESI requested approval to use a Bobcat 250 skid loader for deploying primary geomembrane over the geocomposite. WCH has approved the request with the stipulation that CQA can stop the activity at any point if they feel that the integrity of the liner, geocomposite or underlying subgrade is being adversely affected.
- 2.0 Saturday Work – On Thursday, June 24, 2010, CQA was informed by TWS that the pugmill would be operating on Saturday; therefore, CQA was on-site to observe the pugmill operations and collect belt scale measurements for Saturday, June 26, 2010.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade of Cell 9 and Cell 10 with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. CQA also observed TWS moisture conditioning the admix subgrade prior to admix placement. CQA verified that moisture had penetrated 4-in into the subgrade prior to admix placement.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-098
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Clear : Hi: 95°F Lo: 60°F Wind: 35-mph

CONSTRUCTION ACTIVITIES

2.0 Admix Production – TWS produced a total of 4,119 tons of admix material on Saturday, June 26, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.

TWS produced a total of 5,378 tons of admix material on Monday, June 28, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.

3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the north slope and east of the lysimeter of Cell 9. CQA observed TWS use two (2) CAT 82S sheepsfoot compactors to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller and the small double drum roller to proof roll the finished admix on the of Cell 9 to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight

Stratton Surveying was on-site to verify the admix thickness on the north embankment and along the Cell 8 tie-in. Stratton verified that the admix met design drawing tolerances.

4.0 Secondary Geomembrane – CQA observed ESI deploying and welding secondary geomembrane panels S-43 and S-44 on the north slope and floor next to the Cell 8 tie-in. The tie-in seam was not welded to allow the material pass though heat-cool cycles in order to reduce possible wrinkles at the tie-in.

In addition, ESI cut and removed a large wrinkle that had developed on the south slope. The wrinkle was cut, overlapped, and repaired.

Stratton Surveying was on-site to capture the secondary geomembrane as-built survey.

5.0 Leachate Transmission Line – CQA witnessed BMWC welding 10-in x 16-in double containment pipes in the BMWC laydown area. The pipe was stockpiled east of Cell 10.

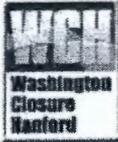
MEV

ENVIROTECH – CQA

7/9/10

DATE

PAGE 2 OF 2



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-099
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 86°F Lo: 57°F Wind: 35-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 27-28	Rob Stallings	N/A
Tyler Williams Book 2	Pages: 70-71	James Schur Book 1	Pages: 41-42

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	June 29, 2010	4,479Tons	Passed
Submittal 5-18J Cell 9:Admix Testing	Lift: 3 and 4	SL-473 to SL-481	Passed
Submittal 5-18J Cell 10:Admix Testing	Lift: 1	SL-470 to SL-472	Passed

CQA HOLD POINTS

Submittal 5-18R-033 Cell 10 Subgrade	June 29, 2010	Grids: G1, H1, I1
Submittal 5-18R-032 Cell 9 Admix Surface	June 29, 2010	Panels: S-45 to S-50
Submittal 5-18R-034 Cell 9 Primary Subgrade	June 29, 2010	Panels: P-01 to P-02

LABORATORY TESTING

5-18D Admix Soil Testing	AM-17	Proctor: On-going
5-18D Admix Soil Testing	AM-18	USCS: Passed

GENERAL ACTIVITIES

- 1.0 Weekly Progress Meetings – CQA attended the construction contractor's weekly progress meeting on Tuesday, June 29, 2010 at 10:00 am, in the WCH conference room.
- 2.0 CQA Progress Meeting – CQA weekly meeting was cancelled.
- 3.0 Secondary Geocomposite – Jack Howard, WCH STR, noted that number of ties used on the butt seams for two (2) of the secondary geocomposite panels were inadequate. The two (2) inadequate seams had not been accepted by CQA, and ESI shall correct the seams prior to CQA acceptance.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade of Cell 9 and Cell 10 with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. CQA also observed TWS moisture conditioning the admix subgrade prior to admix placement. CQA verified that moisture had penetrated 4-in into the subgrade prior to admix placement.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-099
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 86°F Lo: 57°F Wind: 35-mph

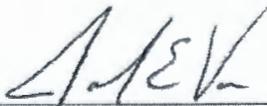
CONSTRUCTION ACTIVITIES

- 2.0 Admix Production – TWS produced a total of 4,479 tons of admix material on Tuesday, June 29, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in on the north slope and east of the lysimeter of Cell 9. In addition, CQA observed TWS placing admix on the west side of the Cell 10 floor. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller and the small double drum roller to proof roll the finished admix on the of Cell 9 to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

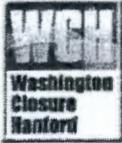
At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight

- 4.0 Secondary Geomembrane Deployment – CQA observed ESI deploying secondary geomembrane panels S-45 to S-50 over accepted admix subgrade on the north slope and floor of Cell 9. The panels were deployed from the north anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. The sheets were deployed from the east end of the admix, pulled across the floor from west to east by a Kubota ATV. After the sheets were deployed, and two fusion welders seamed the secondary geomembrane together. Panel S-43/tie-in panel remains open and unsealed.
- 5.0 Primary Geomembrane – CQA observed ESI deploying primary geomembrane panels P-03 to P-07 over accepted admix subgrade on the south slope and floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized to aid the geomembrane placement over the secondary geocomposite. A rub sheet was placed on the floor of Cell 9, and a track skid steer was used to pull the primary geomembrane over the primary geocomposite.
- 6.0 Leachate Transmission Line – CQA witnessed BMWC welding the riser pipes for Cell 10. The pipe was stockpiled east of Cell 10.

CQA also observed TWS grading and track walking the exterior slope of the north berm in the location of the buried leachate transmission line between manholes MH-37 and MH-38.


ENVIROTECH – CQA

7/10/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-100
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Clear : Hi: 78°F Lo: 50°F Wind: 21-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 29-31	James Schut Book 1	Pages: 43-44
Tyler Williams Book 2	Pages: 72-74		

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	June 30, 2010	5,521 Tons	Passed
Submittal 5-18J Cell 9:Admix Testing	Lift: 3, 4, and 5	SL-482 to SL-495	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 9 North Slope Grid D5	SL-487	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-035 Primary Subgrade	June 30, 2010	Panels: P-03 to P-07
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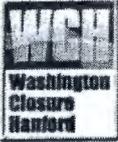
LABORATORY TESTING

5-18D Admix Soil Testing	AM-17	Proctor: Passed
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CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade of Cell 9 and Cell 10 with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic.
- 2.0 Admix Production – TWS produced a total of 5,521 tons of admix material on Wednesday, June 30, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the north slope and east of the lysimeter of Cell 9. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA observed TWS use the CAT 563 smooth drum roller and the small double drum roller to proof roll the finished admix on the of Cell 9 to maintain a sealed, smooth finish. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-100
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Clear : Hi: 78°F Lo: 50°F Wind: 21-mph

CONSTRUCTION ACTIVITIES

- 4.0 Secondary Geomembrane Deployment – CQA observed ESI conducting repairs and testing on the secondary geomembrane panels S-43 to S-50. CQA verified that all non-destructive testing met specifications. Panel S-43/tie-in panel remains open and unsealed.
- 5.0 Secondary Geocomposite – The inadequate composite overlapped and tied seams identified in Report 5-16-099 were corrected and retied. CQA verified that the seams were correctly tied and overlapped. Also, CQA observed ESI sewing the textile overlaps of the geocomposite and leistering textile patches over the geocomposite butt seams.
- 6.0 Primary Geomembrane – CQA observed ESI deploying primary geomembrane panels P-03 to P-07 over accepted secondary geocomposite on the south slope and floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized to aid the geomembrane placement over the secondary geocomposite. A rub sheet was placed on the floor of Cell 9, and a track skid steer was used to pull the primary geomembrane over the primary geocomposite.

After the sheets were deployed, two fusion welders seamed the primary geomembrane together.
- 7.0 Drainage Gravel – CQA observed TWS hauling 1,287 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.
- 8.0 Leachate Transmission Line – CQA witnessed BMWC welding the riser pipes for Cell 10. The pipe was stockpiled east of Cell 10.

ENVIROTECH – CQA

7/10/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-101	
Job Number:	S013213A00	Staff On-site	Date:	Thursday, July 1, 2010
Contractor(s):	TradeWind Services	3	Weather:	Pt. Cloudy; Hi: 83°F Lo: 52°F Wind: 33-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 32-34	James Schur Book 1	Pages: 45-46
Tyler Williams Book 2	Pages: 75-77		

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	July 1, 2010	5,441 Tons	Passed
Submittal 5-18J Cell 9: Admix Testing	Lifts: 5 and 6	SL-496 to SL-506	Passed
Submittal 5-18J Cell 9: Admix Testing	Lifts: 1 and 3	SL-507 to SL-513	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 - Cell 9 North Slope Grid D5	SL-487	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 - Cell 9 North Slope Grid A4	SL-499	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-036 Cell 10 Subgrade	July 1, 2010	Grids: M7, M8, and M9
Submittal 5-18R-037 Cell 9 Primary Subgrade	July 1, 2010	Panels: P-08 to P-13

LABORATORY TESTING

5-18D Admix Soil Testing	AM-19	Sample Collected USCS: On-going
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CONSTRUCTION ACTIVITIES

- 1.0 Subgrade - CQA observed TWS proof rolling the subgrade of Cell 9 and Cell 10 with the CAT 363 smooth drum roller to keep a level and smooth surface for haul traffic. CQA also observed TWS moisture conditioning the admix subgrade prior to admix placement. CQA verified that moisture had penetrated 4-in into the subgrade prior to admix placement.
- 2.0 Admix Production - TWS produced a total of 5,441 tons of admix material on Thursday, July 1, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Admix Placement - CQA observed TWS using two CAT D6 GPS dozers to place admix on the north slope and east of the lysimeter of Cell 9. In addition, CQA observed TWS placing admix on the southwest corner of the Cell 10 floor. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-101
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Clear : Hi: 83°F Lo: 52°F Wind: 33-mph

CONSTRUCTION ACTIVITIES

- 4.0 Secondary Geomembrane Deployment – CQA observed ESI conducting repairs and testing on the secondary geomembrane panels S-43 to S-50. CQA verified that all non-destructive testing met specifications. Panel S-43/tie-in panel remains open and unsealed.
- 5.0 Secondary Geocomposite – CQA observed ESI deploying secondary geocomposite along the south berm and the floor of Cell 9. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters. CQA also verified that the end seams on the slopes were staggered a minimum of 10-ft apart .
- 6.0 Primary Geomembrane – CQA observed ESI deploying primary geomembrane panels P-08 to P-13 over accepted secondary geocomposite on the south slope and floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized to aid the geomembrane placement over the secondary geocomposite. A rub sheet was placed on the floor of Cell 9, and a track skid steer was used to pull the primary geomembrane over the secondary geocomposite.
- After the sheets were deployed, two fusion welders seamed the primary geomembrane together.
- 7.0 Drainage Gravel – CQA observed TWS hauling 1,440 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.
- 8.0 Leachate Transmission Line – CQA witnessed BMWC welding the riser pipes for Cell 10. The pipe was stockpiled east of Cell 10.

In addition, CQA observed the CAT 330 excavator trimming the north embankment slope to grade between manholes MH-36 and MH-38.

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-102
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Cloudy : Hi: 74°F Lo: 54°F Wind: 33-mph Rain: 0.02-in.

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 35	James Schut Book 1	Pages: 47-48
Tyler Williams Book 2	Pages: 78-80		

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	July 2, 2010	4,086Tons	Passed
Submittal 5-18J Cell 9:Admix Testing	Lift: 6	SL-524	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1 and 3	SL-514 to SL-527	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 9 North Slope Grid D5	SL-487	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 9 North Slope Grid A4	SL-499	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-038 Cell 10 Subgrade	July 2, 2010	Grids: N7, O7, and P7
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LABORATORY TESTING

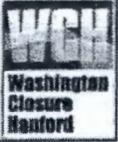
5-18D Admix Soil Testing	AM-19	USCS: On-going
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GENERAL ACTIVITIES

1.0 Rain Event – At the end of the day, a small rain shower occurred. Since all geomembrane was seamed, no damage to the underlying subgrade occurred; however, the sump area was filled with water and will be addressed at a later date.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade of Cell 9 and Cell 10 with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. CQA also observed TWS moisture conditioning the admix subgrade prior to admix placement. CQA verified that moisture had penetrated 4-in into the subgrade prior to admix placement.
- 2.0 Admix Production – TWS produced a total of 4,086 tons of admix material on Friday, July 2, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-102
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Cloudy : Hi: 74°F Lo: 54°F Wind: 33-mph Rain: 0.02-in.

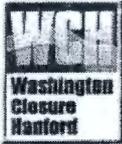
CONSTRUCTION ACTIVITIES

- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix in the lysimeter of Cell 9. In addition, CQA observed TWS placing admix on the south half of the Cell 10 floor. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.
- At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight.
- 4.0 Secondary Geomembrane Deployment – CQA observed ESI completing repairs and non-destructive testing on the south slope prior to deployment of the secondary geocomposite. In addition, CQA observed ESI welding panel S-43 to the Cell 8 tie-in that had been left exposed.
- 5.0 Secondary Geocomposite – CQA observed ESI deploying secondary geocomposite along the south berm and floor of Cell 9. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters. CQA also verified that the end seams on the slopes were staggered a minimum of 10-ft apart.
- 6.0 Primary Geomembrane – CQA observed ESI conducting repairs and non-destructive testing on the previously deployed primary panels P-01 to P-13. CQA verified that all repairs met construction specifications. In addition, CQA observed ESI cutting destructive tests and repairing the cut areas.
- 7.0 Drainage Gravel – CQA observed TWS hauling 1,541 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-103
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear : Hi: 88°F Lo: 58°F Wind: 20-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 36-37	Joe Voss Book 1	Pages: 126-128
Tyler Williams Book 2	Pages: 81-83	James Schut Book 1	Pages: 49-51

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	July 6, 2010	4,259Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1 and 2	SL-528 to SL-541	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 9 North Slope Grid D5	SL-487	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 9 North Slope Grid A4	SL-499	Perm: On-going

CQA HOLD POINTS

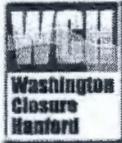
Submittal 5-18R-039 Cell 10 Subgrade	July 6, 2010	Grids: N8, O8, P8, and M10
Submittal 5-18R-040 Cell 9 Primary Subgrade	July 6, 2010	Panels: P-08 to P-13

LABORATORY TESTING

5-18D Admix Soil Testing	AM-19	USCS: On-going
5-18D Admix Soil Testing	AM-20	Sample Collected USCS: On-going
5-18K Type A Drainage Gravel	DG-A-01	Sample Collected Perm and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Rain Event – TWS began evacuating water from the Cell 9 sump with a submersible pump. The water was removed to the Cell 10 sump and the admix is being allowed to air dry.
- 2.0 Surveyor – Stratton Surveying was on-site to capture the admix thickness on the north slope and floor as well as liner repair and seam locations.
- 3.0 Composite Tie-in – The design drawings show the secondary composite tie-in to the secondary drain gravel along the floor of Cell 9 to have a 2-ft overlap. TWS submitted an SDDR to request no overlap of the secondary drainage gravel to composite due to the limited amount of space available to perform the activity



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-103
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear : Hi: 88°F Lo: 58°F Wind: 20-mph

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade of Cell 9 and Cell 10 with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. CQA also observed TWS moisture conditioning the admix subgrade prior to admix placement. CQA verified that moisture had penetrated 4-in into the subgrade prior to admix placement.
- 2.0 Admix Production – TWS produced a total of 4,259 tons of admix material on Tuesday, July 6, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the south half of the Cell 10 floor and slope. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

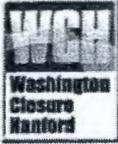
At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight.

The CQA surveyors were on-site to verify admix lift thickness on the north berm.

- 4.0 Secondary Geomembrane Deployment – The CQA surveyor, Stratton Surveying, was on-site to perform the secondary liner as-built survey.
 - 5.0 Secondary Geocomposite – CQA observed ESI deploying secondary geocomposite along the south berm and floor of Cell 9. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters. CQA also verified that the end seams on the slopes were staggered a minimum of 10-ft apart.
 - 6.0 Primary Geomembrane – CQA observed ESI deploying primary geomembrane panels P-14 to P-17 over accepted secondary geocomposite on the south slope and floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized to aid the geomembrane placement over the secondary geocomposite. A rub sheet was placed on the floor of Cell 9, and a track skid steer was used to pull the primary geomembrane over the secondary geocomposite.
- After the sheets were deployed, two fusion welders seamed the primary geomembrane together.
- 7.0 Drainage Gravel – CQA observed TWS hauling 1,625 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10. Sample DG-A-01 collected from stockpile.
 - 8.0 Leachate Transmission Line – CQA witnessed BMWC welding the riser pipes for Cell 10. The pipe was stockpiled east of Cell 10.


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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-104
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 96°F Lo: 58°F Wind: 20-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 38-39	Joe Voss Book 1	Pages: 128-130
Tyler Williams Book 2	Pages: 84-86	James Schut Book 1	Pages: 52-53

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	July 7, 2010	2,935Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1 and 2	SL-542 to SL-557	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 9 North Slope Grid D5	SL-487	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 9 North Slope Grid A4	SL-499	Perm: Passed

CQA HOLD POINTS

Submittal 5-18R-041 Cell 10 Subgrade	July 7, 2010	Grids: N9, O9, and P9
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-19	USCS: Passed
5-18D Admix Soil Testing	AM-20	USCS: Passed
5-18D Admix Soil Testing	AM-21	Sample Collected USCS, Proctor, and Perm: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Sample Collected Perm and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Geocomposite Receiving – Based upon production information provided by Skaps, the CQA geosynthetic testing laboratory performed sampling and testing of the geocomposite. However, the roll list provided by Skaps and the shipped roll list do not match. Geocomposite roll numbers 354710823 to 354710864 have been delivered to site, but neither show up on the information provided by the manufacturer nor have been conformance tested. CQA and CQC shall work on resolving the inconsistency.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade of Cell 9 and Cell 10 with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. CQA also observed TWS moisture conditioning the admix subgrade prior to admix placement. CQA verified that moisture had penetrated 4-in into the subgrade prior to admix placement.



CQA DAILY CONSTRUCTION REPORT

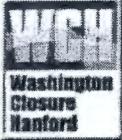
Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-104
Job Number:	S013213A00	Staff On-site	Date: Wednesday, July 7, 2010
Contractor(s):	TradeWind Services	4	Weather: Clear : Hi: 96°F Lo: 58°F Wind: 20-mph

CONSTRUCTION ACTIVITIES

- 2.0 Admix Production – TWS produced a total of 2,935 tons of admix material on Wednesday, July 7, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications. The pugmill shut down early for routine maintenance.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the south half of the Cell 10 floor and slope. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.
- At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight.
- CQA observed TWS utilizing the CAT D6 dozer to trim the admix on the north half of Cell 9 to grade.
- CQA observed the CAT 312 loading excess admix soil at the top of the Cell 9 slope into a Payhauler truck and removing the soil from the cell. CQA then observed TWS utilizing the CAT 312 excavator to excavate the Cell 9 leachate riser trench aided by the TWS surveyor.
- 4.0 Anchor Trench – CQA observed ESI welding the primary geomembrane to the secondary geomembrane in the south anchor trench from panel P-01 to P-17.
- 5.0 Secondary Geocomposite – CQA observed ESI deploying secondary geocomposite along the south berm and floor of Cell 9 up to the Cell 9 tie-in; however, the tie-in was not completed. In addition, CQA observed ESI deploying geocomposite east to west on the floor of Cell 9. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters. CQA also verified that the end seams on the slopes were staggered a minimum of 10-ft apart.
- 6.0 Primary Geomembrane – CQA observed ESI deploying primary geomembrane panels P-14 to P-17 over accepted secondary geocomposite on the south slope and floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized to aid the geomembrane placement over the secondary geocomposite. A rub sheet was placed on the floor of Cell 9, and a track skid steer was used to pull the primary geomembrane over the secondary geocomposite.
- After the sheets were deployed, two fusion welders seamed the primary geomembrane together.
- 7.0 Drainage Gravel – CQA observed TWS hauling 2,317 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10. Sample DG-A-02 collected from stockpile.
- 8.0 Leachate Transmission Line – CQA witnessed BMWC welding the riser pipes for Cell 10. The pipe was stockpiled east of Cell 10.

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-105
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 99°F Lo: 60°F Wind: 17-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 40-41	Joe Voss Book 1	Pages: 131
Tyler Williams Book 2	Pages: 87-90	James Schut Book 1	Pages: 54-56

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	July 7, 2010	5,315Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1, 2, 3, and 4	SL-558 to SL-570	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 10 South Slope Grid P6	SL-564	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-042 Cell 10 Subgrade	July 8, 2010	Grids: N10, O10, and P10
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-21	USCS, Proctor, and Perm: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Sample Collected Perm and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Geocomposite Tie-in – Tyler Williams with CQA, Tim Wintel with WCH Engineering, and Rodger Hoben with TWS met on the geocomposite tie-in. Tim indicated that the intent was either maintain 1-ft of drainage gravel or geocomposite over the secondary liner in all locations. However, Tim maintained that he had to verify the exact formation of the geocomposite tie-in with the design engineers.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade of Cell 9 and Cell 10 with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. CQA also observed TWS moisture conditioning the admix subgrade prior to admix placement. CQA verified that moisture had penetrated 4-in into the subgrade prior to admix placement.
- 2.0 Admix Production – TWS produced a total of 5,315 tons of admix material on Thursday, July 8, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-105
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: °F Lo: °F Wind: -mph

CONSTRUCTION ACTIVITIES

3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the south half of the Cell 10 floor and slope. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight.

CQA observed TWS utilizing the CAT D6 dozer to trim the admix on the north half of Cell 9 to grade. After the admix was cut to grade, CQA observed TWS use the CAT 563 smooth drum roller and the small double drum roller to proof roll the finished admix on the of Cell 9 to maintain a sealed, smooth finish.

CQA observed TWS utilizing the CAT 312 excavator to excavate the Cell 9 leachate riser trench aided by the TWS surveyor.

4.0 Secondary Geocomposite – CQA observed ESI deploying geocomposite east to west on the floor of Cell 9. And north to south along the Cell 9 tie-in. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters.

5.0 Primary Geomembrane – CQA observed ESI deploying primary geomembrane panels P-14 to P-17 over accepted secondary geocomposite on the south slope and floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized to aid the geomembrane placement over the secondary geocomposite. A rub sheet was placed on the floor of Cell 9, and a track skid steer was used to pull the primary geomembrane over the primary geocomposite.

After the sheets were deployed, two fusion welders seamed the primary geomembrane together.

6.0 Drainage Gravel – CQA observed TWS hauling 2,700 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10. Sample DG-A-03 collected from stockpile.

7.0 Leachate Transmission Line – CQA witnessed BMWC welding the riser pipes for Cell 10. The pipe was stockpiled east of Cell 10.

8.0 Cell 10 Crest Pad – TWS poured concrete for the Cell 10 crest pad duct bank. Intermountain Material Testing (IMT) was on-site to perform testing on the concrete.


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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-106
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 105°F Lo: 63°F Wind: 31-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 42-43	Joe Voss Book 1	Pages: 132-133
Tyler Williams Book 2	Pages: 91-92	James Schut Book 1	Pages: 57-58

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	July 9, 2010	4,868 Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 2, 3, 4, and 5	SL-571 to SL-591	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 10 South Slope Grid P6	SL-564	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 – Cell 10 South Slope Grid N7	SL-588	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-043 Cell 9 Primary Subgrade	July 9, 2010	Panels: P-18 to P-21
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LABORATORY TESTING

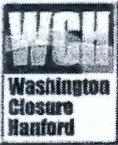
5-18D Admix Soil Testing	AM-21	USCS, Proctor, and Perm: On-going
5-18D Admix Soil Testing	AM-22	Sample Collected USCS: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going

GENERAL ACTIVITIES

1.0 Geocomposite Tie-in – ESI and TWS began working on the geocomposite tie-in on the Cell 9 floor as per conversations between WCH and TWS. However, CQA noted that the work did not meet the design drawings and without further direction from WCH, CQA could not certify that the tie-in matches the design drawings.

At the end of the day, Joseph Voss, CQA Engineer, met with Bill Melvin, WCH project lead, and Rodger Hoben with TWS on the geocomposite tie-in. The conversation between the parties indicated that the geocomposite needed to be overlapped with 2-ft of drainage gravel. While either 1-ft of drainage gravel or geocomposite needed to be maintained at all times, no set height of drainage gravel was required over the geocomposite. TWS indicated that the tie-in would be built according to specifications, and no SDDR would be required.

2.0 Geomembrane Deployment - CQA halted geomembrane installation at 12:25 after temperature reached well above 104 degrees Fahrenheit 12-in above the geomembrane.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-106
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 105°F Lo: 63°F Wind: 31-mph

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS proof rolling the subgrade of Cell 9 and Cell 10 with the CAT 563 smooth drum roller to keep a level and smooth surface for haul traffic. CQA also observed TWS moisture conditioning the admix subgrade prior to admix placement.
- 2.0 Admix Production – TWS produced a total of 4,868 tons of admix material on Friday, July 9, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the south half of the Cell 10 floor and slope. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight.

CQA observed TWS utilizing the CAT 312 excavator to excavate the Cell 9 leachate riser trench and admix sump aided by the TWS surveyor.

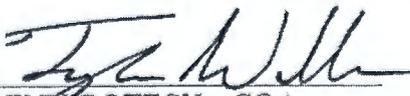
- 4.0 Secondary Geocomposite – CQA observed ESI deploying geocomposite east to west on the floor of Cell 9. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters.

CQA observed ESI and TWS working on the geocomposite tie-in on the Cell 9 floor as per conversations between WCH and TWS. The gravel was shoveled back to make a 1-ft vertical cut, the geocomposite was butted up against the rock, and the 16 oz geotextile was lystered together around the existing drainage gravel.

- 5.0 Primary Geomembrane – CQA observed ESI deploying primary geomembrane panels P-18 to P-21 over accepted secondary geocomposite on the south slope and floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized to aid the geomembrane placement over the secondary geocomposite. A rub sheet was placed on the floor of Cell 9, and a track skid steer was used to pull the primary geomembrane over the secondary geocomposite.

After the sheets were deployed, two fusion welders seamed the primary geomembrane together.

- 6.0 Drainage Gravel – CQA observed TWS hauling 2,628 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.

 5-19-2010
ENVIROTECH – CQA DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-107
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Clear : Hi: 83°F Lo: 59°F Wind: 42-mph (High Winds)

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 44-45	Joe Voss Book 1	Pages: 134-135
Tyler Williams Book 2	Pages: 93-95	James Schut Book 1	Pages: 59-60

FIELD TESTING

Submittal 5-18Q Cell 10 Lysimeter	Cell 10 Lysimeter Backfill	LY10-01	Passed
Submittal 5-18E Belt Scale Measurements	July 12, 2010	5,540 Tons	Passed
Submittal 5-18J Cell 9:Admix Testing	Lifts: 6	SL-603 to SL-605	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 4, 5, and 6	SL-592 to SL-602	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 10 South Slope Grid P6	SL-564	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 - Cell 10 South Slope Grid N7	SL-588	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 10 South Slope Grid N9	SL-594	Sample Collected Perm: On-going

LABORATORY TESTING

5-18D Admix Soil Testing	AM-21	USCS, Proctor, and Perm: On-going
5-18D Admix Soil Testing	AM-22	USCS: On-going
5-18D Admix Soil Testing	AM-23	Sample Collected USCS: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Sample Collected Perm and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Geocomposite Tie-in – A meeting on the geocomposite tie-in was held at 8:30 in the morning. At the end of the meeting, TWS said that the tie-in would be constructed as per design drawings as mentioned previously in Report 5-16-106.

- 2.0 Geosynthetic Placement – Due to high winds and blowing sand, no geomembrane was deployed. Geosynthetics installation was halted early due to the blowing sand.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-107
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Clear : Hi: 83°F Lo: 59°F Wind: 42-mph (High Winds)

CONSTRUCTION ACTIVITIES

1.0 Subgrade – CQA observed TWS moisture conditioning the admix subgrade prior to admix placement.

CQA also observed TWS excavating the lysimeter trench in the subgrade of the Cell 10 north berm with the CAT 312 excavator.

2.0 Admix Production – TWS produced a total of 5,540 tons of admix material on Monday, July 12, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.

3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the south half of the Cell 10 floor and slope. In addition, CQA observed TWS completing the 6th lift of admix on the north berm in Cell 9. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight.

The CQA surveyor was on-site to verify admix thickness in the Cell 9 sump and riser trench. The CQA surveyor verified that the admix met lines and grades.

4.0 Secondary Geomembrane – CQA observed ESI conducting non-destructive testing and repairs to panels S-44 to S-50 and the Cell 9 tie-in. The CQA surveyors were on-site to conduct the seam survey on the secondary geomembrane.

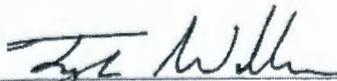
5.0 Secondary Geocomposite – CQA observed ESI deploying geocomposite east to west on the floor of Cell 9. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters.

CQA observed ESI and TWS working on the geocomposite tie-in on the Cell 9 floor as per conversations between WCH and TWS. The gravel was shoveled back to make a 1-ft vertical cut, the geocomposite was butted up against the rock, and the existing 16 oz geotextile was lystered together around the drainage gravel.

6.0 Primary Geomembrane – CQA observed ESI conducting primary geomembrane nondestructive testing and repairs to primary panels P-14 to P-21. The CQA surveyors were on-site to conduct the seam survey on the secondary geomembrane.

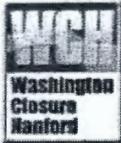
7.0 Drainage Gravel – CQA observed TWS hauling 2,880 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.

8.0 Electrical Duct Bank – CQA observed TWS pouring concrete over the electrical duct back from Crest Pad 10 to the Cell 10 electrical vault. Intermountain Testing (IMT) was on-site to perform CQ testing on the concrete placed.


ENVIROTECH – CQA

7-19-2010
DATE

PAGE 2 OF 2



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-108
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 80°F Lo: 53°F Wind: 27-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 46-48	Joe Voss Book 1	Pages: 136-137
Tyler Williams Book 2	Pages: 96-99	James Schut Book 1	Pages: 61-63

FIELD TESTING

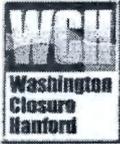
Submittal 5-18Q Cell 10 Lysimeter	Lifts: 2 - 4	LY10-02 to LY10-04	Passed
Submittal 5-18B Earthwork Field Data	Cell 10 Electrical Bank	EB-09 to EB-10	Passed
Submittal 5-18E Belt Scale Measurements	July 13, 2010	5,694 Tons	Passed
Submittal 5-18J Cell 9:Admix Testing	Lifts: 6	SL-609 to SL-611	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1, 2, 3, 4, and 5	SL-606 to SL-634	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 10 South Slope Grid P6	SL-564	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 - Cell 10 South Slope Grid N7	SL-588	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 10 South Slope Grid N9	SL-594	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 9 North Slope Grid C5	SL-611	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-044 Cell 10 Subgrade	July 13, 2010	Grids: L7, L8, L9, and L10
Submittal 5-18R-045 Cell 9 Admix Surface	July 13, 2010	Panels: S-51 to S-54
Submittal 5-18R-046 Cell 9 Primary Subgrade	July 13, 2010	Panels: P-22 to P-24

LABORATORY TESTING

5-18D Admix Soil Testing	AM-21	Perm: On-going
5-18D Admix Soil Testing	AM-22	USCS: On-going
5-18D Admix Soil Testing	AM-23	USCS: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Sample Collected Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Sample Collected Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Sample Collected Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-01	Sample Collected Perm and USCS: On-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-108
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 80°F Lo: 53°F Wind: 27-mph

GENERAL ACTIVITIES

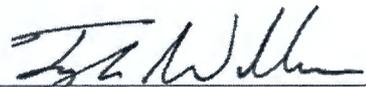
- 1.0 Weekly Progress Meetings – CQA attended the construction contractor’s weekly progress meeting on Tuesday, July 12, 2010 at 10:00 am. in the WCH conference room.
- 2.0 CQA Progress Meeting – CQA attended the construction contractors CQA meeting on Tuesday, July 12, 2010 at 10:30 am. in the WCH conference room.
- 3.0 WCH Oversight – CQA records were inspected by Mike Webb. Mike concentrated on the process of receiving geosynthetic materials.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS moisture conditioning the admix subgrade prior to admix placement. CQA also observed TWS moisture conditioning the admix subgrade prior to admix placement.

CQA observed TWS placing and backfilling the Cell 10 lysimeter pipe. The pipe was placed into the trench on the north slope and backfilled the CQA 312 excavator. CQA tested and verified that the trench met contract specifications.
- 2.0 Admix Production – TWS produced a total of 5,694 tons of admix material on Tuesday, July 13, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the south half of the Cell 10 floor and slope. In addition, CQA observed TWS completing the 6th lift of admix on the north berm in Cell 9. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight.
- 4.0 Anchor Trench – CQA observed TWS conducting repairs to the Cell 9 north anchor trench. TWS rounded the top edge and smooth the bottom surface as directed by CQA and ESI.


ENVIROTECH – CQA

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DATE



CQA DAILY CONSTRUCTION REPORT

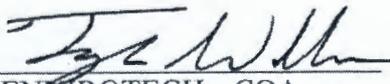
Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-108
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 80°F Lo: 53°F Wind: 27-mph

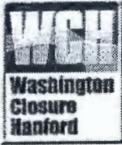
CONSTRUCTION ACTIVITIES

- 5.0 Secondary Geomembrane – CQA observed ESI deploying secondary geomembrane panels S-51 to S-54 over accepted admix subgrade on the north slope and floor of Cell 9. The panels were deployed from the north anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion.

After the sheets were deployed, two fusion welders seamed the secondary geomembrane together.
- 6.0 Primary Geomembrane – CQA observed ESI conducting primary geomembrane nondestructive testing and repairs to primary panels P-1 to P-21. In particular, a large wrinkle developed on the south slope, panels P5 thru P1. The wrinkle was cut and repaired as per specifications. After the repairs were completed, ESI conducted non-destructive testing as required.

CQA also observed ESI deploying primary geomembrane panels P-23 and P-24 on the floor of Cell 9, east to west. A rub sheet was utilized as a track skid steer pulled the liner across the cell. After the sheets were deployed, two fusion welders seamed the primary geomembrane together.
- 7.0 Drainage Gravel – CQA observed TWS hauling 2,088 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.
- 8.0 Electrical Duct Bank – CQA observed TWS backfilling the electrical duct bank between Crest Pad 10 and the Cell 10 electrical vault. TWS placed and compacted two (2) lifts of material over the electrical lines with the CAT 312 excavator and a jumping jack hand compactor. CQA tested and verified that lifts 1 and 2 met construction specifications.

 7.19.2010
 ENVIROTECH – CQA DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-109
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Clear : Hi: 100°F Lo: 55°F Wind: 27-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 49-51	Joe Voss Book 1	Pages: 138-139
Tyler Williams Book 2	Pages: 100-103		

FIELD TESTING

Submittal 5-18B Earthwork Field Data	Cell 10 Electrical Bank	EB-11 to EB-12	Passed
Submittal 5-18E Belt Scale Measurements	July 14, 2010	5,414 Tons	Passed
Submittal 5-18J Cell 9:Admix Testing	Lifts: 6	SL-641 to SL-642	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1, 2, 3, 4, and 5	SL-635 to SL-650	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 10 South Slope Grid P6	SL-564	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 – Cell 10 South Slope Grid N7	SL-588	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 10 South Slope Grid N9	SL-594	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 9 North Slope Grid C5	SL-611	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-047 Cell 10 Subgrade	July 14, 2010	Grids: J7 and K7
Submittal 5-18R-048 Cell 9 Admix Surface	July 14, 2010	Panels: S-55 to S-57

LABORATORY TESTING

5-18D Admix Soil Testing	AM-21	Perm: On-going
5-18D Admix Soil Testing	AM-22	USCS: On-going
5-18D Admix Soil Testing	AM-23	USCS: Completed
5-18D Admix Soil Testing	AM-24	Sample Collected USCS: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going

CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-109
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Clear : Hi: 100°F Lo: 55°F Wind: 27-mph

GENERAL ACTIVITIES

- 1.0 DOE Audit – CQA was audited by DOE auditor Harry Moomey. Harry audited the production to installation of the geosynthetic liner. He inspected all aspects of the process, from the plant visit to observing the field process of installation.
- 2.0 Stop Work – At approximately 13:20, all work in the trench was stopped due to a release on July 13, 2010 in the active Cell 7 and 8. A meeting was held in the work trailer detailing the events. An unknown metallic/sulfuric gas was released from the active cells. WCH stopped work on July 13, 2010 for worker safety on the landfill site; however, construction was allowed to proceed. Due to the poor communication of the hazard and nature of the release, work in the trench was shutdown indefinitely. All exposed workers were allow to have blood and urine testing conducted.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS moisture conditioning the admix subgrade prior to admix placement. CQA also observed TWS moisture conditioning the admix subgrade prior to admix placement.
- 2.0 Admix Production – TWS produced a total of 5,414 tons of admix material on Wednesday, July 14, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the south half of the Cell 10 floor and slope. In addition, CQA observed TWS completing the 6th lift of admix on the north berm in Cell 9. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight.

- 4.0 Anchor Trench – CQA observed TWS excavating the anchor trench from the Cell 9 Crest Pad Building to the east edge of Cell 9 with the CAT 312 excavator.
- 5.0 Secondary Geomembrane – CQA observed ESI deploying secondary geomembrane panels S-55 to S-57 over accepted admix subgrade on the north slope and floor of Cell 9. The panels were deployed from the north anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. Panels S-56 and S-57, located in the Cell 9 riser trench, are situated so that the seam is near the center of the riser trench.

After the sheets were deployed, two fusion welders seamed the secondary geomembrane together.



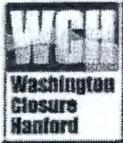
CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-109
Job Number:	S013213A00	Staff On-site	Date: Wednesday, July14, 2010
Contractor(s):	TradeWind Services	3	Weather: Clear : Hi: 100°F Lo: 55°F Wind: 27-mph

CONSTRUCTION ACTIVITIES

- 6.0 Primary Geomembrane – CQA observed ESI deploying one (1) panel of primary geomembrane east to west across Cell 9 along the south edge of the primary geomembrane. However, work was stopped prior to welding. The liner was not sufficiently weighted down prior to exiting the trench.
- 7.0 Drainage Gravel – TWS began hauling Type B drainage gravel to site. The material was stockpiled east of Cell 10.
- 8.0 Electrical Duct Bank – CQA observed TWS backfilling the electrical duct bank between Crest Pad 10 and the Cell 10 electrical vault. TWS placed and compacted two (2) lifts of material over the electrical lines with the CAT 312 excavator and a jumping jack hand compactor. CQA tested and verified that lifts 3 and 4 met construction specifications.

