



**QUALITY ASSURANCE
MONTHLY SITE
ASSESSMENT REPORT**

Site or Project Name:

Airfield Modernization Program
Runway 5L-23R Reconstruction
Project 2 / Project 3
Project 4 / Repair TWY Lighting
Project 5 / Project 6

Applicable Permit #:

NPDES TN0081868 (Individual)
NPDES TNR134734 (General)

Contractor:

Eutaw Construction (Project 2)
The Harper Co. (Project 3 & 4)
The Harper Co. (Repair TWY Lighting)
Eutaw Construction (Project 5 & 6)

Site Assessment Dates:

08/13/20
08/27/20

Site Assessment Reviewer:

Jason R. Hunt, P.E. / Larry Davis
Jason R. Hunt, P.E. / Larry Davis

Company:

Cannon & Cannon, Inc.
Cannon & Cannon, Inc.

Site Assessment Certification:

"I certify under penalty of law that these inspection records and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated information presented. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that inspections of stormwater discharge points (outfalls) and of erosion and sediment controls have been performed as recorded in these records. I certify that erosion prevention and sediment controls in the drainage area of the identified outfall were installed as planned and designed and in working order as recorded in these records. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Primary Permittee:

Eric Williamson
Project Manager
Metropolitan Knoxville Airport Authority

Site Assessment Reviewer:

Jason R. Hunt, P.E.
Cannon & Cannon, Inc.

(See attached documents for areas noted as requiring additional erosion control measures or maintenance of installed devices)



QUALITY ASSURANCE SITE ASSESSMENT

Site Assessment Date:

08/27/2020

Start and End Time

10:00 am - 4:00 pm

Site or Project Name:

Airfield Modernization Program
Runway 5L-23R Reconstruction
Project 2 / Project 3 / Project 4
PSXE820001-Repair Taxiway Lighting
Project 5 and 6

Site Assessment Reviewer:

Jason R. Hunt, P.E.

Site Conditions:

Sunny, 87

Company:

Cannon & Cannon, Inc.

Applicable Permit #:

NPDES TN0081868 (Individual)
NPDES TNR134734 (General)

Contractor:

Eutaw Construction Co. (Project 2)
The Harper Co. (Project 3)
The Harper Co. (Project 4)
The Harper Co. (TWY Lighting)
Eutaw Construction Co. (Projects 5 & 6)

Coordination:

Jim McNamara (CHA Companies)

Clark Chitwood (CCI)

Larry Davis (CCI)

Distribution:

Valerie McFall (TDEC Knoxville)
Todd Henry (CHA)
Jim McNamara (CHA)

Eric Williamson (MKAA)
Bryan White (MKAA)
Scott Crimmins (CHA)

Samantha Kleem (Harper)
Dennis Rauch (Harper)
Austin Smith (Eutaw)

Site Assessment Comments:

Site assessment was performed with the EPSC Inspector (Larry Davis-CCI). Site conditions mostly dry.

Current disturbed area remains at approximately 43.1 acres (based on areas that have not received application of stabilization measure - not based on actual grass establishment).

See attached Photo Log for areas requiring additional measures or modification. Reference the EPSC inspection reports for additional site requirements and coordination. The site assessment may not include all measures that are required.



**QUALITY ASSURANCE
SITE ASSESSMENT**
Review Date: 08/27/2020
Reviewer: Jason R. Hunt, P.E.

AIRFIELD MODERNIZATION PROGRAM RUNWAY 5L-23R RECONSTRUCTION

**PROJECT 2 – VOLUMES 1 AND 2
(CONTRACTOR – EUTAW CONSTRUCTION CO.)**

**PROJECT 3 – RUNWAY AND ASSOCIATED TAXIWAY PAVING
(CONTRACTOR – THE HARPER COMPANY)**

**PROJECT 4 – TAXIWAYS B4/B5/B/Y/G4/G
(CONTRACTOR – THE HARPER COMPANY)**

**TNANG – REPAIR TAXIWAY LIGHTING SYSTEM
(CONTRACTOR – THE HARPER COMPANY)**

**PROJECT 5/6 – RUNWAY 5L-23R NAVAIDS
(CONTRACTOR – EUTAW CONSTRUCTION CO.)**



Photo 1
Sta. 111+56 RT
(Line LB)
NLET 01
Project 2

North Lateral End Treatment 01 (Outfall A).
No flow observed.



Photo 2
Sta. 111+56 RT
(Line LB)
NLET 01
Project 2

North Lateral End Treatment 01 (Outfall A).
No flow observed.



Photo 3
Sta. 111+82 LT
(Line LB)
NLET 02
Project 2

Main outfall to Lackey Creek. This section of the site was inaccessible at time of inspection.



Photo 4
Sta. 114+00
(Line LB)
Project 2

Guard Lateral End Treatment 02.
This section of the site was inaccessible at time of inspection.



Photo 5
Sta. 117+00
(Line LB)
Project 2

Guard Lateral Ditch (Outfall B).
No flow observed.



Photo 6
Sta. 117+00
(Line LB)
Project 2

Above the Guard Lateral Ditch (Outfall B).
Construction fall out present. Recommend coordinating remediation with CHA.



Photo 7
Sta. 117+00
(Line LB)
Project 2

Guard Lateral Ditch (Outfall B).



Photo 8
Sta. 117+00 (RT)
Project 2

78" culvert in the Guard Lateral Ditch.



Photo 9
Sta. 287+21 LT
(RW 5L-23R)
Structure 124
Project 3

Structure 124.



