

**ATTACHMENT C**  
**NRT CQA DAILY FIELD REPORTS**

ATTACHMENT 1  
MTC COA DAILY FIELD REPORTS

# FIELD NOTE SUMMARY

**Project Number / Task:** 1965.0/4.0  
**Project Names:** Metal Cleaning Basin Liner Replacement

<b>Date:</b>	November 1, 2010
<b>Work Scope:</b>	Subgrade Inspection – Metal Cleaning Basin
<b>NRT Staff:</b>	John Swanson
<b>Contractors:</b>	Otto Baum – Dave Stewart
<b>Weather:</b>	Partly Sunny 50s degree F
<b>Equipment:</b>	Digital camera
<b>Field Comments:</b>	<u>11/1</u> <ul style="list-style-type: none"><li>• I arrive on site around 0830, checked in at gate house.</li><li>• Completed contractor safety training with Mark Kelly of Midwest Gen</li><li>• Otto Baum preparing weir wall, removing steel gates, exposed ends, northern side slope requires further grading/shaping.</li><li>• Hypalon liner removed from all side slopes.</li><li>• Additional material added to side slopes and base of basin, soft spots repaired, and rough grading and shaping complete.</li><li>• Concrete inlet aprons on south end of basin demolished.</li><li>• West side of concrete ramp to be exposed.</li><li>• Question from Otto Baum regarding specific construction of joints and water stops in weir extension. Need clarification by 11/2 am.</li><li>• Asked Dave Stewart to remove large pieces of hypalon under newly placed material on side slopes and further compact eastern side slope.</li><li>• Concrete form layout and rebar over the next couple of days. Concrete pour likely Wednesday or Thursday according to Dave S.</li><li>• Left site at 1400</li></ul>
<b>Scope Changes:</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Site Conditions:</b>	In good condition, compaction of eastern side slope and grading of northern side slope required.

**Signature:** 

**Date:** 11/1/10

John P. Swanson



View of basin subgrade from the northwest corner of the basin facing southeast. Note concrete aprons and hypalon removed.



View of excavated weir wall during steel gate removal.

# FIELD NOTE SUMMARY

Project Number / Task: 1965.0/4.0

Project Names: Metal Cleaning Basin Liner Replacement

<b>Date:</b>	November 4-5, 2010
<b>Work Scope:</b>	Subgrade and Rebar Inspection – Metal Cleaning Basin
<b>NRT Staff:</b>	John Swanson
<b>Contractors:</b>	Otto Baum – Dave Stewart; CAAW – Brian McKeown
<b>Weather:</b>	Partly Sunny 40s-50s degree F
<b>Equipment:</b>	Digital camera
<b>Field Comments:</b>	<p><u>11/4</u></p> <ul style="list-style-type: none"> <li>• I arrive on site around 1155, checked in at gate house.</li> <li>• CAAW inspected and approved subgrade with some general smoothing. Inspected and approved test anchor trench.</li> <li>• CAAW inspected and approved in place concrete structures. Plan to attach batten strips over the top of end of existing concrete ramp due to elevation of subgrade.</li> <li>• Inspected rebar in weir wall extension. Rebar installed and sealed with adhesive per rebar submittal except two pieces of bar in ends of existing walls. Requested that those to be installed on each end.</li> <li>• Bottom toes on apron could only be excavated ~12 inches due to poz-o-pac. Top toe increased to 3 feet except western apron which was 18 inches due to poz-o-pac.</li> <li>• Weld strips installed in concrete forms for aprons. Additional shipped overnight for weir wall.</li> <li>• Left site at 1700</li> </ul> <p><u>11/5</u></p> <ul style="list-style-type: none"> <li>• I arrive on site around 0800, checked in at gate house.</li> <li>• Rebar added to ends of weir wall. Epoxy bonding agent added to top. Waterstops in place and weld strips installed.</li> <li>• Whitney Materials Testing onsite for air test, slump, and cylinders.</li> <li>• Pour began at 0915 and continued ~1415, covered concrete with plastic sheeting</li> <li>• Left site at 1430</li> </ul>
<b>Scope Changes:</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Site Conditions:</b>	In good condition.