 7-19-2010
 ENVIROTECH – CQA DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-110
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Clear : Hi: 99°F Lo: 55°F Wind: 27-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 52-53	Joe Voss Book 1	Pages: 140-141
Ryan Swenson Book 1	Page: 1		

FIELD TESTING

Submittal 5-18B Earthwork Field Data	Northeast Haul Ramp	R-01 to R-02	Passed
Submittal 5-18E Belt Scale Measurements	July 15, 2010	4,877 Tons	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 10 South Slope Grid P6	SL-564	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 – Cell 10 South Slope Grid N7	SL-588	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 10 South Slope Grid N9	SL-594	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 9 North Slope Grid C5	SL-611	Perm: On-going

LABORATORY TESTING

5-18D Admix Soil Testing	AM-21	Perm: Passed
5-18D Admix Soil Testing	AM-22	USCS: On-going
5-18D Admix Soil Testing	AM-24	USCS: On-going
5-18D Admix Soil Testing	AM-25	USCS, Proctor, Perm: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: On-going

GENERAL ACTIVITIES

1.0 Stop Work – The stop work called yesterday. Report 5-16-109, continues for trench operations.



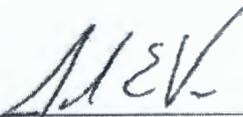
CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-110
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Clear : Hi: 99°F Lo: 55°F Wind: 27-mph

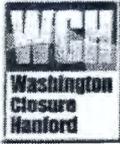
CONSTRUCTION ACTIVITIES

- 1.0 Admix Production – TWS produced a total of 4,877 tons of admix material on Thursday, July 15, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 2.0 Northeast Ramp – CQA observed TWS constructing the operations access ramp on the northeast side of Cell 9. CQA witnessed TWS utilizing a CAT D6 dozer to place the material on the subgrade and a CAT smooth drum roller to compact the fill material. CQA verified that the subgrade and fill material met compaction specifications.
- 3.0 Leachate Transmission Pipe – CQA observed TWS pressure testing the double containment pipe between MH-21 and MH-22. CQA verified that the inner pipe held 37 psi for one hour. CQA also verified that the outer pipe held 11 psi and no leaks were observed at the pipe joints.

In addition, CQA observed TWS excavating the leachate transmission drain pipe trenches. TWS utilized the CAT 312 excavator aided by the CQC surveyor to excavate the trenches from MH-32 and MH-33 out the north embankment.


 ENVIROTECH – CQA

7/26/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-111
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Clear : Hi: 97°F Lo: 64°F Wind: 30-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 54-56	Joe Voss Book 1	Pages: 142-143
Ryan Swenson Book 1	Page: 2		

FIELD TESTING

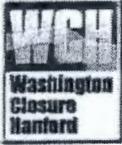
Submittal 5-18B Earthwork Field Data	Northeast Haul Ramp	R-03 to R-04	Passed
Submittal 5-18B Leachate Transmission	Lift: 5-8	LT-113 to LT-116	Passed
Submittal 5-18E Belt Scale Measurements	July 16, 2010	4,568 Tons	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 – Cell 10 South Slope Grid N7	SL-588	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 10 South Slope Grid N9	SL-594	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 9 North Slope Grid C5	SL-611	Perm: On-going

LABORATORY TESTING

5-18D Admix Soil Testing	AM-22	USCS: On-going
5-18D Admix Soil Testing	AM-24	USCS: On-going
5-18D Admix Soil Testing	AM-25	USCS, Proctor, Perm: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-08	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-09	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-03	Perm and USCS: On-going
5-18A Structural Fill	SF-09	Proctor and USCS: On-going
5-18A Structural Fill	SF-10	Proctor and USCS: On-going

GENERAL ACTIVITIES

1.0 Stop Work – The stop work has continued for trench operations.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	S-16-111
Job Number:	S013213A00 Staff On-site	Date:	Friday, July 16, 2010
Contractor(s):	TradeWind Services 3	Weather:	Clear : Hi: 97°F Lo: 64°F Wind: 30-mph

CONSTRUCTION ACTIVITIES

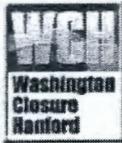
- 1.0 Admix Production – TWS produced a total of 4,568 tons of admix material on Friday, July 16, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 2.0 Northeast Ramp – CQA observed TWS constructing the operations access ramp on the northeast side of Cell 9. CQA witnessed TWS utilizing a CAT D6 dozer to place the material on the subgrade and a CAT smooth drum roller to compact the fill material. CQA verified that the subgrade and fill material met compaction specifications.
- 3.0 Leachate Transmission Pipe – CQA observed TWS placing four (4) lifts of backfill around MH-21. TWS placed lifts five(5) through lift eight(8). Each lift was moisture conditioned and compacted with the jumping jack hand compactors. CQA tested and verified that each lift placed met the contract specifications.

In addition, CQA observed TWS using the CAT 330 excavator to excavate between MH-34 and MH-35 in preparation for placing the 10x16-in double contained HDPE transmission line.

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-112
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 93°F Lo: 57°F Wind: 21-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 57-59	Tyler Williams Book 2	Pages: 104-106
James Schut Book 1	Page: 66-67	Ryan Swenson Book 1	Pages: 3-4

FIELD TESTING

Submittal 5-18B Earthwork Field Data	Northeast Haul Ramp	R-05	Passed
Submittal 5-18B Leachate Transmission	MH-32: Lifts: 1 - 4	LT-117 to LT-120	Passed
Submittal 5-18B Leachate Transmission	MH-33: Lifts: 1 - 6	LT-121 to LT-125	Passed
Submittal 5-18E Belt Scale Measurements	July 19, 2010	5.647 Tons	Passed
Submittal 5-18J Cell 10: Admix Testing	Lifts: 1 and 5	SL-651 to SL-657	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 - Cell 10 South Slope Grid N7	SL-588	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 10 South Slope Grid N9	SL-594	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 9 North Slope Grid C5	SL-611	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-049 Cell 9 Primary Subgrade	July 19, 2010	Panels: P-25 to P-27
Submittal 5-18R-050 Cell 10 Subgrade	July 19, 2010	Grids: K8, K9, and K10

LABORATORY TESTING

5-18D Admix Soil Testing	AM-22	USCS: Complete
5-18D Admix Soil Testing	AM-24	USCS: Complete
5-18D Admix Soil Testing	AM-25	USCS: Complete Proctor, Perm: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-08	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-09	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-03	Perm and USCS: On-going
5-18A Structural Fill Base Course	SF-09	Proctor and USCS: On-going
5-18A Structural Fill Top Course	SF-10	Proctor and USCS: On-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-112
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Monday, July 19, 2010
		Weather:	Clear : Hi: 93°F Lo: 57°F Wind: 21-mph

GENERAL ACTIVITIES

- 1.0 Stop Work – At 10:30 WCH held a meeting to discuss the incident that triggered the stop work that occurred last Wednesday, July 14, 2010 (Report 5-16-109) in the active Cells 7 and 8. The stop work continued for trench operations. WCH announced the events that transpired prior to and immediately after the incident and discussed the new procedures in place to protect individuals working in Cells 9 and 10. The new procedures state that if there is ever a Stop Work in the active cells for similar incidents, that the same Stop Work will be initiated in Cells 9 and 10.

The Stop Work was withdrawn and work in Cells 9 and 10 trench resumed at approximately 12:45.

- 2.0 Survey – TWS requested that the drain lines from MH-32 to MH-33 to be surveyed in order to release backfill operations. WCH requested TWS surveyors locate the pipe and reschedule the survey for a later date.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS moisture conditioning the admix subgrade prior to admix placement.

- 2.0 Admix Production – TWS produced a total of 5,647 tons of admix material on Monday, July 19, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.

- 3.0 Admix Placement – TWS spent most of the day re-working and moisture conditioning the admix liner that had dried out since the stop work order was initiated. TWS reconditioned the admix on the south half of Cell 10. In addition, TWS placed admix material on approved subgrade on the south floor of Cell 10. CQA observed TWS using two CAT D6 GPS dozers to place the admix. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.

- 4.0 Secondary Geomembrane – CQA observed ESI straightening secondary liner panel S-57 that became folded over due to lack of sandbags during the shutdown period. After the liner was straightened, CQA observed ESI fusion welding the panel S-57 to panel S-56.

- 5.0 Secondary Geocomposite – CQA observed ESI deploying two (2) geocomposite panels east to west on the floor of Cell 9. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	05-016-112
Job Number:	S013213A00	Staff On-site	Date: Monday, July 19, 2010
Contractor(s):	TradeWind Services	3	Weather: Clear : Hi: 93°F Lo: 57°F Wind: 21-mph

CONSTRUCTION ACTIVITIES

6.0 Primary Geomembrane - CQA observed ESI deploying two (2) additional panels of primary geomembrane, P-26 and P-27, next to the previously deployed panel P-25 along the south edge of the primary geomembrane on the floor of Cell 9.

After the panels were deployed, CQA observed TWS utilizing two (2) fusion welders to weld the primary seams.

7.0 Drainage Gravel - TWS began hauling Type B drainage gravel to site. The material was stockpiled east of Cell 10.

8.0 Leachate Transmission Pipe - CQA observed BMWC pressure testing the 4-in. drain line from MH-32 to the north edge of the north berm. CQA verified that the pressure test met project specifications. BMWC also pressure tested the 4-in. drain line from MH-33. The initial test failed to meet specifications. BMWC shall retest at a later time.

After the testing was completed on the 4-in. drain lines, TWS surveyed both drain lines under CQA supervision. TWS points shall be used for the CQA as-built survey as directed by WCH. CQA then observed TWS placing six (6) lifts of backfill over MH-32 drain line. TWS moisture conditioned and compacted the backfill with a jumping jack hand compactor. CQA tested and verified that the backfill met construction specifications.

9.0 Electrical Trench - CQA observed TWS backfilling the electrical duct trench between MH-33 and the Cell 10 electrical vault. TWS placed and compacted three lifts of backfill with the jumping jack hand compactor. CQA tested and verified that the backfill met construction specifications.

[Signature]

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-113
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 95°F Lo: 60°F Wind: 18-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 60-62	Tyler Williams Book 2	Pages: 107-108
James Schut Book 1	Page: 68-70	Ryan Swenson Book 1	Pages: 5-6

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	July 20, 2010	5,494 Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 2, 3, 4, 5, and 6	SL-658 to SL-685	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 5 - Cell 10 South Slope Grid N7	SL-588	Perm: Completed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 10 South Slope Grid N9	SL-594	Perm: Completed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 9 North Slope Grid C5	SL-611	Perm: Completed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 9 South Floor Grid L6	SL-658	Sample Collected Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 South Slope Grid P10	SL-681	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-051 Cell 9 Primary Subgrade	July 20, 2010	Panels: P-28 to P-33
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-25	Proctor, Perm: On-going
5-18D Admix Soil Testing	AM-26	Sample Collected USCS: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-08	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-09	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-03	Perm and USCS: On-going
5-18A Structural Fill Base Course	SF-09	Proctor and USCS: On-going
5-18A Structural Fill Top Course	SF-10	Proctor and USCS: On-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-113
Job Number:	S013213A00 Staff On-site	Date:	Tuesday, July 20, 2010
Contractor(s):	TradeWind Services 4	Weather:	Clear : Hi: 95°F Lo: 60°F Wind: 18-mph

GENERAL ACTIVITIES

- 1.0 Weekly Progress Meetings – CQA attended the construction contractor’s weekly progress meeting on Tuesday, July 20, 2010 at 10:00 am. in the WCH conference room.
- 2.0 CQA Progress Meeting – CQA attended the construction contractors CQA meeting on Tuesday, July 20, 2010 at 10:30 am. in the WCH conference room.

CONSTRUCTION ACTIVITIES

- 1.0 Admix Production – TWS produced a total of 5,494 tons of admix material on Tuesday, July 20, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 2.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the south half of the Cell 10 floor and slope. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Sealing the admix prevent excessive moisture loss overnight.

- 3.0 Secondary Geomembrane – CQA observed ESI collecting destructive samples and conducting repairs on secondary panels S-55 to S-57 on the north berm and sump of Cell 9.
- 4.0 Secondary Geocomposite – CQA observed ESI deploying five (5) geocomposite panels east to west on the floor of Cell 9. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters.
- 5.0 Primary Geomembrane – CQA observed ESI deploying two (2) additional panels of primary geomembrane, P-28 and P-33, next to the previously deployed panel P-25 along the south edge of the primary geomembrane on the floor of Cell 9.

After the panels were deployed, CQA observed TWS utilizing two (2) fusion welders to weld the primary seams.
- 6.0 Drainage Gravel – TWS began hauling Type B drainage gravel to site. The material was stockpiled east of Cell 10.
- 7.0 Leachate Transmission Pipe – CQA observed BMWC pressure testing the 4-in. drain line from MH-33 to the north edge of the north berm. CQA verified that the pressure test met project specifications.


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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-114
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear : Hi: 97°F Lo: 66°F Wind: 27-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 63-66	Tyler Williams Book 2	Pages: 109-110
James Schut Book 1	Page: 71-73	Ryan Swenson Book 1	Page: 7

FIELD TESTING

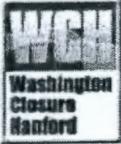
Submittal 5-18B Earthwork Field Data	MH-33 Drain Line	LT-126 to LT-130	Passed
Submittal 5-18E Belt Scale Measurements	July 21, 2010	5,481 Tons	Passed
Submittal 5-18J Cell 10: Admix Testing	Lifts: 2, 3, 4, 5, and 6	SL-676 to SL-709	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 9 South Floor Grid L6	SL-658	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 South Slope Grid P10	SL-681	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 South Floor Grid K9	SL-691	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-052 Cell 10 Subgrade	July 21, 2010	Grids: I7, J8, J9, J10 and D6
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-25	Proctor, Perm: On-going
5-18D Admix Soil Testing	AM-26	USCS Testing: Completed
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-08	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-09	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-03	Perm and USCS: On-going
5-18A Structural Fill Base Course	SF-09	Proctor and USCS: On-going
5-18A Structural Fill Top Course	SF-10	Proctor and USCS: On-going



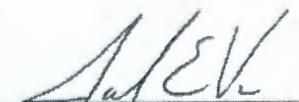
CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-114
Job Number:	S013213A00	Staff On-site	Date: Wednesday, July 21, 2010
Contractor(s):	TradeWind Services	4	Weather: Clear : Hi: 97°F Lo: 66°F Wind: 27-mph

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS moisture conditioning the admix subgrade prior to admix placement. CQA also observed TWS excavating the Cell 10 lysimeter sump with the CAT 330 excavator aided by the TWS surveyor.
- 2.0 Admix Production – TWS produced a total of 5,481 tons of admix material on Wednesday, July 21, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the south half of the Cell 10 floor and slope. In addition, TWS began admix placement in the northwest corner of the Cell 10 floor. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.
- 4.0 Secondary Geomembrane – CQA observed ESI completing repairs to the secondary panels S-55 to S-57 prior to placement of the secondary riser pipes. In addition, CQA observed ESI air pressure testing and conducting repairs on the remainder of the secondary geomembrane on the north berm and floor of Cell 9.
- 5.0 Secondary Geocomposite – CQA observed ESI deploying a total of ten (10) geocomposite panels. Six (6) geocomposite panels were placed in the Cell 9 riser trench and sump. The remainder of the rolls were placed on the Cell 9 floor. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters.
- 6.0 Secondary Leachate Collection System – CQA observed TWS placing the two (2) 12-in. riser pipes into Cell 9. The pipes were placed through the openings in the Cell 9 Crest Pad Building and walked into place with the CAT 330 excavator.
- 7.0 Drainage Gravel – TWS has completed production of Type B gravel. TWS shifted back to producing Type A gravel. The material was stockpiled southeast of Cell 10.
- 8.0 Leachate Transmission Pipe – CQA observed TWS backfilling and compacting five (5) lifts of soil over the MH-33 discharge pipe. TWS compacted the soil with a jumping jack hand compactor, and CQA tested and verified that the fill met project specifications.


 ENVIROTECH – CQA

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 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-115
Job Number:	S013213A00	Staff On-site:	6
Contractor(s):	TradeWind Services	Date:	Thursday, July 22, 2010
		Weather:	Partly Cloudy: Hi: 92°F Lo: 65°F Wind: 42-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Page: 67	Tyler Williams Book 2	Pages: 111-114
James Schut Book 1	Page: 74-77	Ryan Swenson Book 1	Page: 8

FIELD TESTING

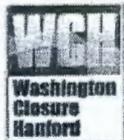
Submittal 5-18E Belt Scale Measurements	July 22, 2010	3,811 Tons	Passed
Submittal 5-18J Cell 10: Admix Testing	Lifts: 1, 3, 4, and 5	SL-710 to SL-726	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 9 South Floor Grid L6	SL-658	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 South Slope Grid P10	SL-681	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 South Floor Grid K9	SL-691	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 South Floor Grid I7	SL-713	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-053 Cell 10 Subgrade	July 22, 2010	Grids: I8, I9, I10 and D7
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-25	Proctor: Removed Perm: On-going
5-18D Admix Soil Testing	AM-26	USCS Testing: Completed
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-08	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-09	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-03	Perm and USCS: On-going
5-18A Structural Fill Base Course	SF-09	Proctor and USCS: On-going
5-18A Structural Fill Top Course	SF-10	Proctor and USCS: On-going
5-18A Structural Fill Riser Pipe Backfill	SF-11	Sample Collected Proctor and USCS: On-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	S-16-115
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Partly Cloudy: Hi: 92°F Lo: 65°F Wind: 42-mph

GENERAL ACTIVITIES

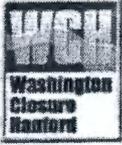
- 1.0 Admix Proctor AM-25 – Admix proctor AM-25 was tested to ASTM 1556, modified proctor, instead of ASTM 698, standard proctor. As a result, CQA is collecting an additional sample to be tested by ASTM 698 to meet the required testing frequency in the CQA Plan. Sample AM-25 is being removed as a proctor sample.
- 2.0 Weather - In the afternoon, high winds and windborne dust halted geomembrane deployment.
- 3.0 Housekeeping – The geosynthetic work area has become cluttered. Coupled with the high winds, the litter becomes both a quality issue and a safety issue. CQA has contacted WCH, TWS, and ESI with housekeeping concerns.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS moisture conditioning the admix subgrade prior to admix placement. CQA survey was on-site to survey the Cell 10 lysimeter sump and remaining subgrade points in Cell 10.
- 2.0 Admix Production – TWS produced a total of 3,811 tons of admix material on Thursday, July 22, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the south half of the Cell 10 floor and slope. In addition, TWS began admix placement in the northwest corner of the Cell 10 floor. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.

CQA survey was on-site to capture admix thickness. During the survey, the CQA survey noted three (3) points were covered with admix soil prior to survey. CQA confirmed through photographic evidence that the subgrade was consistent with contract requirements for surface preparation and the grade was maintained between survey points. CQA with the aid of TWS excavated the admix until the subgrade was exposed. Stratton surveyed the points and CQA verified that points met grade requirements.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-115
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Partly Cloudy: Hi: 92°F Lo: 65°F Wind: 42-mph

CONSTRUCTION ACTIVITIES

4.0 Secondary Geomembrane – CQA observed ESI completing the fusion weld between the Cell 9 tie-in and panel S-22 on the north berm and floor of Cell 10.

CQA observed ESI completing repairs to the secondary panels on the north berm. In addition, CQA observed ESI air pressure testing, conducting repairs, and vacuum testing on the remainder of the secondary geomembrane on the north berm and floor of Cell 9.

CQA survey was on-site to conduct the secondary geomembrane seam survey.

5.0 Secondary Geocomposite – CQA observed ESI and TWS construct the geocomposite to secondary rock tie-in. Initially, the tie-in was constructed with too little drainage gravel overlap as indicted by the CQA geosynthetic's lead. CQA observed TWS shoveling gravel from the primary layer back over the secondary geocomposite in Cell 9. After sufficient drainage gravel overlap had been obtained, the drainage gravel was encapsulated in geotextile.

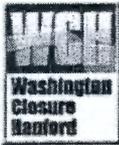
6.0 Primary Geomembrane – CQA observed TWS air pressure testing, conducting repairs, and vacuum testing the repairs on the primary geomembrane deployed on the Cell 9 floor.

In addition, Stratton Survey was on-site to conduct the primary geomembrane seam survey.

7.0 Drainage Gravel – CQA observed TWS hauling 2,448 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.


ENVIROTECH – CQA

8/3/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-116
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Friday, July 23, 2010
			Partly Cloudy: Hi: 90°F Lo: 59°F
			Wind: 21-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Page: 68-70	Tyler Williams Book 2	Pages: 115-117
James Schut Book 1	Page: 78-81	Ryan Swenson Book 1	Page: 9

FIELD TESTING

Submittal 5-18Q Cell 9 Riser Trench	Lifts: 1 - 3	RT9-01 and RT9-03	Passed
Submittal 5-18C Cell 10 Subgrade	Lifts: Subgrade	SG10-89A	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1, 2, 3, 4	SL-727 to SL-746	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 9 South Floor Grid L6	SL-658	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 South Slope Grid P10	SL-681	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 South Floor Grid K9	SL-691	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 South Floor Grid I7	SL-713	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-054 Cell 9 Primary Subgrade	July 23, 2010	Panels: P-34 to P-37
Submittal 5-18R-055 Cell 10 Subgrade	July 23, 2010	Grids: F6

LABORATORY TESTING

5-18D Admix Soil Testing	AM-25	Perm: On-going
5-18D Admix Soil Testing	AM-26	USCS Testing: Completed
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-08	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-09	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-03	Perm and USCS: On-going
5-18A Structural Fill Base Course	SF-09	Proctor and USCS: On-going
5-18A Structural Fill Top Course	SF-10	Proctor and USCS: On-going
5-18A Structural Fill Riser Pipe Backfill	SF-11	Proctor and USCS: On-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-116	
Job Number:	S013213A00	Staff On-site	Date:	Friday, July 23, 2010
Contractor(s):	TradeWind Services	4	Weather:	Partly Cloudy: Hi: 90°F Lo: 59°F Wind: 21-mph

GENERAL ACTIVITIES

- 1.0 Housekeeping – ESI continued housekeeping on the liner until the work site met CQA approval. ESI shall continue to keep the work site in an orderly and clean manner in the future.
- 2.0 Admix – During testing of the admix on the north berm of Cell 10, the dozer blade inadvertently pushed up subgrade material into the admix. The subgrade sand was removed and a Shelby Tube shall be collected in that area after the next lift is placed and tested.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS moisture conditioning the admix subgrade prior to admix placement.
- 2.0 Admix Production – Pugmill was shutdown, no admix was produced.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the south half of the Cell 10 floor and slope. In addition, TWS began admix placement in the northwest side of the Cell 10 floor. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.
- 4.0 Secondary Geomembrane – CQA observed ESI completing repairs and vacuum testing on the secondary geomembrane.

In, addition, large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.
- 5.0 Secondary Geocomposite – CQA observed ESI and TWS completing the geocomposite tie-in on the floor of Cell 9. After the tie-in was complete, CQA observed ESI deploying a total of four (4) geocomposite panels near the Cell 9 tie-in. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters.
- 6.0 Secondary Leachate Collection – CQA observed TWS placing and compacting two (2) lifts of backfill in the riser trench in Cell 9 with the CAT 330 excavator aided by the TWS surveyor. CQA tested and verified that both lifts met construction specifications.



CQA DAILY CONSTRUCTION REPORT

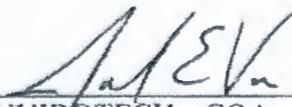
Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-116	
Job Number:	S013213A00	Staff On-site	Date:	Friday, July 23, 2010
Contractor(s):	TradeWind Services	4	Weather:	Partly Cloudy: Hi: 90°F Lo: 59°F Wind: 21-mph

CONSTRUCTION ACTIVITIES

7.0 Primary Geomembrane – CQA observed ESI deploying four (4) panels of primary geomembrane, P-34 and P-37, next to the previously deployed panel P-33 along the south edge of the primary geomembrane on the floor of Cell 9.

In addition, CQA observed TWS air pressure testing, conducting repairs, and vacuum testing the repairs on the primary geomembrane deployed on the Cell 9 floor.

8.0 Drainage Gravel – CQA observed TWS hauling 2,210 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.



ENVIROTECH – CQA

8/3/10

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-117
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	2	Weather:
			Clear: Hi: 98°F Lo: 59°F Wind: 16-mph

FIELD NOTEBOOKS

James Schut Book 1	Page: 82-85	Tyler Williams Book 2	Pages: 118-119
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FIELD TESTING

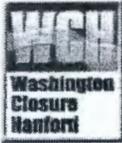
Submittal 5-18J Cell 10: Admix Testing	Lifts: 1, 2, 5, and 6	SL-747 to SL-767	Passed SL-763 Failed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 9 South Floor Grid L6	SL-658	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 South Slope Grid P10	SL-681	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 South Floor Grid K9	SL-691	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 South Floor Grid I7	SL-713	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-056 Cell 10 Subgrade	July 24, 2010	Grids: A6, B6, C6, A7, B7, C7, A9, B9, C9, D9, A10, B10, C10, and D10
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-25	Perm: On-going
5-18D Admix Soil Testing	AM-26	USCS Testing: Completed
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-08	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-09	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-03	Perm and USCS: On-going
5-18A Structural Fill Base Course	SF-09	Proctor and USCS: On-going
5-18A Structural Fill Top Course	SF-10	Proctor and USCS: On-going
5-18A Structural Fill Riser Pipe Backfill	SF-11	Proctor and USCS: On-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-118
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Clear: Hi: 104°F Lo: 68°F Wind: 19-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Page: 1-3	Tyler Williams Book 2	Pages: 121-122
Lucas Hay Book 2	Page: 71-73	James Schut Book 1	Page: 86-88
Ryan Swenson Book 1	Page: 10		

FIELD TESTING

Submittal 5-18C Subgrade Testing	Cell 10 Floor	SG-099 to SG-102	Passed
Submittal 5-18E Belt Scale Measurements	July 26, 2010	4,900 Tons	Passed
Submittal 5-18J Cell 10: Admix Testing	Lifts: 1, 2, 5, and 6	SL-768 to SL-783	Passed SL-763 Failed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 9 South Floor Grid L6	SL-658	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 South Slope Grid P10	SL-681	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 South Floor Grid K9	SL-691	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 South Floor Grid I7	SL-713	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 North Floor Grid F6	SL-781	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-057 Cell 10 Subgrade	July 26, 2010	Grids: E10, F10, G10
Submittal 5-18R-058 Cell 9 Admix	July 26, 2010	Panels: S-58 to S-59

LABORATORY TESTING

5-18D Admix Soil Testing	AM-25	Perm: Passed
5-18D Admix Soil Testing	AM-27	Sample Collected USCS and Proctor: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-08	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-09	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-10	Sample Collected
5-18K Type A Drainage Gravel	DG-A-11	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-12	



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-118
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Clear: Hi: 104°F Lo: 68°F Wind: 19-mph

LABORATORY TESTING (CONTINUED)

5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-03	Perm and USCS: On-going
5-18A Structural Fill Base Course	SF-09	Proctor and USCS: On-going
5-18A Structural Fill Top Course	SF-10	Proctor and USCS: On-going
5-18A Structural Fill Riser Pipe Backfill	SF-11	Proctor and USCS: Completed
5-18P Riser Pipe Backfill		

GENERAL ACTIVITIES

- Bentonite Delivery – CQA inspected the TWS railroad siding located in north Richland by Horn Rapids. The rail cars were divided into three (3) compartments, with each compartment holding approximately 33 tons. The bentonite was gravity feed from the bottom of the cars into augers. The augers conveyed the bentonite into blow trucks that in turn transport the bentonite to the construction site.
- Stop Work – A stop work was ordered by CQA on geomembrane activities at 14:00 when liner temperature reached 104 degrees 12 inches above the liner.

CONSTRUCTION ACTIVITIES

- Subgrade – CQA observed TWS moisture conditioning and compacting the admix subgrade with the CAT 563 roller prior to admix placement. In addition, the CQA surveyors were on-site to verify that the subgrade met design tolerances.
- Admix Production – TWS produced a total of 4,900 tons of admix material on Monday, July 26, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the west side of the Cell 10 floor. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix

The CQA surveyors were on-site to verify the thickness of the admix in Cell 10.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-118
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Clear: Hi: 104°F Lo: 68°F
			Wind: 19-mph

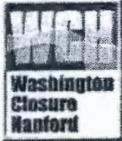
CONSTRUCTION ACTIVITIES

- 4.0 Secondary Geomembrane – CQA observed ESI deploying secondary geomembrane panels S-58 and S-59 in Cell 9 sump and rise trench. The panels were deployed from the top of the north berm of Cell 9 down the slope and across the floor. CQA observed ESI double wedge fusion welding panels S-57 to S-59 together. After the welding was completed, ESI air pressure tested both seams

In, addition, large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.
- 5.0 Secondary Geocomposite – CQA observed ESI deploying eleven (11) rolls of geocomposite near the Cell 9 tie-in. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters.
- 6.0 Primary Geomembrane – CQA observed ESI cutting destructive samples and welding repairs on the primary geomembrane deployed on the south half of Cell 9.
- 7.0 Drainage Gravel – CQA observed TWS hauling 2,482 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10. In addition, American Rock hauled 691 tons of Type C drainage gravel to site. The material was stockpiled north of Cell 10.


 ENVIROTECH – CQA

8/2/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-119
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear: Hi: 99°F Lo: 65°F Wind: 31-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Page: 4-5	Tyler Williams Book 2	Pages: 123-125
Lucas Hay Book 2	Page: 74-75	James Schut Book 1	Page: 89-92
Ryan Swenson Book 1	Page: 11		

FIELD TESTING

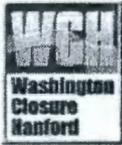
Submittal 5-18E Belt Scale Measurements	July 27, 2010	4,987 Tons	Passed
Submittal 5-18J Cell 10: Admix Testing	Lifts: 3, 4, 5, and 6	SL-784 to SL-800	Passed SL-764 Failed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 South Slope Grid P10	SL-681	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 South Floor Grid K9	SL-691	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 South Floor Grid I7	SL-713	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 North Floor Grid F6	SL-781	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 10 North Floor Grid E10	SL-786	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-059 Cell 9 Subgrade	July 27, 2010	Panels: T-1 to T-3
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-27	USCS and Proctor: On-going
5-18D Admix Soil Testing	AM-28	Sample Collected USCS Testing: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-08	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-09	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-10	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-11	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-12	Perm and USCS: On-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-119	
Job Number:	S013213A00	Staff On-site	Date:	Tuesday, July 27, 2010
Contractor(s):	TradeWind Services	5	Weather:	Clear: Hi: 99°F Lo: 65°F Wind: 31-mph

LABORATORY TESTING (CONTINUED)

5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-03	Perm and USCS: On-going
5-18A Structural Fill Base Course	SF-09	Proctor and USCS: On-going
5-18A Structural Fill Top Course	SF-10	Proctor and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Non-conforming Geocomposite Rolls – ESI removed a roll of non-conforming geocomposite from the holding area to the construction area. CQA and the ESI superintendent both noted the non-conforming roll in the construction area. The roll was removed from the construction area and replaced in the holding area.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS moisture conditioning and compacting the admix subgrade with the CAT 563 roller.
- 2.0 Admix Production – TWS produced a total of 4,987 tons of admix material on Tuesday, July 27, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Tertiary Sump – CQA observed BMWC placing and welding the tertiary sump pipe and plate into place in the Cell 10 sump. CQA observed that the pipe weld was de-beaded after placement.
- 4.0 Tertiary Geomembrane – CQA observed ESI deploying three (3) panels of tertiary geomembrane, panels T-1 to T-3, in the Cell 10 sump. The panels were deployed east to west across the sump. ESI double wedge fusion welded the panels together.
- 5.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the west side of the Cell 10 floor. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix

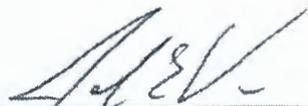


CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-119
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear: Hi: 99°F Lo: 65°F Wind: 31-mph

CONSTRUCTION ACTIVITIES

- 6.0 Secondary Geomembrane – CQA observed ESI completing repairs and non-destructive testing on panels S-58 and S-59 that were placed in the sump and up the riser trench.
- In, addition, large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.
- 7.0 Secondary Geocomposite – CQA observed ESI deploying five (5) rolls of geocomposite in the Cell 9 sump. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters.
- 8.0 Primary Geomembrane – The destructive sample DP-26 collected from the primary geomembrane in report 5-16-118 failed to meet specifications. CQA marked destructive samples DP-26A and DP-26B to encompass the failed portion of the weld. ESI tested and capped the seam between samples DP-26A and DP-26B
- 9.0 Drainage Gravel – CQA observed TWS hauling 2,346 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10. In addition, American Rock hauled 488 tons of Type C drainage gravel to site. The material was stockpiled north of Cell 10.


 ENVIROTECH – CQA

8/3/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-120
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear: Hi: 89°F Lo: 66°F Wind: 30-mph Rain-0.03-in.

FIELD NOTEBOOKS

Joe Voss Book 2	Page: 6-7	Tyler Williams Book 2	Pages: 126-129
Lucas Hay Book 2	Page: 71-73	James Schut Book 1	Page: 93-95
Ryan Swenson Book 1	Page: 12-14		

FIELD TESTING

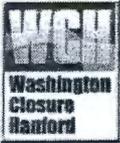
Submittal 5-18E Belt Scale Measurements	July 28, 2010	5,022 Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1, 2, 3, and 6	SL-801 to SL-819	Passed SL-764 Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 North Floor Grid F6	SL-781	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 - Cell 10 North Floor Grid E10	SL-786	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 2 - Cell 10 North Slope Grid C9	SL-808	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-060 Cell 10 Subgrade	July 28, 2010	Grids: E9, F9, G9 Panels: T-4 to T-11
Submittal 5-18R-061 Cell 10 Admix	July 28, 2010	Panels: S-1 to S-2

LABORATORY TESTING

5-18D Admix Soil Testing	AM-27	USCS and Proctor: On-going
5-18D Admix Soil Testing	AM-28	USCS Testing: On-going
5-18D Admix Soil Testing	AM-29	Sample Collected USCS, Perm, and Proctor: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-08	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-09	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-10	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-11	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-12	Perm and USCS: On-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-120
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear: Hi: 89°F Lo: 66°F Wind: 30-mph Rain: 0.03-in.

LABORATORY TESTING (CONTINUED)

5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-03	Perm and USCS: On-going
5-18A Structural Fill Base Course	SF-09	Proctor and USCS: On-going
5-18A Structural Fill Top Course	SF-10	Proctor and USCS: On-going

GENERAL ACTIVITIES

- 1.0 **Panel Deployment** – ESI used the track bobcat to deploy geomembrane on the south slope. CQA contacted WCH, who halted use of the track bobcat on the Cell 10 slope. WCH indicated that the track bobcat was not approved for use on the side slopes. Later that day, WCH approved the track bobcat for pulling geomembrane panels down the slopes.

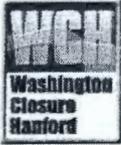
CONSTRUCTION ACTIVITIES

- 1.0 **Subgrade** – CQA observed TWS moisture conditioning and compacting the admix subgrade with the CAT 563 roller prior to admix placement.
- 2.0 **Admix Production** – TWS produced a total of 5,022 tons of admix material on Wednesday, July 28, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 **Tertiary Geomembrane** – CQA observed ESI deploying eight (8) panels of tertiary geomembrane, panels T-4 to T-11, in the Cell 10 tertiary sump. After the geomembrane panels were deployed, ESI double wedge fusion welded all panels together.

CQA also observed ESI repairing the geomembrane and conducting air tests, pressure tests, and destructive tests on the installed geomembrane. In addition, ESI welded the tertiary sump plate to the geomembrane as per design drawing.

- 4.0 **Admix Placement** – CQA observed TWS using two CAT D6 GPS dozers to place admix on the west side of the Cell 10 floor and slope. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-120
Job Number:	S013213A00 Staff On-site	Date:	Wednesday, July 28, 2010
Contractor(s):	TradeWind Services 5	Weather:	Clear: Hi: 89°F Lo: 66°F Wind: 30-mph Rain-0.03-in.

CONSTRUCTION ACTIVITIES

- 5.0 Secondary Geomembrane – CQA observed ESI deploying secondary geomembrane panels S-01 to S-02 over accepted admix subgrade on the south slope and floor of Cell 10. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. After the sheets were deployed, two fusion welders seamed the secondary geomembrane together.
- In order to place Type B drainage gravel in the Cell 9 sump, ESI cut geomembrane panel S-59 to allow the payhaulers access to the sump.
- In, addition, large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.
- 6.0 Secondary Drainage Gravel – CQA observed TWS placing Type B drainage gravel into the Cell-9 sump. The drainage gravel was loaded into International Payhaulers and backed over the admix. During the placement of the drainage gravel, the payhauler left 6-8 inch deep ruts in the admix surface. TWS shall repair the ruts as per repair procedures at a later date. After the drainage gravel was placed into the sump, the gravel was spread as per design with a CAT 312 excavator aided by the TWS surveyor.
- 7.0 Drainage Gravel – CQA observed TWS hauling 2,482 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.

ENVIROTECH – CQA

8/5/10
 DATE

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-121
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Partly Cloudy; Hi: 99°F Lo: 59°F Wind: 17-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Page: 8-9	Tyler Williams Book 2	Pages: 130-131
Lucas Hay Book 2	Page: 80-81	James Schut Book 1	Page: 96-99
Ryan Swenson Book 1	Page: 15-16		

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	July 29, 2010	4,990 Tons	Passed
Submittal 5-18J Cell 9:Admix Testing	Lifts: 5 and 6	SL-820 to SL-821	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1, 2, 3, and 6	SL-822 to SL-838	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 North Floor Grid F6	SL-781	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 - Cell 10 North Floor Grid E10	SL-786	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 2 - Cell 10 North Slope Grid C9	SL-808	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 10 North Slope Grid A10	SL-828	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-062 Cell 10 Subgrade	July 29, 2010	Grids: E6
Submittal 5-18R-063 Cell 9 Admix	July 29, 2010	Panels: S-60 to S-62
Submittal 5-18R-064 Cell 10 Admix	July 29, 2010	Panels: S-3 to S-4

LABORATORY TESTING

5-18D Admix Soil Testing	AM-27	USCS and Proctor: Passed
5-18D Admix Soil Testing	AM-28	USCS Testing: Passed
5-18D Admix Soil Testing	AM-29	USCS, Perm, and Proctor: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-08	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-09	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-10	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-11	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-12	Perm and USCS: On-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-121
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Partly Cloudy: Hi: 99°F Lo: 59°F Wind: 17-mph

LABORATORY TESTING (CONTINUED)

5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-03	Perm and USCS: On-going
5-18K Type C Drainage Gravel	DG-C-01	Sample Collected Perm and USCS: On-going
5-18A Structural Fill Base Course	SF-09	Proctor and USCS: On-going
5-18A Structural Fill Top Course	SF-10	Proctor and USCS: On-going

CONSTRUCTION ACTIVITIES

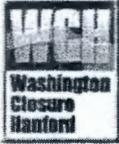
- 1.0 Subgrade – CQA observed TWS moisture conditioning and compacting the admix subgrade with the CAT 563 roller prior to admix placement.
- 2.0 Admix Production – TWS produced a total of 4,990 tons of admix material on Thursday, July 29, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Tertiary Geomembrane – CQA observed ESI completing repair on the tertiary geomembrane. In addition, Stratton Survey was on-site to conduct the tertiary seam survey.

CQA also observed ESI deploying 16 oz geotextile over the tertiary geomembrane in the Cell 10 lysimeter sump. After placing the geotextile over the geomembrane, ESI also placed a geotextile sleeve around the tertiary drain pipe in the lysimeter sump. The 16oz geotextile material was zip tied together to form a fabric boot.

- 4.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the north half of the Cell 10 floor and slope. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. Stratton Survey was onsite to verify the admix thickness on the Cell 10 south slope and floor.

In addition, the ruts created by the payhauler trucks were repaired. CQA observed TWS utilizing the CAT 825 compactor to scarify the area prior to admix placement. TWS then placed and compacted two (2) lifts of admix in the truck ruts. Each lift was compacted with a CAT 825 sheepsfoot compactor. CQA tested and verified that both lifts met compaction specifications. TWS trimmed the final lift back to design grade, and Stratton Survey verified design thickness.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-121
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Partly Cloudy: Hi: 99°F Lo: 59°F Wind: 17-mph

CONSTRUCTION ACTIVITIES

5.0 Secondary Geomembrane – CQA observed ESI deploying secondary geomembrane panels S-03 to S-04 over accepted admix subgrade on the south slope and floor of Cell 10. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. After the sheets were deployed, two fusion welders seamed the secondary geomembrane together.

