B-14-0116_oth

List of Attachments

Attachment 1 – WDNR Initial Review Letter (7/24/2019)

Attachment 2 – B-14-116 Bridge Asbestos Inspection Report

Attachment 3 – B-14-116 Inspection Report (8/14/2018)

Attachment 4 – Field Information Joint Measurements

Attachment 5 – B-14-116 Deficiency Sketches



Attachment 1 WDNR Initial Review Letter (7/24/2019)



State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
3911 Fish Hatchery Road
Fitchburg, WI 53711

Tony Evers, Governor Preston D. Cole, Secretary

Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



July 24, 2019

James Buschkopf WisDOT Southwest Region 111 Interstate Blvd. Edgerton, WI 53534

Subject: DNR Initial Project Review

Project I.D. 1170-00-30/60

IH 41

STH 28 B-14-0110 & Soo Road B-14-0116

(Allenton – Fond Du Lac)

Dodge County

Dear Mr. Buschkopf:

The Wisconsin Department of Natural Resources (DNR) has received the information you provided for the above-referenced project. According to your proposal, the purpose of this project is to rehabilitate two bridges over Interstate Highway 41 in northeastern Dodge County. The project will include polymer overlay, concrete surface repair, replacement of expansion joints and beam guard replacement. Minor grading and shoulder widening will be required for the beam guard updates.

Preliminary information has been reviewed by DNR staff for the project under the DNR/DOT (Wisconsin Department of Transportation) Cooperative Agreement. Initial comments on the project as proposed are included below, and we assume that additional information will be provided that addresses all resource concerns identified. To ensure compliance with resource protections, we are recommending that Special Provisions be developed for specific resource protections described below. DNR expects that the full range of DOT roadway standards will be applied throughout the design and construction process.

A. Project-Specific Resource Concerns

Public Lands:

Public lands are present in the vicinity of this project. The Theresa Marsh wildlife Area is located adjacent to these bridges. This 5,860-acre property is managed for wildlife production, as a migration stopover area for waterfowl and other birds and for a variety of recreational opportunities including hunting, trapping, fishing, bird watching, hiking and snowmobiling. The property is dominated by wetlands, including emergent marsh, floodplain forest and open water habitat. There is a public access driveway in the SW quadrant of the Soo Road bridge and a public parking lot and access in the northwest quadrant of the STH 28 bridge. Based on the scope of the project, it appears that the project will not require right-of-way taking or easement from the wildlife area. Public access to these facilities



should remain open and available to the public during construction. If there is potential for impacts to these lands, including disruption to users, please begin coordination with us as soon as possible. <u>First</u> and foremost, every effort should be taken to avoid impacts to these lands.

Wetlands:

There are wetlands located adjacent to the structures. Wetlands are located at the toe-of-slope of the B-14-0110 structure in all quadrants and in the northwestern and southwestern quadrants of the B-14-0116 structure. The wetlands appear to be outside of likely beam guard disturbance area and should not be impacted by this project. We request information regarding wetland impacts if it is determined that there will be grading outside of the existing road shoulders or within wetland areas.

Fisheries/Stream Work:

The project does not include work in any waterways or water bodies.

Endangered Resources:

Based upon a review of the Natural Heritage Inventory (NHI) dated July 22, 2019, there are no known Endangered Resources or suitable habitat that could be impacted by this project. With this review the following has also been determined:

- There are no known Northern Long-eared Bat (NLEB) maternity roost trees within 150 feet of the project, or known hibernacula within 0.25 miles of the proposed project area.
- This project is located outside of any High Potential Zones (HPZ) for the Rusty Patched Bumblebee (RPBB), and therefore should have no impact on this federally endangered species.

Floodplains:

A determination must be made as to whether the project lies within a mapped/zoned floodplain. Any proposed temporary or permanent changes to the road or waterway geometry in mapped floodplain areas requires that DOT coordinate with the Dodge County Zoning Administrator to ensure compliance with the local zoning ordinance and NR116. Examples of floodplain development activity includes, but not limited to, the following: changes to waterway crossings; culvert extensions; changes to road surface elevations and/or side-slopes; temporary causeways; temporary structures; general fill.