Photo 10
Sta. 289+13 LT
(RW 5L-23R)
Structure 122
Project 3

Structure 122.
Recommend stabilizing remaining bare areas.



Photo 11
Sta. 291+51 LT
(RW 5L-23R)
Structure 120
Project 3

Structure 120. See Project 5/6 for additional information.



Photo 12
Sta. 294+31 LT
(RW 5L-23R)
Structure 118
Project 3

Structure 118. See Project 5/6 for additional information.



Photo 13
Sta. 298+71 LT
(RW 5L-23R)
Structure 116
Project 3

Structure 116.
Recommend stabilizing bare areas and repairing rills (see photos #15 and #16 below).



Photo 14
Sta. 298+71 LT
(RW 5L-23R)
Structure 116
Project 3

Above Structure 116.
Due to recent storm events, rills have started to form and sediment has accumulated in ditch line.
Recommend removing accumulated sediment. Recommend stabilizing remaining bare areas.



Photo 15
Sta. 298+71 LT
(RW 5L-23R)
Structure 116
Project 3

Above Structure 116 on Taxiway G2.
Recommend repairing rills and stabilizing bare areas.



Photo 16
Sta. 302+54 LT
(RW 5L-23R)
Structure 114
Project 3

Structure 114.
Bare areas have been sprayed with hydroseeding and mulch; however, many areas remain bare and grass has not established. Coordinate with CHA on final stabilization options.



Photo 17
Sta. 303+36 LT
(RW 5L-23R)
Structure 12
Project 3

Structure 12.



Photo 18
Sta. 310+04 LT
(RW 5L-23R)
Structure 10
Project 3

Structure 10.



Photo 19
Sta. 310+00 LT
(RW 5L-23R)
Project 3

Structure 112 and Concrete Washout Area.
Washout area and batch plant stone pad being removed.
Inlet protection may be necessary once final grades are achieved.



Photo 20
Sta. 314+48 LT
(RW 5L-23R)
ES Endwall 108
Project 3

Enhanced Swale Endwall 108.
Recommend repairing rills above endwall.



Photo 21
Sta. 314+48 LT
(RW 5L-23R)
ES Endwall 108
Project 3

Enhanced Swale Endwall 108.
Recommend repairing rills above endwall.



Photo 22
Sta. 324+86 LT
(RW 5L-23R)
ES Endwall 106
Project 3

Enhanced Swale Endwall 106.



Photo 23
Sta. 324+86 to Sta. 335+73 LT
(RW 5L-23R)
ES Endwall 106
Project 3

Enhanced Swale Endwall 106.



Photo 24
Sta. 335+73 LT
(RW 5L-23R)
ES Endwall 104
Project 3

Enhanced Swale Endwall 104.



Photo 25
Sta. 335+73 LT
(RW 5L-23R)
ES Endwall 104
Project 3

Enhanced Swale Endwall 104.



Photo 26
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

First potential construction fallout on Storm Line 1 between ES Endwall 104 and 102.



Photo 27
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

Second construction fallout on Storm Line 1 between ES Endwall 104 and 102.
Coordinate remediation with CHA.



Photo 28
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

Third construction fallout on Storm Line 1 between ES Endwall 104 and 102.
Coordinate remediation with CHA.



Photo 29
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

Fourth construction fallout on Storm Line 1 between ES Endwall 104 and 102.
Coordinate remediation with CHA.



Photo 30
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

Fifth construction fallout on Storm Line 1 between ES Endwall 104 and 102.
Coordinate remediation with CHA.



Photo 31
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

Sixth construction fallout on Storm Line 1 between ES Endwall 104 and 102.
Coordinate remediation with CHA.



Photo 32
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

Seventh construction fallout on Storm Line 1 between ES Endwall 104 and 102.
Coordinate remediation with CHA.



Photo 33
Sta. 347+31 LT
(RW 5L-23R)
ES Endwall 102
Project 3

Enhanced Swale Endwall 102.
Recommend stabilizing remaining bare areas.



Photo 34
Sta. 347+31 LT
(RW 5L-23R)
ES Endwall 102
Project 3

Enhanced Swale Endwall 102.
Recommend stabilizing remaining bare areas.



Photo 35
Sta. 341+50 LT
(RW 5L-23R)
ES Endwall 102
Project 3

Eighth construction fallout on Storm Line 1 between ES Endwall 102 and 100.
Coordinate remediation with CHA.



Photo 36
Sta. 354+75 LT
(RW 5L-23R)
ES Endwall 100
Project 2

Enhanced Swale Endwall 100.



Photo 37
Sta. 354+75 LT
(RW 5L-23R)
ES Endwall 100
Project 3

Enhanced Swale Endwall 100.



Photo 38
Sta. 361+39 LT
(RW 5L-23R)
Structure 100
Project 3

Structure 100.
Recommend stabilizing remaining bare areas.



Photo 39
Sta. 363+35 LT
(RW 5L-23R)
Existing Structure
Project 2

Existing Structure.



Photo 40
Sta. 366+25 LT
(RW 5L-23R)
Existing Structure
Project 2

Existing Structure.
Recommend stabilizing bare areas.



Photo 41
Sta. 369+11 LT
(RW 5L-23R)
Existing Structure
Project 2

Existing Structure.
Recommend stabilizing bare areas.