In addition, large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.

CQA also observed ESI deploying secondary geomembrane in S-60 to S-62 over accepted admix subgrade on the north slope and floor of Cell 9. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. After the sheets were deployed, two fusion welders seamed the secondary geomembrane together.

At the end of the day, the section of admix where panel S-59 was to be repaired did not meet construction specifications for excess water and stability. ESI chose to wait until Friday, Report 5-16-122, to repair panel S-59, leaving a 100-ft long hole in the secondary geomembrane. ESI protected the area by placing sand bags under the geomembrane to slope away storm water run-off.

6.0 Secondary Geocomposite – CQA observed ESI deploying seven (7) rolls of geocomposite near in the Cell 9 tie-in. CQA ensured that the geocomposite was joined with plastic zip ties as per the contract specifications. CQA observed the geotextile side overlaps were secured by sewing and the end overlaps were secured by leisters. After the geocomposite was in-place, CQA observed TWS and ESI laborers placing drainage gravel 2-ft over the secondary composite as per design drawings.

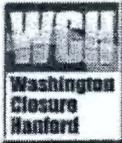
7.0 Primary Geomembrane – The CQA surveyors were on-site to conduct the primary seam survey.

8.0 Drainage Gravel – CQA observed TWS hauling 2,414 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.

ENVIROTECH – CQA

DATE

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-122
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Overcast: Hi: 99°F Lo: 70°F Wind: 23-mph Rain: 0.36-in

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 11-12	Tyler Williams Book 2	Pages: 132
Lucas Hay Book 2	Pages: 82-83	James Schut Book 1	Pages: 100-102
Ryan Swenson Book 1	Pages: 17-18		

FIELD TESTING

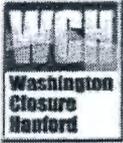
Submittal 5-18E Belt Scale Measurements	July 30, 2010	3,767 Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1, 2, 3, 5, and 6	SL-839 to SL-857	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 North Floor Grid F6	SL-781	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 - Cell 10 North Floor Grid E10	SL-786	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 2 - Cell 10 North Slope Grid C9	SL-808	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 10 North Slope Grid A10	SL-828	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-065 Cell 10 Subgrade	July 30, 2010	Grids: E7
Submittal 5-18R-066 Cell 9 Admix	July 30, 2010	Panels: S-63 to S-66

LABORATORY TESTING

5-18D Admix Soil Testing	AM-29	USCS, Passed Perm. and Proctor: On-going
5-18D Admix Soil Testing	AM-30	Sample Collected USCS: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-03	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-08	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-09	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-10	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-11	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-12	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: On-going
5-18K Type B Drainage Gravel	DG-B-03	Perm and USCS: On-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-122
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Overcast: Hi: 99°F Lo: 70°F Wind: 23-mph Rain: 0.36-in

LABORATORY TESTING (CONTINUED)

5-18K Type C Drainage Gravel	DG-C-01	Perm and USCS: On-going
5-18A Structural Fill Base Course	SF-09	Proctor and USCS: On-going
5-18A Structural Fill Top Course	SF-10	Proctor and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Weather Delay – During the morning hours, a rain and lightning storm delayed the start of construction activities until approximately 8:10. The Cell 9 and 10 sumps were half filled with storm water and the section of admix left exposed gathered storm water. Upon CQA inspection, no storm water from the limited storm water penetrated under the secondary geomembrane.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS moisture conditioning and compacting the admix subgrade with the CAT 563 roller prior to admix placement.
- 2.0 Admix Production – TWS produced a total of 3,767 tons of admix material on Friday, July 30, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix mainly on the north berm of the Cell 10 with some additional admix placed on the Cell 10 floor. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.

TWS attempted to repair the section of admix that was left exposed near the Cell 9 sump. The admix was spread out and left to dry. At the end of the day, the admix where panel S-59 was to be repaired did not meet construction specifications for excess water and stability. ESI chose to wait until Monday, Report 5-16-123, to repair panel S-59, leaving a 100-ft long hole in the secondary geomembrane. ESI protected the area by placing sand bags under the geomembrane to slope away storm water run-off.

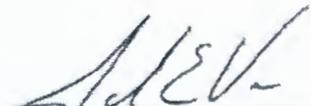


CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-122
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Overcast: Hi: 99°F Lo: 70°F Wind: 23-mph Rain: 0.36-in

CONSTRUCTION ACTIVITIES

- 4.0 Secondary Geomembrane – CQA observed ESI deploying secondary geomembrane panels S-63 to S-66 over accepted admix subgrade on the north slope and floor of Cell 9. The panels were deployed from the north anchor trench down the north embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. After the sheets were deployed, two fusion welders seamed the secondary geomembrane together.
- In, addition, large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.
- 5.0 Secondary Geocomposite – CQA observed TWS laborers placing drainage gravel 2-ft over the secondary composite on the Cell 9 liner tie-in as per design drawings.
- 6.0 Primary Geomembrane – CQA observed ESI conducting air pressure testing on the deployed primary geomembrane.
- 7.0 Drainage Gravel – CQA observed TWS hauling 2,142 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.


ENVIROTECH – CQA


DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-123
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear: Hi: 93°F Lo: 69°F Wind: 15-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 14-18	Tyler Williams Book 2	Pages: 133-135
Lucas Hay Book 2	Pages: 84-85	James Schut Book 1	Pages: 104-106
Ryan Swenson Book 1	Pages: 19-22		

FIELD TESTING

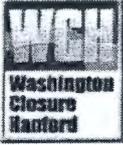
Submittal 5-18E Belt Scale Measurements	August 2, 2010	5,579 Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1, 3, 4, 5, and 6	SL-858 to SL-882	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 North Floor Grid F6	SL-781	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 - Cell 10 North Floor Grid E10	SL-786	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 2 - Cell 10 North Slope Grid C9	SL-808	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 10 North Slope Grid A10	SL-828	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-067 Cell 10 Subgrade	August 2, 2010	Grids: G7 and F7
Submittal 5-18R-068 Cell 10 Admix	August 2, 2010	Panels: S-5 to S-12

LABORATORY TESTING

5-18D Admix Soil Testing	AM-29	Perm and Proctor: On-going
5-18D Admix Soil Testing	AM-30	USCS: On-going
5-18D Admix Soil Testing	AM-31	Sample Collected USCS: On-going
5-18K Type A Drainage Gravel	DG-A-01	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-02	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-03	Perm: Passed USCS: Failed Gravel Passes (see General Activities)
5-18K Type A Drainage Gravel	DG-A-04	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-05	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-06	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-07	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-08	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-09	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-10	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-11	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-12	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-13	Sample Collected Perm and USCS: On-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-123
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear: Hi: 93°F Lo: 69°F Wind: 15-mph

LABORATORY TESTING (CONTINUED)

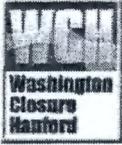
5-18K Type B Drainage Gravel	DG-B-01	Perm and USCS: Passed
5-18K Type B Drainage Gravel	DG-B-02	Perm and USCS: Passed
5-18K Type B Drainage Gravel	DG-B-03	Perm and USCS: Passed
5-18K Type C Drainage Gravel	DG-C-01	Perm and USCS: On-going
5-18A Structural Fill Base Course	SF-09	Proctor and USCS: Completed
5-18A Structural Fill Top Course	SF-10	Proctor and USCS: Completed

GENERAL ACTIVITIES

- 1.0 Cell 9 Sump Repair – Saturday morning, the site received approximately 0.42-in of rain. As a result the water flooded the Cell 9 sump and the backwater rose over the exposed portion of panel S-59. Storm water was introduced under the secondary geomembrane. TWS is working on pumping the storm water from the Cell 9 sump.
- 2.0 Cell 10 Sump – The storm water also flooded the Cell 10 sump; however, no storm water was introduced under the geomembrane. TWS is working on pumping the storm water from the sump.
- 3.0 Sand Cone – CQA technicians began performing a sand cone test; however, prior to weighing back the oven dried sample, the soil was placed into the waste soil container. CQA is initiating SDDR-04 to cover the failed sand cone test.
- 4.0 Previous Reporting – Submitted with this report is the updated test records from days 5-16-111 and 5-16-112 detailing the rock compaction of the east ramp. The rock testing has been updated with the rock proctors SF-09 and SF-10 completed with this report. All testing met contract specifications.
- 5.0 Drainage Gravel – Test DG-A-02 had 5% of fines pass through the No. 100 sieve, not meeting the construction specifications of 4% passing the No. 100 sieve. After reviewing the permeability results, Tim Wintel, WCH Project Engineer, approved the material for use in Cell construction.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS moisture conditioning and compacting the admix subgrade with the CAT 563 roller prior to admix placement.
- 2.0 Cell 10 Lysimeter – TWS placed drainage gravel into the Cell 10 sump. Gravel was loaded into payhaulers, which drove over subgrade material. The rock was placed into the Cell 10 sump, where it was spread with a CAT 312 excavator.
- 3.0 Admix Production – TWS produced a total of 5,579 tons of admix material on Monday, August 2, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications. Admix was also produced on Saturday, July 31, 2010. Due to mechanical problems, only 1,274 tons of admix material was produced.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-123
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear: Hi: 93°F Lo: 69°F
			Wind: 15-mph

CONSTRUCTION ACTIVITIES

4.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix mainly on the west side of the north berm of the Cell 10 with some additional admix placed near the center of the Cell 10 floor. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.

5.0 Secondary Geomembrane – CQA observed ESI deploying secondary geomembrane panels S-5 to S-12 over accepted admix subgrade on the south slope and floor of Cell 10. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. After the sheets were deployed, two fusion welders seamed the secondary geomembrane together.

In, addition, large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51 as well as between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.

6.0 Drainage Gravel – CQA observed TWS hauling 2,108 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.

7.0 Leachate Transmission Pipe – CQA observed BMWC completing installation and conducting a hydraulic pressure test on the inner pipe and an air tests on the outer pipe between MH-38 and MH-39. CQA verified that both the inner and outer pipes met pressure testing specifications. Each joint of the outer pipe was snooped, and CQA verified that no leaks were observed at the joints.

ENVIROTECH – CQA

8/14/10
DATE

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-124
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear: Hi: 94°F Lo: 61°F Wind: 21-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 19-20	Tyler Williams Book 2	Pages: 136-137
Lucas Hay Book 2	Pages: 86-87	James Schut Book 1	Pages: 107-109
Ryan Swenson Book 1	Page: 22		

FIELD TESTING

Submittal 5-18E Belt Scale Measurements	August 3, 2010	4,387 Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 2, 3, 4, 5, and 6	SL-883 to SL-905	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 2 - Cell 10 North Slope Grid C9	SL-808	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 10 North Slope Grid A10	SL-828	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 North Slope Grid B6	SL-890	Sample Collected Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 - Cell 10 South Floor Grid I10	SL-894	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-069 Cell 10 Admix	August 3, 2010	Panels: S-13 to S-27
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-29	Perm: Passed Proctor: Completed
5-18D Admix Soil Testing	AM-30	USCS: Passed
5-18D Admix Soil Testing	AM-31	USCS: On-going
5-18D Admix Soil Testing	AM-32	Sample Collected USCS: On-going
5-18K Type A Drainage Gravel	DG-A-13	Perm and USCS: On-going
5-18K Type C Drainage Gravel	DG-C-01	Perm and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Cell 9 Sump Repair -TWS is continuing to pump the storm water from the Cell 9 sump.
- 2.0 Weekly Progress Meetings - CQA attended the construction contractor's weekly progress meeting on Tuesday, August 3, 2010 at 10:00 am. in the WCH conference room.
- 3.0 CQA Progress Meeting - CQA attended the construction contractors CQA meeting on Tuesday, August 3, 2010 at 10:30 am. in the WCH conference room.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	S-16-124
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear: Hi: 94°F Lo: 61°F Wind: 21-mph

GENERAL ACTIVITIES

- 4.0 DOE Oversight – Harry Moomey representing DOE oversight, met with CQA and observed CQA admix placement and testing procedures.

CONSTRUCTION ACTIVITIES

- 1.0 Excavation – CQA observed TWS excavating the ramp and east end of the Cell 10 floor with the CAT 330C excavator. The soil was loaded into payhaulers and stockpiled in the north east corner of Cell 10. CQA then observed a CAT D6 GPS dozer grading a new entrance into Cell 10.
- 2.0 Cell 10 Lysimeter – TWS placed drainage gravel into the Cell 10 sump. Gravel was loaded into payhaulers, which drove over subgrade material. The rock was placed into the Cell 10 sump, where it was spread with a CAT 312 excavator aided by the TWS surveyor.
- 3.0 Admix Production – TWS produced a total of 4,387 tons of admix material on Tuesday, August 3, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 4.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix mainly on the west side of the north berm of the Cell 10 with some additional admix placed near the center of the Cell 10 floor. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

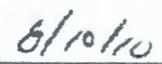
During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.

- 5.0 Secondary Geomembrane – CQA observed ESI deploying secondary geomembrane panels S-13 to S-27 over accepted admix subgrade on the south slope and floor of Cell 10. The panels were deployed from the south anchor trench down the south embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. After the sheets were deployed, two fusion welders seamed the secondary geomembrane together.

In addition, large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51 as well as between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.

- 6.0 Primary Geomembrane – CQA observed ESI conducting air pressure testing and repairs on the deployed geomembrane in Cell 9. CQA verified that all pressure tests met project specifications.
- 7.0 Drainage Gravel – CQA observed TWS hauling 1,938 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10. CQA also observed TWS hauling 368 tons of type C drainage gravel to site. The gravel was stockpiled to the north of Cell 10.


ENVIROTECH – CQA


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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	S-16-125	
Job Number:	S013213A00	Staff On-site	Date:	Wednesday, August 4, 2010
Contractor(s):	TradeWind Services	5	Weather:	Clear: Hi: 95°F Lo: 67°F Wind: 21-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 21-22	Tyler Williams Book 2	Pages: 138-140
Lucas Hay Book 2	Pages: 89-91	James Schut Book 1	Pages: 110-112
Ryan Swenson Book 1	Pages: 23		

FIELD TESTING

Submittal 5-18L Cell 10 Lysimeter Rock	Lifts: 2	CG10-01	Passed
Submittal 5-18E Belt Scale Measurements	August 4, 2010	3,102 Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1, 4, 5, and 6	SL-906 to SL-919	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 2 – Cell 10 North Slope Grid C9	SL-808	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 10 North Slope Grid A10	SL-828	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 North Slope Grid B6	SL-890	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 South Floor Grid I10	SL-894	Perm: On-going

CQA HOLD POINTS

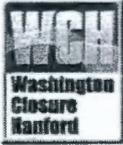
Submittal 5-18R-070 Cell 10 Subgrade	August 4, 2010	Grids: E8, E9, and E10
Submittal 5-18R-071 Cell 9 Primary Subgrade	August 4, 2010	Panels: P-42

LABORATORY TESTING

5-18D Admix Soil Testing	AM-31	USCS: Passed
5-18D Admix Soil Testing	AM-32	USCS: On-going
5-18K Type A Drainage Gravel	DG-A-13	Perm and USCS: On-going
5-18K Type C Drainage Gravel	DG-C-01	Perm and USCS: On-going

GENERAL ACTIVITIES

1.0 Cell 9 Sump Repair –TWS is continuing to pump the storm water from the Cell 9 sump. Dave Enin with EPA and Owen Roberts with DOE were on-site to survey the damage to the Cell 9 sump and discuss repair details. ESI is cutting holes in the secondary geomembrane in the Cell 9 sump to release the trapped water under the Cell 9 secondary geomembrane. Near the middle of the day, TWS decided to leister a patch over the exposed area in secondary panel S-59.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-125
Job Number:	S013213A00	Staff On-site	Date: Wednesday, August 4, 2010
Contractor(s):	TradeWind Services	5	Weather: Clear: Hi: 95°F Lo: 67°F Wind: 21-mph

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS moisture conditioning and compacting the admix subgrade with the CAT 563 roller prior to admix placement.
- 2.0 Cell 10 Lysimeter – TWS placed drainage gravel into the Cell 10 sump. Gravel was loaded into payhaulers, which drove over subgrade material. The rock was placed into the Cell 10 sump, where it was spread with a CAT 312 excavator aided by the TWS surveyor. After grading was complete, TWS loaded the excess material into payhaulers and removed the rock from Cell 10. TWS compacted the gravel in the sump by track-walking the excavator over the sump area. CQA tested and verified that the Cell 10 lysimeter sump gravel met compaction specifications.
- 3.0 Admix Production – TWS produced a total of 3,102 tons of admix material on Wednesday, August 4, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 4.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix mainly on the center of the Cell 10 floor. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.
- 5.0 Secondary Geomembrane – CQA observed ESI cutting open panel intersection S-59/S-60/S-50, which was in the Cell 9 flow line to the sump. The admix underneath was allowed to dry. After the admix had dried, the surface was repaired and the geomembrane patched.

In addition, large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51 as well as between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.
- 6.0 Primary Geomembrane – CQA observed ESI cleaning the primary tie-in on the Cell 9 floor and north embankment. After the tie-in was cleaned, CQA observed ESI welding a portion of the primary tie-in.

CQA also observed ESI deploying and welding panel P-42 on the floor of Cell 9. The panel was deployed east to west. After the panel was in-place, CQA observed ESI double wedge fusion welding panel P-42 to P-41.
- 7.0 Drainage Gravel – CQA observed TWS hauling 2,074 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10. CQA also observed TWS hauling 165 tons of type C drainage gravel to site. The gravel was stockpiled to the north of Cell 10.
- 8.0 Leachate Transmission Pipe – CQA observed BMWC installing the double containment pipe between manholes MH-34 and MH-35.

ENVIROTECH – CQA

DATE

8/12/10

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-126
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Clear: Hi: 98°F Lo: 70°F Wind: 26-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 23-24	Tyler Williams Book 2	Pages: 141-143
Lucas Hay Book 2	Pages: 92-93	James Schut Book 1	Pages: 114-116
Ryan Swenson Book 1	Pages: 24-25		

FIELD TESTING

Submittal 5-18B Leachate Transmission Line MH-34 to MH-35	Lift: 1	LT-131 to LT-133	Passed
Submittal 5-18E Belt Scale Measurements	August 5, 2010	5,311 Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1, 2, 3, and 6	SL-920 to SL-928	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 North Slope Grid B6	SL-890	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 6 – Cell 10 South Floor Grid I10	SL-894	Perm: Passed

CQA HOLD POINTS

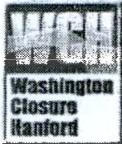
Submittal 5-18R-073 Cell 10 Subgrade	August 5, 2010	Grids: D8
Submittal 5-18R-074 Cell 10 Admix	August 5, 2010	Panels: S-28 To S-34

LABORATORY TESTING

5-18D Admix Soil Testing	AM-32	USCS: Passed
5-18D Admix Soil Testing	AM-33	Sample Collected USCS, Proctor, Perm: On-going
5-18K Type A Drainage Gravel	DG-A-13	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-14	Sample Collected Perm and USCS: On-going
5-18K Type C Drainage Gravel	DG-C-01	Perm and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Cell 9 Sump Repair – ESI cut and removed or peeled back the secondary geomembrane in the Cell 9 sump to expose the underlying admix material. The geomembrane was cut on the floor of Cell 9 up to the sump, but not in the sump. In addition, ESI cut and peeled back an entry corridor from the east end of the secondary geomembrane to the sump to allow for equipment access.
- 2.0 Stop Work – A stop work was called on geomembrane welding activities at 14:00 when temperatures 12-in over the geomembrane rose over 105 degrees Fahrenheit.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-126
Job Number:	S013213A00	Staff On-site	Date: Thursday, August 5, 2010
Contractor(s):	TradeWind Services	7	Weather: Clear: Hi: 98°F Lo: 70°F Wind: 26-mph

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade - CQA observed TWS moisture conditioning and compacting the admix subgrade with the CAT 563 roller prior to admix placement. The CQA surveyors were on-site to complete the admix subgrade survey.
- 2.0 Cell 10 Lysimeter - The CQA surveyor was on-site to survey the Cell 10 lysimeter drainage gravel. CQA verified that the gravel met design drawing specifications.

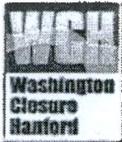
After the survey was completed, CQA observed ESI placing and sewing the 8 oz. geotextile over the Cell 10 lysimeter as per design drawings.
- 3.0 Admix Production - TWS produced a total of 5,311 tons of admix material on Thursday, August 5, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 4.0 Admix Placement - CQA observed TWS using two CAT D6 GPS dozers to place admix mainly on the center of the Cell 10 floor with additional admix placed in the Cell 10 sump. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.
- 5.0 Secondary Geomembrane - ESI left Cell 9 secondary panels rolled up on the grade break between Cells 9 and 10. CQA witnessed ESI deploying those panels across Cell 10. All panels were renumbered to correspond with Cell 10 secondary panel numbers. CQA observed ESI placing short panels S-28 to S-34 west to east across Cell 10 along the intersection of the north-south panels deployed down the south berm and floor. After the panels were deployed, CQA witnessed ESI double wedge welding the secondary geomembrane together.

CQA also observed ESI conducting repairs and air pressure testing on the secondary geomembrane deployed on the Cell 10 slope. In addition, CQA observed ESI conducting vacuum testing on the secondary geomembrane.

In addition, large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51 as well as between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.

Stratton Survey was on-site to perform the secondary seam survey.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-126
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Clear: Hi: 98°F Lo: 70°F Wind: 26-mph

CONSTRUCTION ACTIVITIES

6.0 Primary Geomembrane - CQA observed ESI conducting vacuum testing on the primary geomembrane.

In addition, Stratton Survey was on-site to conduct the primary seam survey of Cell 9.

7.0 Drainage Gravel - CQA observed TWS hauling 2,040 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.

8.0 Leachate Transmission Pipe - CQA observed BMWC completing installation and conducting a hydraulic pressure test on the inner pipe and an air tests on the outer pipe between MH-34 and MH-35. CQA verified that both the inner and outer pipes met pressure testing specifications. Each joint of the outer pipe was snooped, and CQA verified that no leaks were observed at the joints. CQA then observed TWS backfilling and compacting one (1) lift of soil over the MH-34 to MH-35 pipeline with the CAT 330 excavator. CQA tested and verified that lift 1 met construction specifications.

ENVIROTECH - CQA

8/10/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-127
Job Number:	S013213A00	Date:	Friday, August 6, 2010
Contractor(s):	TradeWind Services	Weather:	Clear: Hi: 98°F Lo: 64°F Wind: 33-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 25	Tyler Williams Book 2	Pages: 144-147
Lucas Hay Book 2	Pages: 94	James Schut Book 1	Pages: 118-122
Ryan Swenson Book 1	Pages: 26		

FIELD TESTING

Submittal 5-18B Leachate Transmission Line MH-38 to MH-39	Lift: 1	LT-134	Passed
Submittal 5-18E Belt Scale Measurements	August 6, 2010	5,540 Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1, 2, and 4	SL-929 to SL-943	Passed

CQA HOLD POINTS

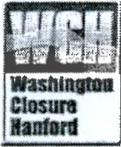
Submittal 5-18R-075 Cell 10 Subgrade	August 6, 2010	Grids: A8, B8, and C8
Submittal 5-18R-076 Cell 10 Admix	August 6, 2010	Panels: S-35 To S-55

LABORATORY TESTING

5-18D Admix Soil Testing	AM-33	USCS, Proctor, Perm: On-going
5-18K Type A Drainage Gravel	DG-A-13	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-14	Perm and USCS: On-going
5-18K Type C Drainage Gravel	DG-C-01	Perm and USCS: On-going

GENERAL ACTIVITIES

1.0 Cell 9 Sump Repair -CQA observed TWS utilizing the CAT 312 excavator to remove the Type B drainage gravel from the Cell 9 secondary sump. Approximately 1/3 of the gravel in the sump was removed from the east side and center of the Cell 9 sump and stockpiled on the west side of the sump. As the gravel was removed, the underlying geosynthetic was removed in order to expose the admix surface. The underlying admix surface was saturated with water; therefore, TWS laborers removed the excess water. The admix was left exposed to dry overnight.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-127
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear: Hi: 98°F Lo: 64°F Wind: 33-mph

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade - CQA observed TWS moisture conditioning and compacting the admix subgrade with the CAT 563 roller prior to admix placement.
- 2.0 Admix Production - TWS produced a total of 5,540 tons of admix material on Friday, August 6, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 3.0 Admix Placement - CQA observed TWS using two CAT D6 GPS dozers to place admix on the north berm and floor of Cell 10. CQA observed TWS using two (2) CAT 825 sheepfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

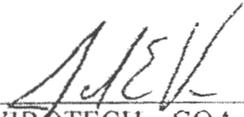
During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.

- 4.0 Secondary Geomembrane - ESI left Cell 9 secondary panels rolled up on the grade break between Cells 9 and 10. CQA witnessed ESI deploying those panels across Cell 10. All panels were renumbered to correspond with Cell 10 secondary panel numbers. CQA observed ESI placing short panels S-35 to S-55 west to east across Cell 10 along the intersection of the north-south panels deployed down the south berm and floor. After the panels were deployed, CQA witnessed ESI double wedge welding the secondary geomembrane together.

CQA also observed ESI conducting air pressure testing on the secondary geomembrane deployed on in Cell 10.

In, addition, large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51 as well as between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.

- 5.0 Drainage Gravel - CQA observed TWS hauling 2,108 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.
- 6.0 Leachate Transmission Pipe -CQA observed TWS backfilling and compacting one (1) lift of soil over the MH-38 to MH-39 pipeline with the CAT 330 excavator. CQA tested and verified that lift 1 met construction specifications.


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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-128
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Clear: Hi: 92°F Lo: 65°F Wind: 28-mph

FIELD NOTEBOOKS

James Schut Book 1	Pages: 118-122	Tyler Williams Book 2	Pages: 148-149
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FIELD TESTING

Submittal 5-18E Belt Scale Measurements	August 7, 2010	4,008 Tons	Passed
Submittal 5-18J Cell 9:Admix Testing (Repair)	Lifts: 6	SL-944 to SL-945	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 2, 3, 5, and 6	SL-946 to SL-959	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 10 North Slope Grid A8-West	SL-957	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-077 Cell 10 Admix	August 7, 2010	Panels: S-67 To S-72
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-33	USCS, Proctor, Perm: On-going
5-18K Type A Drainage Gravel	DG-A-13	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-14	Perm and USCS: On-going
5-18K Type C Drainage Gravel	DG-C-01	Perm and USCS: On-going

GENERAL ACTIVITIES

1.0 Cell 9 Sump Repair –CQA observed TWS and ESI restoring the Cell 9 sump. The admix surface dried overnight to an unsaturated condition, with small pockets of saturated admix. CQA witnessed TWS regrading the admix surface with hand tools. CQA then observed TWS utilizing the double smooth drum roller to finish and seal the entire exposed admix surface. CQA tested and verified that the repaired admix met construction specifications. See Submittal 5-18J for more information. Stratton Survey was on-site to verify that the admix surface was built as per the design drawings.

CQA observed ESI deploying five (5) Cell 9 secondary geomembrane panels, S-67 thru S-72, in the Cell 9 sump. The first panel was deployed under the Cell 9 riser pipes along with the secondary geocomposite. The subsequent panels were placed to the east and west of panel S-67. The panels were fusion welded together with the double wedge welder. A large triangular group of panels were removed when the Cell 9 floor was opened up for drying. CQA witnessed ESI double wedge welding the panel back into the same location. In addition, CQA observed ESI conducting repairs to the deployed secondary geomembrane as necessary. After the welding and repairs were completed, CQA witnessed ESI performing air and vacuum testing on the deployed secondary geomembrane.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-128
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	2	Weather:
			Clear: Hi: 92°F Lo: 65°F Wind: 28-mph

CONSTRUCTION ACTIVITIES

- 1.0 Admix Production - TWS produced a total of 4,008 tons of admix material on Saturday, August 7, 2010. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 2.0 Admix Placement - CQA observed TWS using two CAT D6 GPS dozers to place admix on the north berm, sump, and floor of Cell 10. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.

[Signature]
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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-129
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Clear: Hi: 90°F Lo: 62°F Wind: 40-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 26-27	Tyler Williams Book 2	Pages: 150-152
Lucas Hay Book 2	Pages: 95-96	James Schut Book 1	Pages: 126-129
Ryan Swenson Book 1	Pages: 27-28		

FIELD TESTING

Submittal 5-18B Leachate Transmission Line MH-34 to MH-35	Lift: 2-3	LT-135 to LT-140	Passed
Submittal 5-18B Leachate Transmission Line MH-38 to MH-39	Lift: 2-3	LT-141 to LT-142	Passed
Submittal 5-18E Belt Scale Measurements	August 9, 2010	4.029 Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 3, 4, 5, and 6	SL-960 to SL-975	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 - Cell 10 North Slope Grid A8-West	SL-957	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-078 Cell 10 Admix	August 9, 2010	Panels: S-56
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LABORATORY TESTING

5-18D Admix Soil Testing	AM-33	USCS, Proctor, Perm: On-going
5-18D Admix Soil Testing	AM-34	Sample Collected USCS: On-going
5-18K Type A Drainage Gravel	DG-A-13	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-14	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-15	Sample Collected Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-16	Sample Collected Perm and USCS: On-going
5-18K Type C Drainage Gravel	DG-C-01	Perm and USCS: On-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	S-16-129
Job Number:	S013213A00	Staff On-site:	Monday, August 9, 2010
Contractor(s):	TradeWind Services	7	Weather: Clear: Hi: 90°F Lo: 62°F Wind: 40-mph

GENERAL ACTIVITIES

1.0 Cell 9 Sump Repair – CQA observed ESI completing the repairs to the secondary geomembrane in Cell 9. CQA witnessed ESI completing air and vacuum testing on the secondary geomembrane repair in Cell 9. In addition, the CQA surveyors completed a survey of the repair area.

After the testing and survey was complete, CQA observed ESI placing two (2) new rolls of secondary geocomposite into the Cell 9 sump. The secondary geocomposite on the Cell 9 floor was redeployed over the floor secondary geomembrane panels. CQA verified that the geocomposite panels on the floor were intact and undamaged. After the rolls were deployed, ESI joined all the geocomposite rolls together and CQA verified that all geocomposite rolls were joined together as per construction specifications. CQA also witnessed ESI leistering 8 oz. geotextile over the butt seams as per construction specifications.

After the geocomposite was placed into the Cell 9 sump, TWS replaced the Type B drainage gravel in the Cell 9 sump with the CAT 312 excavator aided by the TWS surveyor. The Type B drainage gravel was spread from the stockpile on the west side of the sump east across the sump. The CQA surveyor was on-site to verify that the gravel met the design drawings. Subsequent to the removal of the CAT 312 excavator from Cell 9, the access road was compacted with the double smooth drum roller, and the secondary geomembrane replaced and repaired.

CONSTRUCTION ACTIVITIES

1.0 Admix Production – TWS produced a total of 4,029 tons of admix material on Monday, August 9, 2010. Only one bentonite silo was operational, TWS is demobilizing the east bentonite silo. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.

2.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the north berm and floor of Cell 10. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.

The CQA surveyor, Stratton Survey, was on-site to verify the admix thickness in Cell 10.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0052 ERDF Cells 9-10 Construction	Report Number:	5-16-129
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Clear: Hi: 90°F Lo: 62°F Wind: 40-mph

CONSTRUCTION ACTIVITIES

3.0 Secondary Geomembrane - CQA observed ESI deploying panel S-56 in grid I6. After the panels were deployed, CQA witnessed ESI double wedge welding the secondary geomembrane together. ESI performed repairs on panel S-56 and conducted air and pressure testing on panel S-56. This area is to be utilized as the gravel ramp area into Cells 9 and 10. A portion of panel S-56 was placed over the edge of the admix liner and draped down to the admix subgrade. Panel S-56 shall be removed at a later date.

In addition, large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51 as well as between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.

The CQA surveyor, Stratton Survey, was on-site to conduct the secondary seam survey in Cells 9 and 10.

4.0 Primary Geomembrane - The CQA surveyor, Stratton Survey, was on-site to conduct the primary seam survey in Cells 9 and 10.

5.0 Drainage Gravel - CQA observed TWS hauling 2,074 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.

6.0 Leachate Transmission Pipe - CQA observed TWS backfilling and compacting two (2) lifts of soil over the MH-34 to MH-35 pipeline and the MH-38 to MH-39 pipeline with the CAT 330 excavator and a jumping jack hand compactor. CQA tested and verified that backfill lifts 2-3 over MH-34 to MH-35 pipeline and backfill lifts 2-3 over MH-38 to MH-39 pipeline met construction specifications.

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-130
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Cloudy: Hi: 82°F Lo: 57°F Wind: 20-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 28-29	Tyler Williams Book 2	Pages: 153-158
Lucas Hay Book 2	Page: 97	James Schut Book 1	Pages: 130-134
Ryan Swenson Book 1	Page: 29		

FIELD TESTING

Submittal 5-18B Leachate Transmission Line MH-34 to MH-35	Lift: 4-5	LT-143 to LT-148	Passed
Submittal 5-18E Belt Scale Measurements	August 10, 2010	3,643 Tons	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 1, 2, 3, 4, and 6	SL-976 to SL-995	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 10 North Slope Grid A8-West	SL-957	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 10 Sump Grid D8	SL-995	Sample Collected Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-079 Cell 10 Subgrade	August 10, 2010	Grids: E8, F8, and G8
Submittal 5-18R-080 Cell 9 Admix	August 10, 2010	Panels: S-73 to S-77
Submittal 5-18R-081 Cell 10 Primary Subgrade	August 10, 2010	Panels: P-1 to P-7

LABORATORY TESTING

5-18D Admix Soil Testing	AM-33	USCS, Proctor: Completed Perm: On-going
5-18D Admix Soil Testing	AM-34	USCS: On-going
5-18K Type A Drainage Gravel	DG-A-13	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-14	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-15	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-16	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-17	Sample Collected Perm and USCS: On-going
5-18K Type C Drainage Gravel	DG-C-02	Perm and USCS: On-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-130
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Cloudy: Hi: 82°F Lo: 57°F Wind: 20-mph

GENERAL ACTIVITIES

- 1.0 Cell 9 Sump Repair – CQA witnessed ESI deploying Cell 9 secondary geomembrane seams S-73 to S-75 to the east of the Cell 9 sump. After the panels were placed, CQA witnessed ESI fusion welding the panels together. CQA also observed ESI performing extrusion repairs to the secondary geomembrane as needed.
- 2.0 Weekly Progress Meetings – CQA attended the construction contractor’s weekly progress meeting on Tuesday, August 10, 2010 at 10:00 am. in the meeting trailer.
- 3.0 Beryllium Training – CQA attended the Hanford worker training presentation on Beryllium exposure at 6:00 in the Meeting trailer.

CONSTRUCTION ACTIVITIES

- 1.0 Admix Production – TWS produced a total of 3,643 tons of admix material on Tuesday, August 10, 2010. TWS has completed admix production activities. CQA performed belt scale measurements, clod size observations and verified that the admix met the contract specifications.
- 2.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the north berm and floor of Cell 10. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.
- 3.0 Secondary Geomembrane – CQA observed ESI deploying secondary geomembrane panels S-76 to S-77 over accepted admix subgrade on the north slope and floor of Cell 9. The panels were deployed from the north anchor trench down the north embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. After the sheets were deployed, two fusion welders seamed the secondary geomembrane together.

Large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51 as well as between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.
- 4.0 Secondary Geocomposite – CQA observed ESI deploying two (2) panels of geocomposite in grid I6. CQA witnessed ESI joining the panels as per construction specifications. The geotextile flaps were sewn together and the ends leistered with 8 oz. geotextile.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-130
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Cloudy: Hi: 82°F Lo: 57°F Wind: 20-mph

CONSTRUCTION ACTIVITIES

- 5.0 Primary Geomembrane - CQA observed ESI deploying primary panels P-1 to P-7 in grid I6. This area is to be utilized as the gravel ramp area into Cells 9 and 10. After the panels were deployed, CQA witnessed ESI double wedge welding the secondary geomembrane together. ESI performed repairs on panels P-1 to P-7 and conducted air and pressure testing on panel S-56.
- 6.0 Drainage Gravel - CQA observed TWS hauling 2,339 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.
- 7.0 Leachate Transmission Pipe - CQA observed TWS backfilling and compacting two (2) lifts of soil over the MH-34 to MH-35 pipeline with the CAT 330 excavator and a the CAT 563 smooth drum roller. CQA tested and verified that backfill lifts 4-5 over MH-34 to MH-35 pipeline met construction specifications.

In addition, CQA observed BMWC installing the 16x10-in double containment line between manholes MH-38 and M-9.

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-131
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Cloudy: Hi: 88°F Lo: 61°F Wind: 23-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 30-32	Tyler Williams Book 2	Pages: 156-159
Lucas Hay Book 2	Page: 98-99	James Schut Book 1	Pages: 135-137
Ryan Swenson Book 1	Page: 30-31		

FIELD TESTING

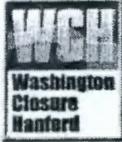
Submittal 5-18B Leachate Transmission Line MH-34 to MH-35	Lift: 6-7	LT-149 to LT-154	Passed
Submittal 5-18B Leachate Transmission Line MH-38 to MH-39	Lift: 4	LT-155	Passed
Submittal 5-18J Cell 10: Admix Testing	Lifts: 4, 5, and 6	SL-996 to SL-1004	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 10 North Slope Grid A8-West	SL-957	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 10 Sump Grid D8	SL-995	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 10 North Floor Grid F8	SL-998	Perm: On-going

LABORATORY TESTING

5-18D Admix Soil Testing	AM-33	Perm: On-going
5-18D Admix Soil Testing	AM-34	USCS: Passed
5-18K Type A Drainage Gravel	DG-A-13	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-14	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-15	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-16	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-17	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-18	Sample Collected Perm and USCS: On-going
5-18K Type C Drainage Gravel	DG-C-02	Perm and USCS: On-going

GENERAL ACTIVITIES

1.0 **Cell 9 Sump Repair** – CQA observed ESI air pressure testing panels S-73 to S-75. CQA also witnessed ESI performing vacuum testing on the repairs to the secondary geomembrane. CQA certifies that the Cell 9 sump repair has been completed and all installed materials meet contract specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-131	
Job Number:	S013213A00	Staff On-site	Date:	Wednesday, August 11, 2010
Contractor(s):	TradeWind Services	7	Weather:	Cloudy: Hi: 88°F Lo: 61°F Wind: 23-mph

GENERAL ACTIVITIES

- 2.0 Cell 10 Rut Repair – CQA discovered a rut underneath the primary geomembrane approximately 1-½ to 2-in in height in the proposed location of the gravel haul road. Upon investigation, it was decided to remove the rut. ESI cut open the geosynthetics, and repaired the rut with hand tools. The rut was laid flat and CQA witnessed ESI repairing the geosynthetics. The patch was extrusion welded to the secondary geomembrane, and vacuum tested. The secondary geocomposite was joined as per the composite repair section of the construction specifications. The primary geomembrane was patched, extrusion welded, and vacuum tested. CQA certifies that the repair was conducted as per construction specifications.

CONSTRUCTION ACTIVITIES

- 1.0 Admix Placement – CQA observed TWS using two CAT D6 GPS dozers to place admix on the floor of Cell 10 south of the Cell 10 sump. CQA observed TWS using two (2) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix.

CQA surveyors were on-site to capture admix thickness on the north half of Cell 10 admix.

- 2.0 Secondary Geomembrane – Large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51 as well as between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.

The CQA surveyors were on-site to perform the secondary seam survey in Cell 9 and 10.

- 3.0 Primary Geomembrane – CQA observed ESI performing repairs to the Cell 10 primary panels P-1 to P-7. In addition, CQA witnessed ESI air testing Cell 10 primary seams P-1 to P-7 and vacuum testing the repair locations.