• A preliminary review of the Surface Water Data Viewer (SWDV) indicates that floodplain conditions exist within or near the project limits.

Storm Water Management & Erosion Control:

- For projects disturbing an acre or more of land, erosion control and storm water measures must adhere to the Wisconsin Pollutant Discharge Elimination System Transportation Construction General Permit (TCGP) for Storm Water Discharges. Coverage under TCGP is required prior to construction. DOT should apply for permit coverage just before the project goes to final PS&E. Permit coverage will be issued by the DNR after design is complete and documentation shows that the project will meet construction and post-construction performance standards. For more information regarding the TCGP you can go to the following link, and click on the "Transportation" tab: https://dnr.wi.gov/topic/Sectors/Transportation.html.
- All projects require an Erosion Control Plan (ECP) that describes best management practices
 that will be implemented before, during and after construction to minimize pollution from storm
 water discharges. Additionally, the plan should address how post-construction storm water
 performance standards will be met for the specific site. The project design and Erosion Control

Implementation Plan (ECIP) must comply with the TCGP in order to receive "permit-coverage" from the DNR.

Once the project contract has been awarded, the contractor will be required to outline their
construction methods in the ECIP. An adequate ECIP for the project must be developed by the
contractor and submitted to this office for review at least 14 days prior to the preconstruction
conference. For projects regulated under the TCGP, submit the ECIP as an amendment to the
ECP.

Selected Site & Commercial Non-Metallic Mines:

- The DOT Select Site process must be adhered to for clean fill or any other material that leaves the work site. The DNR liaison will review all proposed select sites and a site visit may be required. Filling of wetlands, waterways or floodplain is not allowed under the select site process, unless the site owner obtains required permits. No new impermeable surfaces can be left at a select site (including gravel roads or pads), unless the site owner obtains required permits. Contaminated materials leaving the site need to adhere to the Hazardous Material Management Plan.
- Use of Commercial Non-Metallic Mines must accompany documentation that such mines have received all applicable local, state and federal permits before being used on the project, including local non-metallic mining reclamation permits and applicable WPDES permits as issued by the DNR.

The above comments represent the DNR's initial concerns for the proposed project and do not constitute final concurrence. Final concurrence will be granted after further review of refined project plans, and additional consultation if necessary. If any of the concerns or information provided in this letter requires further clarification, please contact this office at (608) 228-7927, or email at eric.heggelund@wisconsin.gov.

Sincerely,

Eric Heggelund

Eric Heggelund

Environmental Analysis & Review Specialist

cc: Jennifer Grimes, WisDOT REC Brad Groh, JT Engineering, Inc. Eric Kilburg, WDNR

Attachment 2 B-14-116 Bridge Asbestos Inspection Report





Bridge Asbestos Inspection Report

WisDOT Project ID: 1107-00-30 Structure Number: B-14-0116

Structure Name: Soo Road over IH 41

City/County: Town of Lomira, Dodge County, Wisconsin

GEI project Number: 1903083 & 1903615

Date Inspected: June 12, 2019 and June 27, 2019 (coating testing)

Inspected by: Paul M. Garvey

Asbestos Inspector License Number: All-117079 **Consultant Company:** GEI Consultants, Inc.

Summary:

An asbestos inspection of Structure B-14-0116 was conducted on June 12, 2019 by Paul M. Garvey, Asbestos Inspector License No. AII-117079. Based on initial analytical results, confirmatory re-testing was completed on the bridge coating material on June 27, 2019 by Garvey. Asbestos-containing material (ACM) **IS** present on this structure.

The inspection to identify and collect samples of potential asbestos-containing material (ACM) was completed following WisDOT standard sampling procedures for bridge inspections found in FDM 21-35-45. The ACM was detected in the grey caulk material on the walls. In addition, the white coating on the grey caulk was also determined to be ACM. Subsequent resampling of the white coating material (Samples 5A thru 5D) which was sprayed on other substrates has not indicated that the coating is ACM. Based on these results, it is reasonable to conclude that the spray-on white coating collected from the grey caulk substrate (Sample 1A) was contaminated by ACM from the grey caulk material. Because the grey caulk is category II non-friable ACM, it may remain in place if not disturbed during renovation activities. If the grey wall caulk is to be disturbed during renovation, it should be abated prior to disturbance.