Photo 42
Sta. 677+00 RT
(RW 5L-23R)
Existing Structure
Project 4

Structure south of Taxiway "G".
Slopes continue to rill and deposit sediment at the structure.
Recommend repairing rills and replacing sediment tubes.
Recommend stabilizing bare areas.



Photo 43
Sta. 677+00 RT
(RW 5L-23R)
Existing Structure
Project 4

Structure south of Taxiway "G".
Slopes continue to rill and deposit sediment at the structure.
Recommend repairing rills and replacing sediment tubes.
Recommend stabilizing bare areas.



Photo 44
Sta. 677+00 RT
(RW 5L-23R)
Project 4

Structure between Taxiway G and UPS Facility.



Photo 45
Sta. 676+00 RT
(RW 5L-23R)
Project 4

Storm structure adjacent to UPS.



Photo 46
New structure
Project 4

New storm structure located north of Taxiway G.
Area recently regraded to capture runoff from the helipad apron. Sod recently installed.
Recommend stabilizing remaining bare areas.



Photo 47
New structure
Project 4

New storm structure located north of Taxiway G.
Area recently regraded to capture runoff from the helipad apron. Sod recently installed.
Recommend stabilizing remaining bare areas.



Photo 48
Sta. 366+89 RT
(RW 5L-23R)
Existing Structure
Project 4

Existing Structure adjacent to Outfall C.



Photo 49
Sta. 366+89 RT
(RW 5L-23R)
Outfall C
Project 4

Recommend removing filter fabric from this structure.
(Outfall C).



Photo 50
Sta. 365+69 RT
(RW 5L-23R)
Structure 300
Project 4

Structure 300



Photo 51
(RW 5L-23R)
TWY Y Tie-in
Project 4

Existing structure north of Taxiway Y.



Photo 52
(RW 5L-23R)
TWY Y Tie-in
Project 4

Existing structure south of Taxiway Y.
Recommend removing inlet protection.



Photo 53
Sta. 362+02 LT
(RW 5L-23R)
Structure 400
Project 4

Structure 400.
Recommend stabilizing remaining bare areas.



Photo 54
Sta. 362+02 LT
(RW 5L-23R)
Structure 400
Project 4

Structure 400.
Recommend stabilizing remaining bare areas.



Photo 55
Sta. 353+56 RT
(RW 5L-23R)
Structure 20
Project 4

Structure 20.
Area appears stable.
Recommend removing inlet protection.



Photo 56
Sta. 347+26 RT
(RW 5L-23R)
Structure 22
Project 4

Structure 22.
Sediment recently removed from top structure.
If unable to immediately stabilize, recommend adding sediment tubes.
Recommend stabilizing bare areas.



Photo 57
Sta. 353+56 RT
(RW 5L-23R)
Structure 200
Project 4

Structure 200.
Recommend stabilizing bare areas.



Photo 58
Sta. 347+26 RT
(RW 5L-23R)
Structure 202
Project 4

Structure 202.
Area recently regraded.
Recommend stabilizing bare areas.



Photo 59
Sta. 341+86 RT
(RW 5L-23R)
Structure 204
Project 4

Structure 204.



Photo 60
Sta. 341+86 RT
(RW 5L-23R)
Project 4

Potential construction fallout on Storm Line 2 between structures 204 and 206 just downgradient of an underdrain outlet.
Recommend coordinating remediation with CHA.



Photo 61
Sta. 341+86 RT
(RW 5L-23R)
Project 4

Construction fallout on Storm Line 2 between structures 204 and 206.
Recommend coordinating remediation with CHA.



Photo 62
Sta. 338+02 RT
(RW 5L-23R)
Structure 206
Project 4

Structure 206.



Photo 63
(RW 5L-23R)
Project 4

Construction fallout on Storm Line 2 between structures 206 and 208.
Recommend coordinating remediation with CHA.



Photo 64
Sta. 338+02 RT
(RW 5L-23R)
Structure 208
Project 4

Structure 208.



Photo 65
Sta. 329+86 RT
(RW 5L-23R)
Structure 210
Project 3

Structure 210.



Photo 66
Sta. 321+73 RT
(RW 5L-23R)
Structure 212
Project 3

Structure 212.
Recommend removing accumulated sediment and replacing damaged sediment tubes.
Recommend stabilizing remaining bare areas.



Photo 67
Sta. 314+32 RT
(RW 5L-23R)
Structure 214
Project 3

Structure 214.



Photo 68
Sta. 307+99 RT
(RW 5L-23R)
Structure 216
Project 3

Structure 216.



Photo 69
Sta. 301+87 RT
(RW 5L-23R)
Structure 218
Project 3

Structure 218.
Recommend stabilizing remaining bare areas and repairing rill above structure (see photo below).



Photo 70
Sta. 301+87 RT
(RW 5L-23R)
Structure 218
Project 3

Structure 218.
Recommend stabilizing bare areas and repairing rill above structure.



Photo 71
Sta. 296+83 RT
(RW 5L-23R)
Structure 220
Project 2

Structure 220.
Recommend stabilizing remaining bare areas.



Photo 72
Sta. 288+26
(RW 5L-23R)
Structure 224
Project 2

Structure 224.



Photo 73
Sta. 288+26
(RW 5L-23R)
Structure 224
Project 2

Below structure 224.
Side slope has eroded causing damage to the articulated concrete block.
CHA, Harper and KMAA were already aware of the issue as discussed in a progress meeting dated 07/16/2020.



Photo 74
Sta. 290+26 RT
(RW 5L-23R)
Structure 600 Ditch
Project 2

Structure 600 Ditch.
Recommend stabilizing remaining bare areas.



