



**QUALITY ASSURANCE
MONTHLY SITE
ASSESSMENT REPORT**

Site or Project Name:

Airfield Modernization Program
Runway 5L-23R Reconstruction
Project 2 / Project 3

Applicable Permit #:

NPDES TN0081868 (Individual)
NPDES TNR134734 (General)

Contractor:

Eutaw Construction Co. (Project 2)
The Harper Co. (Project 3)

Site Assessment Dates:

07/16/20
07/30/20

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:

07/30/2020

Start and End Time

10:30 am - 3:30 pm

Site or Project Name:

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

Site Assessment Reviewer:

Jason R. Hunt, P.E.

Site Conditions:

Rain, 86

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. (TWY Lighting)

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)

Site Assessment Comments:

Site assessment was performed with the EPSC Inspector (Larry Davis-CCI). Rainfall started to occur at the start of the site assessment. Site conditions were wet from the current day's 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: 07/30/2020
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).
Clear flow observed.



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

North Lateral End Treatment 01 (Outfall A).
Clear 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).
Clear 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).
Clear flow observed.



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

78" culvert in the Guard Lateral Ditch.
Clear flow observed.



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

Structure 116.
Recommend stabilizing 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.
Bare areas recently stabilized.



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

Structure 112 and Concrete Washout Area.



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

Enhanced Swale Endwall 108.
Recommend stabilizing remaining bare areas.



Photo 22
Sta. 314+48 LT
(RW 5L-23R)
ES Endwall 108
Project 3

Enhanced Swale Endwall 108.
Recommend stabilizing remaining bare areas.



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

Enhanced Swale Endwall 106.



Photo 24
Sta. 324+86 to Sta. 335+73 LT
(RW 5L-23R)
ES Endwall 106
Project 3

Enhanced Swale Endwall 106.



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

Enhanced Swale Endwall 104.



Photo 26
Sta. 335+73 LT
(RW 5L-23R)
ES Endwall 104
Project 3

Enhanced Swale Endwall 104.



Photo 27
 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 28
 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 29
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 30
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 31
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 32
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 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

Seventh 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 started to rill after previous storm events. Sediment has migrated to structure.
Recommend repairing rills, removing accumulated sediment, and replacing sediment tubes.
Recommend stabilizing bare areas.



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

Structure between Taxiway G and UPS Facility.



Photo 44
Sta. 676+00 RT
(RW 5L-23R)
Project 4

Storm structure adjacent to UPS.



Photo 45
New structure
Project 4

New storm structure installed north of Taxiway G.



Photo 46
New structure
Project 4

Above new structure north of Taxiway G.
Erosion of shoulder has occurred and continues to erode.
Area to be regraded and stabilized per discussion at Progress Meeting on 07/30/2020.



Photo 47
Sta. 366+89 RT
(RW 5L-23R)
Existing Structure
Project 4

Existing Structure adjacent to Outfall C.



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

Recommend removing filter fabric from this structure to allow sampling for DMR.
(Outfall C).



Photo 49
Sta. 365+69 RT
(RW 5L-23R)
Structure 300
Project 4

Structure 300



Photo 50
(RW 5L-23R)
TWY Y Tie-in
Project 4

Existing structure north of Taxiway Y.



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

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



Photo 52
Sta. 362+02 LT
(RW 5L-23R)
Structure 400
Project 4

Structure 400.
Bare areas recently stabilized.



Photo 53
Sta. 353+56 RT
(RW 5L-23R)
Structure 20
Project 4

Structure 20.



Photo 54
Sta. 347+26 RT
(RW 5L-23R)
Structure 22
Project 4

Structure 22.
Recommend stabilizing bare areas.



Photo 55
Sta. 353+56 RT
(RW 5L-23R)
Structure 200
Project 4

Structure 200.



Photo 56
Sta. 347+26 RT
(RW 5L-23R)
Structure 202
Project 4

Structure 202.

Rills and sediment migration occurred after recent storm events.



Photo 57
Sta. 341+86 RT
(RW 5L-23R)
Structure 204
Project 4

Structure 204.



Photo 58
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 59
Sta. 338+02 RT
(RW 5L-23R)
Structure 206
Project 4

Structure 206.