The CQA surveyors were on-site to perform the primary seam survey in Cells 9 and 10.

- 4.0 Primary Geotextile – CQA observed ESI deploying sixteen (16) rolls of 16 oz. geotextile over the Cell 9 primary geomembrane and two (2) rolls of 16 oz. over the Cell 10 primary geomembrane. The geotextile was deployed from the center of Cell 9 south, toward the south slope. All deployed geotextile was double wedge welded together. CQA certifies that the 16 oz. geotextile was deployed as per construction specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-131
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Cloudy: Hi: 88°F Lo: 61°F Wind: 23-mph

CONSTRUCTION ACTIVITIES

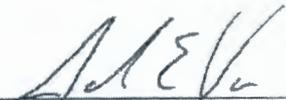
5.0 Drainage Gravel - CQA observed TWS hauling 2,600 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.

6.0 Leachate Transmission Pipe -CQA observed TWS backfilling and compacting two (2) lifts of soil over the MH-34 to MH-35 pipeline with the CAT 330 excavator and a the CAT 563 smooth drum roller. CQA tested and verified that backfill lifts 6-7 over MH-34 to MH-35 pipeline met construction specifications.

CQA also observed TWS backfilling and compacting one (1) lift of soil over the MH-38 to MH-39 pipeline with the CAT 330 excavator and a the CAT 563 smooth drum roller. CQA tested and verified that backfill lift 4 over MH-38 to MH-39 pipeline met construction specifications.

In addition, CQA observed BMWC installing the 16x10-in double containment line between manholes MH-38 and M-9.

CQA surveyors were on-site to as-build the pipe installation.


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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-132
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear: Hi: 100°F Lo: 58°F Wind: 36-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 33-35	Tyler Williams Book 3	Pages: 1-3
Lucas Hay Book 2	Page: 100	James Schut Book 1	Pages: 138-141
Ryan Swenson Book 1	Pages: 32-33		

FIELD TESTING

Submittal 5-18B Leachate Transmission Line MH-34 to MH-35	Lift: 8	LT-156 to LT-158	Passed
Submittal 5-18J Cell 10:Admix Testing	Lifts: 5 and 6	SL-1005 to SL-1006	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 10 North Slope Grid A8-West	SL-957	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 10 Sump Grid D8	SL-995	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 10 North Floor Grid F8	SL-998	Perm: On-going

LABORATORY TESTING

5-18D Admix Soil Testing	AM-33	Perm: On-going
5-18K Type A Drainage Gravel	DG-A-13	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-14	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-15	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-16	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-17	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-18	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-19	Sample Collected Perm and USCS: On-going
5-18K Type C Drainage Gravel	DG-C-02	Perm and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Geocomposite Exposure – Secondary geocomposite on the west side of the Cell 9 floor has been exposed for 13 days. Since the secondary geocomposite will not be covered by primary geomembrane prior to 14 days of exposure, ESI chose to expose the alternative side of the geocomposite. CQA observed ESI removing the ties on every other panel of secondary geocomposite exposed in Cell 9. Every other panel of geocomposite was then flipped over and placed over the neighboring panel of geocomposite; thereby, exposing the geotextile on the underside of the geocomposite. As the alternative side of the geotextile has been exposed, ESI has 14 days to cover the remaining geocomposite.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-132
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Cloudy: Hi: 100°F Lo: 58°F Wind: 36-mph

CONSTRUCTION ACTIVITIES

- 1.0 Admix Placement – CQA observed TWS using one CAT D6 GPS dozers to place admix on the floor of Cell 10 south of the Cell 10 sump. CQA observed TWS using one (1) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture condition, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.

During the day, TWS moisture conditioned and maintained the finished admix surface. At the end of the day all unfinished admix was back dragged with the blade on the CAT D6 dozer to seal the admix. In addition, TWS began grading in the Cell 10 admix sump with the CAT 312 excavator aided by the TWS surveyor.
- 2.0 Secondary Geomembrane – CQA observed ESI performing extrusion repairs to the secondary geomembrane in Cell 10. In addition, large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-47 and S-51 as well as between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.
- 3.0 Primary Geomembrane – CQA observed ESI conducting vacuum testing to the primary geomembrane in Cell 9. CQA verified that all vacuum tests met contract specifications.
- 4.0 Primary Geotextile – CQA observed ESI deploying twenty (20) rolls of 16 oz. geotextile over the Cell 9 primary geomembrane. The geotextile was deployed from the center of Cell 9 south, toward the south slope. All deployed geotextile was double wedge welded together. CQA certifies that the 16 oz. geotextile was deployed as per construction specifications.
- 5.0 Primary Drainage Gravel – CQA observed TWS constructing a gravel entrance ramp in Cell 10. The ramp was constructed in grid cell 16, where the primary geomembrane was placed over the admix slope and onto the Cell 10 subgrade (See Report 5-16-131). CQA witnessed ESI placing scrap geocomposite over the primary geomembrane that will be wasted when the ramp is removed. TWS placed operations soil over the geocomposite, utilizing a CAT D6 LGP dozer to construct a ramp from the Cell 10 subgrade to 7-ft above of the primary geomembrane. After the soil road was in-place, CQA observed TWS hauling drainage gravel to Cell 10 floor, up the gravel access ramp, and unloading the gravel onto the haul road. The gravel on the road was stockpiled at the end of the road by a CAT D6 LGP dozer. A CAT 325 excavator constructed a 7-ft high gravel haul road across Cell 9, spreading the gravel onto the Cell 9 floor as to trap the smaller wrinkles before the propagated into larger wrinkles. During the placement of drainage gravel, CQA continuously observed placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.
- 6.0 Drainage Gravel – CQA observed TWS hauling 2,031 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.
- 7.0 Leachate Transmission Pipe – CQA observed TWS backfilling and compacting one (1) lift of soil over the MH-34 to MH-35 pipeline with the CAT 330 excavator and a the CAT 563 smooth drum roller. CQA tested and verified that lift 8 of the backfill placed between MH-34 to MH-35 pipeline met construction specifications.
- 8.0 Tank #3 – CQA observed TWS pouring concrete for the tank #3 ringwall. IMT was on-site to perform concrete testing as per the contract specifications.

ENVIROTECH – CQA

8/24/0

DATE

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-133
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Cloudy: Hi: 92°F Lo: 63°F Wind: 27-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 36-37	Tyler Williams Book 3	Pages: 4-7
Lucas Hay Book 2	Page: 101-103	James Schut Book 1	Pages: 142-143
Ryan Swenson Book 1	Pages: 34-35		

FIELD TESTING

Submittal 5-18B Leachate Transmission Line MH-34 to MH-35	Lift: 9	LT-159 to LT-161	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 - Cell 10 North Slope Grid A8-West	SL-957	Perm: Completed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 - Cell 10 Sump Grid D8	SL-995	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 10 North Floor Grid F8	SL-998	Perm: On-going

LABORATORY TESTING

5-18D Admix Soil Testing	AM-33	Perm: Passed
5-18K Type A Drainage Gravel	DG-A-13	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-14	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-15	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-16	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-17	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-18	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-19	Perm and USCS: On-going
5-18K Type C Drainage Gravel	DG-C-02	Perm and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Weather – ESI was preparing to deploy secondary geomembrane on the north slope of Cell 10, but safety issues stemming from high sustained winds halted liner deployment.
- 2.0 Secondary Geomembrane Wrinkles – CQA has been tracking the wrinkles that developed on Cell 9 north slope secondary panels S-47 to S-51. ESI has divided and lessened the wrinkles by “walking” them out. ESI believes that the wrinkles are now within specification and will not fold over during operations placement. CQA noted that at the moment, the wrinkles were within specification, but if the wrinkles do not meet specifications during operations placement, all four layers will need to be cut and repaired. CQA contacted WCH and explained the quality concern to Bill Melvin.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-133
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Cloudy: Hi: 92°F Lo: 65°F Wind: 27-mph

CONSTRUCTION ACTIVITIES

- 1.0 Admix Placement - During the day, TWS moisture conditioned and maintained the finished admix surface. In addition, CQA observed TWS grading the Cell 10 admix sump and riser trench with the CAT 312 excavator aided by the TWS surveyor.

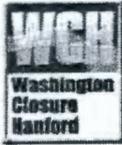
Stratton Surveying was on-site to as-built the admix on the north half of Cell 10.
- 2.0 Secondary Geomembrane -Large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.

Stratton Surveying was on-site to conduct the secondary seam survey.
- 3.0 Primary Geomembrane - CQA observed ESI performing repairs on the Cell 9 primary geomembrane.

Stratton Surveying was on-site to conduct the primary seam survey.
- 4.0 Primary Geotextile - CQA observed ESI deploying nine (9) rolls of 16 oz. geotextile over the Cell 9 primary geomembrane. The geotextile was deployed from the center of Cell 9 north, toward the north slope. All deployed geotextile was double wedge welded together. CQA certifies that the 16 oz. geotextile was deployed as per construction specifications.
- 5.0 Primary Drainage Gravel - CQA observed TWS hauling Type A drainage gravel from the stockpile northeast of Cell 10 in payhaulers to the Cell 10 floor. The payhaulers backed onto the 7-ft high gravel road, making no sudden movements or turns, and unloaded Type A gravel onto the haul road. The gravel was stockpiled at the end of the road by a CAT D6 LGP dozer. A CAT 325 excavator constructed a 7-ft high gravel haul road across Cell 9, spreading the gravel onto the Cell 9 floor as to trap the smaller wrinkles before the propagated into larger wrinkles. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.
- 6.0 Drainage Gravel - CQA observed TWS hauling 2,061 tons of Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.
- 7.0 Leachate Transmission Pipe -CQA observed TWS backfilling and compacting one (1) lift of soil over the MH-34 to MH-35 pipeline with the CAT 330 excavator and a the CAT 563 smooth drum roller. CQA tested and verified that lift 9 of the backfill placed between MH-34 to MH-35 pipeline met construction specifications.

A. J. EV
ENVIROTECH - CQA

8/20/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-134
Job Number:	S013213A00	Staff On-site:	Monday, August 16, 2010
Contractor(s):	TradeWind Services	5	Weather: Clear: Hi: 101°F Lo: 64°F Wind: 15-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 38-40	Tyler Williams Book 3	Pages: 8-11
Lucas Hay Book 2	Pages: 104-105	James Schut Book 1	Pages: 144-146
Ryan Swenson Book 1	Page: 36		

FIELD TESTING

Submittal 5-18B Leachate Transmission Line MH-34 to MH-35	Lifts: 10-11	LT-162 to LT-167	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 - Cell 10 Sump Grid D8	SL-995	Perm: On-going
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 - Cell 10 North Floor Grid F8	SL-998	Perm: On-going

CQA HOLD POINTS

Submittal 5-18R-082 Cell 10 Admix	August 16, 2010	Panels: S-57 to S-66
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LABORATORY TESTING

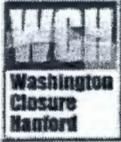
5-18K Type A Drainage Gravel	DG-A-13	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-14	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-15	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-16	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-17	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-18	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-19	Perm and USCS: On-going
5-18K Type C Drainage Gravel	DG-C-02	Perm: Passed USCS: Failed Gravel Passes (See General Activities)

GENERAL ACTIVITIES

1.0 Drainage Gravel - Test DG-C-02 had 5% of fines pass through the No. 100 sieve, not meeting the construction specifications of 4% passing the No. 100 sieve. After reviewing the permeability results, Tim Wintel, WCH Project Engineer, approved the material for use in Cell construction.

CONSTRUCTION ACTIVITIES

2.0 Admix Placement - During the day, TWS moisture conditioned and maintained the finished admix surface.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-134
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear: Hi: 101°F Lo: 64°F Wind: 15-mph

CONSTRUCTION ACTIVITIES

- 3.0 Secondary Geomembrane – CQA observed ESI deploying ten (10) panels of secondary geomembrane panels S-57 to S-66 over accepted admix subgrade on the north slope and floor of Cell 10. The panels were deployed from the north anchor trench down the north embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. After the sheets were deployed, two fusion welders seamed the secondary geomembrane together.
- 4.0 Large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.
- 5.0 Primary Drainage Gravel – TWS continued to place Type A gravel in Cells 9 and 10. TWS completed the southwest haul road running from grid I6 southwest to grid M1, and started the west haul road from grid I6 to grid I1.

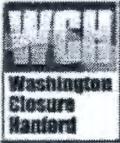
CQA observed TWS hauling Type A drainage gravel from the stockpile northeast of Cell 10 in payhaulers to the Cell 10 floor. The payhaulers backed onto the 7-ft high gravel road, making no sudden movements or turns, and unloaded Type A gravel onto the haul road. The gravel was stockpiled at the end of the road by a CAT D6 LGP dozer. A CAT 325 excavator constructed a 7-ft high gravel haul road across Cell 9, spreading the gravel onto the Cell 9 floor as to trap the smaller wrinkles before the propagated into larger wrinkles. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.

- 6.0 Drainage Gravel – CQA observed TWS hauling Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.
- 7.0 Leachate Transmission Pipe –CQA observed TWS backfilling and compacting two (2) lifts of soil over the MH-34 to MH-35 pipeline with the CAT 330 excavator and a the CAT 563 smooth drum roller. CQA tested and verified that lifts 10-11 of the backfill placed between MH-34 to MH-35 pipeline met construction specifications.

CQA also witnessed ESI pressure testing the discharge pipes for Cells 9 and 10. CQA verified that one (1) 3-in discharge line and one (1) 1 ½-in discharge pipe met construction specifications.

[Signature]
ENVIROTECH – CQA

9/1/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-135
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear: Hi: 103°F Lo: 61°F Wind: 23-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 41-42	Tyler Williams Book 3	Pages: 12-14
Lucas Hay Book 2	Pages: 106-109	James Schut Book 1	Pages: 150-152

FIELD TESTING

Submittal 5-18B Leachate Transmission Line MH-38 to MH-9	Lifts: 1-2	LT-168 to LT-169	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 10 Sump Grid D8	SL-995	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 10 North Floor Grid F8	SL-998	Perm: Passed

CQA HOLD POINTS

Submittal 5-18R-083 Cell 10 Admix	August 17, 2010	Panels: S-67 to S-68
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LABORATORY TESTING

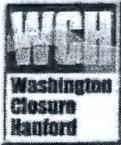
5-18K Type A Drainage Gravel	DG-A-15	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-16	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-17	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-18	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-19	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-20	Sample Collected Perm and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Weekly Progress Meetings – CQA attended the construction contractor’s weekly progress meeting on Tuesday, August 10, 2010 at 10:00 am. in the meeting trailer.

CONSTRUCTION ACTIVITIES

- 1.0 Admix Placement – During the day, TWS moisture conditioned and maintained the finished admix surface.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-135
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear: Hi: 103°F Lo: 61°F Wind: 23-mph

CONSTRUCTION ACTIVITIES

2.0 Secondary Geomembrane – CQA observed ESI deploying two (2) partial panels of secondary geomembrane panels S-67 to S- 68 over accepted admix subgrade in the Cell 10 sump and riser trench. The panels were deployed from the north anchor trench down the north embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. After the sheets were deployed, two fusion welders seamed the secondary geomembrane together. CQA also observed ESI performing repairs, conducting destructive and nondestructive testing on the deployed geomembrane in the Cell 10 sump and riser trench.

Large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.

3.0 Secondary Geocomposite – Following secondary geomembrane deployment in the Cell 10 riser trench and sump, CQA observed ESI deploying four (4) rolls of secondary geocomposite in the Cell 10 riser trench and sump. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.

4.0 Primary Geotextile – CQA observed ESI deploying six (6) rolls of primary 16 oz. geotextile in the north half of Cell 9. After the rolls were deployed, CQA observed ESI double wedge welding the panels together.

5.0 Primary Drainage Gravel – TWS continued to place Type A gravel in Cells 9 and 10. TWS left the west haul road in grid I2, and began a northwest haul road running from grid I6 to grid E1.

CQA observed TWS hauling Type A drainage gravel from the stockpile southeast of Cell 10 in payhaulers to the Cell 10 floor. The payhaulers backed onto the 7-ft high gravel road, making no sudden movements or turns, and unloaded Type A gravel onto the haul road. The gravel was stockpiled at the end of the road by a CAT D6 LGP dozer. A CAT 325 excavator constructed a 7-ft high gravel haul road across Cell 9, spreading the gravel onto the Cell 9 floor as to trap the smaller wrinkles before the propagated into larger wrinkles. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.

6.0 Drainage Gravel – CQA observed TWS hauling Type A drainage gravel to site. The gravel was stockpiled to the southeast of Cell 10.

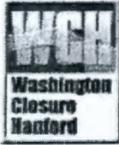
7.0 Leachate Transmission Pipe –CQA observed TWS backfilling and compacting two (2) lifts of soil over the MH-38 to MH-9 pipeline with the CAT 330 excavator and a the CAT 563 smooth drum roller. CQA tested and verified that lifts 1-2 of the backfill placed between MH-38 to MH-9 pipeline met construction specifications.

CQA also witnessed ESI pressure testing the discharge pipes for Cells 9 and 10. CQA verified that one (1) 3-in discharge pipe met construction specifications. One (1) 1 ½-in discharge pipe did not meet construction specifications. CQA shall retest at a later date.

ENVIROTECH – CQA

8/19/10
DATE

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-136
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Cloudy: Hi: 83°F Lo: 59°F Wind: 17-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 43-44	Tyler Williams Book 3	Pages: 14-16
Lucas Hay Book 2	Pages: 110-111	James Schut Book 1	Pages: 150-152

FIELD TESTING

Submittal 5-18B Leachate Transmission Line MH-38 to MH-9	Lifts: 3-5	LT-170 to LT-172	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 4 – Cell 9 Sump Grid D3	SL-455	Perm: Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 9 North Slope Grid C3	SL-475	Perm: Passed
Submittal 5-18Q Cell 10 Secondary Riser	Lift: 1	R10-1	Passed

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-15	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-16	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-17	Perm and USCS: Failed
5-18K Type A Drainage Gravel	DG-A-18	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-19	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-A-20	Perm and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Shelby Tubes – Shelby Tubes SL-455 and SL-475 were not logged into the field testing log correctly. The tests were noted correctly in the field paperwork, but the tests were not placed into the daily field tracking. The samples were shipped, tested, and passed testing, but not reported. The error was caught during double checking of all admix paperwork, as such; the results are being reported with this report.
- 2.0 Failed Gravel Testing – There was an error in the processing of sample DG-A-17 at some point between sampling and testing. As such, the test data indicated the gravel to be drastically different than what appears to be a consistent product. CQA shall resample DG-A-17 to verify gravel consistency.

CONSTRUCTION ACTIVITIES

- 1.0 Admix Placement – During the day, TWS moisture conditioned and maintained the finished admix surface.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-136
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Cloudy: Hi: 83°F Lo: 59°F Wind: 17-mph

CONSTRUCTION ACTIVITIES

- 2.0 Secondary Geomembrane – CQA observed ESI performing repairs on Cell 10 secondary liner panels S-57 to S-66. In addition, ESI conducted destructive and non-destructive testing on the Cell 10 secondary liner panels S-57 to S-66. In addition, 40-ft of seam S4/S5 did not pass air pressure testing and will have to be capped.
- Large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.
- 3.0 Secondary Geocomposite – CQA observed ESI deploying one (1) partial panel of secondary geocomposite in the Cell 10 sump. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- 4.0 Secondary Leachate Collection Piping – CQA observed BMWC aided by TWS placing the two secondary riser pipes into Cell 10. Both pipes were placed through the openings in the Cell 10 crest pad and walked down the slope with the aid of the CAT 312 excavator and laborers. After the riser pipes were in-place, CQA observed TWS backfilling over the pipes with the CAT 312 excavator. Backfill was placed into a large bucket with 2 wheels, and the CAT excavator place soil from the bucket into the trench over the pipes. The soil was compacted with a hoe-pack attached to the 312 excavator. CQA verified that lift 1 of the secondary riser trench in Cell 10 met compaction specifications.
- 5.0 Primary Geotextile – CQA observed ESI deploying six (18) rolls of primary 16 oz. geotextile in Cell 9. After the rolls were deployed, CQA observed ESI double wedge welding the panels together.
- 6.0 Primary Drainage Gravel – TWS continued to place Type A gravel in Cells 9 and 10. TWS continued placing the northwest haul road running from grid 16 to grid E1. Later in the day, TWS began placing gravel on the west haul road from grid 16 to grid 11.
- CQA observed TWS hauling Type A drainage gravel from the stockpile southeast of Cell 10 in payhaulers to the Cell 10 floor. The payhaulers backed onto the 7-ft high gravel road, making no sudden movements or turns, and unloaded Type A gravel onto the haul road. The gravel was stockpiled at the end of the road by a CAT D6 LGP dozer. A CAT 325 excavator constructed a 7-ft high gravel haul road across Cell 9, spreading the gravel onto the Cell 9 floor as to trap the smaller wrinkles before the propagated into larger wrinkles. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.
- 7.0 Leachate Transmission Pipe – CQA observed TWS backfilling and compacting three (3) lifts of soil over the MH-38 to MH-9 pipeline with the CAT 330 excavator and a the CAT 563 smooth drum roller. CQA tested and verified that lifts 3-5 of the backfill placed between MH-38 to MH-9 pipeline met construction specifications.
- CQA also witnessed ESI pressure testing the discharge pipe for Cells 9 and 10. CQA verified that the failed 1 ½-in pipe that failed in Report 5-16-135 met construction specifications.

ENVIROTECH – CQA

8/20/10
DATE

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-137
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Clear: Hi: 95°F Lo: 59°F Wind: 35-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 45-46	Tyler Williams Book 3	Pages: 17-21
Lucas Hay Book 2	Pages: 112-113	Ryan Swenson Book 1	Pages: 37-38

FIELD TESTING

Submittal 5-18Q Cell 10 Secondary Riser	Lift: 2	R10-2	Passed
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LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-19	Perm and USCS: Passed
5-18K Type A Drainage Gravel	DG-A-20	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-C-02A	Sample Collected Perm and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Geotextile and Geocomposite Exposure – The geocomposite in the Cell 9 secondary riser trench has reached its 14 day exposure limit, and the geotextile in the Cell 9 secondary riser trench has passed its 14 day exposure limit by 8 days. Therefore, ESI has decided to cover the entire riser trench with a 20 mil rub sheet to prolong the UV exposure date. CQA has rejected the geotextile material in the Cell 9 riser trench; ESI shall remove the geotextile at a later date.
- 2.0 DOE CQA Oversight – Harry Moomy part of the DOE CQA oversight effort was on-site to observe gravel placement in Cell 9.

CONSTRUCTION ACTIVITIES

- 1.0 Admix Placement – During the day, TWS moisture conditioned and maintained the finished admix surface.
- 2.0 Secondary Geomembrane – CQA observed ESI performing repairs on Cell 10 secondary liner panels S-57 to S-66. In addition, ESI conducted destructive and non-destructive testing on the Cell 10 secondary liner panels S-57 to S-66. In addition, 40-ft of seam S4/S5 did not pass air pressure testing and will be capped. ESI also welded a secondary pipe boot around the riser pipe penetrations in the north anchor trench of Cell 10.

Stratton Surveying, the CQA surveyor, was on-site to perform the secondary liner as-built survey in Cell 10.

Large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-137
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Clear: Hi: 95°F Lo: 59°F Wind: 35-mph

CONSTRUCTION ACTIVITIES

- 3.0 Secondary Geocomposite – CQA observed ESI deploying twenty-three (23) panels of secondary geocomposite on the north slope and north floor of Cell 9. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- 4.0 Secondary Leachate Collection Piping – CQA observed TWS backfilling over the pipes with the CAT 312 excavator. Backfill was placed into a large bucket with 2 wheels, and the CAT exactor place soil from the bucket into the trench over the pipes. The soil was compacted with a hoe-pack attached to the 312 excavator. CQA verified that lift 2 of the secondary riser trench in Cell 10 met compaction specifications.

Stratton Survey was on-site to as-built survey the secondary riser pipes in Cell 10.

- 5.0 Primary Drainage Gravel – TWS continued to place Type A gravel in Cells 9 and 10. TWS continued placing the west haul road running from grid I6 to grid I1. After TWS shut off gravel placement to the haul roads, CQA observed TWS utilizing two (2) CAT D6 LGP dozers to spread the stockpiled rock from the haul roads across Cell 9 in a 1-ft high lift. The gravel was compacted and track-walked concurrently with spreading operations.

CQA observed TWS hauling Type A drainage gravel from the stockpile southeast of Cell 10 in payhaulers to the Cell 10 floor. The payhaulers backed onto the 7-ft high gravel road, making no sudden movements or turns, and unloaded Type A gravel onto the haul road. The gravel was stockpiled at the end of the road by a CAT D6 LGP dozer. A CAT 325 excavator constructed a 7-ft high gravel haul road across Cell 9, spreading the gravel onto the Cell 9 floor as to trap the smaller wrinkles before the propagated into larger wrinkles. Mid-morning, the CAT 325 stopped gravel placement on the haul roads, and two (2) CAT D6 LGP dozers began to spread the haul road gravel across Cell 9 in a 1-ft high lift. The gravel was compacted and track-walked concurrently with spreading operations. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.

- 6.0 Leachate Transmission Pipe – CQA witnessed ESI pressure testing the discharge pipe for Cells 9 and 10. CQA verified that two (2) of the 1 1/2-in pipes met construction specifications. CQA certifies that all leachate discharge pipe for Cells 9 and 10 meets construction specifications.

CQA observed TWS excavating the leachate transmission trench between MH-36 and MH-37. The trench was excavated with a CAT 325 excavator aided by two (2) payhauler trucks.

- 7.0 Anchor Trench – CQA observed TWS excavating the anchor trench on the north berm between the riser trench and the eastern extents of Cell 10. TWS excavated the anchor trench with a CAT 325 excavator aided by two (2) payhauler trucks.

A. E. V. C.
ENVIROTECH – CQA

8/23/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	S-16-138
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Partly Cloudy: Hi: 88°F Lo: 52°F Wind: 23-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 47-48	Tyler Williams Book 3	Pages: 22-25
Lucas Hay Book 2	Page: 114	Ryan Swenson Book 1	Page: 39

CQA HOLD POINTS

Submittal 5-18R-084 Cell 10 Admix	August 20, 2010	Panels: S-69 to S-82
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LABORATORY TESTING

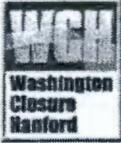
5-18K Type A Drainage Gravel	DG-A-20	Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-C-02A	Perm and USCS: On-going

GENERAL ACTIVITIES

- 1.0 Secondary Sump – ESI and TWS have decided to leave the admix exposed south of the Cell 10 secondary sump. In order to protect the sump over the weekend, ESI buried the leading edge of the secondary geomembrane in the admix material. In addition, TWS created temporary berm out of admix material in order to protect the Cell 10 sump from run-off storm water.

CONSTRUCTION ACTIVITIES

- 1.0 Admix Placement – During the day, TWS moisture conditioned and maintained the finished admix surface.
- 2.0 Secondary Geomembrane – CQA observed ESI deploying twelve (12) panels of secondary geomembrane panels S-69 to S-82 over accepted admix subgrade on the north slope and floor of Cell 10. The panels were deployed from the north anchor trench down the north embankment. A rub sheet was utilized at the shoulder of the admix slope to minimize erosion. After the sheets were deployed, two fusion welders seamed the secondary geomembrane together.
- CQA also observed ESI performing repairs and conducting vacuum testing in the Cell 10 secondary sump.
- Large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.
- 3.0 Secondary Leachate Collection Piping – CQA observed ESI placing and leistering one (1) panel of 16 oz. geotextile over the Cell 10 secondary riser trench backfill.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-138
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Partly Cloudy: Hi: 88°F Lo: 52°F Wind: 23-mph

CONSTRUCTION ACTIVITIES

4.0 Secondary Sump – CQA observed TWS placing Type B drainage gravel into the Cell 10 sump. TWS hauled the gravel in international payhaulers from the stockpile east of Cell 10 to the Cell 10 sump. The payhaulers accessed the sump by driving directly north from the subgrade haul road, over the admix surface, and to the Cell 10 sump. The gravel was placed into the sump where it was spread with a CAT 312 excavator aided by the TWS surveyor.

During the transportation of the drainage gravel, several large ruts resulting from the international payhaulers. The ruts were knocked flat and leveled with the CAT 312 excavator. TWS still requires additional Type B drainage gravel in the Cell 10 sump and will repair the admix after hauling operations are complete.

5.0 Primary Drainage Gravel – TWS continued to place Type A gravel in Cells 9. TWS utilized two (2) CAT D6 LGP dozers to spread the haul road gravel across Cell 9 in a 1-ft high lift. The gravel was compacted and track-walked concurrently with spreading operations. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.

6.0 Leachate Transmission Pipe – CQA observed TWS excavating the leachate transmission trench between MH-36 and MH-37. The trench was excavated with a CAT 325 excavator aided by two (2) payhauler trucks.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-139
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Monday, August 23, 2010
			Partly Cloudy: Hi: 87°F Lo: 54°F
			Wind: 16-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 49-51	Tyler Williams Book 3	Pages: 26-28
Lucas Hay Book 2	Pages: 115-116	James Schut Book 2	Page: 1
Ryan Swenson Book 1	Page: 40		

CQA HOLD POINTS

Submittal 5-18R-085 Cell 10 Admix	August 23, 2010	Panels: S-83 to S-84
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LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-20	Perm: Passed USCS: Failed (Passed by WCH)
5-18K Type A Drainage Gravel	DG-A-17A	Sample Collected Perm and USCS: On-going
5-18K Type A Drainage Gravel	DG-C-02A	Perm and USCS: Passed

GENERAL ACTIVITIES

1.0 Drainage Gravel Testing – Drainage gravel sample DG-A-20 failed to meet sieve specifications on the ¼ inch sieve. After review of the testing and permeability by the WCH engineer, it was determined that the rock sample met project specifications.

CONSTRUCTION ACTIVITIES

1.0 Admix Placement – CQA observed TWS performing repairs to the admix liner south of the Cell 10 sump where the International Payhaulers accessed the Cell 10 sump. TWS intentionally left the admix in the haul area overbuilt. CQA witnessed TWS moisture conditioned the exposed admix south of the Cell 10 floor and sheepfoot the admix with the CAT 825 compactor. TWS then clipped the admix to grade with the CAT D6 dozer. After the dozer had trimmed the surface back to grade, CQA witnessed that the ruts from the payhaulers and the pegs from the compactors did not penetrate past the overbuilt admix. The admix surface was finished with a CAT CS 563 smooth drum roller.

The CQA surveyor was on-site to verify the admix thickness of the repair area.

2.0 Secondary Geomembrane – CQA observed ESI deploying two (2) panels of secondary geomembrane panels S-83 to S-84 over accepted admix subgrade on the floor of Cell 10 south of the sump. After the sheets were deployed, two fusion welders seamed the secondary geomembrane together.

CQA also observed ESI performing repairs and conducting non-destructive testing in the Cell 10 secondary geomembrane. In addition, ESI cut destructs in the deployed secondary geomembrane.

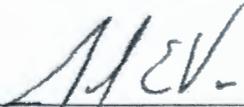


CQA DAILY CONSTRUCTION REPORT

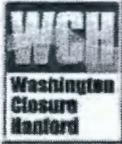
Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-139
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Partly Cloudy: Hi: °F Lo: °F Wind: -mph

CONSTRUCTION ACTIVITIES

- 3.0 Secondary Geomembrane (Continued) – Large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.
- 4.0 Secondary Sump – CQA observed TWS placing and grading Type B drainage gravel into the Cell 10 sump. TWS hauled the gravel in international payhaulers from the stockpile east of Cell 10 to the Cell 10 sump. The payhaulers accessed the sump by driving directly north from the subgrade haul road, over the admix surface, and to the Cell 10 sump. The gravel was placed into the sump where it was spread with a CAT 312 excavator aided by the TWS surveyor.
- The CQA surveyor was on-site to verify the thickness of the secondary sump rock.
- During the transportation of the drainage gravel, several large ruts resulting from the international payhaulers. The ruts were repaired during the admix repair (see 1.0 Admix Placement)
- 5.0 Secondary Geocomposite – CQA observed ESI deploying secondary geocomposite on the Cell 9 slope and floor. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- In addition, CQA observed ESI flipping back over the geocomposite on the Cell 9 floor that had been flipped over due to UV exposure in Report 5-16-132. After the geocomposite was realigned, CQA observed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- After the geocomposite was deployed, CQA observed TWS spreading secondary drainage gravel from Cell 8 over the top of the secondary geocomposite in Cell 9 as per design drawings. After CQA verified that the tie-in was built as per design drawings, the rock was encapsulated in a 16 oz. geotextile
- The CQA surveyor was on-site to conduct the secondary geomembrane seam survey.
- 6.0 Primary Drainage Gravel – TWS continued to place Type A gravel in Cells 9. TWS utilized two (2) CAT D6 LGP dozers to spread the haul road gravel across Cell 9 in a 1-ft high lift. The gravel was compacted and track-walked concurrently with spreading operations. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.
- 7.0 Leachate Transmission Pipe – CQA observed TWS excavating the leachate transmission trench between MH-36 and MH-37. The trench was excavated with a CAT 325 excavator aided by two (2) payhauler trucks.


ENVIROTECH – CQA

8/26/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-140
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear: Hi: 90°F Lo: 54°F Wind: 20-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 52-54	Tyler Williams Book 3	Pages: 28-29
Lucas Hay Book 2	Pages: 117-120	James Schut Book 2	Page: 2-3

FIELD TESTING

Submittal 5-18B Tank #3 Ringwall Backfill	Lifts: 1-3	T3-05 to T3-10	Passed
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CQA HOLD POINTS

Submittal 5-18R-086 Cell 9 Primary Subgrade	August 24, 2010	Panels: P-43 to P-50
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LABORATORY TESTING

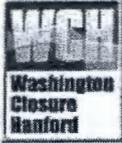
5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Weekly Progress Meeting – CQA attended the construction subcontractor’s weekly progress meeting on Tuesday, August 24, 2010 at 10:00 am. in the meeting trailer.
- 2.0 CQA Weekly Progress Meeting – CQA attended the CQA subcontractor’s weekly progress meeting on Tuesday, August 24, 2010 at 10:15 am in the meeting trailer.
- 3.0 EPA and DOE Visit – Owen Robertson and Dave Einan were on-site to inspect the construction project.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane – CQA continues to track the large wrinkles have developed on the secondary geomembrane on the north berm of Cell 9 between panels S-58 and S-59. CQA has notified ESI that the wrinkles will need to be removed prior to placement of geocomposite.
- 2.0 Secondary Geocomposite – CQA observed ESI joining the geocomposite rolls deployed yesterday, Monday, August 23, 2010. After the geocomposite was joined, CQA observed TWS spreading secondary drainage gravel from Cell 8 over the top of the secondary geocomposite in Cell 9 as per design drawings. After CQA verified that the tie-in was built as per design drawings, the rock was encapsulated in a 16 oz. geotextile.

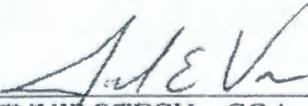


CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-140
Job Number:	S013213A00	Staff On-site	Date: Tuesday, August 24, 2010
Contractor(s):	TradeWind Services	4	Weather: Clear: Hi: 90°F Lo: 54°F Wind: 20-mph

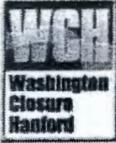
CONSTRUCTION ACTIVITIES

- 3.0 Primary Geomembrane – CQA observed ESI deploying eight (8) panels of 60 mil primary geomembrane on the north slope and floor of Cell 9. The panels were deployed north to south from the Cell 8/9 tie-in east toward the Cell 9 riser trench. A rub sheet was placed over the secondary geocomposite. The panels were deployed from the top of the north berm and walked down the slope by the laborers. A track bobcat was used to pull the panels across the cell floor and butt the ends of the panels next to the previously deployed primary geomembrane.
- After the panels were deployed, CQA observed ESI utilizing three (3) double wedge welders to weld all panels together.
- 4.0 Primary Drainage Gravel – TWS continued to place Type A gravel in Cells 9. TWS utilized two (2) CAT D6 LGP dozers to spread the haul road gravel across Cell 9 in a 1-ft high lift. The gravel was compacted and track-walked concurrently with spreading operations. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies. At the end of the day, drainage gravel had been placed over the entire CQA approved area for primary gravel placement.
- 5.0 Leachate Transmission Pipe – CQA observed TWS excavating the leachate transmission trench between MH-36 and MH-37. The trench was excavated with a CAT 325 excavator aided by two (2) payhauler trucks. After the trench was completed, BMWC placed the 16x10-in double containment pipe in the trench. BMWC filled the inner pipe with water in preparation for testing on Wednesday, August 25, 2010.
- 6.0 Tank #3 – CQA observed TWS placing three (3) lifts of backfill around the Tank #3 ringwall. TWS utilized the CAT 312 excavator to place soil in 6-in lifts around the ringwall, and a water truck to moisture condition the fill. CQA witnessed TWS utilizing two (2) jumping jack hand compactors to compact the backfill next to the ringwall. CQA tested and verified that lifts 1-3 met compaction specifications.


 ENVIROTECH – CQA

8/30/10
 DATE

PAGE 2 OF 2



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-141	
Job Number:	S013213A00	Staff On-site	Date:	Wednesday, August 25, 2010
Contractor(s):	TradeWind Services	3	Weather:	Clear: Hi: 97°F Lo: 58°F Wind: 13-mph

FIELD NOTEBOOKS

Lucas Hay Book 2	Pages: 121-122	Tyler Williams Book 3	Pages: 30-32
James Schut Book 2	Pages: 4-5		

FIELD TESTING

Submittal 5-18B Tank #3 Ringwall Backfill	Lifts: 4-6	T3-11 to T3-16	Passed
Submittal 5-18B Tank #3 Leachate Transmission MH-36 to MH-37	Lift: 1	LT-173 to LT-175	Passed

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 DOE Oversight – Harry Moomey, DOE CQA Oversight, was on-site to observe the GPR activities on the Cell 9 primary drainage gravel.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane – CQA witnessed ESI cutting panels S-57, S-58, and S-59 on the north berm. ESI pulled the large wrinkles out of the panels, then patched, repaired, and tested all three panels. CQA verified that the wrinkles had been removed between Cell 9 panels S-58 and S-59.
- 2.0 Secondary Geocomposite – CQA observed ESI deploying twenty-two (22) rolls of geocomposite on the north slope and floor of Cell 9. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- 3.0 Primary Geomembrane – CQA observed ESI conducting non-destructive pressure testing and pulling destructive tests on the secondary geomembrane deployed yesterday, Tuesday, August 24, 2010.
- 4.0 Primary Drainage Gravel – CQA witnessed WCH utilizing ground penetrating radar (GPR) to determine if any rutting occurred during gravel placement in Cell 9. The GPR crew concentrated the testing effort on the three (3) haul roads into Cell 9, the southwest, west, and northwest haul roads as defined in earlier reports.



CQA DAILY CONSTRUCTION REPORT

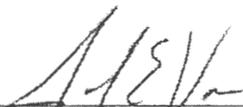
Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-141
Job Number:	S013213A00	Staff On-site	Date: Wednesday, August 25, 2010
Contractor(s):	TradeWind Services	3	Weather: Clear: Hi: 97°F Lo: 58°F Wind: 13-mph

CONSTRUCTION ACTIVITIES

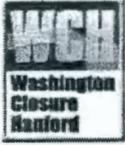
5.0 Leachate Transmission Pipe - CQA observed BMWC conducting hydraulic pressure testing on the inner 10-in pipe between MH-36 and MH-37. CQA verified that the results met construction specifications. After the inner pipe passed testing, CQA observed BMWC conducting pneumatic testing on the outer 16-in pipe between MH-36 and MH-37. CQA witnessed that all joints were snoopied and that pressure testing met construction specifications.