Photo 75
Sta. 290+26 RT
(RW 5L-23R)
Structure 222
Project 2

Structure 222.
Recommend removing inlet protection.
Recommend stabilizing bare areas.



Photo 76
Sta. 290+26 RT
(RW 5L-23R)
Structure 600 Ditch
Project 2

Structure 600 ditch.
Recommend stabilizing remaining bare areas.



Photo 77
Sta. 284+59
(RW 5L-23R)
Structure 600
Project 3

Structure 600.
Sediment recently removed and sediment tubes repaired.



Photo 78
(RW 5L-23R)
Project 3

Existing structure adjacent to crushing operations.
Rills have started to form adjacent to existing structure.



Photo 79
(RW 5L-23R)
Project 3

Existing structure at stone stockpile area.



Photo 80
(RW 5L-23R)
Project 3

Existing structure.
Grading operations appear to be complete.
Recommend stabilizing remaining bare areas of entire pad.



Photo 81
(RW 5L-23R)
Project 3

Silt fence above North Lateral Ditch at stone stockpile area.
Silt fence continues to erode during storm events.
Recommend repairing silt fence.



Photo 82
Sta. 39+00 CL
Proposed Haul Route
Project 3

Inlet side of 54" haul route crossing culvert.
Silt fence installed for Project 5/6 (see additional photos).



Photo 83
Sta. 39+00 CL
Proposed Haul Route
Project 3

Outlet side of 54" haul route crossing culvert.
Silt fence installed for Project 5/6 (see additional photos).



Photo 84
Sta. 37+25 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.



Photo 85
Sta. 37+25 RT
Proposed Haul Route
Project 3

New storm structure installed along haul road.



Photo 86
Sta. 32+50 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.
Underdrain/French drain recently installed and slope regraded.
Recommend stabilizing slope as soon as practical.



Photo 87
Sta. 32+50 RT
Proposed Haul Route
Project 3

Haul Route recently paved.
Recommend stabilizing slope as soon as practical.



Photo 88
Sta. 302+54
(RW 5L-23R)
Project 2

North Lateral Fill Area
Rills recently filled in and sediment removed from in front of silt fence.
Recommend stabilizing bare areas.



Photo 89
Sta. 302+54
(RW 5L-23R)
Project 2

Above North Lateral Endwall 100.
Sediment recently removed.
Recommend stabilizing bare areas.



Photo 90
Sta. 302+54
(RW 5L-23R)
Project 2

Above North Lateral Endwall 100.
Due to storm events and area remaining not stabilized, sediment has accumulated.
Recommend stabilizing bare areas.



Photo 91
Sta. 302+54
(RW 5L-23R)
Project 2

Soil stockpile area next to haul road at Taxiway B.
Sediment tubes at slope drain have been undermined. Recommend repairing or adding tubes to prevent runoff under the sediment tubes.
Recommend stabilizing all bare areas.



Photo 92
Sta. 302+54 to Sta. 313+50
(RW 5L-23R)
Project 2

North Lateral Endwall 100.
Recommend stabilizing bare areas.



Photo 93
Sta. 300+60
(RW 5L-23R)
Project 2

North Lateral Endwall 102.



Photo 94
Sta. 29+00 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.
Underdrain/French drain recently installed and slope regraded.
Recommend stabilizing slope as soon as practical.



Photo 95
Sta. 25+50 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.
Underdrain/French drain recently installed and slope regraded.
Recommend stabilizing slope as soon as practical.



Photo 96
Sta. 297+01
(RW 5L-23R)
Project 2

North Lateral Endwall 104.



Photo 97
Sta. 295+10
(RW 5L-23R)
Project 2

North Lateral Endwall 106.



Photo 98
Sta. 22+00 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.
Underdrain/French drain recently installed and slope regraded.
Recommend stabilizing slope as soon as practical.



Photo 99
Sta. 292+08
(RW 5L-23R)
Project 2

North Lateral Endwall 108.



Photo 100
Sta. 290+50 LT
(RW 5L-23R)
Project 2

North Lateral Endwall 110.



Photo 101
Sta. 15+50 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.
Underdrain/French drain recently installed and slope regraded.
Recommend stabilizing slope as soon as practical.



Photo 102
Sta. 15+50 RT
Proposed Haul Route
Project 3

Recommend stabilizing bare areas along haul route as soon as practical.



Photo 103
Sta. 284+00 LT
(RW 5L-23R)
Project 2

Existing vault at old Liberty street.
Construction fallout present. Recommend coordinating with CHA on remediation.



Photo 104
Sta. 284+00 LT
(RW 5L-23R)
Project 2

Previous soil stockpile at old Liberty Street.
Construction fallout filled with concrete. Recommend stabilizing remaining bare areas.



Photo 105
(Repair TWY Lighting)

Fill area adjacent to Liberty Street.
Grading operations have moved towards ditch line.
Recommend monitoring for sediment movement.



Photo 106
(Repair TWY Lighting)
Existing Structure

Existing structure south of Taxiway G
Recommend stabilizing bare areas.



Photo 107
(Repair TWY Lighting)
Existing Structure

Existing structure south of Taxiway G.
Recommend stabilizing bare areas.



Photo 108
(Repair TWY Lighting)
Existing Structure

Existing structure north of Taxiway G.
Recommend stabilizing bare areas.



Photo 109
(Repair TWY Lighting)

Sod establishing along Taxiway G.
Recommend stabilizing remaining bare areas.