Asbestos-containing material is present on Structure B-14-0116. Standard Special Provision (STSP) 203-005 shall be included in the plans. The contractor will be responsible for completion of the Notification of Demolition and/or Renovation (DNR form 4500-113) if required. A copy of the inspection report is available from the region office.

Sample #	Sample Description	Sample Location	Method and Analytical Results	Category I or II non-friable or No ACM	Total Amount of Material on Structure
B-14-116-1A (split samples)	Grey caulk/and white coating (split sample)	Caulk on wall seam	PLM: 2% Chrysotile asbestos – grey caulk / PLM: 2% Chrysotile asbestos - white coating	Category II non-friable	20 LF

B-14-116-1B (split samples)	Grey caulk/and white coating (split sample)	Caulk on wall seam	See -1A Positive stop	See -1A	See -1A
B-14-116-1C (split samples)	B-14-116-1C Grey caulk/and White coating Caulk on wall seam		See -1A Positive stop	See -1A	See -1A
B-14-116-2A	Black tar	Abutment base	PLM, non-detect	No ACM	N/A
B-14-116-2B	Black tar	Deck seams	PLM, non-detect	No ACM	N/A
B-14-116-2C Black tar		Deck seams	PLM, non-detect	No ACM	N/A
B-14-116-5A	White spray on coating	Deck steel expansion joint plate on wall	PLM, non-detect	No ACM	N/A
B-14-116-5B	B-14-116-5B White spray on coating		PLM, non-detect	No ACM	N/A
B-14-116-5C	White spray on coating	North and south span composite	PLM, non-detect	No ACM	N/A
B-14-116-5D	White spray on coating	East abutment	PLM, non-detect	No ACM	N/A

If you have any questions, please contact us at (920) 455-8200.

GEI CONSULTANTS, INC.

Kyle C. Sandmire

Environmental Scientist

Paul M. Garvey

Senior Scientist

Attachments:

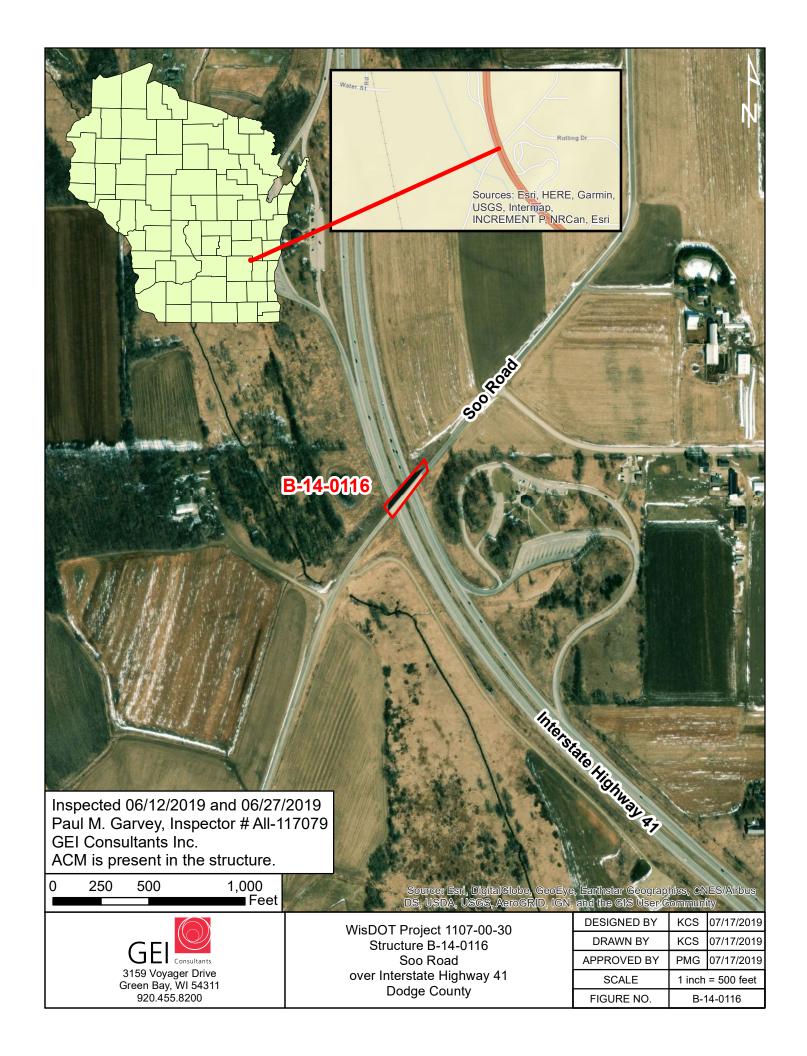
P-14-0116 Report Table

P-14-0116 Map

P-14-0116 Photo Log

P-14-0116 Bulk Asbestos Sample Analysis Summaries (2)

P-14-0116 Bulk Asbestos Sample Chains of Custody (2)



PHOTOGRAPHIC LOG

PHOTOGRAPH NO: 1

DIRECTION: S

DESCRIPTION:

Looking south at the Structure ID plate.



PHOTOGRAPH NO: 2

DIRECTION: W

DESCRIPTION:

Looking at the deck of the structure.



PHOTOGRAPH NO: 3

DIRECTION: W

DESCRIPTION:

Looking at the north side of the structure. White coating material has been sprayed on structure.



PHOTOGRAPH NO: 4

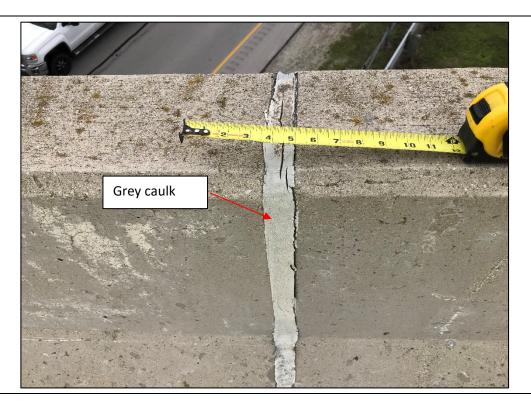
DIRECTION: N

DESCRIPTION:

Looking at the grey caulk on the wall joint.

The grey caulk is

ACM (2% chrysotile asbestos).



PHOTOGRAPH NO: 5

DIRECTION: Down

DESCRIPTION:

Looking at the black tar found on the deck joints. The black tar is not ACM.

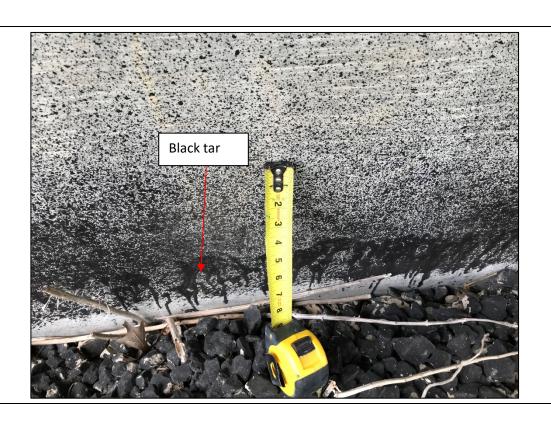


PHOTOGRAPH NO: 6

DIRECTION: E

DESCRIPTION:

Looking at the black tar found on the abutment base. The black tar is not ACM.



PHOTOGRAPH NO: 7

DIRECTION: Down

DESCRIPTION:

Looking at white spray on coating on a steel expansion joint plate. The coating is not ACM.



PHOTOGRAPH NO: 8

DIRECTION: S

DESCRIPTION:

Looking at the white spray-on coating from the concrete spans. The coating is not ACM.