Photo 60
(RW 5L-23R)
Project 4

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



Photo 61
Sta. 338+02 RT
(RW 5L-23R)
Structure 208
Project 4

Structure 208.



Photo 62
Sta. 329+86 RT
(RW 5L-23R)
Structure 210
Project 3

Structure 210.
Bare areas recently stabilized.



Photo 63
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 64
Sta. 314+32 RT
(RW 5L-23R)
Structure 214
Project 3

Structure 214.



Photo 65
Sta. 307+99 RT
(RW 5L-23R)
Structure 216
Project 3

Structure 216.



Photo 66
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 67
Sta. 301+87 RT
(RW 5L-23R)
Structure 218
Project 3

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



Photo 68
Sta. 296+83 RT
(RW 5L-23R)
Structure 220
Project 2

Structure 220.
Recommend stabilizing remaining bare areas.



Photo 69
Sta. 288+26
(RW 5L-23R)
Structure 224
Project 2

Structure 224.



Photo 70
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 71
Sta. 290+26 RT
(RW 5L-23R)
Structure 600 Ditch
Project 2

Structure 600 Ditch.
Recommend stabilizing remaining bare areas.



Photo 72
Sta. 290+26 RT
(RW 5L-23R)
Structure 222
Project 2

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



Photo 73
Sta. 290+26 RT
(RW 5L-23R)
Structure 600 Ditch
Project 2

Structure 600 ditch.
Bare areas recently stabilized.



Photo 74
Sta. 284+59
(RW 5L-23R)
Structure 600
Project 3

Structure 600.
Sediment recently removed and sediment tubes repaired.



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

Area above Haul Road Culvert Inlet (stone stockpile area).
Sediment tubes recently installed to divert runoff into existing storm structure.



Photo 76
(RW 5L-23R)
Project 3

Area above Haul Road Culvert Inlet (stone stockpile area).
A gap exists between existing sediment tubes and newly installed sediment tubes (see previous photo) which will allow water to bypass structure. Recommend additional sediment tubes be installed to ensure runoff is treated or diverted to storm structure.



Photo 77
(RW 5L-23R)
Project 3

Existing structure at stone stockpile area.



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

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



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

Silt fence above North Lateral Ditch at stone stockpile area.



Photo 80
Sta. 39+00 CL
Proposed Haul Route
Project 3

Inlet side of 54" haul route crossing culvert.



Photo 81
Sta. 39+00 CL
Proposed Haul Route
Project 3

Outlet side of 54" haul route crossing culvert.



Photo 82
Sta. 37+25 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.



Photo 83
Sta. 37+25 RT
Proposed Haul Route
Project 3

New storm structure installed along haul road.
Recommend installing grate and filter fabric or extend sediment tube around structure.



Photo 84
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 85
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 86
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 87
Sta. 302+54
(RW 5L-23R)
Project 2

Above North Lateral Endwall 100.
Sediment has accumulated in front of sediment tubes.
Recommend removing sediment. Recommend replacing sediment tubes.
Recommend stabilizing bare areas.



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

Above North Lateral Endwall 100.
Recommend stabilizing bare areas.



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

Soil stockpile area next to haul road at Taxiway B.
Berm has started to erode and sediment has accumulated in front of tubes. Recommend removing accumulated sediment. Recommend adding sediment tubes adjacent to berm.
Recommend stabilizing all bare areas.



Photo 90
Sta. 302+54 to Sta. 313+50
(RW 5L-23R)
Project 2

North Lateral Endwall 100.
Recommend stabilizing bare areas.



Photo 91
Sta. 300+60
(RW 5L-23R)
Project 2

North Lateral Endwall 102.



Photo 92
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 93
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 94
Sta. 297+01
(RW 5L-23R)
Project 2

North Lateral Endwall 104.



Photo 95
Sta. 295+10
(RW 5L-23R)
Project 2

North Lateral Endwall 106.



Photo 96
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 97
Sta. 292+08
(RW 5L-23R)
Project 2

North Lateral Endwall 108.



Photo 98
Sta. 290+50 LT
(RW 5L-23R)
Project 2

North Lateral Endwall 110.



