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# Bridge Asbestos Inspection Report

**WisDOT Project ID:** 1080-12-00
**Structure Number:** B-64-0032, B-64-0033, B-64-0039, B-64-0040, B-64-0048, B-64-0049
**Structure Name:** USH 12 WB & EB over STH 120, Springfield Rd over USH 12, Como Rd over USH 12, STH 67 NB & SB over USH 12
**City/County:** Walworth County
**TRC Project Number:** 204610.0000.0000
**Date Inspected:** September 9, 2013
**Inspected By/License Number:** John Roelke, AII-119523

**Findings:**

The inspection to identify and collect samples of potential asbestos-containing material (ACM) was completed following WisDOT standard sampling procedure for bridge inspections found in FDM 21-35-45.

On B-64-0039 and B-64-0040, the gaskets under the railing attachment plates tested positive for asbestos greater than 1% and is therefore regulated ACM. The ACM will be likely be disturbed during the planned replacement, therefore the ACM must be removed prior to demolition. Standard Special Provision (STSP) 203-005 should be incorporated into the specifications.

None of the materials that were identified on B-64-0032 and B-64-0048 as potentially ACM and sampled tested positive for asbestos. No potential ACM was identified on B-64-0033 and B-64-0049. STSP 107-125 should be included in the specifications.

| Sample Number | Sample Description | Sample Location | Analytical Results and Method | Friable/ Non-friable or No ACM | Quantity of ACM Material |
|---|---|---|---|---|---|
| B-64-0032 | | | | | |
| 1 | Tar-like material | Where parapet meets bridge deck | PLM, non-detect | No ACM | 0 |
| 2 | Tar-like material | Where parapet meets bridge deck | PLM, non-detect | No ACM | |
| 3 | Tar-like material | Where parapet meets bridge deck | PLM, non-detect | No ACM | |

| Sample Number | Sample Description | Sample Location | Analytical Results and Method | Friable/ Non-friable or No ACM | Quantity of ACM Material |
|---|---|---|---|---|---|
| B-64-0033 | | | | | |
| No suspect material identified. No samples collected. | | | | | |
| B-64-0039 | | | | | |
| 1 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | 0 |
| 2 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |
| 3 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |
| 4 | Gasket | Under railing attachment plate | PLM, 10% | Non-friable | 20 sq ft |
| 5 | Gasket | Under railing attachment plate | Not analyzed, positive stop | -- | |
| 6 | Gasket | Under railing attachment plate | Not analyzed, positive stop | -- | |
| 7 | Tar-like material | Where parapet meets bridge deck & in deck cracks | PLM, non-detect | No ACM | 0 |
| 8 | Tar-like material | Where parapet meets bridge deck & in deck cracks | PLM, non-detect | No ACM | |
| 9 | Tar-like material | Where parapet meets bridge deck & in deck cracks | PLM, non-detect | No ACM | |

| Sample Number | Sample Description | Sample Location | Analytical Results and Method | Friable/ Non-friable or No ACM | Quantity of ACM Material |
|---|---|---|---|---|---|
| B-64-0040 | | | | | |
| 1 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | 0 |
| 2 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |
| 3 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |
| 4 | Gasket | Under railing attachment plate | PLM, 5% | Non-friable | 29 sq ft |
| 5 | Gasket | Under railing attachment plate | Not analyzed, positive stop | -- | |
| 6 | Gasket | Under railing attachment plate | Not analyzed, positive stop | -- | |
| 7 | Tar-like material | Where parapet meets bridge deck & in deck cracks | PLM, non-detect | No ACM | 0 |
| 8 | Tar-like material | Where parapet meets bridge deck & in deck cracks | PLM, non-detect | No ACM | |
| 9 | Tar-like material | Where parapet meets bridge deck & in deck cracks | PLM, non-detect | No ACM | |
| B-64-0048 | | | | | |
| 1 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | 0 |
| 2 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |
| 3 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |
| B-64-0049 | | | | | |
| No suspect materials identified. No samples collected. | | | | | |

If you have any questions, please contact me, at (608) 826-3628.

TRC Environmental Corporation

Daniel Haak
Project Manager

John Roelke
Asbestos Inspector

Attachments: Location Map, Photos, and Laboratory Reports

Report Distribution:

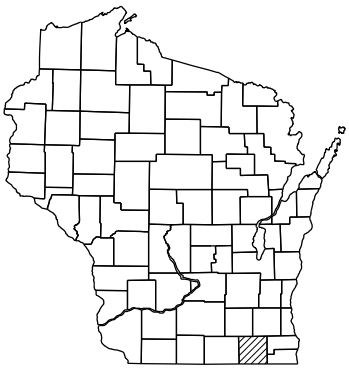
| Recipient | Electronic (PDF) Copy | Paper Copy |
|---|---|---|
| BTS-ESS sharlene.tebeest@dot.wi.gov | X (via email) | X |
| REC Michael.cape@dot.wi.gov | X (via email) | |
| Project Manager allen.gilbertson@dot.wi.gov | X (via email) | |
| Other | | |