After pressure testing was completed, CQA observed TWS backfilling the pipe between MH-36 and MH-37. CQA observed TWS placing and compacting one (1) lift of soil over the pipeline with the CAT 330 excavator. Lift 1 was placed 12-in over the top of the pipe and compacted with a CAT 312 excavator with attached hoe-pack. CQA tested and verified that lift 1 of the utility backfill met construction specifications.

6.0 Tank #3 - CQA observed TWS placing three (3) lifts of backfill around the Tank #3 ringwall. TWS utilized the CAT 312 excavator to place soil in 6-in lifts around the ringwall, and a water truck to moisture condition the fill. CQA witnessed TWS utilizing two (2) jumping jack hand compactors to compact the backfill next to the ringwall. CQA tested and verified that lifts 4-6 met compaction specifications.


ENVIROTECH - CQA

8/27/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-142
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Pt. Cloudy: Hi: 94°F Lo: 53°F Wind: 44-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 55-56	Tyler Williams Book 3	Pages: 33-34
Lucas Hay Book 2	Pages: 123-125		

FIELD TESTING

Submittal 5-18B Tank #3 Leachate Transmission MH-36 to MH-37	Lift: 2-6	LT-176 to LT-185	Passed
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LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 High Wind – Due to high winds in the afternoon, no geomembrane deployment was allowed. During the afternoon, high winds picked up and twisted the secondary geocomposite on the north slope of Cell 10. The geocomposite was inspected by CQA and rejoined and re-sewn to the in-place secondary geocomposite.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane – CQA surveyor, Stratton Surveying, was on-site to conduct the seam survey on the secondary panels and repairs on the east side of Cell 10 and in the location of the wrinkle repair in Cell 9.

Prior to geocomposite deployment, CQA observed ESI performing vacuum testing on the secondary geomembrane in Cell 9
- 2.0 Secondary Geocomposite – CQA observed ESI deploying twenty-two (22) rolls of geocomposite on the north slope and floor of Cell 9. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- 3.0 Primary Geomembrane – CQA surveyor, Stratton Surveying, was on-site to conduct the seam survey on the primary panels and repairs on the west side of Cell 9.
- 4.0 Primary Drainage Gravel – The CQA surveyor, Stratton Survey, was on-site to verify the thickness of the primary drainage gravel in Cell 9.
- 5.0 Leachate Transmission Pipe – CQA observed TWS backfilling the pipe between MH-36 and MH-37. CQA observed TWS placing and compacting five (5) lifts of soil over the pipeline with the CAT 330 excavator. The backfill was moisture conditioned with a water truck and compacted with a CAT 312 excavator with attached hoe-pack. CQA tested and verified that lifts 2-6 of the utility backfill met construction specifications.

ENVIROTECH – CQA

8/27/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	S-16-143
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Cloudy: Hi: 77°F Lo: 52°F Wind: 23-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 57-58	Tyler Williams Book 3	Pages: 35-37
Lucas Hay Book 2	Page: 126		

CQA HOLD POINTS

Submittal 5-18R-087 Cell 10 Admix	August 27, 2010	Parcls. S-85 to S-117
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LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

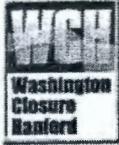
- 1.0 TWS Construction Activities - TWS performed no construction activities.
- 2.0 Secondary Geomembrane Subgrade - A portion of the secondary geomembrane subgrade was unacceptable for geomembrane deployment. ESI chose to deploy secondary geomembrane over this section to protect the underlying admix surface over the weekend. At a future date, ESI will cut and remove panels S-114 and S-116, and TWS shall finish the surface prior to CQA subgrade approval.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane - ESI deployed seventeen (17) panels of secondary geomembrane in Cell 10 south of the Cell 10 sump. The panels were deployed west to east, perpendicular to the deployed panels on the north slope and floor. After the panels were deployed, CQA observed ESI utilizing three (3) double wedge welders to fusion weld the panels together.

ENVIROTECH - CQA

8/30/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-144
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Monday, August 30, 2010 Cloudy: Hi: 77°F Lo: 52°F Wind: 23-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 59-60	Tyler Williams Book 3	Pages: 38-40
Lucas Hay Book 2	Pages: 127-130		

FIELD TESTING

Submittal 5-18B Leachate Transmission MH-36 to MH-37	Lift: 7-11	LT-186 to LT-195	Passed
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LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Lysimeter Pipe – CQA met with Bill Melvin, WCH project lead, Randy Story, superintendent for ESI, and Nick, TWS liaison with ESI, about the lysimeter pipe in Cell 10. The pipe is daylighting in the bottom of the anchor trench floor, making the pipe boot difficult to install. Reviewing the design, CQA and WCH concluded that a pipe boot was not necessary in the anchor trench for the Cell 10 lysimeter pipe. CQA shall discuss with WCH engineering tomorrow.
- 2.0 Geotextile Exposure – WCH has transmitted an SDDR to TWS indicating that the geotextile has a 28 day exposure window. WCH shall transmit the change to Envirotech at a later date.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geocomposite – ESI deployed twenty-two (22) panels of secondary geocomposite over the north berm and north floor of Cell 9. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- 2.0 Primary Geomembrane – CQA observed ESI welding repairs and performing nondestructive testing on the primary geomembrane in Cell 9.
- 3.0 Leachate Transmission Pipe – CQA witnessed BMWC filling and pressuring the entire length of the inner 10-in leachate containment pipe between MH-9 and MH-33 with water in preparation for testing tomorrow, August 31st, 2010.

In addition, CQA observed TWS backfilling the pipe between MH-36 and MH-37. CQA observed TWS placing and compacting five (5) lifts of soil over the pipeline with the CAT 988 front end loader and CAT D4 dozer. The backfill was moisture conditioned with a water truck and compacted with a CAT CS 563 smooth drum roller. CQA tested and verified that lifts 7-11 of the utility backfill met construction specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-145
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Overcast: Hi: 68°F Lo: 49°F Wind: 22-mph Showers: 0.06-in

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 61-62	Tyler Williams Book 3	Pages: 41-42
Lucas Hay Book 2	Pages: 131-132		

FIELD TESTING

Submittal 5-18B Leachate Transmission MH-36 to MH-37	Lift: 12-13	LT-196 to LT-199	Passed
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LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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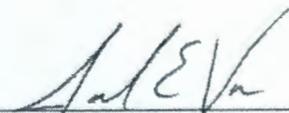
GENERAL ACTIVITIES

- 1.0 Lysimeter Pipe – CQA met with Bill Melvin, WCH project lead, and Tim Wintel, WCH Project Engineer, about the lysimeter pipe in Cell 10 discussed in Monday, August 30, 2010. The pipe is daylighting in the bottom of the anchor trench floor, making the pipe boot difficult to install. Reviewing the design, CQA and WCH concluded that a pipe boot was not necessary in the anchor trench for the Cell 10 lysimeter pipe. A design change notice is required to allow no boot on the lysimeter pipe. Tim has agreed to initiate the design change.
- 2.0 Secondary Riser Pipes – CQA met with Bill Melvin, WCH project lead, and Tim Wintel, WCH Project Engineer about the secondary riser pipe penetrations. Randy Story, ESI superintendent, has suggested that the pipe boots be welded and not clamped. CQA and WCH agreed with his recommendation, and a design change is required to modify the boot detail. Tim has agreed to initiate the design change.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geocomposite – ESI deployed eighteen (18) panels of secondary geocomposite over the north berm and north floor of Cell 10. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- 2.0 Primary Geomembrane – CQA observed ESI performing nondestructive testing on the primary geomembrane in Cell 9.
- 3.0 Leachate Transmission Pipe – CQA witnessed BMWC hydrostatically testing the entire length of the inner 10-in leachate containment pipe between MH-9 and MH-33. CQA verified that the 10-in pipe met testing requirements

In addition, CQA observed TWS backfilling the pipe between MH-36 and MH-37. CQA observed TWS placing and compacting two (2) lifts of soil over the pipeline with the CAT 988 front end loader and CAT D4 dozer. The backfill was moisture conditioned with a water truck and compacted with a CAT CS 563 smooth drum roller. CQA tested and verified that lifts 12-13 of the utility backfill met construction specifications.


ENVIROTECH – CQA

9/1/10
DATE

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-146
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Overcast: Hi: 81°F Lo: 57°F Wind: 24-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 63-64	Tyler Williams Book 3	Pages: 43-44
James Schut Book 2	Pages: 6-7		

FIELD TESTING

Submittal 5-18B Leachate Transmission MH-36 to MH-37	Lift: 14-16	LT-200 to LT-205	Passed
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LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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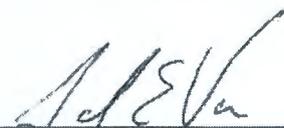
GENERAL ACTIVITIES

1.0 Storm water – Storm water collected in the Cell 9 and 10 sumps and in the access road across Cell 10. TWS removed the storm water from the Cell 10 sump.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geocomposite – ESI deployed nineteen (19) panels of secondary geocomposite over the north berm and north floor of Cell 10. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams. In addition, CQA observed ESI leistering the secondary geotextile in the Cell 9 sump to the neighboring geocomposite panel.
- 2.0 Secondary Geomembrane – CQA observed ESI repairing the geomembrane and performing nondestructive testing on the primary geomembrane in Cell 10.
- 3.0 Primary Geomembrane – CQA observed ESI repairing the geomembrane and performing nondestructive testing on the primary geomembrane in Cell 9.
- 4.0 Leachate Transmission Pipe – CQA observed TWS backfilling the pipe between MH-36 and MH-37. CQA observed TWS placing and compacting one (1) lift of soil over the pipeline with the CAT 988 front end loader and CAT D4 dozer. The backfill was moisture conditioned with a water truck and compacted with a CAT CS 563 smooth drum roller.

CQA also observed TWS placing and compacting a base/top course blended gravel material over the entrance ramp that was disturbed during the installation of MH-36 and MH-37. The gravel was placed in two (2) lifts with a CAT 988 loader, spread with a road grader, and compacted with a CAT 563 smooth drum compactor. The CQA tested and verified that lifts 14-16 of the utility backfill and base/top course met construction specifications.
- 5.0 Tank #1 – TWS began demolition of Tank #1 north of Cells 1 and 2.


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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-147
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Pt. Cloudy: Hi: 85°F Lo: 51°F Wind: 18-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 65-66	Tyler Williams Book 3	Pages: 45-46
James Schur Book 2	Pages: 8-9		

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

1.0 Cell 9 Secondary Sump Repair – TWS pumped the storm water from the Tuesday rain event from the Cell 9 secondary sump to the Cell 10 secondary sump. After the water level had been sufficiently reduced, CQA witnessed storm water under the secondary geomembrane on the north side of the Cell10 sump. CQA and ESI began investigating the source of the storm water introduction using hand shovels to remove the secondary drainage gravel.

A hole in the secondary geomembrane appears to be the most likely cause of the storm water introduction. A significant amount of storm water was introduced under the secondary geomembrane; therefore, the size of the hole must be significant. By the end of the day, the hole in the liner was not found.

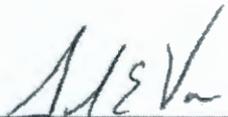
CONSTRUCTION ACTIVITIES

1.0 Secondary Geocomposite – ESI deployed twenty-two (22) panels of secondary geocomposite over the north berm and north floor of Cell 10. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.

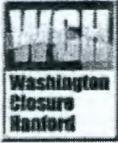
2.0 Secondary Geomembrane – CQA observed ESI repairing the geomembrane and performing nondestructive testing on the secondary geomembrane in Cell 10.

In addition, Stratton Surveying, the CQA surveyors, were on-site to conduct the secondary seam survey.

3.0 Tank #1 – TWS continued demolition of Tank #1 north of Cells 1 and 2.


ENVIROTECH – CQA

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-148
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Pt. Cloudy: Hi: 89°F Lo: 59°F Wind: 26-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 67-69	Tyler Williams Book 3	Pages: 47-50
James Schut Book 2	Pages: 10-11		

CQA HOLD POINTS

Submittal 5-18R-088 Cell 9 Primary Subgrade	September, 3, 2010	Panels: P-51 to P-56
Submittal 5-18R-089 Cell 10 Admix Surface	September, 3, 2010	Panels: S-118

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

1.0 Cell 9 Secondary Sump Repair – TWS, ESI, and CQA continued the investigation in the Cell 9 sump. TWS removed the overbearing secondary drainage gravel from the toe and crotch of the Cell 9 sump with a CAT 303 rubber-track excavator. ESI peeled back the secondary geocomposite to expose the underlying secondary geomembrane. The investigation discovered a hole in the secondary geomembrane at the northwest shoulder of the sump. The hole was a circular hole approximately 3-in. in diameter that was cut during the first sump repair to evaluate the admix underneath the secondary geomembrane. During the first repair, the hole was covered with geocomposite prior to beginning repairs and was not logged.

After the hole was discovered, a release hole was cut at the rock line in the Cell 9 riser trench to release the trapped water. The water was walked to the release hole and pumped out. The hole was propped open and the admix underneath was allowed to dry. CQA evaluated the admix in the locations of the ponded water and the release hole; CQA determined that the admix met the stability requirements in the construction specifications.

ESI patched, welded, and non-destructively testing both holes in the secondary geomembrane. CQA verified that the secondary geocomposite and geotextile were placed and joined over the secondary geomembrane as per construction specifications. TWS utilized the rubber tracked CAT 303 excavator to replace the drainage gravel in the Cell 9 sump.

Following the repair, CQA initiated a non-conformance report, NCR-01. NCR-01 triggered a corrective action, which included a conference call with the CQA officer, Rob Stallings. CQA met internally and completed the corrective action associated with NCR-01.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-148
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Pt. Cloudy: Hi: 89°F Lo: 59°F Wind: 26-mph

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane – CQA observed ESI repairing the geomembrane and performing nondestructive testing on the secondary geomembrane in Cell 10. Part of the repairs included removing 264-ft of weld S-4/S-5 on the floor of Cell 10. The weld was cut out, and secondary panel S-118 was placed in between the panels. Panels S-4 and S-5 were double wedge welded to either side of panel S-118.

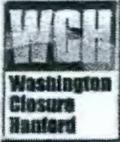
- 2.0 Primary Geomembrane – CQA observed ESI deploying six (6) panels of primary geomembrane in Cell 9. ESI deployed panels P-51 to P-56 on the north slope and floor of Cell 9 east of the Cell 9 sump. A rub sheet was placed over the secondary geocomposite, and the panels were deployed from the top of the north berm and walked down the slope by the laborers. A track bobcat was used to pull the panels across the cell floor and butt the ends of the panels next to the previously deployed primary geomembrane.

After the panels were deployed, CQA observed ESI utilizing two (2) double wedge welders to weld all panels together.

- 3.0 Tank #1 – TWS continued demolition of Tank #1 north of Cells 1 and 2.

MEV
 ENVIROTECH – CQA

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-149
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Overcast: Hi: 71°F Lo: 56°F Wind: 15-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Page: 70	Tyler Williams Book 3	Pages: 51-52
James Schut Book 2	Page: 12-13		

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Storm water – Although the weather station recorded no precipitation, heavy rain showers halted work on-site. Standing water on the composite and geomembrane suspended all geomembrane placement activities. No geomembrane was placed.
- 2.0 Weekly Progress Meeting – CQA attended the construction subcontractor's weekly progress meeting on Tuesday, September 7th, 2010 at 10:00 am, in the meeting trailer.
- 3.0 CQA Weekly Progress Meeting – CQA attended the CQA subcontractor's weekly progress meeting on Tuesday, September 7th, 2010 at 10:15 am in the meeting trailer.
- 4.0 Cell 9 Secondary Sump Repair – TWS completed replacement and grading of the secondary drainage gravel in the Cell 9 sump with the CAT 303 rubber track excavator aided by the TWS surveyor. Stratton Surveying was on-site to as-built the secondary drainage gravel. CQA has verified that the Cell 9 sump has been constructed as per contract specifications. This completes the Cell 9 secondary sump repair.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane – Stratton Surveying was on-site to conduct the secondary seam survey in Cell 10.
- 2.0 Secondary Geocomposite – ESI deployed three (3) panels of secondary geocomposite in the Cell 9 sump. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications.
- 3.0 Primary Geomembrane – Stratton Surveying was on-site to conduct the primary seam survey in Cell 9.
- 4.0 Tank #1 – TWS continued demolition of Tank #1 north of Cells 1 and 2.

ENVIROTECH - CQA

9/7/10
DATE

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-150
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Overcast: Hi: 73°F Lo: 56°F Wind: 17-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Page: 71-73	Tyler Williams Book 3	Pages: 53-55
James Schut Book 2	Page: 14-16		

CQA HOLD POINTS

Submittal 5-18R-090 Cell 9 Primary Subgrade	September, 8, 2010	Panels: P-57 to P-58
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LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Storm water - Light showers occurred during morning hours. I believe the weather station is no longer recording precipitation, I parked by the tower while it rained, yet no precipitation recorded. TWS continued pumping the Cell 9 sump into the Cell 10 sump. After the Cell 9 Sump was completed, TWS pumped the Cell 10 secondary sump storm water past the east termination of Cell 10. Geomembrane deployment/welding was suspended several times during the day due to weather conditions.
- 2.0 Plan of Tomorrow Meeting - CQA attended the plan of tomorrow meeting. Dave Sterly, TWS QC; Bill Melvin, WCH project lead; Tim Wintel, WCH Engineer; Charlie Skiba, WCH CQA STR; Jake Howard, WCH Construction STR, and Mike Webb, WCH QA, were all in attendance. Collectively, we discussed the Cell 9 sump issues and corrective actions resulting from the Non-Conformance Reports authored independently by TWS and CQA. The corrective actions following the two (2) NCRs include a procedural change in how CQA documents liner repairs and a procedural change to conducting repairs on geomembrane that has overbearing materials. The CQA Corrective Action Report will provide further details.

The CQA Engineer met with the CQA field personnel to discuss the corrective actions and the procedural changes resulting from the Corrective Action Report that was triggered by 5-19-01 NCR-01.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane - CQA witnessed ESI performing vacuum testing the secondary repairs on the secondary geomembrane on the north side of Cell 10.

CQA observed ESI completing the repairs on panel S-118 welded on Friday, September 3rd, 2010.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-150
Job Number:	S013213A00	Staff On-site:	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Overcast: Hi: 73°F Lo: 56°F Wind: 17-mph

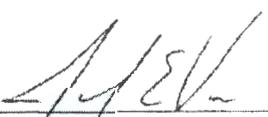
CONSTRUCTION ACTIVITIES

- 2.0 Secondary Geocomposite – ESI deployed fifteen (15) panels of secondary geocomposite over the north berm and north floor of Cell 10. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams. In addition, CQA observed ESI leistering the secondary geotextile in the Cell 9 sump to the neighboring geocomposite panel.
- 3.0 Cell 9 Secondary Sump – CQA observed ESI deploying 16 oz. geotextile over the secondary drainage gravel in the Cell 9 sump. All panels were double wedge welded together and leistered to the secondary geocomposite.
- 4.0 Primary Geomembrane – CQA observed ESI performing non-destructive pressure testing on Cell 9 primary panels P-51 to P-56.

CQA also observed ESI deploying two (2) panels of primary geomembrane in Cell 9. ESI deployed panels P-57 to P-58 on the north slope and floor of Cell 9 directly east of the Cell 9 sump, next to panel P-51. A rub sheet was placed over the secondary geocomposite, and the panels were deployed from the top of the north berm and walked down the slope by the laborers. A track bobcat was used to pull the panels across the cell floor and butt the ends of the panels next to the previously deployed primary geomembrane.

After the panels were deployed, CQA observed ESI utilizing two (2) double wedge welders to weld all panels together.

- 5.0 Tank #1 – TWS continued demolition of Tank #1 north of Cells 1 and 2.


ENVIROTECH – CQA

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DATE

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-151
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Overcast: Hi: 76°F Lo: 56°F Wind: 29-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 74-77	Tyler Williams Book 3	Pages: 56-59
James Schut Book 2	Pages: 17-19	Luke Hay Book 2	Pages: 134-136

CQA HOLD POINTS

Submittal 5-18R-091 Cell 9 Primary Subgrade	September, 9, 2010	Panels: P-59 to P-61
Submittal 5-18R-092 Cell 10 Primary Subgrade	September, 9, 2010	Panels: P-11 to P-12

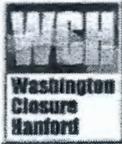
LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Storm water – Storm water collected in the Cell 9 sump overnight, leaving water 2-3 inches above the secondary drainage gravel. CQA and TWS inspected the Cell 9 and Cell 10 sump. no infiltration of storm water under the secondary geomembrane occurred. However, the weather station did not record any precipitation data.
- 2.0 Geocomposite Deployment – Following comments by Jack Howard, WCH Construction STR, CQA modified the procedure for geocomposite joining inspection. From this point forward, no geotextile will be sewn or leistered over geocomposite joints until CQA paints a green approval dot on the overlap.
- 3.0 CQA/CQC Geomembrane Repair Log Verification – A TWS representative conducted a verification of both ESI and CQA geomembrane repair logs. He verified that all the repair locations on the south half of the Cell 10 secondary geomembrane were captured in the repair log entries. The TWS representative discovered no inconsistencies between the repairs and entries in either repair log.
- 4.0 Plan of Tomorrow Meeting – CQA attended the plan of tomorrow meeting. Dave Sterly, TWS QC; Bill Melvin, WCH project lead; Tim Wintel, WCH Engineer; Charlie Skiba, WCH CQA STR; Jake Howard, WCH Construction STR; Brian Covert; Project Director of Waste Operations; Robert Carter, WCH QA Manager; and Mike Webb, WCH QA, were all in attendance. Collectively, we discussed the Cell 9 sump issues and corrective actions resulting from the Non-Conformance Reports authored independently by TWS and CQA. See the CQA Corrective Action Report for further details on the CQA corrective actions.

Following the meeting the CQA Engineer met again with the CQA field personnel to discuss the corrective actions and the procedural changes resulting from the Corrective Action Report that was triggered by 5-19-01 NCR-01.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-151
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Overcast: Hi: 76°F Lo: 56°F Wind: 29-mph

GENERAL ACTIVITIES

5.0 WCH Geomembrane Deployment Verification – Following the plan of tomorrow meeting, Mike Webb with WCH QA also performed a geomembrane repair log verification. While Mike Webb also noted no inconsistencies in the repair log entries, he did discover a soft patch of admix in the Cell 9 floor.

The soft patch is due to rain water infiltration under a leistered patch on September 3rd, 2010. The leistered patch was extrusion welded September 8th, 2010. While the admix under the leistered patch met admix stability, the water had pooled at low point in the liner approximately 30-ft away. Due to the threat of additional rain, the location was left sealed: ESI shall repair this location at a later date.

CONSTRUCTION ACTIVITIES

1.0 Secondary Geomembrane – CQA witnessed ESI performing vacuum testing the secondary repairs on the secondary geomembrane on the north side of Cell 10.

Stratton Surveying was on-site to perform the secondary seam survey in Cell 10.

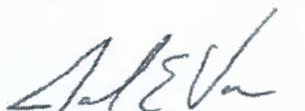
2.0 Secondary Geocomposite – ESI deployed twenty-four (24) panels of secondary geocomposite over the north berm and north floor of Cell 10. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams. In addition, CQA observed ESI leistering the secondary geotextile in the Cell 9 sump to the neighboring geocomposite panel.

3.0 Primary Geomembrane – CQA observed ESI deploying three (3) panels of primary geomembrane in Cell 9. ESI deployed panels P-59 to P-61 on the north slope and floor of Cell 9 from panel S-56 to the Cell 9/10 crest. A rub sheet was placed over the secondary geocomposite, and the panels were deployed from the top of the north berm and walked down the slope by the laborers. A track bobcat was used to pull the panels across the cell floor and butt the ends of the panels next to the previously deployed primary geomembrane. After the panels were deployed, CQA observed ESI utilizing three (3) double wedge welders to weld all panels together.

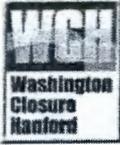
CQA also observed ESI deploying two (2) panels of primary geomembrane in Cell 9. ESI deployed panels P-59 to P-63 on the north slope and floor of Cell 9 from panel S-56 to the Cell 9/10 crest. A rub sheet was placed over the secondary geocomposite, and the panels were deployed from the top of the north berm and walked down the slope by the laborers. A track bobcat was used to pull the panels across the cell floor and butt the ends of the panels next to the previously deployed primary geomembrane. After the panels were deployed, CQA observed ESI utilizing three (3) double wedge welders to weld all panels together.

Stratton Surveying was on-site to perform the secondary seam survey in Cell 10.

4.0 Tank #1 – TWS completed demolition of Tank #1 north of Cells 1 and 2. WCH utilized ground penetrating radar to locate the pipes underground in the area of Tank #1.


ENVIROTECH – CQA

9/10/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-152
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Pt. Cloudy: Hi: 76°F Lo: 48°F Wind: 26-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 78-80	Luke Hay Book 2	Pages: 137-139
James Schut Book 2	Pages: 20-22		

CQA HOLD POINTS

Submittal 5-18R-093 Cell 9 Primary Subgrade	September, 10, 2010	Panels: P-62 to P-67
Submittal 5-18R-094 Cell 10 Primary Subgrade	September, 10, 2010	Panels: P-13 to P-18

LABORATORY TESTING

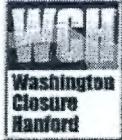
5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair - CQA continues to track the soft patch located yesterday under the Cell 10 secondary geomembrane resulting from rainwater infiltrating under a leistered patch. A second soft area was found in the center section of Cell 10, which also resulted from an exposed leistered patch. ESI did not repair either area; CQA shall continue to track the repairs.
- 2.0 EPA Visit - Dave Einan with EPA was on-site to verify the Cell 10 sump repair and ensure that no other holes in the secondary geomembrane existed.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane - CQA witnessed ESI performing vacuum testing on the secondary repairs on the secondary geomembrane on the north side of Cell 10.
- 2.0 Secondary Geocomposite - CQA witnessed ESI joining the geocomposite that was deployed on September 9, 2010. The geocomposite was joined together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-152
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Pt. Cloudy: Hi: 76°F Lo: 48°F Wind: 26-mph

CONSTRUCTION ACTIVITIES

3.0 Primary Geomembrane – CQA observed ESI deploying six (6) panels of primary geomembrane in Cell 9. ESI deployed panels P-62 to P-67 on the north slope and floor of Cell 9 through the Cell 9 riser trench and sump. A rub sheet was placed over the secondary geocomposite, and the panels were deployed from the top of the north berm and walked down the slope by the laborers. A track bobcat was used to pull the panels across the cell floor and butt the ends of the panels next to the previously deployed primary geomembrane. After the panels were deployed, CQA observed ESI utilizing three (3) double wedge welders to weld all panels together.

CQA also observed ESI deploying six (6) panels of primary geomembrane in Cell 10. ESI deployed panels P-13 to P-18 on the north slope and floor of Cell 10 from panel P-12 to just west of the Cell 10 sump. A rub sheet was placed over the secondary geocomposite, and the panels were deployed from the top of the north berm and walked down the slope by the laborers. A track bobcat was used to pull the panels across the cell floor and butt the ends of the panels next to the previously deployed primary geomembrane. After the panels were deployed, CQA observed ESI utilizing three (3) double wedge welders to weld all panels together.


 ENVIROTECH – CQA

9/13/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-153
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Clear: Hi: 84°F Lo: 51°F Wind: 17-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 81-82	Luke Hay Book 2	Pages: 140-142
James Schut Book 2	Pages: 23-24		

LABORATORY TESTING

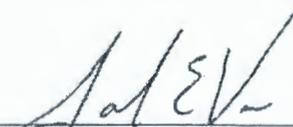
5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

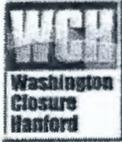
- 1.0 Secondary Geomembrane Repair – The soft patch in the center of the Cell 10 floor healed itself over the weekend. CQA and CQC inspection found that the water had been absorbed and distributed through the admix material resulting in a firm and stable surface. The soft patch on the north half of Cell 10 near secondary geomembrane panel S-118 has shrunk in size but still remains unacceptable. CQA continues to track the soft patch located near panel S-118 in Cell 10.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane – CQA witnessed ESI performing vacuum testing on the secondary repairs on the secondary geomembrane on the north side of Cell 10.
- 2.0 Secondary Geocomposite – ESI deployed twenty (20) panels of secondary geocomposite over the north berm and north floor of Cell 10. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams. In addition, CQA observed ESI leistering the secondary geotextile in the Cell 9 sump to the neighboring geocomposite panel.
- 3.0 Secondary Riser Trench – CQA observed ESI removing the blow sand from the Cell 10 secondary riser trench that had accumulated due to windblown dust. The sand was placed into sand bags and used to anchor the deployed primary geomembrane in Cell 10.
- 4.0 Secondary Geotextile – CQA observed ESI deploying and sewing the 16 oz. geotextile over the Type B drainage gravel in the Cell 10 sump. The geotextile was leistered to the geocomposite on the slope and floor of Cell 10.
- 5.0 Primary Geomembrane – CQA observed ESI pulling destructive tests on the primary geomembrane in Cell 9. CQA also witnessed ESI conducting repairs on the primary geomembrane on the north half of Cell 9. After the repairs were completed CQA witnessed ESI performing vacuum testing on the repairs.
- 6.0 Tank 4 – CQA observed TWS preparing the subgrade of the Tank 4 foundation. In addition, TWS began excavating the pipe trenches for the leachate transmission line for Tank 4.


 ENVIROTECH – CQA

9/14/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-154
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Clear: Hi: 85°F Lo: 53°F Wind: 17-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 83-85	Luke Hay Book 2	Pages: 143-145
James Schut Book 2	Pages: 25-27	Ryan Swenson Book 1	Page: 42

FIELD TESTING

Submittal 5-18B Tank 4	Lifts: Subgrade, 1 - 4	T4-01 to T4-05	Passed
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CQA HOLD POINTS

Submittal 5-18R-095 Cell 10 Primary Subgrade	September, 14, 2010	Panels: P-19 to P-27
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LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair – The soft patch on the north half of Cell 10 remains. CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.
- 2.0 Weekly Progress Meeting – CQA attended the construction subcontractor's weekly progress meeting on Tuesday, September 14th, 2010 at 10:00 am. in the meeting trailer.
- 3.0 CQA Weekly Progress Meeting – CQA attended the CQA subcontractor's weekly progress meeting on Tuesday, September 14th, 2010 at 10:15 am in the meeting trailer.
- 4.0 Cell 9 Sump Repair Presentation – Bill Melvin, WCH lead, presented the Cell 9 sump repairs to DOE and EPA representatives at 10:30 am in the meeting trailer.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane – The CQA surveyors were on-site to capture all the as-built the repairs on the secondary geomembrane in both Cells 9 and 10.
- 2.0 Secondary Geocomposite – ESI deployed nine (9) panels of secondary geocomposite on the north-center section of Cell 10. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined. CQA observed ESI sewing the flaps together and leistering patches over the butt seams.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-154
Job Number:	S013213A00	Staff On-site	Date: Tuesday, September 14, 2010
Contractor(s):	TradeWind Services	6	Weather: Clear; Hi: 85°F Lo: 53°F Wind: 17-mph

CONSTRUCTION ACTIVITIES

- 3.0 Primary Geomembrane -CQA witnessed ESI conducting repairs on the primary geomembrane on the north half of Cell 9. After the repairs were completed CQA witnessed ESI performing vacuum testing on the repairs.

CQA also witnessed ESI deploying nine (9) panels of primary geomembrane in Cell 10. ESI deployed panels P-19 to P-27 on the north slope and floor of Cell 10 from panel P-18, west of the Cell 10 sump, to the east side of the Cell 10 sump. A rub sheet was placed over the secondary geocomposite, and the panels were deployed from the top of the north berm and walked down the slope by the laborers. A track bobcat was used to pull the panels across the cell floor and butt the ends of the panels next to the previously deployed primary geomembrane. After the panels were deployed, CQA observed ESI utilizing three (3) double wedge welders to weld all panels together.

- 4.0 Tank 4 - CQA observed TWS completing the excavation of the leachate transmission trenches for Tank 4. CQA tested and verified that the subgrade of Tank 4, which was compacted in Report 5-16-153, met construction specifications.

CQA also observed TWS placing four (4) lifts of fill over the south west half the Tank 4 foundation. An International Payhauler brought fill to the tank pad and a CAT D4 dozer spread the soil over the Tank 4 foundation. A CA1 563 smooth drum compactor aided by a water truck compacted the soil backfill. CQA tested and verified that the lifts 1-4 met construction specifications.

In addition, CQA witnessed BMWC welding the leachate transmission pipes near the Tank 4 foundation. After the pipe was welded, BMWS aided by TWS, placed the leachate transmission pipes into the Tank 4 leachate transmission trenches.


ENVIROTECH - CQA

9/15/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-155
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Pt. Cloudy: Hi: 82°F Lo: 52°F Wind: 39-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 86-88	Luke Hay Book 2	Pages: 146-147
James Schut Book 2	Pages: 28-29		

CQA HOLD POINTS

Submittal 5-18R-096 Cell 10 Primary Subgrade	September 15, 2010	Panels: P-28 to P-38
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LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair – The soft patch on the south half of Cell 10 remains, CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.
- 2.0 Cell 10 Termination – CQA noted that the Cell 10 termination was not being constructed as per design drawings. CQA met with TWS CQC, Dave Sterly, and ESI Superintendent, Randy Story, to discuss the construction of the Cell 10 termination. ESI had placed secondary geocomposite and primary geomembrane over the termination and 3-ft over the toe of slope.

Following the conversation, CQA observed ESI cutting back the secondary geocomposite and primary geomembrane to the dimensions provided in the design drawings. In addition, ESI cut the primary geomembrane at the toe of slope as to include the rain flap diagram as provided in the design drawings.

CQA also discussed alternatives with the WCH staff concerning the Cell 10 termination rain flap. The WCH engineer, Tim Wintel, is discussing alternatives with the engineering staff.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geocomposite – CQA witnessed ESI joining the geocomposite deployed on the floor of Cell 10 on September 14, 2010 together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-155
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	3	Weather:
			Pt. Cloudy: Hi: 82°F Lo: 52°F Wind: 39-mph

CONSTRUCTION ACTIVITIES

- 2.0 Primary Geomembrane - CQA witnessed ESI conducting extrusion repairs on the primary geomembrane in Cells 9 and 10. After the repairs were completed CQA witnessed ESI performing vacuum testing on the repairs.

CQA also witnessed ESI deploying eleven (11) panels of primary geomembrane in Cell 10. ESI deployed panels P-28 to P-38 on the north slope and floor of Cell 10 from panel P-27, east of the Cell 10 sump, to the east termination of Cell 10. A rub sheet was placed over the secondary geocomposite, and the panels were deployed from the top of the north berm and walked down the slope by the laborers. A track bobcat was used to pull the panels across the cell floor and butt the ends of the panels next to the previously deployed primary geomembrane. After the panels were deployed, CQA observed ESI utilizing three (3) double wedge welders to weld all panels together.

In addition, CQA destructive testing failed primary destructive sample DP-03 located on panel P11/P12 in Cell 10. ESI and CQA will determine the extents of the failed seam at a later date.

- 3.0 Tank 4 - CQA witnessed BMWC installing the two (2) HDPE pipes in the Tank 4. BMWC and TWS installed the 8x4-in drain line and began installation of the 16x10-in double containment inlet pipe in the foundation of Tank 4. The 2-in leachate detection pipe for Tank 4 has not arrived on-site.


ENVIROTECH - CQA

9/20/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-156
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Cloudy: Hi: 82°F Lo: 60°F Wind: 20-mph Rain

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 89-90	Luke Hay Book 2	Pages: 148-150
James Schut Book 2	Pages: 30-32		

CQA HOLD POINTS

Submittal 5-18R-097 Cell 10 Primary Subgrade	September 16, 2010	Panels: P-39 to P-48
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FIELD TESTING

Submittal 5-18B Tank 4 NE foundation	Lift: 1	T4-06	Passed
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LABORATORY TESTING

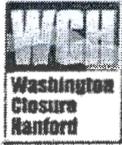
5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair – The soft patch on the orth half of Cell 10 remains. CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.
- 2.0 Storm water – Due to overnight storms, both Cell 9 and Cell 10 sumps filled with water. CQA observed TWS pumping the storm water from the Cell 9 sump to the Cell 10 sump and from the Cell 10 sump past the east termination of Cell 10. After the water was removed, CQA inspected the subgrade and verified that the subgrade met construction specifications.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geocomposite – ESI deployed one (1) panel of secondary geocomposite on the north-center section of Cell 10. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-156
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Cloudy; Hi: 82°F Lo: 60°F Wind: 20-mph Rain

CONSTRUCTION ACTIVITIES

2.0 Primary Geomembrane – CQA witnessed ESI conducting extrusion repairs on the primary geomembrane in Cells 9 and 10. After the repairs were completed CQA witnessed ESI performing vacuum testing on the repairs.

CQA also witnessed ESI deploying ten (10) panels of primary geomembrane in Cell 10. ESI deployed panels P-39 to P-48 on the floor of Cell 10 south of the deployed primary geomembrane in Cell 10. A rub sheet was placed over the secondary geocomposite, and the panels were deployed from east to west across Cell 10, from the Cell 10 termination to the Cell 9/10 tie-in. After the panels were deployed, CQA observed ESI utilizing three (3) double wedge welders to weld all panels together.

CQA and ESI determined the extents of the failing destruct DP-03 on seam P12/P13 in Cell 10. Initially, destructive testing was performed 10-ft to either side of the failing destructive test. Initial destructive testing by ESI failed, and the extents of the failed seam were expanded by 25-ft. After the ESI testing passed, CQA collected and verified that the seam met construction specifications through independent destructive testing.

Stratton Surveying as on-site to conduct the primary liner as-built of Cells 9 and 10.

3.0 Primary Geotextile – CQA witnessed ESI deploying three (3) rolls of 16 oz. primary geotextile on the floor of Cell 9 near the Cell 8 tie-in. After the panels were placed, ESI either sewed or double wedge welded the geotextile together.

4.0 Tank 4 Continued – After the 2-in HDPE leak detection pipe arrived on-site, ESI welded and installed the 2-in HDPE leak detection pipe under Tank 4. In addition, BMWC and TWS completed installation of the inlet 18x12-in double containment inlet pipe in Tank 4.

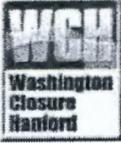
CQA also witnessed BMWC pressure testing the three (3) pipes under Tank 4. CQA observed ESI hydrostatically testing the inner 4-in drain pipe and the inner 10-in inlet pipe. CQA confirmed that all hydrostatic testing met construction specifications. CQA also observed ESI pneumatically testing the outer 8-in drain pipe and the outer 16-in inlet pipe. All pipe welds were snooded with a soap water solution, and no leaks were discovered. CQA confirmed that the double containment pneumatic testing met construction specifications. In addition, ESI pneumatically testing the 2-in leak detection pipe.

TWS also placed structural fill over the northeast half of Tank #4. The backfill was placed with a CAT 330 excavator and compacted using a CAT 312 excavator aided by a hoe-pack attachment and a water truck. CQA tested and verified that lift 1 met construction specifications.

Stratton Survey was on-site to capture the as-built design coordinates.

ENVIROTECH – CQA

9/16/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-157
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Overcast: Hi: 79°F Lo: 58°F Wind: 17-mph Rain

FIELD NOTEBOOKS

Joe Voss Book 2	Page: 91	Luke Hay Book 2	Pages: 151-152
James Schur Book 2	Pages: 33-35		

FIELD TESTING

Submittal 5-18B Tank 4 Drain Line Trench	Lifts: 1-4	T4-07 to T4-10	Passed
Submittal 5-18B Tank 4 Leak Detection Pipe Trench	Lifts: 1-3	T4-11 to T4-13	Passed
Submittal 5-18B Tank 4 Inlet Pipe Trench	Lifts: 1-5	T4-14 to T4-18	Passed

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair – The soft patch on the south half of Cell 10 remains, CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.
- 2.0 Storm water – TWS continued pumping storm water from Cell 9 and Cell 10 sumps. TWS removed all the storm water from the Cell 9 and 10 sumps, and CQA verified that the subgrade under the sumps was firm and continued to meet construction specifications.