Signature:



Date: 11/5/10

John P. Swanson



View of the concrete apron forms. Note HDPE weld strip.



View of the construction of the concrete apron.

# FIELD NOTE SUMMARY

**Project Number / Task:** 1965.0/4.0

**Project Names:** Metal Cleaning Basin Liner Replacement

<b>Date:</b>	November 9-10, 2010
<b>Work Scope:</b>	Liner Installation – Metal Cleaning Basin
<b>NRT Staff:</b>	John Swanson
<b>Contractors:</b>	Otto Baum – Dave Stewart; CAAW
<b>Weather:</b>	Partly Sunny 60s-70s degree F
<b>Equipment:</b>	Digital camera
<b>Field Comments:</b>	<p><u>11/9</u></p> <ul style="list-style-type: none"> <li>I arrive on site around 0730, checked in at gate house.</li> <li>CAAW onsite filling sand bags. Began installing 16oz geotextile on western sidewall, thermally bonding the seams, and following with HDPE liner and double track seaming.</li> <li>Otto Baum to cover wing wall with soil, clean out around ramp, cut protruding wings off the sides of aprons.</li> <li>Otto Baum excavating anchor trench on east side of basin.</li> <li>16 oz geotextile and HPDE liner installed on southern half of western sidewall and placed on southern sidewall around aprons.</li> <li>Pressure testing of seams tomorrow, destructive testing of seam samples completed.</li> <li>Left site at 1630</li> </ul> <p><u>11/10</u></p> <ul style="list-style-type: none"> <li>I arrive on site around 0745, checked in at gate house.</li> <li>CAAW pressure testing seams, detailing/welding around aprons, and destructive testing of extrusion welding and seaming samples completed.</li> <li>Otto Baum completed anchor trench, covered weir wing walls, and cleaned out around ramp.</li> <li>CAAW finished 16oz geotextile and liner installation on the northern portion of the west sidewall and around aprons to the southeast corner.</li> <li>Left site at 1430</li> </ul>
<b>Scope Changes:</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Site Conditions:</b>	In good condition.

**Signature:**



John P. Swanson

**Date:** 11/11/10



View of 16 oz geotextile being placed on the western slope and thermally bonded at the seams.



View of extrusion seaming around aprons.



**FIELD NOTE SUMMARY**

**Project Number / Task:** 1965.0/4.0  
**Project Names:** Metal Cleaning Basin Liner Replacement

<b>Date:</b>	November 11-12, 2010
<b>Work Scope:</b>	Liner Installation – Metal Cleaning Basin
<b>NRT Staff:</b>	John Swanson
<b>Contractors:</b>	Otto Baum – Dave Stewart; CAAW
<b>Weather:</b>	Partly Sunny 60s-70s degree F
<b>Equipment:</b>	Digital camera
<b>Field Comments:</b>	<p><u>11/11</u></p> <ul style="list-style-type: none"> <li>• I arrive on site around 0730, checked in at gate house.</li> <li>• CAAW finished installing 16oz geotextile and HDPE liner on northern and eastern sidewalls.</li> <li>• CAAW seamed remaining panels, welded liner to weir wall, booted marker posts, pressure tested remaining seams, destructive tested sample seams.</li> <li>• Otto Baum backfilled and compacted the western and southern portions of the anchor trench in two lifts.</li> <li>• Left site at 1530</li> </ul> <p><u>11/12</u></p> <ul style="list-style-type: none"> <li>• I arrive on site around 0745, checked in at gate house.</li> <li>• CAAW finished welding liner to weir wall, repaired damaged areas and seam defects, vacuum tested extrusion seams, attached liner to existing concrete structures with batten strips and caulk, and placed 12oz geotextile over liner and ~4 feet up side walls..</li> <li>• Otto Baum continued backfilling anchor trench.</li> <li>• Left site at 1230</li> </ul>
<b>Scope Changes:</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Site Conditions:</b>	In good condition.

**Signature:** 

**Date:** 11/13/10

John P. Swanson



View of liner being attached to weir wall HDPE weld strip.



View of extrusion seaming vacuum testing.