Photo 99
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 100
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 101
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 102
(Repair TWY Lighting)

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



Photo 103
(Repair TWY Lighting)
Existing Structure

Existing structure south of Taxiway G
Recommend stabilizing bare areas once final grading is complete.



Photo 104
(Repair TWY Lighting)
Existing Structure

Existing structure south of Taxiway G.
Area recently graded and appears to be at finished grade.
Recommend stabilizing bare areas.



Photo 105
(Repair TWY Lighting)
Existing Structure

Existing structure north of Taxiway G.
Area recently graded and appears to be at finished grade.
Recommend stabilizing bare areas.



Photo 106
(Repair TWY Lighting)

Existing structure at Upper Apron.
Shoulder graded. Pavement markings being installed.



Photo 107
(Repair TWY Lighting)

Sod being installed along Taxiway G at time of inspection.



Photo 108
(Repair TWY Lighting)

Existing structure adjacent to demolished Taxiway G4.



Photo 109
(Repair TWY Lighting)

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



Photo 110
(Repair TWY Lighting)

Existing structure at Upper Apron.
Shoulders recently graded.
Recommend stabilizing bare areas.



Photo 111
(Repair TWY Lighting)

Existing structure at Middle Apron.
Shoulders recently graded.
Recommend stabilizing bare areas.



Photo 112
(Repair TWY Lighting)

Existing structure at Middle Apron.



QUALITY ASSURANCE SITE ASSESSMENT

Site Assessment Date:

07/16/2020

Start and End Time

10:00 am - 3:00 pm

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Runway 5L-23R Reconstruction
Project 2 / Project 3 /
PSXE820001-Repair Taxiway
Lighting

Site Assessment Reviewer:

Jason R. Hunt, P.E.

Site Conditions:

Sunny, 94

Company:

Cannon & Cannon, Inc.

Applicable Permit #:

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Samantha Kleem (Harper)
Dennis Rauch (Harper)

Site Assessment Comments:

Site assessment was performed with the EPSC Inspector (Larry Davis-CCI). Site conditions were 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: 07/16/2020
Reviewer: Jason R. Hunt, P.E.

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**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).



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

North Lateral End Treatment 01 (Outfall A).



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

Grass established at ditch line along Liberty Street.



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

Guard Lateral Ditch (Outfall B).



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.



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

Structure 118.



Photo 13
Sta. 298+71 LT
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Structure 116
Project 3

Structure 116.
Recommend stabilizing bare areas.



Photo 14
Sta. 302+54 LT
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Structure 114
Project 3

Structure 114.



Photo 15
Sta. 303+36 LT
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Structure 12
Project 3

Structure 12.
Bare areas recently stabilized.



Photo 16
Sta. 310+04 LT
(RW 5L-23R)
Structure 10
Project 3

Structure 10.
Bare areas recently stabilized.



Photo 17
Sta. 310+00 LT
(RW 5L-23R)
Project 3

Structure 112



Photo 18
Sta. 314+48 LT
(RW 5L-23R)
ES Endwall 108
Project 3

Enhanced Swale Endwall 108.
Recommend stabilizing remaining bare areas.



Photo 19
Sta. 314+48 LT
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ES Endwall 108
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Enhanced Swale Endwall 108.
Recommend stabilizing remaining bare areas.



Photo 20
Sta. 324+86 LT
(RW 5L-23R)
ES Endwall 106
Project 3

Enhanced Swale Endwall 106.



Photo 21
Sta. 324+86 to Sta. 335+73 LT
(RW 5L-23R)
ES Endwall 106
Project 3

Enhanced Swale Endwall 106.



Photo 22
Sta. 335+73 LT
(RW 5L-23R)
ES Endwall 104
Project 3

Enhanced Swale Endwall 104.



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

Enhanced Swale Endwall 104.



Photo 24
Sta. 341+50 LT
(RW 5L-23R)
Between ES Endwall 104 and 102
Project 3

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



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

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



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

Enhanced Swale Endwall 102.
Recommend stabilizing remaining bare areas.



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

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



Photo 33
Sta. 354+75 LT
(RW 5L-23R)
ES Endwall 100
Project 2

Enhanced Swale Endwall 100.



Photo 34
Sta. 354+75 LT
(RW 5L-23R)
ES Endwall 100
Project 3

Enhanced Swale Endwall 100.