# LAKE GENEVA-ELKHORN RD

## STH 67 TO STH 50

## USH 12

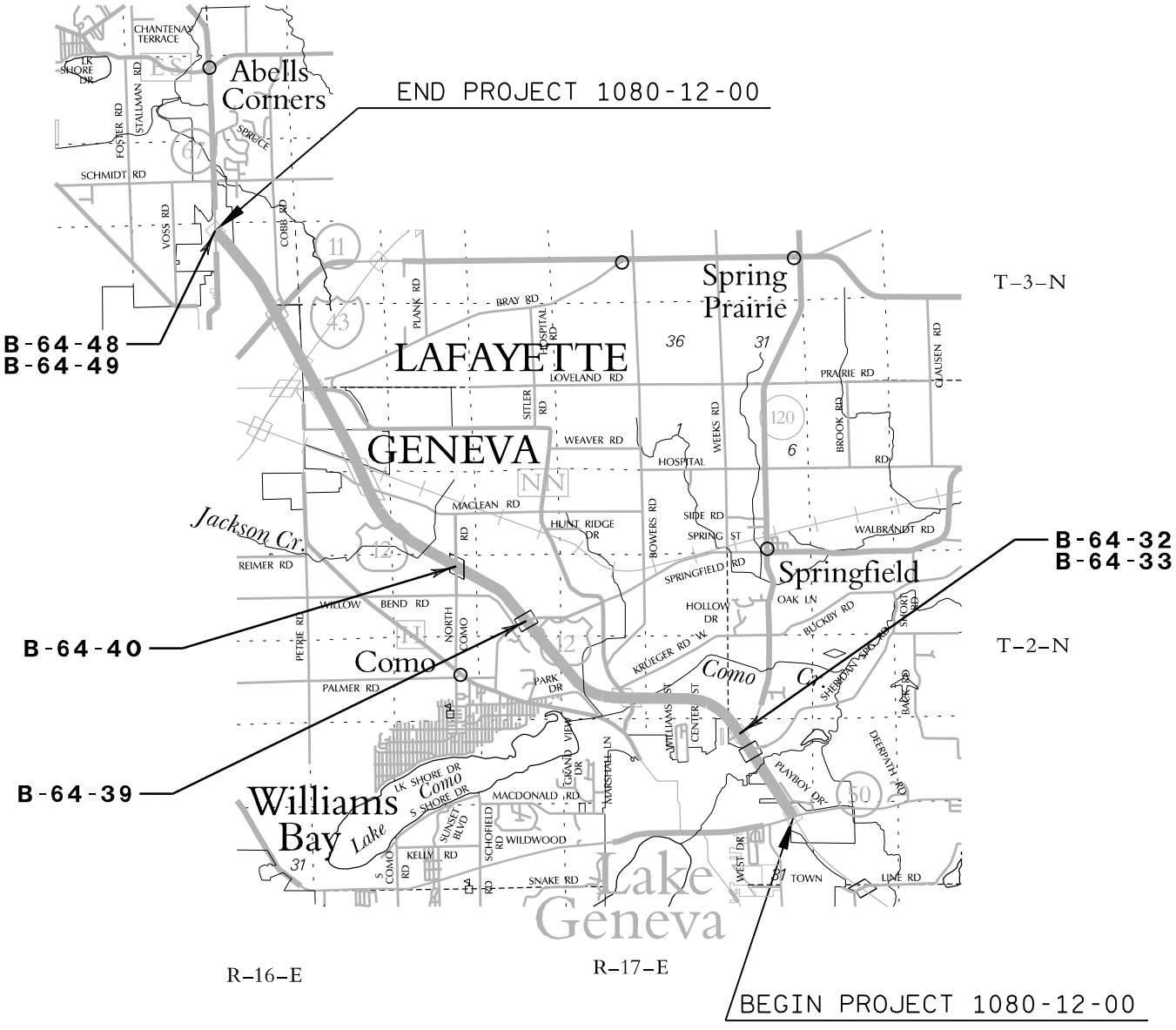
## WALWORTH



STATE PROJECT NUMBER
**1080-12-00**

N

## SUPPLEMENTAL ASBESTOS INSPECTION LOCATION MAP




LAYOUT
SCALE 0 1 MI.

# B-64-0032


Tar-like material where parapet meets bridge deck

# B-64-0033

No suspect materials

# B-64-0039

Caulk in parapet expansion joint

Gasket under railing attachment plate

Tar-like material in deck cracks and where parapet meets deck

# B-64-0040

Caulk in parapet expansion joint

Gasket under railing attachment plate

Tar-like material in deck cracks and where parapet meets deck

# B-64-0048

Caulk in parapet expansion joint

# B-64-0049

No suspect materials

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# BULK ASBESTOS ANALYSIS REPORT

CLIENT: Wisconsin Department of Transportation

| | |
|---|---|
| Lab Log #: | 0042870 |
| Project #: | 204610.0000.0000 |
| Date Received: | 09/12/2013 |
| Date Analyzed: | 09/12/2013 |

Site: DOT Bridge Inspection, B-64-32

## POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

| Sample No. | Color | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|---|---|---|---|---|---|---|---|
| B-64-32 (1) | Black | Yes | No | - - | - - - | ND<1% | None |
| B-64-32 (2) | Black | Yes | No | - - | - - - | ND<1% | None |
| B-64-32 (3) | Black | Yes | No | - - | - - - | ND<1% | None |

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2014. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2014. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.