Environmental Hazards Services, L.L.C. 7469 Whitepine Rd Richmond, VA 23237

> Telephone: 800.347.4010 Report Number: 19-06-02720

Client: **GEI Consultants Inc**

Received Date: 06/18/2019 3159 Voyager Dr. Analyzed Date: 06/21/2019 Green Bay, WI 54311 Reported Date: 06/21/2019

Asbestos Bulk **Analysis Report**

Project/Test Address: Paul M. Garvey; B-14-0116; T. Lomira; Dodge Co., WI

Fax Number: Client Number: **Laboratory Results** 200598

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
19-06-02720-001	A B-14-116-1A	Caulk	Gray Rubbery Adhesive; Homogeneous	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	2%	
19-06-02720-001	B B-14-116-1A	Covering/ Jacket	Gray Adhesive; Homogeneous	2% Chrysotile	98% Non-Fibrous
			Total Asbestos:	2%	
19-06-02720-002	2A B-14-116-1B	Caulk		Did Not Analyze (Pos	sitive Stop)
19-06-02720-002	PB B-14-116-1B	Covering/ Jacket		Did Not Analyze (Pos	sitive Stop)
19-06-02720-003	BA B-14-116-1C	Caulk		Did Not Analyze (Pos	sitive Stop)
19-06-02720-003	BB B-14-116-1C	Covering/ Jacket		Did Not Analyze (Pos	sitive Stop)

Environmental Hazards Services, L.L.C

Client Number: 200598 Report Number: 19-06-02720

Project/Test Address: Paul M. Garvey; B-14-0116; T. Lomira;

Dodge Co., WI

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
19-06-02720-004	B-14-116-2A		Black Tar like; Homogeneous	NAD	100% Non-Fibrous
19-06-02720-005	B-14-116-2B		Black Tar like; Homogeneous	NAD	100% Non-Fibrous
19-06-02720-006	B-14-116-2C		Black Tar like; Homogeneous	NAD	100% Non-Fibrous

QC Sample: 38-M22009-1

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Sami Hosn

Reviewed By Authorized Signatory:

Tasha Eaddy QA/QC Clerk

Jasha Faddy

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0 VELAP 460172. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

Environmental Hazards Services, LLC

Asbestos Chain-of-Custody Form

SHIP TO: 7469 Whitepine Rd. Richmond, VA 23237

Phone: (800) 347-4010 FAX: (804) 275-4907

ONLINE CLIENT PORTAL AVAILABLE FOR ANALYSIS RESULTS AT:

www.leadlab.com

19-06-02720

Due Date: 06/21/2019

(Friday)

Company Name: 6E/ Consultants, Inc. Account Number:	`AE ` \\\
Address: 3159 Voyager Drive City/State/Zip: Green Bay, Wisconsin 54311	Poly
Phone #: 920, 883, 1710 Email: pgarvey@geiconsultants.com Fax: 920, 4	55.8225
	e Co., Wisconsin
Project Name / Testing Address: B-14-0116, T-Lomina City/State (Required): Dodg	e (), Wisconsii
Collected by: Paul M. Garvey, AII-117079 P.O. # 190	3083
confected by 1 Mai 1 10 Day & Ty	

TURN AROUND TIMES: IF NO TAT IS SPECIFIED, SAMPLE(S) WILL BE PROCESSED AND CHARGED AS 3 - DAY TAT.

	1 Day 2	Day	3.0	Day	* Sam	e Day –	Must C	all Ahead		* Weekend – Must Call Ahead
No.	Client Sample ID	HA Area #	Collec t Date	t ion Time	PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	TEM - Bu	* Positive Stop Comments on all "A"Haru"C" Series
1	B-14-116-1A thru 1C		6-12-19	1400 AM / PM	X					test both caulk and coating layer
2	B-14-116-1A Hora 1C B-14-116-2A Hora 2C		6-12-19	1 400AM / PM	×					tar
3				AM / PM						
4				AM / PM	`					
5				AM / PM						
6		-		AM / PM						
7				AM / PM						
8		Ŋ.	and a second	AM / PM						
9				AM / PM						
10				AM / PM		- An				
	sed by: Paul M. Garvey			Signature:	LA S	\ \	سندسرير	/		Date/Time: 6/14/19 1400 Date/Time: 6/14/19 1400
Rece	ved by: Enka Glander			Signature:						Date, Time. 12-17-71 3/10/100