# FIELD NOTE SUMMARY

**Project Number / Task:** 1965.0/4.0  
**Project Names:** Metal Cleaning Basin Liner Replacement

<b>Date:</b>	November 17-19, 2010
<b>Work Scope:</b>	Cushion and Warning Layer Placement – Metal Cleaning Basin
<b>NRT Staff:</b>	John Swanson
<b>Contractors:</b>	Otto Baum – Dave Stewart; CAAW
<b>Weather:</b>	Partly Sunny 40s-50s degree F
<b>Equipment:</b>	Digital camera
<b>Field Comments:</b>	<p><u>11/17</u></p> <ul style="list-style-type: none"><li>• I arrive on site around 0745, checked in at gate house.</li><li>• Cushion layer placement – dumped on concrete ramp and spread with skid loader keeping 1 ft between equipment and liner.</li><li>• Cushion layer placed over approximately half of basin.</li><li>• Left site at 1500</li></ul> <p><u>11/18</u></p> <ul style="list-style-type: none"><li>• I arrive on site around 0745, checked in at gate house.</li><li>• Cushion layer placement continued. Laser guided grading box and laser level used for final elevation.</li><li>• Left site at 1500</li></ul> <p><u>11/19</u></p> <ul style="list-style-type: none"><li>• I arrive on site around 0745, checked in at gate house.</li><li>• Cushion layer placement completed and graded with laser guided grading box on skid loader.</li><li>• Started placing white rock CA-6 as warning layer.</li><li>• Left site at 1230</li></ul>
<b>Scope Changes:</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Site Conditions:</b>	In good condition.

**Signature:** 

**Date:** 11/20/10

John P. Swanson



View of liner placement of cushion layer sand.



View of finished cushion layer and beginning of warning layer.

# FIELD NOTE SUMMARY

**Project Number / Task:** 1965.0/4.0  
**Project Names:** Metal Cleaning Basin Liner Replacement

<b>Date:</b>	November 24, 2010
<b>Work Scope:</b>	Warning Layer Inspection – Metal Cleaning Basin
<b>NRT Staff:</b>	John Swanson
<b>Contractors:</b>	Offsite
<b>Weather:</b>	Rainy mid 30s degree F
<b>Equipment:</b>	Digital camera
<b>Field Comments:</b>	<u>11/24</u> <ul style="list-style-type: none"><li>• I arrive on site around 1115, checked in at gate house.</li><li>• Otto Baum left around 10:30 due to poor weather.</li><li>• Warning layer placed and compacted. Some clean up and finishing required around ramp, aprons, and marker posts. Called Dave with Otto Baum, scheduled to be completed before leak detection survey.</li><li>• Rip rap placed north of weir wall.</li><li>• Left site at 1230</li></ul>
<b>Scope Changes:</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Site Conditions:</b>	In good condition. Some cleanup and finishing/smoothing of warning layer required around ramp, aprons, and marker posts.

**Signature:**



**Date:** 11/25/10

John P. Swanson



View of warning layer in the southern end of basin where additional cleanup and finishing is required.



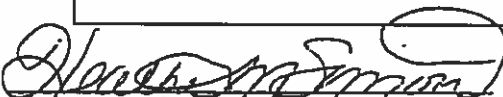
View of finished rip rap north of weir wall.

# FIELD NOTE SUMMARY

Project Number / Task: 1965.0/4.0  
Project Names: Metal Cleaning Basin Liner Replacement

Date:	March 17, 2011
Work Scope:	Leak Location Survey – Metal Cleaning Basin
NRT Staff:	Heather Simon
Contractors:	Otto Baum – Dave Stewart, Leak Location Services – John Ortiz
Weather:	
Equipment:	Digital camera
Field Comments:	<u>12/2</u> <ul style="list-style-type: none"><li>• I arrive on site around 0900, checked in at gate house.</li><li>• I arrive at basins and meet with Dave Stewart and John Ortiz.</li><li>• Otto Baum is exposing the liner at the toe of the ramp to isolate the weld strip.</li><li>• Begin leak location survey at 1130.</li><li>• False readings from the geotextile locked on aprons. Otto Baum removed the geotextile at the base of the aprons since it's not needed.</li><li>• Survey completed at 1500. One 3-inch leak located under the warning layer ~100 ft from the weir wall.</li><li>• Otto Baum will coordinate with Clean Air and Water to repair the leak.</li></ul>
Scope Changes:	<ul style="list-style-type: none"><li>• None</li></ul>
Site Conditions:	In good condition.