Photo 110
(Repair TWY Lighting)

Existing structure adjacent to demolished Taxiway G4.



Photo 111
(Repair TWY Lighting)

Demolished old Taxiway G4 and shoulder.
Recommend stabilizing bare areas.



Photo 112
(Project 5/6)

Proposed access road
Sediment tubes recently installed.



Photo 113
(Project 5/6)

Proposed access road
Sediment tubes recently installed.



Photo 114
(Project 5/6)

Existing structure #120.
Sediment tubes recently installed above structure.



Photo 115
(Project 5/6)

Existing structure #118.
Inlet protection recently installed.



Photo 116
(Project 5/6)

Proposed access road
Sediment tubes recently installed.



Photo 117
(Project 5/6)

Construction activities taking place at time of inspection.
Inlet protection recently installed.



Photo 118
(Project 5/6)

Inlet protection recently installed.



Photo 119
(Project 5/6)

Sediment tubes recently installed. Spacing of stakes appeared to be too far apart (typical throughout project). Recommend adding stakes.



Photo 120
(Project 5/6)

ILS area under construction.



Photo 121
(Project 5/6)

Silt fence recently installed for Project 5/6.



QUALITY ASSURANCE SITE ASSESSMENT

Site Assessment Date:

08/13/2020

Start and End Time

9:30 am - 1:30 pm

Site or Project Name:

Airfield Modernization Program
Runway 5L-23R Reconstruction
Project 2 / Project 3 / Project 4
PSXE820001-Repair Taxiway
Lighting

Site Assessment Reviewer:

Jason R. Hunt, P.E.

Site Conditions:

Sunny, 85

Applicable Permit #:

NPDES TN0081868 (Individual)
NPDES TNR134734 (General)

Company:

Cannon & Cannon, Inc.

Contractor:

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Jim McNamara (CHA)

Eric Williamson (MKAA)
Bryan White (MKAA)
Scott Crimmins (CHA)

Samantha Kleem (Harper)
Dennis Rauch (Harper)

Site Assessment Comments:

Site assessment was performed with the EPSC Inspector (Larry Davis-CCI). Site conditions were slightly wet from recent rainfall.

Current disturbed area remains at approximately 43.1 acres (based on areas that have not received application of stabilization measure - not based on actual grass establishment).

See attached Photo Log for areas requiring additional measures or modification. Reference the EPSC inspection reports for additional site requirements and coordination. The site assessment may not include all measures that are required.



**QUALITY ASSURANCE
SITE ASSESSMENT**
Review Date: 08/13/2020
Reviewer: Jason R. Hunt, P.E.

AIRFIELD MODERNIZATION PROGRAM RUNWAY 5L-23R RECONSTRUCTION

**PROJECT 2 – VOLUMES 1 AND 2
(CONTRACTOR – EUTAW CONSTRUCTION CO.)**

**PROJECT 3 – RUNWAY AND ASSOCIATED TAXIWAY PAVING
(CONTRACTOR – THE HARPER COMPANY)**

**PROJECT 4 – TAXIWAYS B4/B5/B/Y/G4/G
(CONTRACTOR – THE HARPER COMPANY)**

**TNANG – REPAIR TAXIWAY LIGHTING SYSTEM
(CONTRACTOR – THE HARPER COMPANY)**



Photo 1
Sta. 111+56 RT
(Line LB)
NLET 01
Project 2

North Lateral End Treatment 01 (Outfall A).
No flow observed.



Photo 2
Sta. 111+56 RT
(Line LB)
NLET 01
Project 2

North Lateral End Treatment 01 (Outfall A).
No flow observed.



Photo 3
Sta. 111+82 LT
(Line LB)
NLET 02
Project 2

Main outfall to Lackey Creek. This section of the site was inaccessible at time of inspection.



Photo 4
Sta. 114+00
(Line LB)
Project 2

Guard Lateral End Treatment 02.
This section of the site was inaccessible at time of inspection.



Photo 5
Sta. 115+28 to Sta. 121+45
(Line LB)
Project 2

Grass established at ditch line along Liberty Street.



Photo 6
Sta. 117+00
(Line LB)
Project 2

Guard Lateral Ditch (Outfall B).
No flow observed.



Photo 7
Sta. 117+00
(Line LB)
Project 2

Above the Guard Lateral Ditch (Outfall B).
Construction fall out present. Recommend coordinating remediation with CHA.



Photo 8
Sta. 117+00
(Line LB)
Project 2

Guard Lateral Ditch (Outfall B).



Photo 9
Sta. 117+00 (RT)
Project 2

78" culvert in the Guard Lateral Ditch.



Photo 10
Sta. 287+21 LT
(RW 5L-23R)
Structure 124
Project 3

Structure 124.



Photo 11
Sta. 289+13 LT
(RW 5L-23R)
Structure 122
Project 3

Structure 122.
Recommend stabilizing remaining bare areas.



Photo 12
Sta. 291+51 LT
(RW 5L-23R)
Structure 120
Project 3

Structure 120.



Photo 13
Sta. 294+31 LT
(RW 5L-23R)
Structure 118
Project 3

Structure 118.



Photo 14
Sta. 298+71 LT
(RW 5L-23R)
Structure 116
Project 3

Structure 116.
Recommend stabilizing bare areas and repairing rills (see photos #15 and #16 below).