CONSTRUCTION ACTIVITIES

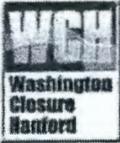
- 1.0 Primary Geomembrane – CQA witnessed ESI conducting extrusion repairs on the primary geomembrane in Cells 9 and 10. After the repairs were completed CQA witnessed ESI performing vacuum testing on the repairs.
- 2.0 Primary Geotextile – CQA witnessed ESI deploying twenty-three (23) rolls of 16 oz. primary geotextile on the floor of Cell 9 from near the Cell 8/9 tie-in, through Cell 9 and over to primary panel P14 in Cell 10. No geotextile was placed in the Cell 9 sump. ESI either sewed or double wedge welded the geotextile panels together on the floor of Cell 9 and 10.
- 3.0 Tank 4 Continued – TWS placed and compacted four (4) lifts of soil over the 8x4-in drain line, three (3) lifts of soil over the 2-in leak detection line, and five (5) lifts of soil over the 16x10-in inlet pipe. The backfill was placed with a CAT D4 dozer and compacted using a CAT 312 excavator, a CAT 563 smooth drum where able, and a jumping jack hand compactor where necessary. CQA tested and verified that lifts 1-4 over the 8x4-in drain line, lifts 1-3 over the 2-in leak detection line, and lifts 1-5 over the 16x10-in inlet pipe met construction specifications.

Stratton Survey was on-site to capture the as-built design coordinates and the Tank 4 pipes.


ENVIROTECH – CQA

9/24/10
DATE

PAGE 1 OF 1



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-158
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Overcast: Hi: 74°F Lo: 53°F Wind: 34-mph Rain: 0.19-in

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 92-93	Luke Hay Book 2	Pages: 153-154
James Schut Book 2	Pages: 36-37	Tyler Williams Book 3	Pages: 60-61

FIELD TESTING

Submittal 5-18B Tank 4 Inlet Pipe Trench	Lifts: 6-7	T4-19 to T4-20	Passed
Submittal 5-18B Tank 4 NE Foundation	Lift: 2	T4-21	Passed

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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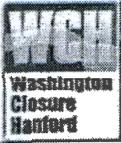
GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair – The soft patch on the south half of Cell 10 remains, CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.
- 2.0 Storm water – Rain though out the weekend caused the Cells 9 and 10 sumps to fill with storm water. TWS began pumping storm water from Cell 9 and Cell 10 sumps. CQA verified that the subgrade under the sumps was firm and continued to meet construction specifications.
- 3.0 High Winds – High winds limited geotextile placement in Cell 10.

CONSTRUCTION ACTIVITIES

- 1.0 Primary Geomembrane –CQA witnessed ESI conducting extrusion repairs on the primary geomembrane in Cell 10. After the repairs were completed CQA witnessed ESI performing vacuum testing on the repairs.

CQA failed Cell 10 destructive test DP-09 on seam P18/P19. ESI and CQA collected destructive tests on either side of the failed test in order to determine the extents of the failed seam. After the extents of the failed seam were verified by additional destructive testing, ESI capped the seam between two passing destructive tests.
- 2.0 Primary Geotextile –ESI deployed only one (1) roll of 16 oz. primary geotextile on the floor of Cell 10. Geotextile placement was halted due to high winds.
- 3.0 Primary Geocomposite –ESI deployed twenty-two (22) panels of primary geocomposite over the north slope of Cell 9. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.



CQA DAILY CONSTRUCTION REPORT

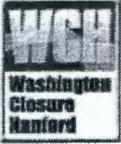
Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-158
Job Number:	S013213A00	Staff On-site	4
Contractor(s):	TradeWind Services	Date:	Monday, September 20, 2010
		Weather:	Overcast: Hi: 74°F Lo: 53°F Wind: 34-mph Rain: 0.19-in

CONSTRUCTION ACTIVITIES

- 4.0 Drainage Gravel – CQA observed TWS spreading the stockpiled excess drainage gravel in Cell 9 over the primary geotextile on the floor of Cell 9 with a CAT D6 LGP dozer.
- 5.0 Leachate Collection Pipe – CQA witnessed BMWC welding the Cell 9 primary collection pipe in the BMWC lay down area located to the east of Cell 10.
- 6.0 Tank 4 Continued – TWS placed and compacted two (2) lifts of soil over the Tank 4- 16x10-in inlet pipe and one (1) lift of soil over the northeast half of Tank 4. The backfill was placed with a CAT D4 dozer and compacted using a CAT 312 excavator, a CAT 563 smooth drum where able, and a jumping jack hand compactor where necessary. CQA tested and verified that lifts 6-7 over the 16x10-in inlet pipe and lift 2 on the northeast half of the Tank 4 foundation met construction specifications.
- 7.0 Manholes – Lids and risers for the manholes in the Tank area arrived on-site. BMWC began installing the manhole riser and lids for the manholes in the Tank area.

MEV
 ENVIROTECH – CQA

9/24/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-159
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Overcast: Hi: 72°F Lo: 51°F Wind: 20-mph Rain: 0.05-in

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 94-96	Luke Hay Book 2	Pages: 155-157
James Schut Book 2	Pages: 38-39	Tyler Williams Book 3	Pages: 62-65

FIELD TESTING

Submittal 5-18B Tank 4Ringwall	Lift: Subgrade	T4-22 to T4-23	Passed
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CQA HOLD POINTS

Submittal 5-18R-098 Cell 10 Primary Subgrade	September 21, 2010	Panels: P-49 to P-52
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LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair - The soft patch on the south half of Cell 10 remains, CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.
- 2.0 Storm water - TWS continued pumping storm water from Cell 9 and Cell 10 sumps. CQA verified that the subgrade under the sumps was firm and continued to meet construction specifications.
- 3.0 Weekly Progress Meeting - CQA attended the construction subcontractor's weekly progress meeting on Tuesday, September 21st, 2010 at 10:00 am. in the meeting trailer.
- 4.0 CQA Weekly Progress Meeting - CQA attended the CQA subcontractor's weekly progress meeting on Tuesday, September 21st, 2010 at 10:15 am in the meeting trailer.
- 5.0 Equipment Damage - During spreading of the drainage gravel in Cell 9, the Hitachi 200 listed to the side and the operator placed the bucket on a 6-in thick layer of drainage gravel to compensate. Upon investigation, ESI and CQA found the liner to be damaged. The location was repaired, tested and surveyed by Stratton Survey.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane - Stratton Survey was on-site to perform the as-built survey on the Cell 10 secondary geomembrane.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	S-16-159
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Overcast: Hi: 72°F Lo: 51°F Wind: 20-mph Rain: 0.05-in

CONSTRUCTION ACTIVITIES

- 2.0 Primary Geomembrane –CQA witnessed ESI conducting extrusion repairs on the primary geomembrane in Cell 10. After the repairs were completed CQA witnessed ESI performing vacuum testing on the repairs.

CQA failed Cell 10 primary destructive test DP-29 on seam P45/P47. ESI and CQA collected destructive tests on either side of the failed test in order to determine the extents of the failed seam. After the extents of the failed seam were verified by additional destructive testing, ESI capped the seam between two passing destructive tests.

CQA also witnessed ESI deploying four (4) panels of primary geomembrane in Cell 10. ESI deployed panels P-49 to P-52 on the floor of Cell 10 south of the deployed primary geomembrane in Cell 10 along the Cell 9 tie-in. The panels were deployed from east to west across Cell 10, from the Cell 10 termination to the Cell 9/10 tie-in. After the panels were deployed, CQA observed ESI utilizing one (1) double wedge welders to weld all panels together.

Stratton Survey was on-site to perform the as-built survey on the Cells 9 and 10 primary geomembrane.

- 3.0 Primary Geocomposite –ESI deployed fifteen (15) panels of primary geocomposite over the north slope of Cell 9 from panel P-50 to panel P-54. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.

- 4.0 Primary Geotextile – CQA witnessed ESI deploying eleven (11) rolls of 16 oz. primary geotextile on the floor of Cell 10 from primary panel P14 to primary panel P17. No geotextile was placed in the Cell 10 sump. ESI either sewed or double wedge welded the geotextile panels together on the floor of Cell 9 and 10.

- 5.0 Drainage Gravel – TWS continued to place Type A gravel in Cells 9 and 10. TWS began placing the Cell 9 north gravel haul road running from grid H6 to grid D2. After the Cell 9 north haul road was in-place, TWS spread the gravel over the Cell 9 floor.

CQA observed TWS hauling Type A drainage gravel from the stockpile southeast of Cell 10 in payhaulers to the Cell 10 floor. The payhaulers backed onto the 7-ft high gravel road, making no sudden movements or turns, and unloaded Type A gravel onto the haul road. The gravel was stockpiled at the end of the road by a CAT D6 LGP dozer. A Hatachi 200 and a CAT 312 excavator constructed a 7-ft high gravel haul road across Cell 9, spreading the gravel onto the Cell 9 floor as to trap the smaller wrinkles before the propagated into larger wrinkles. After lunch, TWS utilized two (2) CAT D6 LGP dozers began to spread the stockpiled drainage gravel across Cell 9 in a 1-ft high lift. The gravel was compacted and track-walked concurrently with spreading operations. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.



CQA DAILY CONSTRUCTION REPORT

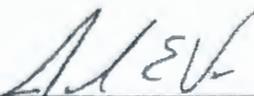
Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-159
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Overcast: Hi: 72°F Lo: 51°F Wind: 20-mph Rain: 0.05-in

CONSTRUCTION ACTIVITIES

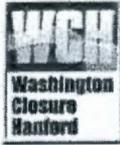
6.0 Tank 4 - TWS excavated the Tank 4 ring wall in the tank foundation. CQA tested and verified that Tank 4 ring wall subgrade met compaction specifications.

Stratton Survey was on-site to capture the as-built design coordinates and the Tank 4 pipes.

7.0 Manholes - BMWC continued installing the manhole riser and lids for the manholes in the Tank area.


 ENVIROTECH - CQA

10/18/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-160
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Overcast: Hi: 73°F Lo: 49°F Wind: 14-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 97-98	Luke Hay Book 2	Page: 158
Ryan Swenson Book 1	Pages: 43-44	Tyler Williams Book 3	Pages: 66-70

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

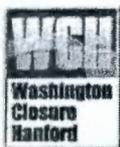
- 1.0 Secondary Geomembrane Repair – The soft patch on the south half of Cell 10 remains. CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.
- 2.0 Storm water –TWS completed pumping storm water from Cell 9 and Cell 10 sumps. CQA verified that the subgrade under the sumps was firm and continued to meet construction specifications.
- 3.0 Geomembrane – On September 21, 2010, a spool of LLDPE welding rod was brought into Cell 10 for the purpose of performing extrusion repairs. CQA noted the presence of the welding rod the morning of September 22, 2010, after ESI had completed the first repair that day. CQA tracked and verified that the welding rod was first used the morning of September 22, 2010 and only one (1) repair was performed with the LLDPE extrusion rod.

ESI returned the LLDPE welding rod to the liner holding area. ESI capped the non-conforming patch with an HDPE welded patch. ESI met with the welders to ensure HDPE welding rod is used for HDPE welding operations.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane – Stratton Survey was on-site to perform the as-built survey on the Cell 10 secondary geomembrane.
- 2.0 Primary Geomembrane –CQA witnessed ESI conducting extrusion repairs on the primary geomembrane in Cell 10. After the repairs were completed CQA witnessed ESI performing vacuum testing on the repairs.

In addition, CQA observed ESI extrusion welding the primary to the secondary geomembrane on the floor of the Cell 10 termination. ESI also welded and tested the Cell 9 secondary riser pipe boots through the primary geomembrane in the Cell 9 anchor trench.
- 3.0 Primary Geotextile – CQA witnessed ESI deploying twenty-four (24) rolls of 16 oz. primary geotextile on the floor of Cell 10 from primary panel P-17 to primary panel P-24. No geotextile was placed in the Cell 10 sump. ESI either sewed or double wedge welded the geotextile panels together on the floor of Cell 9 and 10.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-160
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Overcast: Hi: 73°F Lo: 49°F Wind: 14-mph

CONSTRUCTION ACTIVITIES

4.0 Primary Geocomposite - ESI deployed eighteen (18) panels of primary geocomposite over the north slope of Cell 9 from panel P-54 to panel P-59. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together.

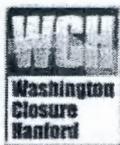
5.0 Drainage Gravel - TWS continued to place Type A gravel in Cells 9 and 10. TWS completed placing the Cell 9 north gravel haul road running from grid H6 to grid D2. TWS also placed Cell 10 northeast gravel haul road from grid H6 to D10. TWS continued to spread the gravel over the Cell 9 floor.

CQA observed TWS hauling Type A drainage gravel from the stockpile southeast of Cell 10 in payhaulers to the Cell 10 floor. The payhaulers backed onto the 7-ft high gravel road, making no sudden movements or turns, and unloaded Type A gravel onto the haul road. The gravel was stockpiled at the end of the road by a CAT D6 LGP dozer. A CAT 312 excavator constructed a 7-ft high gravel haul road across Cell 10, spreading the gravel onto the Cell 9 floor as to trap the smaller wrinkles before the propagated into larger wrinkles. With the aid of laborers, TWS utilized two (2) CAT D6 LGP dozers began to spread the stockpiled drainage gravel across Cell 9 in a 1-ft high lift. The gravel was compacted and track-walked concurrently with spreading operations. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.

6.0 Manholes - Lids and risers for additional manholes arrived on-site. BMWC continued installing the manhole riser and lids for the manholes in the leachate transmission system.

ENVIROTECH - CQA

9/24/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-161
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Overcast: Hi: 65°F Lo: 49°F Wind: 20-mph Rain: 0.07-in

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 99-100	Luke Hay Book 3	Pages: 1-2
James Schut Book 2	Pages: 40-41	Tyler Williams Book 3	Pages: 71-73
Ryan Swenson	Page: 45		

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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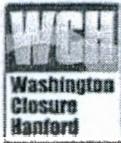
GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair – The soft patch on the south half of Cell 10 remains. CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.
- 2.0 Storm water – Rain fell thought the afternoon on-site, partially filling both sumps with storm water.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane – Stratton Survey was on-site to perform the as-built survey on the Cell 10 secondary geomembrane.
- 2.0 Primary Geomembrane –CQA witnessed ESI conducting extrusion repairs on the primary geomembrane in Cell 10. After the repairs were completed CQA witnessed ESI performing vacuum testing on the repairs.

In addition, CQA observed ESI extrusion welding the primary to the secondary geomembrane on the floor of the Cell 10 termination. After the north half of the Cell 10 floor termination was welded, ESI vacuum tested the weld.
- 3.0 Primary Geocomposite –ESI deployed eighteen (18) panels of primary geocomposite over the north slope of Cell 9 from panel P-59 to Cell 10 panel P-12. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-161
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Overcast: Hi: 65°F Lo: 49°F Wind: 20-mph Rain: 0.07-in

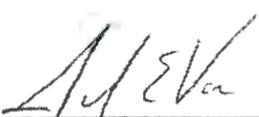
CONSTRUCTION ACTIVITIES

4.0 Drainage Gravel - TWS continued to place Type A gravel in Cells 9 and 10. TWS completed placing the Cell 10 northeast gravel haul road running from grid H6 to grid D10. After TWS completed the haul road, TWS placed Cell 10 north gravel haul road from grid H6 to D6. TWS continued to spread the gravel over the Cell 9 floor.

CQA observed TWS hauling Type A drainage gravel from the stockpile southeast of Cell 10 in payhaulers to the Cell 10 floor. The payhaulers backed onto the 7-ft high gravel road, making no sudden movements or turns, and unloaded Type A gravel onto the haul road. The gravel was stockpiled at the end of the road by a CAT D6 LGP dozer. A CAT 312 excavator constructed a 7-ft high gravel haul road across Cell 10, spreading the gravel onto the Cell 9 floor as to trap the smaller wrinkles before the propagated into larger wrinkles. With the aid of laborers, TWS utilized two (2) CAT D6 LGP dozers began to spread the stockpiled drainage gravel across Cell 9 in a 1-ft high lift. The gravel was compacted and track-walked concurrently with spreading operations. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.

5.0 Tank 4 Continued - TWS began placing the concrete forms into the Tank 4 ring wall trench for the concrete pour scheduled for next week.

6.0 Manholes - Lids and risers for additional manholes arrived on-site. BMWC continued installing the manhole riser and lids for the manholes in the leachate transmission system.


 ENVIROTECH - CQA

9/24/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-162
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Overcast: Hi: 74°F Lo: 46°F Wind: 14-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 101-102	Luke Hay Book 3	Pages: 3-5
James Schut Book 2	Pages: 42-44	Tyler Williams Book 3	Pages: 74-76
Ryan Swenson	Pages: 46-50		

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair – The soft patch on the south half of Cell 10 remains. CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.
- 2.0 Storm water – Storm water remains in both Cell 9 and Cell 10 sumps.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – CQA observed TWS removing the stormwater that had gathered on the subgrade in the center of Cell 10 in the gap between the admix. TWS utilized a CAT 312 excavator to remove the non-conforming material. The water/soil mixture was loaded into payhaulers and placed outside the east termination of the Cell. TWS then used the CAT 312 excavator to cover the water/soil mixture with dry soil.
- 2.0 Secondary Geomembrane – CQA observed ESI welding a 5-ft extension onto the secondary geomembrane panel S-63 in the north anchor trench of Cell 10 to match design drawings.
- 3.0 Primary Geomembrane – ESI began construction of the rainflap detail on the north slope of Cell 10. CQA observed ESI cutting the primary geomembrane and extrusion welding the leading edge of the primary geomembrane to the secondary geomembrane. ESI shall complete the rainflap detail at a later date.
- 4.0 Primary Geocomposite – ESI deployed twenty-five (25) panels of primary geocomposite over the north slope of Cell 10 from panel P-12 to Cell 10 panel P-18. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together.
- 5.0 Primary Geotextile – CQA witnessed ESI deploying three (3) rolls of 16 oz. primary geotextile on the floor of Cell 10 from primary panel P-24 to the Cell 10 termination. ESI either sewed or double wedge welded the geotextile panels together on the floor of Cell 9 and 10.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-163
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Pt. Cloudy; Hi: 87°F Lo: 55°F Wind: 11-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 103-104	Luke Hay Book 3	Page: 6
James Schut Book 2	Pages: 45-48	Tyler Williams Book 3	Pages: 77-79
Ryan Swenson	Page: 51		

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair – The soft patch on the south half of Cell 10 remains. CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.
- 2.0 Storm water – Storm water remains in both Cell 9 and Cell 10 sumps.
- 3.0 Ground Penetrating Radar – CQA was notified that the ground penetrating radar discovered no evidence of rutting under the drainage gravel haul roads in Cells 9 or 10.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane – CQA observed ESI conducting non-destructive testing on the Cell 10 secondary geomembrane on the south slope and floor of Cell 10.
- 2.0 Primary Geocomposite – ESI deployed fourteen (14) panels of primary geocomposite over the north slope of Cell 10. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together.
- 3.0 Leachate Collection Pipe – CQA observed TWS excavating the drainage gravel from the Cell 10 center line with two (2) labors and a CAT 312 excavator. After the drainage gravel was removed, BMWC and TWS installed the 12-in leachate collection pipe in the north half of Cell 10. The pipe was dragged into place from the center access road in Cell 10.

Stratton Surveying was on-site to as-built the leachate collection pipe location.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-163
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Pt. Cloudy: Hi: 87°F Lo: 55°F Wind: 11-mph

CONSTRUCTION ACTIVITIES

4.0 Drainage Gravel – TWS trimmed the drainage gravel in Cell 9 and 10 to grade with two (2) D6 LGP GPS dozers. After the 12-in leachate collection pipe was installed in Cell 10, CQA observed TWS placing a 1-ft high berm over the pipe as per the design drawings.

Stratton Surveying was on-site to verify the drainage gravel thickness in Cells 9 and 10.

The WCH GPR technician was on-site to perform a survey of the Cell 10 northeast haul road.

In addition, CQA observed TWS removing a portion of the primary drainage gravel entrance in grid H6 with the CAT 330 excavator.

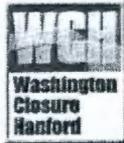
5.0 8oz. Geotextile – CQA witnessed ESI deploying eighteen (18) rolls of 8 oz. geotextile over the primary drainage gravel on the floor of Cell 10 from primary panel P-24 to the Cell 10 termination. ESI either sewed the geotextile panels together on the floor of Cell 9 and 10. The panels were placed as to allow TWS to place the north operations haul road across Cell 10, running east-west across Cells 9 and 10, approximately 20-ft south of the sumps. Partial deployed rolls were left on the Cell 9/10 tie-in; TWS shall deploy the partial rolls at a later date.

6.0 Operations Soil – TWS constructed the north operations ramp 60-ft south of the north toe of slope on the Cell 10 termination. TWS then constructed the north operations haul road 10-ft high and 40-wide running east to west across Cells 9 and 10, approximately 20-ft south of the sumps. Approximately 50-ft of haul road was constructed starting at the termination of Cell 10 to approximately 50-ft from the termination.

To construct the north operations ramp, TWS placed scrap geosynthetics and plywood over the Cell 10 termination. TWS then placed operations soil over the protective materials until a 10-ft high ramp with a turn area outside of Cell 10 was constructed. The soil was placed in lifts with two (2) payhaulers, a CAT D6 dozer spread the soil, a water truck moisture conditioning the fill, and a CAT 563 compacting each lift. After the ramp was constructed, two (2) payhaulers hauled soil to the north operations haul road. The payhaulers turned around on the ramp outside of the Cells, and backed slowly over the road, making no sudden movements. The soil was stockpiled at the end of the road, where a CAT D6 dozer spread the soil as a 10-ft high road across Cell 9.

7.0 Crest Pad Building – BMWC installed the pipe supports for the Crest Pad 9 piping.

8.0 Tank 4 – TWS continued placing the concrete forms into the Tank 4 ringwall trench.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-164
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Overcast: Hi: 90°F Lo: 57°F Wind: 27-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 105-106	Luke Hay Book 3	Pages: 7-8
James Schut Book 2	Pages: 49-51	Tyler Williams Book 3	Pages: 80-81

FIELD TESTING

Submittal 5-18C Admix Subgrade	Lift: Subgrade	SG-103 to SG-107	Passed
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CQA HOLD POINTS

Submittal 5-18R-099 Cell 10 Subgrade	September 28, 2010	Grids: H7, H8, H9, H10, and I7
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LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair – The soft patch on the south half of Cell 10 remains, CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.
- 2.0 Storm water – Storm water remains in both Cell 9 and Cell 10 sumps.
- 3.0 Ground Penetrating Radar – CQA was notified that the ground penetrating radar discovered no evidence of rutting under the Cell 10 northeast drainage gravel haul road.
- 4.0 Weekly Progress Meeting – CQA attended the construction subcontractor’s weekly progress meeting on Tuesday, September 28th, 2010 at 10:00 am. in the meeting trailer.
- 5.0 CQA Weekly Progress Meeting – CQA attended the CQA subcontractor’s weekly progress meeting on Tuesday, September 28th, 2010 at 10:15 am in the meeting trailer.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – TWS removed the saturated admix/soil mixture that had accumulated on the Cell 9 access road that bisected Cell 10. The soil was stockpiled with a CAT D6 dozer, loaded into payhaulers with a CAT 988 front-end loader, and removed from the Cells. Fresh soil was placed onto the subgrade, moisture conditioned, and compacted with the CAT 563 smooth drum roller. CQA verified that the subgrade met compaction specifications.

Stratton Surveying was on-site to verify that the subgrade met the design drawings.



CQA DAILY CONSTRUCTION REPORT

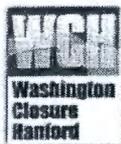
Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-164
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Overcast: Hi: 90°F Lo: 57°F Wind: 27-mph

CONSTRUCTION ACTIVITIES

- 2.0 Secondary Geomembrane – CQA observed ESI conducting non-destructive testing on the Cell 10 secondary geomembrane on the south slope of Cell 10.
- 3.0 Secondary Geocomposite – ESI deployed thirteen (13) panels of secondary geocomposite over the south slope of Cell 10 from the Cell 7/9 tie-in to the east to panel S-4. CQA witnessed ESI joining the geocomposite together with plastic zip ties as pre construction specifications, no butt seams were completed.
- 4.0 Primary Geocomposite – ESI deployed two (2) panels of primary geocomposite over the south slope of Cell 9. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- 5.0 Leachate Collection Pipe – CQA observed TWS excavating the drainage gravel from the Cell 9 center line with two (2) labors and a CAT 312 excavator. After the drainage gravel was removed and a geocomposite strip was placed over the primary geomembrane, BMWC and TWS installed the 12-in leachate collection pipe and cleanout riser down the south slope and across the floor to approximately 60-ft south of the Cell 10 sump. The pipe was walked down the slope by laborers and dragged across Cell 9 with the aid of the CAT 312 excavator.
- Stratton Surveying was on-site to as-built the leachate collection pipe location.
- 6.0 Drainage Gravel – TWS trimmed the drainage gravel in Cell 9 and 10 to grade with two (2) D6 LGP GPS dozers. CQA also observed TWS utilizing a CAT D6 LGP dozer to spread the stockpiled drainage gravel at the Cell 9 access ramp across Cell 10, staging the gravel for future placement in Cell 10.
- 7.0 8oz. Geotextile – CQA witnessed ESI deploying the partial 8 oz. geotextile left rolled up on the Cell 9/10 tie-in. The rolls were deployed west to the edge of the Cell 10 leachate collection pipe berm. ESI sewed the geotextile panels together on the floor of Cell 9 and 10. The panels were placed as to allow TWS to place the north operations haul road across Cell 10, running east-west across Cells 9 and 10, approximately 20-ft south of the sumps.
- 8.0 Operations Soil – TWS continued constructing the north operations haul road east to west, approximately 20-ft south of the Cell 10 sump. The road was placed 10-ft high and 40-ft wide to approximately 60-ft past the Cell 10 centerline.
- Three (3) payhaulers hauled soil to the north operations haul road. The payhaulers turned around on the ramp outside of the cells, and backed slowly over the road, making no sudden movements. The soil was stockpiled at the end of the road, where a CAT D6 dozer spread the soil as a 10-ft high road across Cell 9.
- 9.0 Crest Pad Building – BMWC installed the pipe supports for the Crest Pad 10 piping.
- 10.0 Tank 4 – TWS continued placing the concrete forms into the Tank 4 ringwall trench.

ENVIROTECH – CQA

8/27/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-165	
Job Number:	S013213A00	Staff On-site	Date:	Wednesday, September 29, 2010
Contractor(s):	TradeWind Services	4	Weather:	Overcast: Hi: 77°F Lo: 56°F Wind: 16-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 107-109	Luke Hay Book 3	Pages: 9-15
James Schut Book 2	Pages: 52-56	Tyler Williams Book 3	Pages: 82-88

FIELD TESTING

Submittal 5-18J Cell 10:Admix Testing	Lifts: 1-6	SL-1007 to SL-1018	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 - Cell 10 Center Haul Road	SL-1012	Shelby Tube Collected: Perm: On-going

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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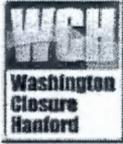
GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair – CQA investigated and the soft patch on the south half of Cell 10 has healed significantly, reducing in size. CQA shall continue to track the soft spot in the admix near panel S-118 in Cell 10.
- 2.0 Evacuation/Take Cover Drill – CQA was part of the evacuation drill that was transformed into a take cover drill at 14:20 on Wednesday, September 29th, 2010. The drill lasted for approximately one (1) hour before work resumed.
- 3.0 Work Hours – TWS with WCH approval has begun 12 hour shift with Saturday work. CQA met with Dana Looney with WCH to discuss financial coverage for the additional work.
- 4.0 Storm water – Storm water remains in both Cell 9 and Cell 10 sumps.

CONSTRUCTION ACTIVITIES

- 1.0 Subgrade – TWS moisture conditioned the subgrade of the admix prior to placing admix on the subgrade surface.
- 2.0 Admix Placement – CQA observed ESI moisture conditioning the reworking the exposed admix to the north of the secondary geomembrane on the south half of the Cell.

CQA observed TWS using a CAT D6 GPS dozers to place admix over the haul road gap in Cell 10, grids I7 and H7. CQA observed TWS using one (1) CAT 825 sheepsfoot compactor to compact the admix. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.
- 3.0 Secondary Geomembrane – CQA observed ESI conducting non-destructive testing on the Cell 10 secondary geomembrane on the south slope of Cell 10.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-165
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Overcast: Hi: 77°F Lo: 56°F Wind: 16-mph

CONSTRUCTION ACTIVITIES

- 4.0 Secondary Geocomposite – ESI deployed sixteen (16) panels of secondary geocomposite over the south slope of Cell 10 from panel S-4 to panel S-10. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications, no butt seams were completed.
- 5.0 Primary Geomembrane – CQA observed ESI extrusion welding the primary geomembrane to the secondary geomembrane on the north slope of Cell 10 near the rainflap as per construction drawings. ESI also conducted non-destructive testing on the primary-secondary geomembrane weld performed on Tuesday, September 28, 2010. In addition, CQA observed ESI welding the primary pipe boot for the secondary leachate riser pipes located on the shoulder of the Cell 10 slope.
- 6.0 Primary Geocomposite – CQA observed ESI joining the butt seams on the deployed panels on the north slope of Cell 9 as with plastic zip ties per contract specifications. After the joins were completed, CQA verified that the joins met contract specifications.
- 7.0 Leachate Collection Pipe – The leachate collection/clean out pipe was installed on Tuesday, September 28, 2010 from the top of the south berm to 100-ft south of the Cell 9 sump. CQA observed TWS constructing the rock berm over the leachate collection pipe in Cell 10 as per construction drawings. The last 20-ft of the pipe was left exposed on the Cell 9 floor. The drainage gravel berm was constructed with a CAT 312 excavator aided the TWS surveyor.
- 8.0 8oz. Geotextile – CQA witnessed ESI deploying six (6) rolls of 8 oz. geotextile on the north side of Cell 10. The rolls were deployed south of the operations haul road to the toe of the north slope, where the geotextile was leistered to the primary geocomposite. ESI sewed the geotextile panels together on the floor of Cell 10.
- 9.0 Operations Soil – TWS continued constructing the north operations haul road east to west, approximately 20-ft south of the Cell 10 sump. The road was placed 10-ft high and 40-ft wide to approximately 80-ft past the Cell 10 centerline.
- Two (2) payhaulers hauled soil to the north operations haul road in between hauling admix to the floor of Cell 10. The payhaulers turned around on the ramp outside of the cells, and backed slowly over the road, making no sudden movements. The soil was stockpiled at the end of the road, where a CAT D6 dozer spread the soil as a 10-ft high road across Cell 9.
- 10.0 Leachate Transmission Line – CQA observed BMW and TWS installing the manhole risers and lids on the remaining manholes in the leachate collection system.
- 11.0 Tank 4 – TWS continued placing the concrete forms for the Tank 4 ringwall.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-166
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Overcast: Hi: 83°F Lo: 59°F Wind: 16-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 110-112	Luke Hay Book 3	Pages: 16-21
James Schut Book 2	Pages: 57-59	Tyler Williams Book 3	Pages: 89-92

FIELD TESTING

Submittal 5-18J Cell 10:Admix Testing	Lifts: 1-6	SL-1019 to SL-1036	Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 10 Center Haul Road	SL-1012	Perm: On-going

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair – The soft patch on the south half of Cell 10 remains, CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.
- 2.0 Storm water – TWS pumped the stormwater from the Cell 9 sump to the Cell 10 sump.

CONSTRUCTION ACTIVITIES

- 1.0 Admix Placement – CQA observed TWS using a CAT D6 GPS dozers to place admix over the haul road gap in Cell 10, grids H-8, H-9, and H10. CQA observed TWS using one (1) CAT 825 sheepsfoot compactors to compact the admix. CQA tested and verified that each lift placed was properly moisture conditioned, compacted and that the lift met the contract specifications. The final lift of admix was cut to grade with a D6 GPS dozer and rolled with a CAT 563 smooth drum roller. Please refer to Submittal 5-18J Admix Field Data for lift completion data for all grids.
- 2.0 Secondary Geomembrane – CQA observed ESI conducting non-destructive testing on the Cell 10 secondary geomembrane on the south floor of Cell 10.
- 3.0 Primary Geomembrane – CQA observed ESI vacuum testing the primary to secondary extrusion weld near the rainflap. CQA failed primary destructive test DP-35 on the primary to secondary weld. ESI bracketed the test with two (2) passing tests 15-ft to either side of the failed test. The geomembrane was capped between the two (2) passing tests.
- 4.0 Primary Geotextile – CQA observed ESI placing one (1) roll of 16 oz. geotextile on the south side of Cell 9 to bring the geotextile up to the toe of the south berm. The panel was sewn to the deployed primary geotextile and leistered to the primary geocomposite.

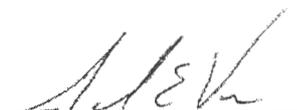


CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-166
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Overcast: Hi: 83°F Lo: 59°F Wind: 16-mph

CONSTRUCTION ACTIVITIES

- 5.0 Primary Geocomposite - CQA observed ESI joining the butt seams on the deployed panels on the north slope of Cell 9 as with plastic zip ties per contract specifications. After the joins were completed, CQA verified that the joins met contract specifications.
- 6.0 Leachate Collection Pipe - CQA observed TWS completing the construction the rock berm over the leachate collection pipe in Cell 10 as per construction drawings. The last 20-ft of the pipe was left exposed on the Cell 9 floor. The drainage gravel berm was constructed with a CAT 312 excavator aided the TWS surveyor. After the berm was constructed, the excess drainage gravel was stockpiled at the edge of the drainage gravel by a CAT D6 LGP dozer. The CAT D6 LGP dozer then began re-grading the drainage gravel on the east side of the leachate collection pipe berm.
- 7.0 Drainage Gravel - TWS trimmed the drainage gravel in Cell 9 to grade with one (1) D6 LGP GPS dozers. CQA shall resurvey the drainage gravel to the east of the Cell 9 leachate collection pipe berm.
- 8.0 8oz. Geotextile - CQA witnessed ESI deploying 18 rolls of 8 oz. geotextile on the north and west sides Cells 9 and 10. ESI sewed the geotextile panels together on the floor of Cell 10.
- 9.0 Operations Soil - TWS continued constructing the north operations haul road east to west, approximately 20-ft south of the Cell 10 sump. The road was placed 10-ft high and 40-ft wide to the east side of Cell 9.
- Two (2) payhaulers hauled soil to the north operations haul road in between hauling admix to the floor of Cell 10. The payhaulers turned around on the ramp outside of the cells, and backed slowly over the road, making no sudden movements. The soil was stockpiled at the end of the road, where a CAT D8 dozer spread the soil as a 10-ft high road across Cell 9.
- 10.0 Tank 3 - BMWC installed the drain line HDPE manhole and center connection in Tank 3.
- 11.0 Tank 4 - BMWC installed the drain line HDPE manhole and center connection in Tank 4.
- TWS completed placing the concrete forms for the Tank 4 ringwall.


ENVIROTECH - CQA

10/4/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-167
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Overcast: Hi: 85°F Lo: 58°F Wind: 13-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 113-114	Luke Hay Book 3	Pages: 12-23
James Schut Book 2	Pages: 60-61	Tyler Williams Book 3	Pages: 93-94

FIELD TESTING

Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 - Cell 10 Center Haul Road	SL-1012	Perm: On-going
Submittal 5-18Q Cell 9: Anchor Trench	Lifts: 1-6	AT-01 to AT-06	Passed

LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
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GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair – The soft patch on the south half of Cell 10 remains. CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.

CONSTRUCTION ACTIVITIES

- 1.0 Admix Placement – CQA observed TWS using a CAT D6 GPS dozer to trim the admix to grade. The grade trimmings were loaded by a CAT 988 into a payhauler and removed from Cell 10. The trimmed admix was proof rolled with a CAT 563 smooth drum compactor and finish rolled with a small double smooth drum roller. TWS laborers removed obstructions and smoothed the admix edges to create a continuous streamlined grade across the admix surface.

The CQA surveyor was on-site to verify the admix thickness and conformance with design drawings. CQA has completed field testing and survey, of the admix, but has not completed permeability testing.

- 2.0 Secondary Geomembrane – TWS and ESI decided to deploy the secondary geomembrane at risk over the unapproved admix. CQA observed ESI deploying fifteen (15) panels of secondary geomembrane in Cell 10. ESI deployed panels S-119 to S-133 over admix in the location of the center haul road in Cell 10. Several partial rolls were moved into position from the east end of Cell 10. After the panels were deployed, CQA observed ESI utilizing three (3) double wedge welders to weld the panels.

CQA also observed ESI performing vacuum tests and making repairs to the secondary geomembrane in Cell 10 as required by CQA and CQC.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-167
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Overcast: Hi: 85°F Lo: 58°F Wind: 13-mph

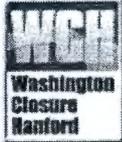
CONSTRUCTION ACTIVITIES

- 3.0 Drainage Gravel - TWS completed trimming the drainage gravel in Cell 9 with one (1) D6 LGP GPS dozers. CQA surveyors were on-site to verify the drainage gravel thickness in Cell 9.
- 4.0 8oz. Geotextile - CQA witnessed ESI deploying 18 rolls of 8 oz. geotextile on the north and west sides Cells 9 and 10. ESI sewed the geotextile panels together on the floor of Cell 10.
- 5.0 Operations Soil - TWS continued constructing the north operations haul road east to west, approximately 20-ft south of the Cell 10 sump. The road was placed 10-ft high and 40-ft wide to the east side of Cell 9.

One (1) payhauler and two (2) Komatsu payhaulers hauled soil to the north operations haul road in between hauling admix to the floor of Cell 10. The payhaulers turned around on the ramp outside of the cells, and backed slowly over the road, making no sudden movements. The soil was stockpiled at the end of the road, where a CAT D8 dozer spread the soil as a 10-ft high road across Cell 9.
- 6.0 Tank 4 - CQA observed TWS utilizing a concrete pump truck to place the wet concrete into the Tank 4 ringwall forms. Inter-Mountain Testing Services (IMT) was on-site to test the placed concrete as per specification.

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 ENVIROTECH - CQA

10/4/10
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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-168
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	Weather:	Overcast: Hi: 84°F Lo: 48°F Wind: 11-mph

FIELD NOTEBOOKS			
Tyler Williams Book 3	Pages: 95-97		

LABORATORY TESTING		
5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going

GENERAL ACTIVITIES
1.0 <u>Secondary Geomembrane Repair</u> – The soft patch on the south half of Cell 10 remains. CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.

CONSTRUCTION ACTIVITIES
1.0 <u>Secondary Geomembrane</u> – CQA observed ESI performing vacuum tests and making repairs to the secondary geomembrane in Cell 10 as required by CQA and CQC. In addition, CQA observed ESI pressure testing the welds performed on Friday October 1, 2010 CQA also observed ESI completed vacuum testing of the secondary geomembrane on the south half of Cell 10.
2.0 <u>8oz. Geotextile</u> – CQA witnessed ESI deploying fifteen (15) rolls of 8 oz. geotextile on the south half Cell 9. ESI sewed the geotextile panels together on the floor of Cell 10.
3.0 <u>Operations Soil</u> – CQA observed TWS utilizing a CAT 312 excavator to remove soil from the Cell 8/9 tie-in on the north slope and place the soil over the primary geocomposite on the north berm of Cell 9.