Photo 35
Sta. 361+39 LT
(RW 5L-23R)
Structure 100
Project 3

Structure 100.
Recommend stabilizing remaining bare areas.



Photo 36
Sta. 363+35 LT
(RW 5L-23R)
Existing Structure
Project 2

Existing Structure.



Photo 37
Sta. 366+25 LT
(RW 5L-23R)
Existing Structure
Project 2

Existing Structure.
Recommend stabilizing bare areas.



Photo 38
Sta. 369+11 LT
(RW 5L-23R)
Existing Structure
Project 2

Existing Structure.
Recommend stabilizing bare areas.



Photo 39
Sta. 677+00 RT
(RW 5L-23R)
Existing Structure
Project 4

Structure south of Taxiway "G".
Slopes started to rill after recent storm event. Sediment has migrated to structure.
Recommend repairing rills and removing accumulated sediment.
Recommend stabilizing bare areas.



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

Structure between Taxiway G and UPS Facility.



Photo 41
Sta. 676+00 RT
(RW 5L-23R)
Project 4

New structure recently placed.
Area recently backfilled, inlet protection installed, and erosion control blanket installed.



Photo 42
New structure
Project 4

Above new structure north of Taxiway Golf.
Erosion of shoulder has occurred.
CHA, Harper and KMAA were made aware of the issue during a progress meeting dated 07/16/2020.



Photo 43
(RW 5L-23R)
Existing Structure
Project 4

Existing structure south of Taxiway G
Sediment tubes recently replaced.
Recommend stabilizing bare areas.



Photo 44
(RW 5L-23R)
Existing Structure
Project 4

Existing structure south of Taxiway G.



Photo 45
(RW 5L-23R)
Existing Structure
Project 4

Existing structure north of Taxiway G.



Photo 46
Sta. 366+89 RT
(RW 5L-23R)
Existing Structure
Project 4

Existing Structure adjacent to Outfall C.



Photo 47
Sta. 366+89 RT
(RW 5L-23R)
Outfall C
Project 4

Recommend removing filter fabric from this structure to allow sampling for DMR.
(Outfall C).



Photo 48
Sta. 365+69 RT
(RW 5L-23R)
Structure 300
Project 4

Structure 300



Photo 49
(RW 5L-23R)
TWY Y Tie-in
Project 4

Existing structure north of Taxiway Y.



Photo 50
(RW 5L-23R)
TWY Y Tie-in
Project 4

Existing structure south of Taxiway Y.
Bare areas recently stabilized.



Photo 51
Sta. 362+02 LT
(RW 5L-23R)
Structure 400
Project 4

Structure 400.
Bare areas recently stabilized.



Photo 52
Sta. 353+56 RT
(RW 5L-23R)
Structure 20
Project 4

Structure 20.



Photo 53
Sta. 347+26 RT
(RW 5L-23R)
Structure 22
Project 4

Structure 22.
Sediment tubes recently relocated to edge of sod. Recommend stabilizing bare areas.



Photo 54
Sta. 353+56 RT
(RW 5L-23R)
Structure 200
Project 4

Structure 200.



Photo 55
Sta. 347+26 RT
(RW 5L-23R)
Structure 202
Project 4

Structure 202.
Rills and sediment migration occurred after recent storm events.



Photo 56
Sta. 341+86 RT
(RW 5L-23R)
Structure 204
Project 4

Structure 204.



Photo 57
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 58
Sta. 338+02 RT
(RW 5L-23R)
Structure 206
Project 4

Structure 206.



Photo 59
(RW 5L-23R)
Project 4

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



Photo 60
Sta. 338+02 RT
(RW 5L-23R)
Structure 208
Project 4

Structure 208.



Photo 61
Sta. 329+86 RT
(RW 5L-23R)
Structure 210
Project 3

Structure 210.
Bare areas recently stabilized.



Photo 62
Sta. 321+73 RT
(RW 5L-23R)
Structure 212
Project 3

Structure 212.
Recommend removing accumulated sediment and replacing damaged sediment tubes.



Photo 63
Sta. 314+32 RT
(RW 5L-23R)
Structure 214
Project 3

Structure 214.