**Analyzed by:** K. Williamson
Kathleen Williamson, Laboratory Manager

**Reviewed by:** Amanda Parkins
Amanda Parkins, Approved Signatory

**Date Issued**
09/13/2013

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21 Griffin Road North
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(860) 298-6308



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# BULK ASBESTOS ANALYSIS REPORT

CLIENT: Wisconsin Department of Transportation

| | |
|---|---|
| Lab Log #: | 0042884 |
| Project #: | 204610.0000.0000 |
| Date Received: | 09/12/2013 |
| Date Analyzed: | 09/13/2013 |

Site: DOT Bridge Inspection, B-64-39

## POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

| Sample No. | Color | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|---|---|---|---|---|---|---|---|
| B-64-39 (1) | Grey | Yes | No | - - | - - - | ND<1% | None |
| B-64-39 (2) | Grey | Yes | No | - - | - - - | ND<1% | None |
| B-64-39 (3) | Grey | Yes | No | - - | - - - | ND<1% | None |
| B-64-39 (4) | Grey | Yes | No | - - | - - - | 10% | Chrysotile |
| B-64-39 (5) | - - | - - | - - | - - | - - | NA/PS | - - |
| B-64-39 (6) | - - | - - | - - | - - | - - | NA/PS | - - |
| B-64-39 (7) | Black | Yes | No | - - | - - - | ND<1% | None |
| B-64-39 (8) | Black | Yes | No | - - | - - - | ND<1% | None |
| B-64-39 (9) | Black | Yes | No | - - | - - - | ND<1% | None |

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

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**Analyzed by:** K. Williamson — Kathleen Williamson, Laboratory Manager

**Reviewed by:** Amanda Parkins — Amanda Parkins, Approved Signatory

**Date Issued** 09/13/2013

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000356
RI #AAL-007C3 TX #300354 VT #AL014538 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #10275CA

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# BULK ASBESTOS ANALYSIS REPORT

CLIENT: Wisconsin Department of Transportation

Lab Log #: 0042869
Project #: 204610.0000.0000
Date Received: 09/12/2013
Date Analyzed: 09/13/2013

Site: DOT Bridge Inspection, B-64-40

## POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

| Sample No. | Color | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|---|---|---|---|---|---|---|---|
| B-64-40 (1) | Grey | Yes | No | - - | - - - | ND<1% | None |
| B-64-40 (2) | Grey | Yes | No | - - | - - - | ND<1% | None |
| B-64-40 (3) | Grey | Yes | No | - - | - - - | ND<1% | None |
| B-64-40 (4) | Dark Grey | Yes | No | - - | - - - | 5% | Chrysotile |
| B-64-40 (5) | - - | - - | - - | - - | - - | NA/PS | - - |
| B-64-40 (6) | - - | - - | - - | - - | - - | NA/PS | - - |
| B-64-40 (7) | Black | Yes | No | - - | - - - | ND<1% | None |
| B-64-40 (8) | Black | Yes | No | - - | - - - | ND<1% | None |
| B-64-40 (9) | Black | Yes | No | - - | - - - | ND<1% | None |

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

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**Analyzed by:** K. Williamson
Kathleen Williamson, Laboratory Manager

**Reviewed by:** Amanda Parkins
Amanda Parkins, Approved Signatory

**Date Issued**
09/13/2013

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000356
RI #AAL-007C3 TX #300354 VT #AL014538 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #10275CA

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# BULK ASBESTOS ANALYSIS REPORT

CLIENT: Wisconsin Department of Transportation

| | |
|---|---|
| Lab Log #: | 0042882 |
| Project #: | 204610.0000.0000 |
| Date Received: | 09/12/2013 |
| Date Analyzed: | 09/13/2013 |

Site: DOT Bridge Inspection, B-64-48

## POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

| Sample No. | Color | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|---|---|---|---|---|---|---|---|
| B-64-48 (1) | Grey | Yes | No | - - | - - - | ND<1% | None |
| B-64-48 (2) | Grey | Yes | No | - - | - - - | ND<1% | None |
| B-64-48 (3) | Grey | Yes | No | - - | - - - | ND<1% | None |

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2014. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2014. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.



**Analyzed by:** K. Williamson
Kathleen Williamson, Laboratory Manager

**Reviewed by:** Amanda Parkins
Amanda Parkins, Approved Signatory

**Date Issued**
09/13/2013