Photo 15
Sta. 298+71 LT
(RW 5L-23R)
Structure 116
Project 3

Above Structure 116.
Due to recent storm events, rills have started to form and sediment has accumulated in ditch line.
Recommend removing accumulated sediment. Recommend stabilizing remaining bare areas.



Photo 16
Sta. 298+71 LT
(RW 5L-23R)
Structure 116
Project 3

Above Structure 116 on Taxiway G2.
Recommend repairing rills and stabilizing bare areas.



Photo 17
Sta. 302+54 LT
(RW 5L-23R)
Structure 114
Project 3

Structure 114.
Bare areas have been sprayed with hydroseeding and mulch; however, many areas remain bare and grass has not established. Coordinate with CHA on final stabilization options.



Photo 18
Sta. 303+36 LT
(RW 5L-23R)
Structure 12
Project 3

Structure 12.



Photo 19
Sta. 310+04 LT
(RW 5L-23R)
Structure 10
Project 3

Structure 10.



Photo 20
Sta. 310+00 LT
(RW 5L-23R)
Project 3

Structure 112 and Concrete Washout Area.
Washout area and batch plant stone pad being removed.
Inlet protection may be necessary once final grades are achieved.



Photo 21
Sta. 324+86 LT
(RW 5L-23R)
ES Endwall 106
Project 3

Enhanced Swale Endwall 106.



Photo 22
Sta. 324+86 to Sta. 335+73 LT
(RW 5L-23R)
ES Endwall 106
Project 3

Enhanced Swale Endwall 106.



Photo 23
Sta. 335+73 LT
(RW 5L-23R)
ES Endwall 104
Project 3

Enhanced Swale Endwall 104.



Photo 24
Sta. 335+73 LT
(RW 5L-23R)
ES Endwall 104
Project 3

Enhanced Swale Endwall 104.



Photo 25
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

First potential construction fallout on Storm Line 1 between ES Endwall 104 and 102.



Photo 26
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

Second construction fallout on Storm Line 1 between ES Endwall 104 and 102.
Coordinate remediation with CHA.



Photo 27
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

Third construction fallout on Storm Line 1 between ES Endwall 104 and 102.
Coordinate remediation with CHA.



Photo 28
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

Fourth construction fallout on Storm Line 1 between ES Endwall 104 and 102.
Coordinate remediation with CHA.



Photo 29
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

Fifth construction fallout on Storm Line 1 between ES Endwall 104 and 102.
Coordinate remediation with CHA.



Photo 30
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

Sixth construction fallout on Storm Line 1 between ES Endwall 104 and 102.
Coordinate remediation with CHA.



Photo 31
Sta. 347+31 LT
(RW 5L-23R)
ES Endwall 102
Project 3

Enhanced Swale Endwall 102.
Recommend stabilizing remaining bare areas.



Photo 32
Sta. 347+31 LT
(RW 5L-23R)
ES Endwall 102
Project 3

Enhanced Swale Endwall 102.
Recommend stabilizing remaining bare areas.



Photo 33
Sta. 341+50 LT
(RW 5L-23R)
ES Endwall 102
Project 3

Seventh construction fallout on Storm Line 1 between ES Endwall 102 and 100.
Coordinate remediation with CHA.



Photo 34
Sta. 354+75 LT
(RW 5L-23R)
ES Endwall 100
Project 2

Enhanced Swale Endwall 100.



Photo 35
Sta. 354+75 LT
(RW 5L-23R)
ES Endwall 100
Project 3

Enhanced Swale Endwall 100.



Photo 36
Sta. 361+39 LT
(RW 5L-23R)
Structure 100
Project 3

Structure 100.
Recommend stabilizing remaining bare areas.



Photo 37
Sta. 363+35 LT
(RW 5L-23R)
Existing Structure
Project 2

Existing Structure.



Photo 38
Sta. 366+25 LT
(RW 5L-23R)
Existing Structure
Project 2

Existing Structure.
Recommend stabilizing bare areas.



Photo 39
Sta. 369+11 LT
(RW 5L-23R)
Existing Structure
Project 2

Existing Structure.
Recommend stabilizing bare areas.



Photo 40
Sta. 677+00 RT
(RW 5L-23R)
Existing Structure
Project 4

Structure south of Taxiway "G".
Slopes continue to rill and deposit sediment at the structure.
Recommend repairing rills, removing accumulated sediment, and replacing sediment tubes.
Recommend stabilizing bare areas.



Photo 41
Sta. 677+00 RT
(RW 5L-23R)
Project 4

Structure between Taxiway G and UPS Facility.



Photo 42
Sta. 676+00 RT
(RW 5L-23R)
Project 4

Storm structure adjacent to UPS.



Photo 43
New structure
Project 4

New storm structure located north of Taxiway G.
Area recently regraded to capture runoff from the helipad apron.
Recommend stabilizing bare areas once grading is complete.



Photo 44
Sta. 366+89 RT
(RW 5L-23R)
Existing Structure
Project 4

Existing Structure adjacent to Outfall C.



Photo 45
Sta. 366+89 RT
(RW 5L-23R)
Outfall C
Project 4

Recommend removing filter fabric from this structure.
(Outfall C).



Photo 46
Sta. 365+69 RT
(RW 5L-23R)
Structure 300
Project 4

Structure 300



Photo 47
(RW 5L-23R)
TWY Y Tie-in
Project 4

Existing structure north of Taxiway Y.



Photo 48
(RW 5L-23R)
TWY Y Tie-in
Project 4

Existing structure south of Taxiway Y.
Recommend removing inlet protection.