Photo 64
Sta. 307+99 RT
(RW 5L-23R)
Structure 216
Project 3

Structure 216.



Photo 65
Sta. 301+87 RT
(RW 5L-23R)
Structure 218
Project 3

Structure 218.
Recommend stabilizing bare areas.



Photo 66
Sta. 296+83 RT
(RW 5L-23R)
Structure 220
Project 2

Structure 220.
Recommend stabilizing remaining bare areas.



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

Structure 224.



Photo 68
Sta. 288+26
(RW 5L-23R)
Structure 224
Project 2

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



Photo 69
Sta. 290+26 RT
(RW 5L-23R)
Structure 600 Ditch
Project 2

Structure 600 Ditch.
Ditch recently regraded and sod applied.
Recommend stabilizing remaining bare areas.



Photo 70
Sta. 290+26 RT
(RW 5L-23R)
Structure 222
Project 2

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



Photo 71
Sta. 290+26 RT
(RW 5L-23R)
Structure 600 Ditch
Project 2

Structure 600 ditch.
Bare areas recently stabilized.



Photo 72
Sta. 284+59
(RW 5L-23R)
Structure 600
Project 3

Structure 600.
Bare areas recently stabilized.



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

Existing structure at stone stockpile area.



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

Recently installed silt fence has been undermined from recent storm events.
Recommend removing silt fence in this area and installing sediment tubes per the attached exhibit.



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

Existing structure.



Photo 76
(RW 5L-23R)
Project 3

Silt fence recently installed.



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

Inlet 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. 32+50 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.
Asphalt recently installed.



Photo 80
Sta. 302+54
(RW 5L-23R)
Project 2

Above North Lateral Endwall 100.
Recommend stabilizing bare areas.



Photo 81
Sta. 302+54
(RW 5L-23R)
Project 2

Above North Lateral Endwall 100.
Slope recently regraded.
Recommend stabilizing bare areas.



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

Soil stockpile area next to haul road at Taxiway B.
Recommend removing accumulated sediment and installing additional sediment tubes in ditch line.
Recommend stabilizing bare areas.



Photo 83
Sta. 302+54 to Sta. 313+50
(RW 5L-23R)
Project 2

North Lateral Endwall 100.
Recommend stabilizing bare areas.



Photo 84
Sta. 300+60
(RW 5L-23R)
Project 2

North Lateral Endwall 102.



Photo 85
Sta. 29+00 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.



Photo 86
Sta. 25+50 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.



Photo 87
Sta. 297+01
(RW 5L-23R)
Project 2

North Lateral Endwall 104.



Photo 88
Sta. 295+10
(RW 5L-23R)
Project 2

North Lateral Endwall 106.



Photo 89
Sta. 22+00 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.



Photo 90
Sta. 292+08
(RW 5L-23R)
Project 2

North Lateral Endwall 108.



Photo 91
Sta. 290+50 LT
(RW 5L-23R)
Project 2

North Lateral Endwall 110.



Photo 92
Sta. 15+50 RT
Proposed Haul Route
Project 3

Inlet structure along haul road.



Photo 93
Sta. 282+45 to 288+26 LT
(RW 5L-23R)
Project 2

North Lateral Ditch.



Photo 94
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 95
Sta. 284+00 LT
(RW 5L-23R)
Project 2

Previous soil stockpile at old Liberty Street.
Construction fallout appears to have been filled with concrete.



Photo 96
(Repair TWY Lighting)

Fill area adjacent to Liberty Street from Taxiway shoulder removal.



Photo 97
(Repair TWY Lighting)
Sheet EC2.1.7

Existing structure at Upper Apron.
Asphalt recently installed.



Photo 98
(Repair TWY Lighting)
Sheet EC2.1.6

Existing remaining Taxiway G4 and shoulder being graded at time of inspection.



Photo 99
(Repair TWY Lighting)
Sheet EC2.1.6

Existing structure adjacent to demolished Taxiway G4.



Photo 100
(Repair TWY Lighting)
Sheet EC2.1.5

Existing structure at Upper Apron.
Asphalt recently installed.



Photo 101
(Repair TWY Lighting)
Sheet EC2.1.5

Existing structure at Upper Apron.