Environmental Hazards Services, L.L.C. 7469 Whitepine Rd Richmond, VA 23237

Client:

Telephone: 800.347.4010

Report Number: 19-07-00065

Asbestos Bulk Analysis Report

GEI Consultants Inc

3159 Voyager Dr. Green Bay, WI 54311 Received Date: 07/01/2019

Analyzed Date: 07/03/2019 Reported Date: 07/05/2019

Project/Test Address: Paul M Garvey; B-14-116, Dodge County; T-Lomira, Wisconsin

Client Number: 200598 Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
19-07-00065-001	B-14-116-5A		Off-White Paint-Like; Homogeneous	NAD	100% Non-Fibrous
19-07-00065-002	B-14-116-5B		Off-White Paint-Like; Homogeneous	NAD	100% Non-Fibrous
19-07-00065-003	B-14-116-5C		Off-White Paint-Like; Homogeneous	NAD	100% Non-Fibrous
19-07-00065-004	B-14-116-5D		Off-White Paint-Like; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 200598 Report Number: 19-07-00065

Project/Test Address: Paul M Garvey; B-14-116, Dodge County;

T-Lomira, Wisconsin

Lab SampleClient SampleLayer TypeLab Gross DescriptionAsbestosOtherNumberNumberMaterials

QC Sample: 37-M22013-2

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Michelle Swift

Reviewed By Authorized Signatory:

Milisoa Kanode

Missy Kanode QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0 VELAP 460172. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

Asbestos Chain-of-Custody Form

SHIP TO: 7469 Whitepine Rd. Richmond, VA 23237 Phone: (800) 347-4010 FAX: (804) 275-4907

ONLINE CLIENT PORTAL AVAILABLE FOR ANALYSIS RESULTS AT:

Environmental Hazards Services, LLC www.leadlab.com 19-07-00065 Due Date:

07/05/2019 M (Friday)

Company Name: GEI Consultants, IncAccount Number:	(Friday) "O
Address: 3159 Voyager Drive City/State/Zip: Green Bay, W1 54311	— ('7/1/Y)
Phone #: 920,455,8430 Email: pgarvey@geiconsultants.com Fax: 92	20.455.8225
Project Name / Testing Address: B-14-0116, Dodge County City/State (Required): T	-Lomira Wisconsin
Collected by: Paul M. Garvey, AII-117079 P.O. #	B-14-0116

TURN AROUND TIMES: IF NO TAT IS SPECIFIED, SAMPLE(S) WILL BE PROCESSED AND CHARGED AS 3 - DAY TAT.

	1 Day	2 Day		3 Day		* San	ne Day –	Must C	all Ahead		* Weekend – Must Call Ahead
No.	Client Sample ID	HA Area #	Coll Date	ection Tin	ne	PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	TEM - Bulk	* : ALL - test coating only - do not comments test concrete fragment
1	B-14-116-5A		6-12-19	11:00	AM / PM	×					Deck Exp. Joint Plate
2	B-14-116 -5B		i i		AM / PM						Deck Exp. Joint Plate N. Beam drips on edge N+S Beam
3				/	AM_/ PM						N+S Beam
4	B-14-116-5C B-14-116-5D		V	V	AM / PM						Abutment
5				-	AM / PM						
6					AM / PM						
7					AM / PM						
8					AM / PM						
9					AM / PM						
10					AM / PM ′			1			
Relea	sed by: Paul M. Gar	vew		Signa	ture: 7	Le	$M \times$	1/2)	Date/Time: 6/27//9 /300
Recei	sed by: Paul M. Gar ved by: Edita Briggs	U		Signa	ture:	aut	meeo				Date/Time: 1/1/1/1/1/1/19am