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ENVIROTECH – CQA

10/8/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-169
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	Trade Wind Services	7	Weather:
			Pt. Cloudy: Hi: 73°F Lo: 50°F Wind: 38-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 115-116	Luke Hay Book 3	Page: 24
James Schut Book 2	Pages: 62-64	Tyler Williams Book 3	Pages: 98-100
Ryan Swenson Book 1	Pages: 52-55		

FIELD TESTING

Submittal 5-18D Manhole 34 and 35 Backfill	Lifts: 6-12 Lifts: 6-13	MH34-08 to MH34-14 MH35-08 to MH35-15	Passed Passed
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 - Cell 10 Center Haul Road	SL-1012	Perm: On-going
Submittal 5-18Q Cell 9: Anchor Trench	Lifts: 1-3 and 7	AT-07 to AT-10	Passed
Submittal 5-18Q Cell 10: Anchor Trench	Lifts: 1-3	AT-11 to AT-13	Passed

LABORATORY TESTING

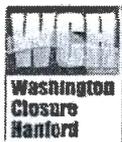
5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
5-18M Operations Soil	OP-2	Sample Collected: USCS on-going
5-18M Operations Soil	OP-3	Sample Collected: USCS on-going
5-18M Operations Soil	OP-4	Sample Collected: USCS on-going
5-18M Operations Soil	OP-5	Sample Collected: USCS and Proctor on-going
5-18M Operations Soil	OP-6	Sample Collected: USCS on-going
5-18M Operations Soil	OP-7	Sample Collected: USCS on-going
5-18P Anchor Trench Backfill	TB-01	Sample Collected: USCS: On-going

GENERAL ACTIVITIES

- 1.0 Secondary Geomembrane Repair - The soft patch on the south half of Cell 10 remains. CQA shall continue to track the soft spot in the admix near panels S-118 in Cell 10.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane - CQA observed ESI conducting extrusion repairs and performing vacuum tests to the secondary geomembrane in Cell 10 as required by CQA and CQC. In addition, the CQA surveyors were on-site to capture the secondary seam survey on the secondary geomembrane in Cell 10.

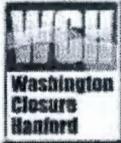


CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-169
Job Number:	S013213A00	Staff On-site:	7
Contractor(s):	TradeWind Services	Date:	Monday, October 4, 2010
		Weather:	Pt. Cloudy; Hi: 73°F Lo: 50°F Wind: 38-mph

CONSTRUCTION ACTIVITIES

- 3.0 100 mil Rub Sheet - ESI deployed and welded the 100-mil rub sheet in the Cell 9 sump. The sheet was set over the secondary geomembrane in the Cell 9 sump and extended 5-ft onto the Cell 9 floor; however, the 100-mil rub sheet was not welded to the secondary geomembrane. The CQA surveyors were on-site to capture the extents of the 100-mil rub sheet.
- 4.0 Anchor Trench - TWS placed and compacted three (3) lifts on the east side of the north anchor trench in Cell 9 and on the west side of the north anchor trench in Cell 10. In addition, TWS compacted one (1) additional lift on the west side of the north anchor trench in Cell 9. TWS utilized a Hitachi 200 excavator to place the soil and a CAT 312 excavator with an attached hoe-pack to compacted the soil. CQA tested lift 7 on the west side of the north anchor trench in Cell 9 and lifts 1-3 on the east side of the Cell 9 north anchor trench and west side of Cell 10 north anchor trench
- 5.0 Operation Soil - TWS continued constructing the north operations haul road east to west, approximately 20-ft south of the Cell 9 sump. After the road was constructed to the west side of the Cell 9 sump, TWS thickened and widened the haul road to enable the trucks to turn around in the Cell. TWS then continued constructing the road to the toe of the north embankment. In addition, TWS utilized the CAT D8 dozer to push the operations soil up the Cell 9 slope west of the Cell 9 sump. A CQA spotter was present when soils were placed over primary geomembrane on the Cell 9 slope.
- One (1) payhauler and two (2) Komatsu payhaulers hauled soil to the north operations haul road in between hauling admix to the floor of Cell 10. The payhaulers turned around on the ramp outside of the cells, and backed slowly over the road, making no sudden movements. After the turn around area was constructed in Cell 10, the payhaulers turned around in the middle of the Cell 10. The soil was stockpiled at the end of the road or at the toe of the north slope, where two (2) dozers, a CAT D8 dozer and a CAT D6 dozer, spread the soil as a 10-ft high road across Cell 10.
- 6.0 Leachate Transmission - CQA observed TWS completing the backfill around manholes MH-34 and MH-35. TWS utilized a CAT 330 excavator to place the soil seven (7) lifts of soil around MH-34 and eight (8) lifts of soil around MH-35. TWS used a water truck to moisture condition the soil and two (2) jumping jack hand compactors to compact the soil. CQA tested and verified that lifts 6-12 of MH-34 and lifts 6-13 of MH-35 met compaction specifications.
- 7.0 Acceptance Testing - BMWC and TWS performed the 2-hour pump test for the secondary pump in Cell 9 as per the construction specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-170
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Pt. Cloudy: Hi: 73°F Lo: 48°F Wind: 17-mph

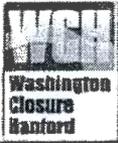
FIELD NOTEBOOKS			
Joe Voss Book 2	Pages: 117-120	Luke Hay Book 3	Pages: 25-26
James Schut Book 2	Pages: 65-67	Tyler Williams Book 3	Pages: 101-103
Ryan Swenson Book 1	Pages: 56-58		

FIELD TESTING			
Submittal 5-18J Admix Field Testing Permeability	Lift No. 3 – Cell 10 Center Haul Road	SL-1012	Perm: Passed
Submittal 5-18Q Cell 9: Anchor Trench	Lifts: 4-5	AT-14 to AT-15	Passed
Submittal 5-18Q Cell 10: Anchor Trench	Lifts: 4-5	AT-16 to AT-17	Passed

CQA HOLD POINTS		
Submittal 5-18R-100 Cell 10 Admix Surface	Tuesday, October 5, 2010	Panels: S-118 to S-133

LABORATORY TESTING		
5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
5-18M Operations Soil	OP-2	USCS on-going
5-18M Operations Soil	OP-3	USCS on-going
5-18M Operations Soil	OP-4	USCS on-going
5-18M Operations Soil	OP-5	USCS and Proctor on-going
5-18M Operations Soil	OP-6	USCS on-going
5-18M Operations Soil	OP-7	USCS on-going
5-18M Operations Soil	OP-8	Sample Collected: USCS on-going
5-18M Operations Soil	OP-9	Sample Collected: USCS on-going
5-18M Operations Soil	OP-10	Sample Collected: USCS and Proctor on-going
5-18M Operations Soil	OP-11	Sample Collected: USCS on-going
5-18M Operations Soil	OP-12	Sample Collected: USCS on-going
5-18P Anchor Trench Backfill	TB-01	USCS: On-going

GENERAL ACTIVITIES
<p>1.0 <u>Secondary Geomembrane Repair</u> – CQA investigated the soft patch in the admix near panels S-118 in Cell 10 and found the admix firm and stable. CQA concluded that the admix healed itself and the soft patch in the admix does not exist.</p> <p>2.0 <u>Weekly Progress Meeting</u> –The construction subcontractor’s weekly progress meeting on Tuesday, October 5th, 2010 at 10:00 am. in the meeting trailer.</p>



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-170
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Pt. Cloudy: Hi: 73°F Lo: 48°F Wind: 17-mph

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geomembrane - CQA observed ESI conducting extrusion repairs and performing vacuum tests to the secondary geomembrane in Cell 10 as required by CQA and CQC. In addition, the CQA surveyors were on-site to capture the secondary seam survey on the secondary geomembrane in Cell 10.
- 2.0 Secondary Geocomposite - ESI deployed twenty (20) panels of secondary geocomposite over the south half of the Cell 10 floor. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- 3.0 Primary Geocomposite - ESI leistered patches over the geocomposite butt seams of the Cell 9 north slope.
- 4.0 Cell 9 Sump - ESI deployed one (1) roll of 16 oz. primary geotextile in the Cell 9 sump. The primary geotextile was sewn to the surrounding primary geotextile. In the location of the flat stock in the Cell 9 sump, ESI deployed a second layer of geotextile to create a cushion two panels thick as per design drawings.
- 5.0 Anchor Trench - TWS placed and compacted two (2) lifts on the east side of the north anchor trench in Cell 9 and on the west side of the north anchor trench in Cell 10. TWS utilized a Hitachi 200 excavator to place the soil and a CAT 312 excavator with an attached hoe-pack to compacted the soil. CQA tested lifts 1-3 on the east side of the Cell 9 north anchor trench and west side of Cell 10 north anchor trench.
- 6.0 Operation Soil - TWS continued placing operations on the north embankment. Soil was hauled to the toe of slope with payhauler and pushed up the slope with a CAT D8 dozer. Later in the day, the CAT 330 spread the operations soil up the Cell 9 north slope to ensure no underlying liner was folded over. A CQA spotter was present when soils were placed over primary geomembrane on the Cell 9 slope. In addition, TWS turned the north haul road south in Cell 9, and began pushing operations soil north to south down the center of Cell 9.

One (1) payhauler and two (2) Komatsu payhaulers hauled soil to the north operations haul road in between hauling admix to the floor of Cell 10. The payhaulers turned around in the middle of the Cell 10 over a 10-ft high shelf of operations soil on the floor. The soil was stockpiled at the end of the road or at the toe of the north slope. Two (2) dozers, a CAT D8 dozer and a CAT D6 dozer spread the operations soil. The soil was spread south, across Cell 9 or up the Cell 9 north slope.

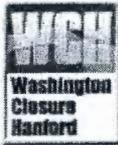
- 7.0 Leachate Transmission - CQA observed TWS completing the backfill around manholes MH-34 and MH-35. TWS utilized a CAT 330 excavator to place seven (7) lifts of soil around MH-34 and eight (8) lifts of soil around MH-35. TWS used a water truck to moisture condition the soil and two (2) jumping jack hand compactors to compact the soil. CQA tested and verified that lifts 6-12 of MH-34 and lifts 6-13 of MH-35 met compaction specifications.

In addition, BMWC began assembling the leachate piping in the Cell 9 crest pad building.

- 8.0 Acceptance Testing - BMWC and TWS performed the 2-hour pump test for the Cell 10 crest pad building as per the construction specifications.

ENVIROTECH - CQA

10/11/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-171
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Cloudy: Hi: 75°F Lo: 48°F Wind: 16-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 121-122	Luke Hay Book 3	Pages: 27-31
James Schut Book 2	Pages: 68-69	Tyler Williams Book 3	Pages: 104-105

LABORATORY TESTING

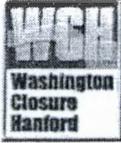
5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: On-going
5-18M Operations Soil	OP-2	USCS on-going
5-18M Operations Soil	OP-3	USCS on-going
5-18M Operations Soil	OP-4	USCS on-going
5-18M Operations Soil	OP-5	USCS and Proctor on-going
5-18M Operations Soil	OP-6	USCS on-going
5-18M Operations Soil	OP-7	USCS on-going
5-18M Operations Soil	OP-8	USCS on-going
5-18M Operations Soil	OP-9	USCS on-going
5-18M Operations Soil	OP-10	USCS and Proctor on-going
5-18M Operations Soil	OP-11	USCS on-going
5-18M Operations Soil	OP-12	USCS on-going
5-18M Operations Soil	OP-13	Sample Collected: USCS on-going
5-18M Operations Soil	OP-14	Sample Collected: USCS on-going
5-18M Operations Soil	OP-15	Sample Collected: USCS and Proctor on-going
5-18P Anchor Trench Backfill	TB-01	USCS: On-going

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geocomposite – ESI deployed thirty-three (33) panels of secondary geocomposite over the south half of the Cell 10 floor. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- 2.0 Cell 9 Sump – CQA observed TWS placing Type B drainage gravel in the Cell 9 sump over the 16 oz. primary geotextile with a CAT 312 excavator. After the drainage gravel was placed, the CQA surveyors verified the gravel thickness. ESI then deployed one (1) roll of 8 oz. primary geotextile over the Type B drainage gravel. CQA then witnessed TWS placing 5-ft of operations material over the 8 oz. geotextile.

The CQA surveyors were on-site to verify the thickness of the drainage gravel.

- 3.0 Primary Geocomposite – CQA observed ESI adding zip ties to the primary geocomposite butt seams on the north slope of Cell 9 as required by CQA to meet the construction specifications. ESI then leistered patches over the geocomposite butt seams of the Cell 9 north slope.



CQA DAILY CONSTRUCTION REPORT

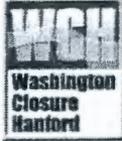
Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-171
Job Number:	S013213A00	Staff On-site	Date: Wednesday, October 6, 2010
Contractor(s):	TradeWind Services	4	Weather: Cloudy: Hi: 75°F Lo: 48°F Wind: 16-mph

CONSTRUCTION ACTIVITIES

- 4.0 Operation Soil – TWS continued placing operations on the north embankment of Cell 9. Soil was hauled to the toe of slope in one (1) International payhauler and two (2) Komatsu payhaules, and spread up the north slope of Cell 9 slope with the CAT 330 excavator, a CAT D6 LGP dozer, and a CAT D8 dozer. A CQA spotter was present when soils were placed over primary geomembrane on the Cell 9 slope. In addition, TWS continued placing the west haul road in Cell 9, from the center of Cell 9 south to the Cell 9 south embankment toe of slope.
- 5.0 Leachate Transmission – CQA observed BMWC assembling the leachate piping in the Cell 9 crest pad building.
- 6.0 Tank 4 – CQA observed TWS stripping the concrete forms from the Tank 4 ring wall.


 ENVIROTECH – CQA

10/6/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-172
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Overcast: Hi: 67°F Lo: 49°F Wind: 19-mph Showers: 0.01-in

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 123-125	Luke Hay Book 3	Page: 32
James Schut Book 2	Pages: 70-71	Tyler Williams Book 3	Pages: 106-109
Ryan Swenson Book 1	Pages: 59-62		

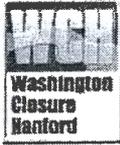
LABORATORY TESTING

5-18K Type A Drainage Gravel	DG-A-17A	Perm and USCS: Passed
5-18M Operations Soil	OP-2	USCS: Passed
5-18M Operations Soil	OP-3	USCS: Passed
5-18M Operations Soil	OP-4	USCS: Passed
5-18M Operations Soil	OP-5	USCS and Proctor on-going
5-18M Operations Soil	OP-6	USCS on-going
5-18M Operations Soil	OP-7	USCS on-going
5-18M Operations Soil	OP-8	USCS on-going
5-18M Operations Soil	OP-9	USCS on-going
5-18M Operations Soil	OP-10	USCS and Proctor on-going
5-18M Operations Soil	OP-11	USCS on-going
5-18M Operations Soil	OP-12	USCS on-going
5-18M Operations Soil	OP-13	USCS on-going
5-18M Operations Soil	OP-14	USCS on-going
5-18M Operations Soil	OP-15	USCS and Proctor on-going
5-18M Operations Soil	OP-16	Sample Collected: USCS on-going
5-18M Operations Soil	OP-17	Sample Collected: USCS on-going
5-18M Operations Soil	OP-18	Sample Collected: USCS on-going
5-18M Operations Soil	OP-19	Sample Collected: USCS on-going
5-18P Anchor Trench Backfill	TB-01	USCS: Passed

GENERAL ACTIVITIES

1.0 Operations Placement - TWS began hauling operations material to the top of the north embankment. The soil was stockpiled in the Cell 9 north anchor trench and pushed down the slope over 2-3 feet of operations material with a CAT D6 dozer. CQA notified WCH, who met to decide if the placement met the intent of the contract specifications. WCH staff concluded that the placement of the operations material did not meet the intent of section 3.4.e of the contract specifications 0600X-SP-C0078 Rev 1, which states, "Operations layer material placed on the side slopes shall be pushed up from the bottom of slope."

WCH staff halted operations placement on the side slope and informed TWS to place operations material in a manner consistent with the contract specifications. TWS resumed placing operations material on the side slopes by pushing material up from the bottom of the slope consistent with section 3.4.e of 0600X-SP-C0078 Rev. 1.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-172
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Overcast: Hi: 67°F Lo: 49°F Wind: 19-mph Showers: 0.01-in

GENERAL ACTIVITIES

- 2.0 Operations Placement (Continued) - CQA held a meeting the CQA trailer with all CQA staff on-site readdressing the technicians roles, duties, and actions. In addition, the CQA engineer reviewed the approved methods of operation soil placement with the CQA staff.
- 3.0 Destructive Sampling - Cell 10 primary liner sample DP-74 was accidently thrown away by the ESI operator. ESI cut a new destructive sample DP-74A from the original weld. CQA tested and verified that the destruct met construction specifications.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geocomposite - ESI deployed twenty-five (25) panels of secondary geocomposite over the south half of the Cell 10 floor. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- 2.0 Cell 9 Sump - CQA observed TWS installing the primary riser pipes in Cell 9. TWS utilized the CAT 330 to elevate the pipes while placing them through the Crest Pad 9 stem wall. TWS placed the CAT 330 excavator on the operations soil next to the riser trench. One pipe at a time, the pipes were suspended from the CAT 330 excavator and walked down the slope to the Cell 9 sump. The 18-in primary riser pipe and the 12-in riser pipe were placed on the flat stock in the Cell 9 sump. The transducer pipe was placed next to the flat stock as per the design drawings. TWS spotters were present at all times to ensure no damage to the liner system. CQA inspected the liner following installation and found no damage to the geosynthetics.
- 3.0 Primary Geocomposite - CQA observed ESI adding zip ties to the primary geocomposite butt seams on the north slope of Cell 9 as required by CQA to meet the construction specifications. ESI then leistered patches over the geocomposite butt seams of the Cell 9 north slope.
- 4.0 Operation Soil - TWS continued placing operations on the north embankment of Cell 9. Soil was hauled to the toe of slope in one (1) International payhauler and two (2) Komatsu payhaules, and spread up the north slope of Cell 9 slope with the CAT 330 excavator, a CAT D6 LGP dozer, and a CAT D8 dozer. A CQA spotter was present when soils were placed over primary geomembrane on the Cell 9 slope. In addition, TWS continued placing the west haul road in Cell 9, from the center of Cell 9 south to the Cell 9 south embankment toe of slope.

In addition, TWS began pushing operations soil down the Cell 9 north slope over in-place operations soil. The soil was then spread laterally across the slope, soil cover was maintained down slope of the horizontally placed soil. The operation was stopped in the morning hours by WCH, see general activities for more information.

- 5.0 Leachate Transmission - CQA observed BMWC assembling the leachate piping in Cell 9 and 10 crest pad buildings.
- 6.0 Tank 4 - CQA observed TWS stripping the concrete forms from the Tank 4 ring wall.


ENVIROTECH - CQA

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-173
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Overcast: Hi: 70°F Lo: 51°F Wind: 13-mph

FIELD NOTEBOOKS			
Joe Voss Book 2	Pages: 126-127	Luke Hay Book 3	Pages: 33-34
James Schut Book 2	Pages: 72-74	Tyler Williams Book 3	Pages: 110-112
Ryan Swenson Book 1	Pages: 63-65		

LABORATORY TESTING		
5-18M Operations Soil	OP-5	USCS and Proctor on-going
5-18M Operations Soil	OP-6	USCS: Passed
5-18M Operations Soil	OP-7	USCS: Passed
5-18M Operations Soil	OP-8	USCS: Passed
5-18M Operations Soil	OP-9	USCS: Passed
5-18M Operations Soil	OP-10	USCS and Proctor on-going
5-18M Operations Soil	OP-11	USCS: Passed
5-18M Operations Soil	OP-12	USCS on-going
5-18M Operations Soil	OP-13	USCS on-going
5-18M Operations Soil	OP-14	USCS on-going
5-18M Operations Soil	OP-15	USCS and Proctor on-going
5-18M Operations Soil	OP-16	USCS on-going
5-18M Operations Soil	OP-17	USCS on-going
5-18M Operations Soil	OP-18	USCS on-going
5-18M Operations Soil	OP-19	USCS on-going
5-18M Operations Soil	OP-20	Sample Collected: USCS on-going
5-18M Operations Soil	OP-21	Sample Collected: USCS on-going
5-18M Operations Soil	OP-22	Sample Collected: USCS on-going
5-18M Operations Soil	OP-23	Sample Collected: USCS on-going
5-18M Operations Soil	OP-24	Sample Collected: USCS on-going

CONSTRUCTION ACTIVITIES
<p>1.0 <u>Secondary Geocomposite</u> – ESI deployed nineteen (19) panels of secondary geocomposite over the south half of the Cell 10 floor and south slope. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.</p> <p>2.0 <u>Drainage Gravel</u> – CQA observed TWS placing Type A drainage gravel directly south of the Cell 9 sump over the 12-in leachate collection pipe in Cell 9. CQA observed TWS utilizing a CAT 312 excavator to place and grade the 1-ft drainage gravel berm over the leachate collection pipe with the aid of the TWS surveyor. After the drainage gravel was placed, the CQA surveyor verified the gravel thickness.</p>



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-173
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	7	Weather:
			Friday, October 8, 2010
			Overcast: Hi: 70°F Lo: 51°F
			Wind: 13-mph

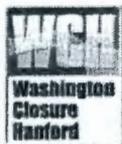
CONSTRUCTION ACTIVITIES

- 3.0 Operation Soil - TWS hauled no operations soil into the construction area. CQA observed TWS spreading the operations soil from the Cell 9 center haul road and the Cell 9 north haul road across Cell 9. TWS utilized two (2) CAT D6 LGP GPS dozers and one (1) CAT D8 dozer to spread, grade, and compact the operations soil to a thickness of 3-ft. TWS has completed spreading operations soil on approximately 60% of the Cell 9 floor.
- 4.0 Tank 4 - CQA observed TWS stripping the last of the concrete forms from around Tank #4 ring wall in preparation for backfill.

ENVIROTECH - CQA

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-174
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	1	Weather:
			Overcast: Hi: 64°F Lo: 51°F Wind: 18-mph Lt. Rain: 0.09-in

FIELD NOTEBOOKS

Tyler Williams Book 3	Pages: 113-114	
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LABORATORY TESTING

5-18M Operations Soil	OP-5	USCS and Proctor on-going
5-18M Operations Soil	OP-10	USCS and Proctor on-going
5-18M Operations Soil	OP-12	USCS on-going
5-18M Operations Soil	OP-13	USCS on-going
5-18M Operations Soil	OP-14	USCS on-going
5-18M Operations Soil	OP-15	USCS and Proctor on-going
5-18M Operations Soil	OP-16	USCS on-going
5-18M Operations Soil	OP-17	USCS on-going
5-18M Operations Soil	OP-18	USCS on-going
5-18M Operations Soil	OP-19	USCS on-going
5-18M Operations Soil	OP-20	USCS on-going
5-18M Operations Soil	OP-21	USCS on-going
5-18M Operations Soil	OP-22	USCS on-going
5-18M Operations Soil	OP-23	USCS on-going
5-18M Operations Soil	OP-24	USCS on-going

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geocomposite –CQA witnessed ESI joining the geocomposite on the Cell 10 floor together with plastic zip ties as per construction specifications.
- 2.0 Cell 10 Sump – CQA witnessed ESI deployed one (1) roll of 100-mil geomembrane in the Cell 10 sump. The geomembrane was placed and then double wedge fusion welded together. The 100-mil geomembrane was not attached or welded to the underlying 60-mil geomembrane. After the 100-mil geomembrane deployment was completed, ESI deployed 16 oz. geotextile in the Cell 10 sump. The geotextile was deployed from partially deployed rolls left rolled up next to the Cell 10 sump. After the geotextile was deployed in the Cell 10 sump, ESI used excess 16 oz. geotextile to deploy the double layer of 16 oz. fabric in the center of the Cell 10 sump floor as per design drawings.
- 3.0 8 oz. Geotextile – CQA observed ESI placing partial rolls of 8oz. geotextile over the leachate collection pipe berm and primary drainage gravel directly south of the Cell 9 sump.
- 4.0 Operations Soil – CQA observed TWS utilizing a CAT D6 LGP dozer to construction an access road of operations soil from the Cell 10 north operations road to the Cell 10 sump.

ENVIROTECH – CQA

10/14/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-175
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Pt. Cloudy: Hi:66 °F Lo: 41°F Wind: 26-mph

FIELD NOTEBOOKS			
Joe Voss Book 2	Pages: 128-129	Tyler Williams Book 3	Pages: 115-117
James Schut Book 2	Pages: 75-77	Ryan Swenson Book 1	Page: 66

FIELD TESTING			
Submittal 5-18B: Tank #4 Ring wall	Lifts: 1-5	T4-24 to T4-33	Passed

CQA HOLD POINTS		
Submittal 5-18R-101 Cell 10 Primary Subgrade	October 11, 2010	Panels: P-54 to P-62

LABORATORY TESTING		
5-18M Operations Soil	OP-5	USCS and Proctor on-going
5-18M Operations Soil	OP-10	USCS and Proctor on-going
5-18M Operations Soil	OP-12	USCS: Passed
5-18M Operations Soil	OP-13	USCS: Passed
5-18M Operations Soil	OP-14	USCS: Passed
5-18M Operations Soil	OP-15	USCS and Proctor on-going
5-18M Operations Soil	OP-16	USCS: Passed
5-18M Operations Soil	OP-17	USCS: Passed
5-18M Operations Soil	OP-18	USCS: Passed
5-18M Operations Soil	OP-19	USCS: Passed
5-18M Operations Soil	OP-20	USCS and Proctor on-going
5-18M Operations Soil	OP-21	USCS on-going
5-18M Operations Soil	OP-22	USCS on-going
5-18M Operations Soil	OP-23	USCS on-going
5-18M Operations Soil	OP-24	USCS on-going
5-18M Operations Soil	OP-25	Sample Collected: USCS and Proctor on-going
5-18M Operations Soil	OP-26	Sample Collected: USCS on-going
5-18M Operations Soil	OP-27	Sample Collected: USCS on-going
5-18M Operations Soil	OP-28	Sample Collected: USCS on-going
5-18M Operations Soil	OP-29	Sample Collected: USCS on-going
5-18M Operations Soil	OP-30	Sample Collected: USCS and Proctor on-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-175
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Pt. Cloudy: Hi:66 °F Lo: 41°F Wind: 26-mph

GENERAL ACTIVITIES

- 1.0 Primary Geomembrane - CQA notified WCH that ESI was continuing to deploy primary geomembrane in a check board pattern across the Cell 10 floor. WCH responded that the deployment pattern was acceptable.
- 2.0 Cell 9 Sump - CQA informed the WCH engineer, Tim Wintel, that TWS could not secure the riser pipes to the flat stock in the Cell 9 sump as per specifications due to the deflection in the Cell 9 riser pipes. The WCH engineer indicated that he was aware of the situation and would only require TWS to secure the pipe to the best of their ability.

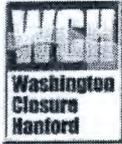
CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geocomposite - CQA witnessed ESI completing the joining the geocomposite on the Cell 10 floor and side slopes. The geocomposite was joined together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- 2.0 Primary Geocomposite - CQA observed ESI completing the joining of the primary geocomposite on the north slope by the rain flap. ESI joined the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- 3.0 Primary Geomembrane - CQA observed ESI deploying eight (8) panels of primary geomembrane on the south floor of Cell 10. Panels P-54 to P-62 were deployed from the east termination and pulled across Cell 10 with a track bobcat. ESI continued deploying panels in a checkerboard fashion across Cell 10. After the panels were deployed, ESI utilized two (2) double wedge fusion welders to weld the panels together.
- 4.0 Cell 9 Sump - CQA observed TWS strapping the riser pipes to the flat stock in the Cell 9 sump. Due to the deflection in the riser pipe, TWS was only able to place two (2) clamps on the 18-in riser pipe; however, TWS was able to place all four (4) clamps on the 12-in riser pipe. CQA observed TWS placing Type B drainage gravel into the east half of the Cell 9 sump over the Cell 9 primary riser pipes. CQA observed TWS utilizing a CAT 312 excavator to place and grade Type B drainage gravel with the aid of the TWS surveyor. CQA observed two (2) laborers haunching the drainage gravel under the Cell 9 primary riser pipes.
- 5.0 Operation Soil - TWS built a ramp from the north haul road to the Cell 9 sump. Soil was hauled into Cell 9 by one (1) Komatsu payhauler and placed to the edge of the Cell 9 sump with a CAT D8 dozer.

TWS continued spreading operations on the Cell 9 floor. The soil was spread across the floor of Cell 9 in a 3-ft high lift with the two (2) CAT D6 dozers and the CAT D8 dozer. By the end of the day, approximately 70% of the cell floor was covered with operations material.
- 6.0 Tank 4 - CQA observed TWS placing five (5) lifts of backfill around the Tank 4 ring wall with a CAT 325 excavator. The fill was moisture conditioned and compacted with two (2) jumping jack hand compactors. CQA tested and verified that lifts 1-5 met compaction specifications.
- 7.0 Cell 10 Crest Pad - CQA observed BMWC installing the Cell 10 secondary leachate collection pumps and discharge piping in the Cell 10 Crest Pad building.

ENVIROTECH - CQA

10/19/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-176
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Pt. Cloudy: Hi: 65°F Lo: 33°F Wind: 8-mph

FIELD NOTEBOOKS			
Joe Voss Book 2	Pages: 130-132	Tyler Williams Book 3	Pages: 118-120
James Schut Book 2	Pages: 78-79	Ryan Swenson Book 1	Pages: 67-70

FIELD TESTING			
Submittal 5-18B: Tank #4 Ring wall	Lift: 6	T4-34 to T4-35	Passed

CQA HOLD POINTS		
Submittal 5-18R-102 Cell 10 Primary Subgrade	October 12, 2010	Panels: P-63 to P-77

LABORATORY TESTING		
5-18M Operations Soil	OP-5	USCS and Proctor: Passed
5-18M Operations Soil	OP-10	USCS and Proctor: Passed
5-18M Operations Soil	OP-15	USCS and Proctor: Passed
5-18M Operations Soil	OP-20	USCS and Proctor on-going
5-18M Operations Soil	OP-21	USCS on-going
5-18M Operations Soil	OP-22	USCS on-going
5-18M Operations Soil	OP-23	USCS on-going
5-18M Operations Soil	OP-24	USCS on-going
5-18M Operations Soil	OP-25	USCS and Proctor on-going
5-18M Operations Soil	OP-26	USCS on-going
5-18M Operations Soil	OP-27	USCS on-going
5-18M Operations Soil	OP-28	USCS on-going
5-18M Operations Soil	OP-29	USCS on-going
5-18M Operations Soil	OP-30	USCS and Proctor on-going
5-18M Operations Soil	OP-31	Sample Collected: USCS on-going
5-18M Operations Soil	OP-32	Sample Collected: USCS on-going
5-18M Operations Soil	OP-33	Sample Collected: USCS on-going
5-18M Operations Soil	OP-34	Sample Collected: USCS on-going
5-18M Operations Soil	OP-35	Sample Collected: USCS and Proctor on-going
5-18M Operations Soil	OP-36	Sample Collected: USCS on-going
5-18M Operations Soil	OP-37	Sample Collected: USCS on-going
5-18M Operations Soil	OP-38	Sample Collected: USCS on-going
5-18M Operations Soil	OP-39	Sample Collected: USCS on-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-176
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Pt. Cloudy: Hi: 65°F Lo: 33°F Wind: 8-mph

GENERAL ACTIVITIES

- 1.0 Primary Geomembrane – CQA notified WCH that ESI was continuing to deploy primary geomembrane in a check board pattern across the Cell 10 floor. WCH responded that the deployment pattern was acceptable.
- 2.0 Weekly Progress Meeting – The construction subcontractor’s weekly progress meeting on Tuesday, October 5th, 2010 at 10:00 am. in the meeting trailer.
- 3.0 CQA Weekly Progress Meeting – CQA attended the CQA subcontractor’s weekly progress meeting on Tuesday, October 21st, 2010 at 10:15 am in the meeting trailer.
- 4.0 Cell 9 Primary Riser Pipe Trench – WCH called a stop work on the Cell 9 riser trench backfill. A disagreement on the compaction of the Cell 9 riser trench occurred between CQA, TWS and WCH. The specification on the riser backfill is unclear, requiring 8-in lifts; however, the primary riser pipe is 18-in in height and it is difficult to impossible to compact in the confined space on a 3:1 slope. In addition, the pipe should be protected as in the utility trench specification, or no compaction within 1-ft over the riser pipe. The pipe trench is 2.5-ft deep and the pipe is 18-in. As such, CQA discussion with WCH and TWS has indicated that only 1 lift is required. CQA checked with Cells 7&8 construction, and discovered this was the method employed on the previous Cells as well.
- 5.0 CQA SDDR-06 – CQA was given verbal confirmation that CQA SDDR-06 was approved. The SDDR requested a lifting of the compaction testing on the anchor trenches, as the placement is a method specification, not an end compaction specification.

CONSTRUCTION ACTIVITIES

- 1.0 Secondary Geocomposite – CQA observed ESI peeling back the primary geomembrane on the Cell 10 floor in order to walk out a wrinkle in the secondary geocomposite. After the wrinkle was walked to the edge, the primary geomembrane was replaced.
- 2.0 Primary Geomembrane – CQA observed ESI deploying fifteen (15) panels of primary geomembrane on the south floor of Cell 10. Panels P-63 to P-77 were deployed from the east termination and pulled across Cell 10 with a track bobcat. ESI continued deploying panels in a checkerboard fashion across Cell 10. After the panels were deployed, ESI utilized three (3) double wedge fusion welders to weld the panels together.

The CQA surveyor was on-site to capture the primary liner as-built.
- 3.0 Cell 9 Sump – CQA observed TWS fine grading the Type B drainage gravel in the Cell 9 sump with the CAT 312 excavator aided by the TWS surveyor. After the gravel was graded, the CQA surveyor, Stratton Survey, verified that the gravel met the design drawings.

After CQA approved the gravel placement, ESI deployed one (1) roll of 8 oz. geotextile over the Type B drainage gravel in the Cell 9 sump. The geotextile was sewn together and leistered to the primary geocomposite on the Cell 9 slope.



CQA DAILY CONSTRUCTION REPORT

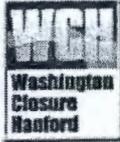
Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-176
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Pt. Cloudy: Hi: 65°F Lo: 33°F Wind: 8-mph

CONSTRUCTION ACTIVITIES

- 4.0 Cell 10 Sump – CQA observed TWS utilizing the CAT 312 excavator to place and spread the Type B drainage gravel into the Cell 9 sump aided by the TWS surveyor. The gravel was placed on the west side of the sump, to allow TWS access to the riser pipes for installation. The CQA surveyor was on-site to verify that the gravel met the design drawings.
- 5.0 Operation Soil – TWS continued spreading operations on the Cell 10 floor. The soil was spread across the floor of Cell 9 in a 3-ft high lift with the two (2) CAT D6 dozers and the CAT D8 dozer. By the end of the day, approximately 80% of the cell floor was covered with operations material.
- CQA also observed TWS placing operations soil up the Cell 9 slope. TWS placed operations soil with the two (2) CAT D6 dozers and the CAT D8 dozer from the floor of Cell 9 up the slope in a 3-ft high minimum lift. At the end of the day, approximately 60% of the north slope was covered with operations material.
- In addition, TWS placed riser pipe backfill up the riser trench in Cell 9 with a CAT D8 dozer. The soil was placed in one (1) lift 1-ft above the primary 18-in riser pipe. The backfill was halted half-way up the slope due to a stop work called by WCH. See General Activities for more information.
- 6.0 Tank 4 – CQA observed TWS placing one (1) lift of backfill around the Tank 4 ring wall with a CAT 330 excavator. The fill was moisture conditioned and compacted with two (2) jumping jack hand compactors. CQA tested and verified that lift 6 (6) met compaction specifications. The backfill around the ring wall was completed.
- 7.0 Cell 10 Crest Pad – CQA observed BMWC connecting the Cell 10 head works piping in the Cell 10 Crest Pad building.
- 8.0 Anchor Trench – CQA observed ESI backfilling the Cell 9 anchor trench west of the crest pad building. TWS used the Hitachi 200 to place 6 lifts of backfill into the anchor trench. Each lift was moisture conditioned and compacted with the CAT 312 excavator with attached hoe-pack.

ENVIROTECH – CQA

10/13/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-177
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear: Hi: 67°F Lo: 37°F Wind: 12-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 133-134	Tyler Williams Book 3	Pages: 121-123
James Schut Book 2	Pages: 80-83	Ryan Swenson Book 1	Pages: 71-73

FIELD TESTING

Submittal 5-18Q: Cell 9 Primary Riser	Lift: 1	RT9-04	Passed
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CQA HOLD POINTS

Submittal 5-18R-103 Cell 10 Primary Subgrade	October 13, 2010	Panels: P-78 to P-83
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LABORATORY TESTING

5-18M Operations Soil	OP-20	USCS and Proctor on-going
5-18M Operations Soil	OP-21	USCS on-going
5-18M Operations Soil	OP-22	USCS on-going
5-18M Operations Soil	OP-23	USCS on-going
5-18M Operations Soil	OP-24	USCS on-going
5-18M Operations Soil	OP-25	USCS and Proctor on-going
5-18M Operations Soil	OP-26	USCS on-going
5-18M Operations Soil	OP-27	USCS on-going
5-18M Operations Soil	OP-28	USCS on-going
5-18M Operations Soil	OP-29	USCS on-going
5-18M Operations Soil	OP-30	USCS and Proctor on-going
5-18M Operations Soil	OP-31	USCS on-going
5-18M Operations Soil	OP-32	USCS on-going
5-18M Operations Soil	OP-33	USCS on-going
5-18M Operations Soil	OP-34	USCS on-going
5-18M Operations Soil	OP-35	USCS and Proctor on-going
5-18M Operations Soil	OP-36	USCS on-going
5-18M Operations Soil	OP-37	USCS on-going
5-18M Operations Soil	OP-38	USCS on-going
5-18M Operations Soil	OP-39	USCS on-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-177
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear: Hi: 67°F Lo: 37°F Wind: 12-mph

CONSTRUCTION ACTIVITIES

- 1.0 Primary Geomembrane – CQA observed ESI deploying six (6) panels of primary geomembrane on the south slope and floor of Cell 10. Panels P-78 to P-83 were deployed from the top of the south slope over a rub sheet. The panels were walked to the toe and pulled out over the floor with a track bobcat. After the panels were deployed, ESI utilized three (3) double wedge fusion welders to weld the panels together.

ESI performed repairs and conducted non-destructive testing on deployed primary geomembrane panels P-78 to P-83 on the floor of Cell 10. In addition, ESI extrusion welded the primary to primary tie-in located on the crest between Cells 10 and 11 in the location of the north haul road.
- 2.0 Cell 9 Sump – CQA observed TWS fine grading the Type B drainage gravel in the Cell 9 sump with the CAT 312 excavator aided by the TWS surveyor. After the gravel was graded, the CQA surveyor, Stratton Survey, verified that the gravel met the design drawings.