Photo 49
Sta. 362+02 LT
(RW 5L-23R)
Structure 400
Project 4

Structure 400.



Photo 50
Sta. 353+56 RT
(RW 5L-23R)
Structure 20
Project 4

Structure 20.



Photo 51
Sta. 347+26 RT
(RW 5L-23R)
Structure 22
Project 4

Structure 22.
Construction activities taking place at time of inspection.
Recommend stabilizing bare areas once operations are complete.



Photo 52
Sta. 353+56 RT
(RW 5L-23R)
Structure 200
Project 4

Structure 200.



Photo 53
Sta. 347+26 RT
(RW 5L-23R)
Structure 202
Project 4

Structure 202.
Bare areas recently stabilized.
Rills and sediment migration occurred after recent storm events.



Photo 54
Sta. 341+86 RT
(RW 5L-23R)
Structure 204
Project 4

Structure 204.



Photo 55
Sta. 341+86 RT
(RW 5L-23R)
Project 4

Construction fallout on Storm Line 2 between structures 204 and 206.
Recommend coordinating remediation with CHA.



Photo 56
Sta. 338+02 RT
(RW 5L-23R)
Structure 206
Project 4

Structure 206.



Photo 57
(RW 5L-23R)
Project 4

Construction fallout on Storm Line 2 between structures 206 and 208.
Recommend coordinating remediation with CHA.



Photo 58
Sta. 338+02 RT
(RW 5L-23R)
Structure 208
Project 4

Structure 208.



Photo 59
Sta. 329+86 RT
(RW 5L-23R)
Structure 210
Project 3

Structure 210.
Bare areas recently stabilized.



Photo 60
Sta. 321+73 RT
(RW 5L-23R)
Structure 212
Project 3

Structure 212.
Recommend removing accumulated sediment and replacing damaged sediment tubes.
Recommend stabilizing remaining bare areas.



Photo 61
Sta. 314+32 RT
(RW 5L-23R)
Structure 214
Project 3

Structure 214.



Photo 62
Sta. 307+99 RT
(RW 5L-23R)
Structure 216
Project 3

Structure 216.



Photo 63
Sta. 301+87 RT
(RW 5L-23R)
Structure 218
Project 3

Structure 218.
Recommend stabilizing bare areas and repairing rill above structure (see photo below).



Photo 64
Sta. 301+87 RT
(RW 5L-23R)
Structure 218
Project 3

Structure 218.
Recommend stabilizing bare areas and repairing rill above structure.



Photo 65
Sta. 296+83 RT
(RW 5L-23R)
Structure 220
Project 2

Structure 220.
Recommend stabilizing remaining bare areas.



Photo 66
Sta. 288+26
(RW 5L-23R)
Structure 224
Project 2

Structure 224.



Photo 67
Sta. 288+26
(RW 5L-23R)
Structure 224
Project 2

Below structure 224.
Side slope has eroded causing damage to the articulated concrete block.
CHA, Harper and KMAA were already aware of the issue as discussed in a progress meeting dated 07/16/2020.



Photo 68
Sta. 290+26 RT
(RW 5L-23R)
Structure 600 Ditch
Project 2

Structure 600 Ditch.
Recommend stabilizing remaining bare areas.



Photo 69
Sta. 290+26 RT
(RW 5L-23R)
Structure 222
Project 2

Structure 222.
Recommend removing inlet protection.
Recommend stabilizing bare areas.



Photo 70
Sta. 290+26 RT
(RW 5L-23R)
Structure 600 Ditch
Project 2

Structure 600 ditch.
Recommend stabilizing remaining bare areas.



Photo 71
Sta. 284+59
(RW 5L-23R)
Structure 600
Project 3

Structure 600.
Sediment recently removed and sediment tubes repaired.



Photo 72
(RW 5L-23R)
Project 3

Existing structure adjacent to crushing operations.
Additional sediment tubes recently added.



Photo 73
(RW 5L-23R)
Project 3

Existing structure at stone stockpile area.



Photo 74
(RW 5L-23R)
Project 3

Existing structure.
Grading operations appear to be complete.
Recommend stabilizing bare areas of entire pad.



Photo 75
(RW 5L-23R)
Project 3

Silt fence above North Lateral Ditch at stone stockpile area.
Silt fence toppled from recent storm events.
Recommend repairing silt fence.



Photo 76
Sta. 39+00 CL
Proposed Haul Route
Project 3

Inlet side of 54" haul route crossing culvert.



Photo 77
Sta. 39+00 CL
Proposed Haul Route
Project 3

Outlet side of 54" haul route crossing culvert.



Photo 78
Sta. 37+25 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.



Photo 79
Sta. 37+25 RT
Proposed Haul Route
Project 3

New storm structure installed along haul road.



Photo 80
Sta. 32+50 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.
Underdrain/French drain recently installed and slope regraded. Recommend tracking slope perpendicular to prevent creation of rills.
Recommend stabilizing slope as soon as practical.



Photo 81
Sta. 32+50 RT
Proposed Haul Route
Project 3

Haul Route.
Underdrain/French drain recently installed and slope regraded. Recommend tracking slope perpendicular to prevent creation of rills.
Recommend stabilizing slope as soon as practical.