Signature:

  
Heather M. Simon

Date:

3/18/11



View Looking Northwest Along Ramp.



# FIELD NOTE SUMMARY

Project Number / Task: 1965.5/5.3  
Project Names: Bypass Basin Liner Replacement

Date:	November 11-12, 2010
Work Scope:	Subgrade Preparation – Bypass Basin
NRT Staff:	John Swanson
Contractors:	Otto Baum – Dave Stewart
Weather:	Partly Sunny 60s-70s degree F
Equipment:	Digital camera
Field Comments:	<u>11/11</u> <ul style="list-style-type: none"><li>• I arrive on site around 0730, checked in at gate house.</li><li>• Otto Baum removing 16 inches of pozopac from the base of the basin and removing existing hypalon liner.</li><li>• Completed approximately 75% of gross removal of pozopac</li><li>• Left site at 1530</li></ul> <u>11/12</u> <ul style="list-style-type: none"><li>• I arrive on site around 0745, checked in at gate house.</li><li>• Otto Baum continuing removal of pozopac and hypalon liner.</li><li>• Began final grading.</li><li>• Left site at 1230</li></ul>
Scope Changes:	<ul style="list-style-type: none"><li>• None</li></ul>
Site Conditions:	In good condition.

Signature:



Date: 11/12/10

John P. Swanson



**View of pozopac removal and subgrade preparation.**



**View of pozopac load out and subgrade preparation.**

# FIELD NOTE SUMMARY

Project Number / Task: 1965.5/5.3  
 Project Names: Bypass Basin Liner Replacement

<b>Date:</b>	November 17-19, 2010
<b>Work Scope:</b>	Liner Installation – Bypass Basin
<b>NRT Staff:</b>	John Swanson
<b>Contractors:</b>	Otto Baum – Dave Stewart; CAAW
<b>Weather:</b>	Partly Sunny 40s-50s degree F
<b>Equipment:</b>	Digital camera
<b>Field Comments:</b>	<p><u>11/17</u></p> <ul style="list-style-type: none"> <li>• I arrive on site around 0745, checked in at gate house.</li> <li>• CAAW installed 16oz geotextile and HDPE liner in entire basin.</li> <li>• CAAW seamed remaining panels, began pressure testing seams, destructive tested sample seams.</li> <li>• Left site at 1500</li> </ul> <p><u>11/18</u></p> <ul style="list-style-type: none"> <li>• I arrive on site around 0745, checked in at gate house.</li> <li>• CAAW booted marker posts, installed batten strips and caulk on existing concrete structures, finished pressure testing, patched seams, vacuum tested patches.</li> <li>• Left site at 1500</li> </ul> <p><u>11/19</u></p> <ul style="list-style-type: none"> <li>• I arrive on site around 0745, checked in at gate house.</li> <li>• Liner surveyed including seams, anchor trench, repairs, patches, and marker posts</li> <li>• CAAW installed and thermally bonded 12 oz geotextile. A double layer was installed on the ramp.</li> <li>• Otto Baum backfilled anchor trench.</li> <li>• Left site at 1230</li> </ul>
<b>Scope Changes:</b>	<ul style="list-style-type: none"> <li>• None</li> </ul>
<b>Site Conditions:</b>	In good condition.

Signature: 

Date: 11/19/10

John P. Swanson



View of 16 oz geotextile in place and HDPE liner being placed.



View of finished liner with finished 12 oz geotextile .