After CQA approved the gravel placement, ESI deployed one (1) roll of 8 oz. geotextile over the Type B drainage gravel in the Cell 9 sump. The geotextile was sewn together and leistered to the primary geocomposite on the Cell 9 slope.
- 3.0 Cell 10 Sump – CQA observed ESI placing the flat stock into the Cell 10 sump. CQA also observed ESI deploying a partial roll of geotextile over the Type B drainage gravel on the west side of the Cell 10 sump.
- 4.0 Operation Soil – TWS hauled and spread operations soil in Cells 9 and 10. TWS hauled soil to the north toe of slope in Cell 9 and 10. TWS utilized the CAT D8 dozer and two (2) CAT D6 dozers to spread the operations soil up the Cell 9 slope in a continuous 3-ft high lift. By the end of the day, approximately 90% of the north slope of Cell 9 was covered with operations material. TWS also used the CAT D6 dozer to place a 7-ft high operations soil road up the north slope of Cell 10 adjacent to the east of the riser trench. After the slope placement was completed, the dozer began to spread operations soil on the south floor of Cell 9 in a 3-ft high lift. At the end of the day, approximately 90% of the Cell 9 floor was covered with operations material.
- 5.0 Cell 9 Riser Trench –TWS placed the remaining riser pipe backfill up the riser trench in Cell 9 with a CAT D6 dozer. The pipe backfill was moisture conditioned by a laborer with a water hose and compacted with the CAT 312 excavator with attached hoe-pack. CQA tested and verified that the compaction met construction specifications.
- 6.0 Cell 10 Crest Pad – CQA observed BMWC connecting the Cell 10 head works piping in the Cell 10 Crest Pad building.
- 7.0 Anchor Trench – CQA observed ESI backfilling the Cell 9 and 10 anchor trench. TWS backfilled the air release points in the anchor trench in Cell 9. In addition, TWS backfilled the anchor trench to the east of the Cell 10 crest pad building, leaving air release points exposed in the anchor trench. TWS used the Hitachi 200 to place 5-6 lifts of backfill into the anchor trench. Each lift was moisture conditioned and compacted with the CAT 312 excavator with attached hoe-pack.

ENVIROTECH – CQA

10/19/10
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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-178
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear: Hi: 68°F Lo: 35°F Wind: 17-mph

FIELD NOTEBOOKS			
Joe Voss Book 2	Pages: 135-138	Tyler Williams Book 3	Pages: 124-126
James Schut Book 2	Pages: 84-88	Ryan Swenson Book 1	Pages: 71-73

FIELD TESTING			
Submittal 5-18B: Manhole 36 Fill	Lifts: 5-8	MH36-07 to MH36-10	Passed

CQA HOLD POINTS		
Submittal 5-18R-104 Cell 10 Primary Subgrade	October 14, 2010	Panels: P-84 to P-91

LABORATORY TESTING		
5-18M Operations Soil	OP-20	USCS and Proctor on-going
5-18M Operations Soil	OP-21	USCS on-going
5-18M Operations Soil	OP-22	USCS on-going
5-18M Operations Soil	OP-23	USCS on-going
5-18M Operations Soil	OP-24	USCS on-going
5-18M Operations Soil	OP-25	USCS and Proctor on-going
5-18M Operations Soil	OP-26	USCS on-going
5-18M Operations Soil	OP-27	USCS on-going
5-18M Operations Soil	OP-28	USCS on-going
5-18M Operations Soil	OP-29	USCS on-going
5-18M Operations Soil	OP-30	USCS and Proctor on-going
5-18M Operations Soil	OP-31	USCS on-going
5-18M Operations Soil	OP-32	USCS on-going
5-18M Operations Soil	OP-33	USCS on-going
5-18M Operations Soil	OP-34	USCS on-going
5-18M Operations Soil	OP-35	USCS and Proctor on-going
5-18M Operations Soil	OP-36	USCS on-going
5-18M Operations Soil	OP-37	USCS on-going
5-18M Operations Soil	OP-38	USCS on-going
5-18M Operations Soil	OP-39	USCS on-going

GENERAL ACTIVITIES
<p>1.0 <u>Operations Cover</u> – During placement of the riser pipes in Cell 10, CQA and WCH noted that less than 3-ft of operations cover was present west of the riser trench at the Cell 10 shoulder. Initially the correct amount of cover was present, but due to the displacement of material from the CAT 330 excavator, the cover was reduced below 3-ft. TWS corrected the situation by placing additional operations material in the non-conforming location.</p>



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-178
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Clear: Hi: 68°F Lo: 35°F Wind: 17-mph

CONSTRUCTION ACTIVITIES

- 1.0 Primary Geomembrane – CQA observed ESI deploying eight (8) panels of primary geomembrane on the south slope and floor of Cell 10. Panels P-84 to P-91 were deployed from the top of the south slope over a rub sheet. The panels were walked to the toe and pulled out over the floor with a track bobcat. After the panels were deployed, ESI utilized two (2) double wedge fusion welders to weld the panels together.

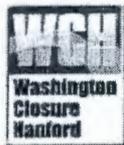
ESI performed repairs and conducted non-destructive testing on deployed primary geomembrane panels on the south half of the Cell 10 floor.
- 2.0 Cell 10 Sump – CQA observed TWS utilizing the CAT 330 excavator to place the primary riser pipe through the stem wall in the Cell 10 crest pad building and down the Cell 10 riser trench to the sump. The pipes were inserted into the opening in the stem wall and hoisted down the slope with the CAT 330 aided by TWS laborers. The pipes were placed on the flat stock in the Cell 10 sump as per design drawings. The 12-in pipe was placed though the sump and connected to the leachate collection pipe in Cell 10. The pipe coupler connecting the leachate collection pipe to the riser pipe did not reach the required temperature for fusion welding; BMWC will address at a later date.
- 3.0 Operation Soil – TWS hauled and spread operations soil in Cells 9 and 10. TWS hauled soil to the north toe of slope in Cell 9 and 10. TWS utilized the CAT D8 dozer to spread a road west and south across Cell 9, while two (2) CAT D6 dozers to spread the operations soil up the Cell 9 slope in a continuous 3-ft high lift. By the end of the day, approximately 90% of the north slope of Cell 9 was covered with operations material. After the slope placement was completed, the dozer began to spread operations soil on the south floor of Cell 9 in a 3-ft high lift. At the end of the day, approximately 95% of the Cell 9 floor was covered with operations material.
- 4.0 Leachate Transmission – CQA observed TWS placing and compacting four (4) lifts of backfill around manhole #36. The fill was placed with the CAT 330 excavator, moisture conditioned, and compacted with a jumping jack hand compactor. CQA tested and verified that lifts 5-8 of the manhole #36 backfill met compaction specifications.
- 5.0 Cell 10 Crest Pad – CQA observed BMWC connecting the Cell 10 head works piping in the Cell 10 Crest Pad building.
- 6.0 Anchor Trench – CQA observed ESI backfilling the Cell 9 and 10 anchor trench. TWS backfilled the air release points in the anchor trench in Cell 9. In addition, TWS backfilled the anchor trench to the east of the Cell 10 crest pad building, leaving air release points exposed in the anchor trench. TWS used the Hitachi 200 to place 5-6 lifts of backfill into the anchor trench. Each lift was moisture conditioned and compacted with the CAT 312 excavator with attached hoe-pack.

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-179
Job Number:	S013213A00	Staff On-site:	6
Contractor(s):	TradeWind Services	Date:	Friday, October 15, 2010
		Weather:	Clear: Hi: 64°F Lo: 39°F Wind: 26-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Page: 139	Tyler Williams Book 3	Pages: 127-128
James Schut Book 2	Pages: 89-90	Ryan Swenson Book 1	Pages: 74-76
Jamison Marsh Book 1	Pages: 1-4		

LABORATORY TESTING

5-18M Operations Soil	OP-20	USCS and Proctor on-going
5-18M Operations Soil	OP-21	USCS: Passed
5-18M Operations Soil	OP-22	USCS: Passed
5-18M Operations Soil	OP-23	USCS: Passed
5-18M Operations Soil	OP-24	USCS: Passed
5-18M Operations Soil	OP-25	USCS and Proctor on-going
5-18M Operations Soil	OP-26	USCS on-going
5-18M Operations Soil	OP-27	USCS on-going
5-18M Operations Soil	OP-28	USCS on-going
5-18M Operations Soil	OP-29	USCS on-going
5-18M Operations Soil	OP-30	USCS and Proctor on-going
5-18M Operations Soil	OP-31	USCS on-going
5-18M Operations Soil	OP-32	USCS on-going
5-18M Operations Soil	OP-33	USCS on-going
5-18M Operations Soil	OP-34	USCS on-going
5-18M Operations Soil	OP-35	USCS and Proctor on-going
5-18M Operations Soil	OP-36	USCS on-going
5-18M Operations Soil	OP-37	USCS on-going
5-18M Operations Soil	OP-38	USCS on-going
5-18M Operations Soil	OP-39	USCS on-going
5-18M Operations Soil	OP-40	Sample Collected: USCS and Proctor on-going
5-18M Operations Soil	OP-41	Sample Collected: USCS on-going
5-18M Operations Soil	OP-42	Sample Collected: USCS on-going
5-18M Operations Soil	OP-43	Sample Collected: USCS on-going
5-18M Operations Soil	OP-44	Sample Collected: USCS on-going

GENERAL ACTIVITIES

1.0 Geomembrane Trail Welds – CQA discovered ESI had changed extrusion welders on Thursday, October 14th 2010 and did not perform a new trial weld. CQA informed TWS and WCH of the deficiency and collected a destructive sample of the new extrusion welder. The destructive sample was tested and met construction specifications.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-179
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Clear: Hi: 64°F Lo: 39°F Wind: 26-mph

GENERAL ACTIVITIES

- 2.0 Operations Soil – TWS began placing operations soil on the Cell 9 and 10 slopes in a 1.5-ft high lift with the CAT D6 dozers in order minimize UV exposure to the primary geomembrane.
- 3.0 Leachate Collection Pipe – Overnight, the 12-in primary leachate riser pipe pulled out of the coupler to the 12-in leachate collection pipe in Cell 10 due to the contraction of the riser pipe. BMWC refitted and electro-fusion welded the riser pipe to the collection pipe.

CONSTRUCTION ACTIVITIES

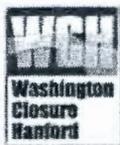
- 1.0 Primary Geomembrane - CQA observed ESI performing repairs and conducted non-destructive testing on deployed primary geomembrane panels P58 to P-77 on the south half of the Cell 10 floor. The CQA surveyor, Stratton Surveying, was on-site to capture the primary liner survey of Cell 10.
- 2.0 Primary Geocomposite – ESI deployed six (6) panels of primary geocomposite over the south berm of Cell 10. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together and leistering patches over the butt seams.
- 3.0 Primary Geotextile – After CQA verified that all testing was CQA observed ESI deploying twenty-six (26) rolls of 16 oz. geotextile over approved primary geomembrane on the Cell 10 floor. After ESI placed and unrolled the panels by hand, the 16 oz. geotextile was sewn together as per specifications.
- 4.0 Cell 10 Sump – CQA observed TWS placing and Type B drainage gravel into the Cell 10 primary sump. The gravel was hauled in a payhauler to the Cell 10 sump over 7-ft high operations roads. The Type B gravel was placed into the Cell 9 sump and graded with a CAT 330 excavator aided by the TWS surveyor. The CQA surveyor was on-site to verify the grade and thickness of the Type B drainage gravel in the Cell 10 sump.
- 5.0 Operation Soil – TWS hauled and spread operations soil in Cells 9 and 10. TWS hauled soil to the north toe of slope in Cell 9 and 10. TWS utilized the CAT D8 dozer to spread a road south across Cell 9, while two (2) CAT D6 dozers to spread the operations soil up the Cell 9 and 10 slope in a continuous 1.5-ft high lift. By the end of the day 100% of the north slope of Cell 9 and 15% of Cell 10 was covered with operations material. Approximately 95% of the Cell 9 floor was covered with operations material.

ENVIROTECH – CQA

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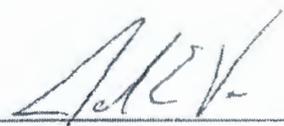
CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-180
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	2	Weather:
			Clear: Hi: 63°F Lo: 36°F
			Wind: 12-mph

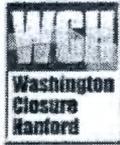
FIELD NOTEBOOKS			
Tyler Williams Book 3	Pages: 129-130	James Schut Book 2	Page: 91

LABORATORY TESTING		
5-18M Operations Soil	OP-20	USCS and Proctor on-going
5-18M Operations Soil	OP-25	USCS and Proctor on-going
5-18M Operations Soil	OP-26	USCS on-going
5-18M Operations Soil	OP-27	USCS on-going
5-18M Operations Soil	OP-28	USCS on-going
5-18M Operations Soil	OP-29	USCS on-going
5-18M Operations Soil	OP-30	USCS and Proctor on-going
5-18M Operations Soil	OP-31	USCS on-going
5-18M Operations Soil	OP-32	USCS on-going
5-18M Operations Soil	OP-33	USCS on-going
5-18M Operations Soil	OP-34	USCS on-going
5-18M Operations Soil	OP-35	USCS and Proctor on-going
5-18M Operations Soil	OP-36	USCS on-going
5-18M Operations Soil	OP-37	USCS on-going
5-18M Operations Soil	OP-38	USCS on-going
5-18M Operations Soil	OP-39	USCS on-going
5-18M Operations Soil	OP-40	USCS and Proctor on-going
5-18M Operations Soil	OP-41	USCS on-going
5-18M Operations Soil	OP-42	USCS on-going
5-18M Operations Soil	OP-43	USCS on-going
5-18M Operations Soil	OP-44	USCS on-going

CONSTRUCTION ACTIVITIES
<p>1.0 <u>Primary Geocomposite</u> - ESI deployed sixteen (16) panels of primary geocomposite over the south berm of Cell 10. CQA witnessed ESI joining the geocomposite together with plastic zip ties as per construction specifications. After the panels were joined, CQA observed ESI sewing the flaps together.</p> <p>2.0 <u>Primary Geotextile</u> - After CQA verified that all testing was CQA observed ESI deploying four (4) rolls of 16 oz. geotextile over approved primary geomembrane on the Cell 10 floor. After ESI placed and unrolled the panels by hand, the 16 oz. geotextile was double wedge welded together as per specifications.</p>


 ENVIROTECH - CQA

10/21/10
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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-181
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Pt. Cloudy: Hi: 65°F Lo: 31°F Wind: 10-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 140-141	Tyler Williams Book 3	Pages: 131-133
James Schut Book 2	Pages: 92-94	Ryan Swenson Book 1	Pages: 79-81
Jamison Marsh Book 1	Pages: 1-4	Luke Hay Book 3	Pages: 39-41

CQA HOLD POINTS

Submittal 5-18R-105 Cell 10 Primary Subgrade	October 18, 2010	Panels: P-92 to P-101
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LABORATORY TESTING

5-18M Operations Soil	OP-20	USCS and Proctor on-going
5-18M Operations Soil	OP-25	USCS and Proctor on-going
5-18M Operations Soil	OP-26	USCS: Passed
5-18M Operations Soil	OP-27	USCS: Passed
5-18M Operations Soil	OP-28	USCS: Passed
5-18M Operations Soil	OP-29	USCS: Passed
5-18M Operations Soil	OP-30	USCS and Proctor: Passed
5-18M Operations Soil	OP-31	USCS: Passed
5-18M Operations Soil	OP-32	USCS: Passed
5-18M Operations Soil	OP-33	USCS on-going
5-18M Operations Soil	OP-34	USCS on-going
5-18M Operations Soil	OP-35	USCS and Proctor on-going
5-18M Operations Soil	OP-36	USCS on-going
5-18M Operations Soil	OP-37	USCS on-going
5-18M Operations Soil	OP-38	USCS on-going
5-18M Operations Soil	OP-39	USCS on-going
5-18M Operations Soil	OP-40	USCS and Proctor on-going
5-18M Operations Soil	OP-41	USCS on-going
5-18M Operations Soil	OP-42	USCS on-going
5-18M Operations Soil	OP-43	USCS on-going
5-18M Operations Soil	OP-44	Sample Collected: USCS on-going
5-18M Operations Soil	OP-45	Sample Collected: USCS and Proctor on-going
5-18M Operations Soil	OP-46	Sample Collected: USCS on-going
5-18M Operations Soil	OP-47	Sample Collected: USCS on-going
5-18M Operations Soil	OP-48	Sample Collected: USCS on-going
5-18M Operations Soil	OP-49	Sample Collected: USCS on-going
5-18M Operations Soil	OP-50	Sample Collected: USCS and Proctor on-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-181
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	6	Weather:
			Pt. Cloudy; Hi: 65°F Lo: 31°F Wind: 10-mph

CONSTRUCTION ACTIVITIES

1.0 Primary Geomembrane – CQA observed ESI deploying ten (10) panels of primary geomembrane on the south slope and floor of Cell 10. Panels P-92 to P-101 were deployed from the top of the south slope over a rub sheet. The panels were walked to the toe and pulled out over the floor with a track bobcat. After the panels were deployed, ESI utilized three (3) double wedge fusion welders to weld the panels together.

ESI performed repairs and conducted non-destructive testing on deployed primary geomembrane panels on the south half of the Cell 10 floor.

2.0 Cell 10 Sump – TWS deployed and ESI sewed one (1) roll of 8 oz. geotextile over the drainage gravel. The geotextile was leistered to the primary geocomposite on the north slope.

In addition, BMWC completed welding the 12-in leachate collection pipe to the 12-in riser pipe south of the Cell 10 sump that was started Thursday, October 19, 2010. After the pipe was fused, TWS utilized the CAT 312 excavator aided by the TWS surveyor to fill and grade the Type A drainage gravel over the pipe.

3.0 Operation Soil – TWS hauled and spread operations soil in Cells 9 and 10. TWS hauled soil to the north toe of slope in Cell 9 and 10. TWS utilized the CAT D8 dozer to stockpile soil at the bottom of the Cell 10 slope, while two (2) CAT D6 dozers to spread the operations soil up the Cell 10 slope in a continuous 1.5-ft high lift. By the end of the day 100% of the north slope of Cell 9 and 40% of Cell 10 was covered with operations material. Approximately 95% of the Cell 9 floor was covered with operations material.


ENVIROTECH – CQA

10/21/10
DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-182
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	8	Weather:
			Pt. Cloudy: Hi: 66°F Lo: 31°F Wind: 9-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 142-145	Tyler Williams Book 3	Pages: 134-137
James Schut Book 2	Pages: 95-98	Ryan Swenson Book 1	Page: 82
Jamison Marsh Book 1	Pages: 10-12	Luke Hay Book 3	Pages: 42-44

FIELD TESTING

Submittal 5-18B: Manhole 36 Fill	Lifts: 9-13	MH36-11 to MH36-15	Passed
Submittal 5-18Q: Cell 10 Primary Riser	Lift: 1	RT10-03	Passed

CQA HOLD POINTS

Submittal 5-18R-106 Cell 10 Primary Subgrade	October 19, 2010	Panels: P-102
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LABORATORY TESTING

5-18M Operations Soil	OP-20	USCS and Proctor: Passed
5-18M Operations Soil	OP-25	USCS and Proctor: Passed
5-18M Operations Soil	OP-33	USCS: Passed
5-18M Operations Soil	OP-34	USCS: Passed
5-18M Operations Soil	OP-35	USCS and Proctor: Passed
5-18M Operations Soil	OP-36	USCS on-going
5-18M Operations Soil	OP-37	USCS on-going
5-18M Operations Soil	OP-38	USCS on-going
5-18M Operations Soil	OP-39	USCS on-going
5-18M Operations Soil	OP-40	USCS and Proctor on-going
5-18M Operations Soil	OP-41	USCS on-going
5-18M Operations Soil	OP-42	USCS on-going
5-18M Operations Soil	OP-43	USCS on-going
5-18M Operations Soil	OP-44	USCS on-going
5-18M Operations Soil	OP-45	USCS and Proctor on-going
5-18M Operations Soil	OP-46	USCS on-going
5-18M Operations Soil	OP-47	USCS on-going
5-18M Operations Soil	OP-48	USCS on-going
5-18M Operations Soil	OP-49	USCS on-going
5-18M Operations Soil	OP-50	USCS and Proctor on-going
5-18M Operations Soil	OP-51	Sample Collected: USCS on-going
5-18M Operations Soil	OP-52	Sample Collected: USCS on-going
5-18M Operations Soil	OP-53	Sample Collected: USCS on-going
5-18M Operations Soil	OP-54	Sample Collected: USCS on-going
5-18M Operations Soil	OP-55	Sample Collected: USCS and Proctor on-going



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-182
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	8	Weather:
			Pt. Cloudy; Hi: 66°F Lo:31°F Wind: 9-mph

GENERAL ACTIVITIES

- 1.0 Weekly Progress Meeting – The construction subcontractor’s weekly progress meeting on Tuesday, October 19th, 2010 at 10:00 am. in the meeting trailer.
- 2.0 CQA Weekly Progress Meeting – CQA attended the CQA subcontractor’s weekly progress meeting on Tuesday, October 19th, 2010 at 10:15 am in the meeting trailer.
- 3.0 North Anchor Trench – CQA observed that the air vent holes in the secondary-primary liner systems were not welded in the anchor trench prior to backfilling of the anchor trench. Upon notifying TWS CQC, Davé Sterly, he immediately halted operations and began discussing repair options. CQA also informed CQA STR Charlie Skiba with WCH.

CONSTRUCTION ACTIVITIES

- 1.0 Primary Geomembrane – CQA observed ESI deploying one (1) panel of primary geomembrane on south half of the Cell 10 floor, between the north-south facing panels and the east-west facing panels. Panel P-102 was deployed from the Cell 10 termination and then cut to fit the 8-ft wide opening in the liner. After the panels were deployed, ESI welded the panel into place.

ESI performed repairs and conducted non-destructive testing on deployed primary geomembrane panels on the south half of the Cell 10 floor.

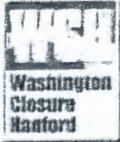
The CQA surveyor, Stratton Surveying, was on-site to capture the primary liner survey.

- 2.0 Primary Geotextile – CQA observed ESI deploying two (2) rolls of 16 oz. geotextile down the 3:1 slope on the east side of the Cell 10 floor. The geotextile was double wedge welded to the deployed geotextile on the Cell 10 floor.
- 3.0 Cell 10 Sump – CQA observed TWS utilizing the CAT 312 excavator aided by the TWS surveyor to fill and grade the Type A drainage gravel over the pipe.

After the drainage gravel was placed as per design drawings, the CQA surveyor, Stratton Survey, verified the gravel thickness.

In addition, TWS placed one (1) lift of fill over the primary riser pipes in Cell 10 with the CAT D6 LGP dozer. The soil was moisture conditioned with a water hose and compacted with the CAT 312 excavator with an attached hoe pack compactor. CQA tested and verified that lift 1 of the primary riser pipe backfill met compaction specifications.

CQA also observed ESI placing 8 oz. geotextile around the Cell 10 riser pipes in order to segregate the Type B drainage gravel from the operations soil.



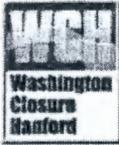
CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-182
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	8	Weather:
			Pt. Cloudy; Hi: 66°F Lo:31°F Wind: 9-mph

CONSTRUCTION ACTIVITIES

- 4.0 Operation Soil – TWS hauled and spread operations soil in Cells 9 and 10. TWS hauled soil to the north toe of slope in Cell 9 and 10. TWS utilized the CAT D8 dozer to stockpile soil at the bottom of the Cell 10 slope, while two (2) CAT D6 dozers to spread the operations soil up the Cell 10 slope in a continuous 1.5-ft high lift. By the end of the day 75% of Cell 10 was covered with operations material. Approximately 95% of the Cell 9 floor was covered with operations material.
- 5.0 Anchor Trench – CQA observed ESI backfilling the Cell 9 anchor trench. TWS backfilled the air release points in the anchor trench in Cell 9. TWS used the Hitachi 200 to place 5-6 lifts of backfill into the anchor trench. Each lift was moisture conditioned and compacted with the CAT 312 excavator with attached hoe-pack. Operations were halted mid-shift due to the air release vents not being welded prior to backfilling. See General Activities for more information.
- 6.0 Leachate Transmission – CQA observed TWS placing five (5) lifts of fill around manhole MH-36 with the CAT 330 excavator. TWS compacted lifts 9-10 with a jumping jack hand compactor and lifts 11-13 with the CAT CS 563 compactor. CQA tested and verified that lifts 9-13 met compaction specifications.


 ENVIROTECH – CQA 12-21-10
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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-183
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	9	Weather:
			Pt. Cloudy; Hi: 67°F Lo: 38°F Wind: 11-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 146-148	Tyler Williams Book 3	Pages: 138-140
James Schut Book 2	Page: 99	Luke Hay Book 3	Pages: 45-47
Jamison Marsh Book 1	Pages: 13-15		

LABORATORY TESTING

5-18M Operations Soil	OP-36	USCS: Passed
5-18M Operations Soil	OP-37	USCS on-going
5-18M Operations Soil	OP-38	USCS: Passed
5-18M Operations Soil	OP-39	USCS on-going
5-18M Operations Soil	OP-40	USCS and Proctor on-going
5-18M Operations Soil	OP-41	USCS: Passed
5-18M Operations Soil	OP-42	USCS: Passed
5-18M Operations Soil	OP-43	USCS on-going
5-18M Operations Soil	OP-44	USCS: Passed
5-18M Operations Soil	OP-45	USCS and Proctor on-going
5-18M Operations Soil	OP-46	USCS on-going
5-18M Operations Soil	OP-47	USCS on-going
5-18M Operations Soil	OP-48	USCS on-going
5-18M Operations Soil	OP-49	USCS on-going
5-18M Operations Soil	OP-50	USCS and Proctor on-going
5-18M Operations Soil	OP-51	USCS on-going
5-18M Operations Soil	OP-52	USCS on-going
5-18M Operations Soil	OP-53	USCS on-going
5-18M Operations Soil	OP-54	USCS on-going
5-18M Operations Soil	OP-55	USCS and Proctor on-going

GENERAL ACTIVITIES

- 1.0 CQA Officer Visit – The CQA officer, Rob Stallings, was on-site to inspect the Cell construction and CQA activities.
- 2.0 North Anchor Trench – TWS voluntarily decided to excavate the Cell 9 north anchor trench to uncover the vent holes in the north anchor trench. CQA observed TWS utilizing the Hitachi 200 to excavate the six (6) locations that were backfilled. When the Hitachi 200 excavator came close to the liner, the excavator was removed and two (2) TWS laborers completed the excavation with hand tools. CQA verified that the liner was not damaged during excavation.

Following the removal the anchor trench backfill, CQA witnessed ESI welding extrusion beads over the twelve (12) vent holes in the primary/secondary geomembrane. In addition, CQA witnessed ESI completing the welding on all the vent holes in the Cell 10 anchor trench.



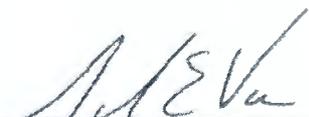
CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-183
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	9	Weather:
			Pt. Cloudy: Hi: 67°F Lo: 38°F Wind: 11-mph

CONSTRUCTION ACTIVITIES

- 1.0 Primary Geomembrane – CQA observed ESI performing repairs and conducting non-destructive testing on deployed primary geomembrane panels on the south half of the Cell 10 floor

The CQA surveyor, Stratton Surveying, was on-site to capture the primary liner survey.
- 2.0 Primary Drainage Gravel – TWS placed Type A gravel in Cell 10. TWS hauled the gravel to the north end of the primary gravel placement in Cell 10. The gravel was spread with one (1) CAT D6 LGP dozer in a 1-ft thick lift across the Cell 10 floor in grid cells G7 to G10. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.
- 3.0 Operation Soil – TWS hauled and spread operations soil in Cells 9 and 10. TWS hauled soil to the north toe of slope in Cell 9 and 10. TWS utilized the CAT D8 dozer to stockpile soil at the bottom of the Cell 10 slope, while two (2) CAT D6 dozers to spread the operations soil up the Cell 10 slope in a continuous 1.5-ft high lift. After the north slope of Cells 9 and 10 were covered by operations soil, TWS placed the remaining 1.5-ft of fill over the rest of the operations soil with two (2) CAT D6 dozers and the CAT D8 dozer. By the end of the day 100% of the north slope of Cell 10 was covered with operations material.


 ENVIROTECH – CQA

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CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-184
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Pt. Cloudy: Hi: 66°F Lo: 34°F Wind: 9-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 149-150	Tyler Williams Book 3	Pages: 141-143
James Schut Book 2	Pages: 100-101	Luke Hay Book 3	Page: 48
Jamison Marsh Book 1	Pages: 16-17		

LABORATORY TESTING

5-18M Operations Soil	OP-37	USCS: Passed
5-18M Operations Soil	OP-39	USCS: Passed
5-18M Operations Soil	OP-40	USCS and Proctor: Passed
5-18M Operations Soil	OP-43	USCS: Passed
5-18M Operations Soil	OP-45	USCS and Proctor on-going
5-18M Operations Soil	OP-46	USCS on-going
5-18M Operations Soil	OP-47	USCS on-going
5-18M Operations Soil	OP-48	USCS on-going
5-18M Operations Soil	OP-49	USCS on-going
5-18M Operations Soil	OP-50	USCS and Proctor on-going
5-18M Operations Soil	OP-51	USCS on-going
5-18M Operations Soil	OP-52	USCS on-going
5-18M Operations Soil	OP-53	USCS on-going
5-18M Operations Soil	OP-54	USCS on-going
5-18M Operations Soil	OP-55	USCS and Proctor on-going

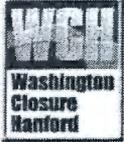
GENERAL ACTIVITIES

1.0 Cell 10 Primary Geomembrane – CQA extrusion weld destructive tests DP-80, DP-81, and DP-82 failed to meet contract specifications. CQA and ESI repeatedly bracketed the destructive testing and retested. Upon investigation, CQA discovered that ESI had changed grinder operators Wednesday October 20, 2010. After discussion following several failed destructive samples, ESI decided to remove or cap all extrusion welds back to the last destruct passed on October 19th, 2010. All extrusion welds conducted on October 20th and 21st were capped.

As a corrective action, the grinder operator was replaced and will grid no additional seams.

CONSTRUCTION ACTIVITIES

1.0 Primary Geomembrane – CQA observed ESI performing repairs and conducting non-destructive testing on deployed primary geomembrane panels on the south half of the Cell 10. See General Activities for more information.



CQA DAILY CONSTRUCTION REPORT

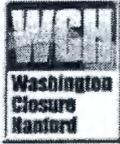
Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-184
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Pt. Cloudy: Hi: 66°F Lo: 34°F Wind: 9-mph

CONSTRUCTION ACTIVITIES

- 2.0 Primary Drainage Gravel – TWS placed stockpiled Type A gravel in Cell 10. The gravel was spread with one (1) CAT D6 LGP dozer in a 1-ft thick lift across the Cell 10 floor in grid cells H7 to I10. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.
- 3.0 Operation Soil – TWS hauled and spread operations soil in Cells 9 and 10. TWS hauled soil to the north toe of slope in Cell 9 and 10. TWS utilized the CAT D8 dozer to stockpile soil at the bottom of the Cell 10 slope, while two (2) CAT D6 dozers to spread the operations soil up the Cell 10 slope. The dozers concentrated on increasing the thickness of the operations soil on the Cell 9 and 10 slope to 3-ft of thickness.
- 4.0 Cell 9 Crest Pad Building – BMWC continued to assemble the leachate pipe collection piping in the Cell 9 Crest Pad building.

ENVIROTECH – CQA

10/26/10
 DATE



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-185
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	5	Weather:
			Cloudy: Hi: 68°F Lo: 40°F Wind: 18-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 151-152	Tyler Williams Book 3	Pages: 144-145
James Schut Book 2	Pages: 102-103	Luke Hay Book 3	Page: 49
Jamison Marsh Book 1	Page: 18		

LABORATORY TESTING

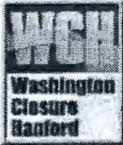
5-18M Operations Soil	OP-45	USCS and Proctor: Passed
5-18M Operations Soil	OP-46	USCS: Passed
5-18M Operations Soil	OP-47	USCS: Passed
5-18M Operations Soil	OP-48	USCS: Passed
5-18M Operations Soil	OP-49	USCS: Passed
5-18M Operations Soil	OP-50	USCS and Proctor on-going
5-18M Operations Soil	OP-51	USCS: Passed
5-18M Operations Soil	OP-52	USCS: Passed
5-18M Operations Soil	OP-53	USCS: Passed
5-18M Operations Soil	OP-54	USCS: Passed
5-18M Operations Soil	OP-55	USCS and Proctor on-going

GENERAL ACTIVITIES

- 1.0 Department of Health Inspection – The Washington Department of Health was on-site to conduct the annual inspection of the portable nuclear gauge permit. Victoria Dix inspected the Envirotech program, storage, and portable nuclear gauge. Victoria Dix indicated that no deficiencies with one note to replace the serial plates on the Troxler unit.

CONSTRUCTION ACTIVITIES

- 1.0 Primary Geomembrane – CQA observed ESI performing repairs and conducting non-destructive testing on deployed primary geomembrane panels on the south half of the Cell 10. ESI began capping the repairs that failed the destructive testing on Thursday, October 21 2010.
- 2.0 Primary Drainage Gravel – TWS placed stockpiled Type A gravel in Cell 10. The gravel was spread with two (2) CAT D6 LGP dozer in a 1-ft thick lift across the Cell 10 floor in grid cells I6 to J10. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any trapped wrinkles or other deficiencies.
- 3.0 Primary Geotextile – CQA observed ESI deploying fourteen (14) rolls of 16 oz. geotextile over approved secondary geomembrane on the south side of the Cell 10 floor. After the geotextile was deployed, CQA observed ESI double wedge welded the panels together as per specifications.

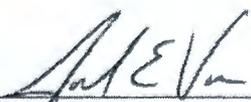


CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-185	
Job Number:	S013213A00	Staff On-site	Date:	Friday, October 22, 2010
Contractor(s):	TradeWind Services	5	Weather:	Cloudy: Hi: 68°F Lo: 40°F Wind: 18-mph

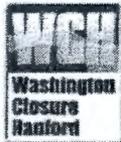
CONSTRUCTION ACTIVITIES

4.0 Operation Soil – TWS hauled and spread operations soil in Cells 9 and 10. TWS hauled soil to the north toe of slope in Cell 9 and 10. TWS utilized the CAT D8 dozer and a CAT D6 dozers to spread the operations soil up the Cell 10 slope. The dozers concentrated on increasing the thickness of the operations soil on the Cell 9 and 10 slope to 3-ft of thickness.


ENVIROTECH – CQA

10/26/10
DATE

PAGE 2 OF 2



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-186
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services.	5	Weather:
			Pt. Cloudy with High Winds Hi: 57°F Lo: 43°F Wind: 41-mph

FIELD NOTEBOOKS

James Schut Book 2	Pages: 104-105	Tyler Williams Book 3	Pages: 146-149
Jamison Marsh Book 1	Pages: 19-20	Luke Hay Book 3	Page: 50

LABORATORY TESTING

5-18M Operations Soil	OP-50	USCS and Proctor: Passed
5-18M Operations Soil	OP-55	USCS and Proctor: Passed

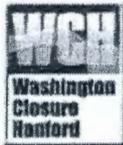
GENERAL ACTIVITIES

- 1.0 Weather – Due to low temperatures, high winds, and a chance for rain, ESI performed no geomembrane detail work. ESI shutdown prior to lunch.
- 2.0 Ground Penetrating Radar – WCH performed a ground penetrating radar (GPR) survey of the primary drainage gravel haul road in Cell 10. Results of the survey will appear in a later report.

CONSTRUCTION ACTIVITIES

- 1.0 Primary Geomembrane – The CQA surveyor was on-site to conduct the primary liner as-built survey of Cell 10.
- 2.0 Primary Drainage Gravel – TWS placed stockpiled Type A gravel in Cell 10. The gravel was spread with two (2) CAT D6 LGP dozer in a 1-ft thick lift across the Cell 10 floor in grid cells J6 to K10. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any deficiencies.
- 3.0 Primary Geotextile – CQA observed ESI deploying three (3) rolls of 16 oz. geotextile over approved secondary geomembrane on the south side of the Cell 10 floor. After the geotextile was deployed, CQA observed ESI double wedge welded panels together as per specifications.
- 4.0 Anchor Trench – CQA observed ESI backfilling the Cell 9 and 10 north anchor trenches. TWS used the Hitachi 200 to place 5-6 lifts of backfill into the air release points on the north anchor trench. Each lift was moisture conditioned and compacted with the CAT 312 excavator with attached hoe-pack. The final lift of soil was compacted with the CAT CS 563 compactor for the entire length of the anchor trench.
- 5.0 Operation Soil – TWS spread operations soil in Cells 9 and 10. TWS utilized the CAT D8 dozer and a CAT D6 dozers to spread the operations soil up the Cell 10 slope. The dozers concentrated on increasing the thickness of the operations soil on the Cell 9 and 10 slope to 3-ft of thickness.

CQA also observed TWS constructing the north slope rain flap detail. Sand bags were placed underneath the rain flap to prop it in a more vertical direction. The CAT 312 excavator placed soil between the rain flap and the primary geomembrane. As the CAT 312 excavator placed soil from the bottom of the slope, the sand bags were removed. CQA verified that the rain flap was constructed as per the design drawings.



CQA DAILY CONSTRUCTION REPORT

Project ID:	01-0032 ERDF Cells 9-10 Construction	Report Number:	5-16-187
Job Number:	S013213A00	Staff On-site	Date:
Contractor(s):	TradeWind Services	4	Weather:
			Cloudy: Hi: 58°F Lo: 41°F Wind: 30-mph

FIELD NOTEBOOKS

Joe Voss Book 2	Pages: 153-154	Tyler Williams Book 3	Pages: 150-151
James Schut Book 2	Pages: 106-108	Jamison Marsh Book 1	Pages: 21-23

GENERAL ACTIVITIES

- 1.0 Ground Penetrating Radar – WCH GPR survey yesterday, Monday, October 25 2010, found no evidence of admix displacement under the drainage gravel road in Cell 10.
- 2.0 Weekly Progress Meeting –The construction subcontractor’s weekly progress meeting on Tuesday, October 26th, 2010 at 10:00 am. in the meeting trailer.
- 3.0 CQA Weekly Progress Meeting – CQA attended the CQA subcontractor’s weekly progress meeting on Tuesday, October 26th, 2010 at 10:15 am in the meeting trailer.

CONSTRUCTION ACTIVITIES

- 1.0 Primary Geomembrane – CQA observed ESI performing repairs and conducting non-destructive testing on deployed primary geomembrane panels on the south half of the Cell 10.
- 2.0 Leachate Collection – CQA observed TWS utilizing a CAT 312 excavator to remove the drainage gravel though the center line of Cell 10 from the exposed leachate collection pipe to the edge of the placed gravel in Cell 10. In order to keep from damaging the underlying geosynthetics, TWS laborers removed the last 2-3 inches of drainage gravel with shovels. After the trench was completed, TWS placed the 12-in HDPE perforated leachate collection pipe into the trench. CQA observed and verified that no rock was trapped between the pipe and the underlying geotextile. Jake Williams, TWS certified welder, electro-fusion welded the in-place 12-in pipe leachate collection pipe to the installed pipe. After the pipe was welded, the CAT 312 excavator replaced the gravel and constructed a 1-ft high berm over the installed leachate collection pipe with the aid of the TWS surveyor. TWS left cardboard tubes in the drainage gravel to allow the CQA surveyor to as-built the pipe at a later date.
- 3.0 Primary Drainage Gravel – TWS placed stockpiled Type A gravel in Cell 10. The gravel was spread with one (1) CAT D6 LGP dozer in a 1-ft thick lift across the Cell 10 floor in grid cells J6 to J10. During the placement of Type A gravel, CQA continuously observed gravel placement, and a TWS laborer was present to address any deficiencies.
- 4.0 Primary Geotextile – CQA observed ESI deploying three (3) rolls of 16 oz. geotextile over approved secondary geomembrane on the south side of the Cell 10 floor. After the geotextile was deployed, CQA observed ESI double wedge welded panels together as per specifications.
- 5.0 Operation Soil – TWS spread operations soil in Cells 9 and 10. TWS utilized the CAT D8 dozer and two (2) CAT D6 dozers to spread the operations soil up the east side of the Cell 10 slope. The dozers concentrated on increasing the thickness of the operations soil on the Cell 9 and 10 slope to 3-ft of thickness. Later in the day, CQA observed TWS constructing the operations termination berm on the north slope of Cell 10 with a CAT D6 LGP dozer.

ENVIROTECH – CQA

10/29/10
DATE