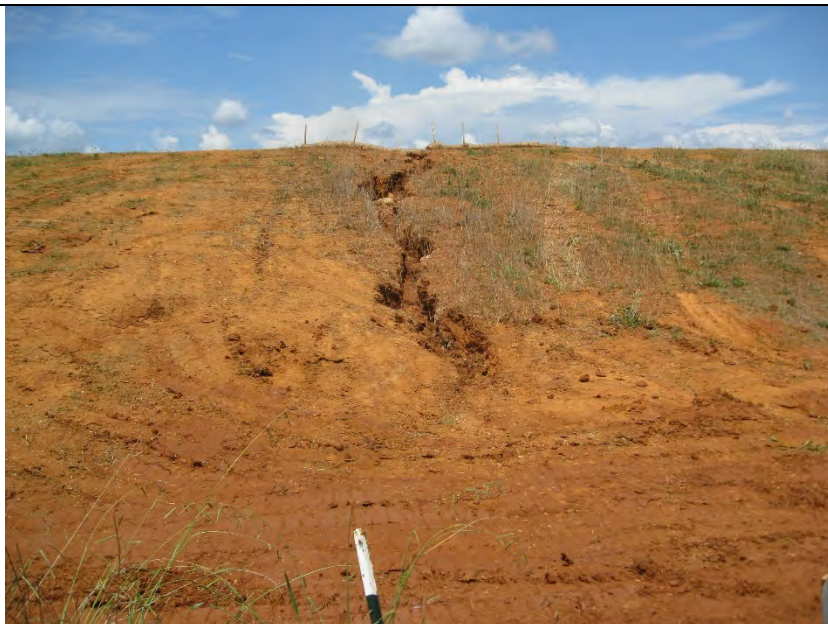


Photo 82
Sta. 302+54
(RW 5L-23R)
Project 2

North Lateral Fill Area
Rills have formed and sediment has migrated to silt fence.
Recommend removing accumulated sediment.
Recommend coordinating with CHA on remediating rills.



Photo 83
Sta. 302+54
(RW 5L-23R)
Project 2

Above North Lateral Endwall 100.
Sediment recently removed.
Recommend stabilizing bare areas.



Photo 84
Sta. 302+54
(RW 5L-23R)
Project 2

Above North Lateral Endwall 100.
Sediment recently removed.
Recommend stabilizing bare areas.



Photo 85
Sta. 302+54
(RW 5L-23R)
Project 2

Soil stockpile area next to haul road at Taxiway B.
Sediment tubes at slope drain have been undermined. Recommend repairing or adding tubes to prevent runoff under the sediment tubes.
Recommend stabilizing all bare areas.



Photo 86
Sta. 302+54 to Sta. 313+50
(RW 5L-23R)
Project 2

North Lateral Endwall 100.
Recommend stabilizing bare areas.



Photo 87
Sta. 300+60
(RW 5L-23R)
Project 2

North Lateral Endwall 102.



Photo 88
Sta. 29+00 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.
Underdrain/French drain recently installed and slope regraded. Recommend tracking slope perpendicular to prevent creation of rills.
Recommend stabilizing slope as soon as practical.



Photo 89
Sta. 25+50 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.
Underdrain/French drain recently installed and slope regraded. Recommend tracking slope perpendicular to prevent creation of rills.
Recommend stabilizing slope as soon as practical.



Photo 90
Sta. 297+01
(RW 5L-23R)
Project 2

North Lateral Endwall 104.



Photo 91
Sta. 295+10
(RW 5L-23R)
Project 2

North Lateral Endwall 106.



Photo 92
Sta. 22+00 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.
Underdrain/French drain recently installed and slope regraded. Recommend tracking slope perpendicular to prevent creation of rills.
Recommend stabilizing slope as soon as practical.



Photo 93
Sta. 292+08
(RW 5L-23R)
Project 2

North Lateral Endwall 108.



Photo 94
Sta. 290+50 LT
(RW 5L-23R)
Project 2

North Lateral Endwall 110.



Photo 95
Sta. 15+50 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.
Underdrain/French drain recently installed and slope regraded. Recommend tracking slope perpendicular to prevent creation of rills.
Recommend stabilizing slope as soon as practical.



Photo 96
Sta. 15+50 RT
Proposed Haul Route
Project 3

Construction fallout present in French drain section along haul road.
Coordinate remediation with CHA.



Photo 97
Sta. 284+00 LT
(RW 5L-23R)
Project 2

Existing vault at old Liberty street.
Construction fallout present. Recommend coordinating with CHA on remediation.



Photo 98
Sta. 284+00 LT
(RW 5L-23R)
Project 2

Previous soil stockpile at old Liberty Street.
Construction fallout filled with concrete. Recommend stabilizing remaining bare areas.



Photo 99
(Repair TWY Lighting)

Fill area adjacent to Liberty Street from Taxiway shoulder removal.
Sediment has migrated to silt fence. Recommend removing accumulated sediment.



Photo 100
(Repair TWY Lighting)
Existing Structure

Existing structure south of Taxiway G
Recommend stabilizing bare areas.



Photo 101
(Repair TWY Lighting)
Existing Structure

Existing structure south of Taxiway G.
Recommend stabilizing bare areas.



Photo 102
(Repair TWY Lighting)
Existing Structure

Existing structure north of Taxiway G.
Recommend stabilizing bare areas.



Photo 103
(Repair TWY Lighting)

Sod establishing along Taxiway G.
Recommend stabilizing remaining bare areas.



Photo 104
(Repair TWY Lighting)

Existing structure adjacent to demolished Taxiway G4.



Photo 105
(Repair TWY Lighting)

Demolished old Taxiway G4 and shoulder recently graded.
Recommend stabilizing bare areas.