# FIELD NOTE SUMMARY

Project Number / Task: 1965.5/5.3  
Project Names: Bypass Basin Liner Replacement

<b>Date:</b>	November 24, 2010
<b>Work Scope:</b>	Warning Layer Inspection – Bypass Basin
<b>NRT Staff:</b>	John Swanson
<b>Contractors:</b>	Offsite
<b>Weather:</b>	Rainy mid 30s degree F
<b>Equipment:</b>	Digital camera
<b>Field Comments:</b>	<u>11/24</u> <ul style="list-style-type: none"><li>• I arrive on site around 1115, checked in at gate house.</li><li>• Otto Baum left around 10:30 due to poor weather.</li><li>• Ramp built with 6 in of cushion layer and 6 in of rolled warning layer.</li><li>• Cushion layer partially placed in the southern portion of the basin. Remaining cushion and warning layers will be placed when weather allows.</li><li>• Left site at 1230</li></ul>
<b>Scope Changes:</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Site Conditions:</b>	In good condition.

Signature: 

Date: 11/24/10

\_\_\_\_\_  
John P. Swanson



**View of partially placed cushion layer in southern portion of the basin.**



**View of finished ramp into bypass basin.**

# FIELD NOTE SUMMARY

Project Number / Task: 1965.5/5.3  
Project Names: Bypass Basin Liner Replacement

<b>Date:</b>	December 1, 2010
<b>Work Scope:</b>	Subgrade and Warning Layer Inspection – Bypass Basin
<b>NRT Staff:</b>	John Swanson
<b>Contractors:</b>	Otto Baum
<b>Weather:</b>	Overcast 25 degrees F
<b>Equipment:</b>	Digital camera
<b>Field Comments:</b>	<u>11/24</u> <ul style="list-style-type: none"><li>• I arrive on site around 0715, checked in at gate house.</li><li>• Otto Baum onsite pumping water and placing warning layer on the southern portion of the basin.</li><li>• Cushion layer is solid and holding up well to equipment with the exception of the a few areas in the northern portion of the basin. Otto Baum to continue pumping water out of basin.</li><li>• Soft material will be removed and replaced with dry material before warning layer is placed over.</li><li>• Left site at 1000</li></ul>
<b>Scope Changes:</b>	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Site Conditions:</b>	In good condition. Pumping and material placement required in northern portion of basin.

Signature:



John P. Swanson

Date: 12/1/10



**View of soft spots and ponding in the northern portion of the basin.**



**View of placement of warning layer in the southern portion of the basin.**



# FIELD NOTE SUMMARY

Project Number / Task: 1965.0/5.3

Project Names: Bypass Basin Liner Replacement

Date:	December 2, 2010
Work Scope:	Leak Location Survey – Bypass Basin
NRT Staff:	Eric Tlachac
Contractors:	Otto Baum – Dave Stewart, Leak Location Services – John Ortiz
Weather:	Cloudy with flurries, 30s degree F
Equipment:	Digital camera
Field Comments:	<u>12/2</u> <ul style="list-style-type: none"><li>• I arrive on site around 0900, checked in at gate house.</li><li>• I arrive at basins and meet with Dave Stewart and John Ortiz.</li><li>• Otto Baum is working on the metal cleaning basin warning layer, and the leak location survey is being prepared on the bypass basin.</li><li>• The leak location survey cannot be performed on the metal cleaning basin because it is frozen. Wait until spring to perform.</li><li>• Begin leak location survey calibration on bypass basin at 1030. Calibration is successful.</li><li>• Begin leak location survey at 1100.</li><li>• Survey completed at 1310. One leak located at the bottom of the ramp near the outer marker post.</li><li>• Clean Air and Water scheduled to repair the leak on Monday (12/6)</li><li>• Leak location survey calibration failed on the Metal Cleaning Basin.</li><li>• Will flood the metal cleaning basin in attempt to melt ice and will attempt calibration again tomorrow.</li><li>• Left site a 1615.</li></ul>
Scope Changes:	<ul style="list-style-type: none"><li>• None</li></ul>
Site Conditions:	In good condition. Metal cleaning basin has about 1 inch of ice on bottom preventing the leak location survey.

Signature: Eric J. Tlachac  
Eric J. Tlachac

Date: 12/2/10



View of the bypass basin during the leak location survey.



View of the uncovered leak in the bypass basin from the detection survey.