Attachment 3 B-14-116 Inspection Report (8/14/2018)





Inspection Report for B-14-116

SOO ROAD over IH 41 Aug 14,2018



	Туре				Prior	Frequency (mos)	Performed
	Routine				08-31-16	24	X
	SIA Review				08-31-16	48	
	Start Coordinates				End Coordinates (op	tional)	
Latitude	43°33'26.25"N			Latitude			
Longitude	88°25'47.85"W			Longitude			
0		AV DEDT		Maintain an	OTATE LUCLUAL	W DEDT	
Owner	STATE HIGHWA	AY DEPT		Maintainer	STATE HIGHWA	AY DEPT	
	Time Log		Team memb	ers			
	Hours 1	Minutes 10					
	Name		Number	Signature			Signature Date
Inspector	Lammert, Terry		1018	Jerry Lammer E-signed by Terry La			09-17-18

BRIDGE INSPECTION REPORT Wisconsin Department of Transportation DT2007 2003 s.84.17 Wis. Stats.

page 2

Identification & Location

Feature On: SOO ROAD	Section Town Range: S35 T13N R17E	Structure Number:
Feature Under: IH 41	County: DODGE	B-14-116
Location 1.0M E JCT STH 67	Municipality: LOMIRA	Structure Name:

Geometry Traffic

measurements in feet, except w	here noted			Lanes	ADT
Approach Roadway Width: 34	Bridge Roadway Width: 28.0	Total Length: 259.1	On	2	156
Approach Pavement Width: 22	Deck Width: 31.0	Deck Area (sq ft): 8032	Under	6	29600

	Lanes	ADT	ADT year	Traffic Pattern
On	2	156	2008	TWO WAY TRAFFIC
Under	6	29600	2008	TWO WAY TRAFFIC

Capacity Load Rating

Inventory rating: HS23	Overburden depth (in): 0.0	Last rating date: 06-17-13	Controlling: INTERIOR DECK GIRDER Fatigue
Operating rating: HS37	Deck surface material: CONCRETE	Re-rate for capacity (Y/N):	Control location: SPAN 1
Posting:	Re-rate notes:		

Hydraulic Classification

Scour Critical Code(113): (N) NO WATERWAY	Q100 (ft3/sec): 0	
High water elevation (ft):	Velocity (ft/sec):	Sufficiency #:
0.0	0.0	94.0

Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main	
1	CONT PREST CONC	DECK GIRDER	70	120.0	Υ	

Expansion joint(s) Temperature: File:73 New:

Clearance

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway Min Vertical Under Cardinal	17.68	05-Mar-2017	
Highway Min Vertical Under Non-Cardinal	15.97	05-Mar-2017	
Horizontal Under Cardinal	85.8		
Horizontal Under Non-Cardinal	81.2		
Highway Min Vertical On Cardinal			
Horizontal On Cardinal			

Construction History

Year	Work Performed	FOS id
1995	NEW STRUCTURE	1107-03-81

Maintenance Items

Item	Priority	Recommended by	Status	Status change							
IMP-Thin Epoxy Overlay	HIGH	Tripoli, Bonnie (1012)	IDENTIFIED	08/21/14							
Program epoxy-type overlay to protect deck from	Program epoxy-type overlay to protect deck from snowmobiles.										
IMP-Thin Epoxy Overlay	HIGH	Katzner, Steven D (1011)	IDENTIFIED	09/14/16							
Thin Epoxy Overlay	111011	raizher, dieven b (1011)	IDENTIFIED	03/14/10							
Place polymer overlay.		-									
Drainage - Repair Washouts / Erosion	MEDIUM	Tripoli, Bonnie (1012)	IDENTIFIED	08/21/14							
Repair washout at NW corner. Again 2018											
Repair washout at two comer. Again 2010											
Deck - Clean and Sweep Deck/Drains	MEDIUM	Lammert, Terry (1018)	IDENTIFIED	09/11/18							
Sweep deck											
Expansion Joints - Clean	MEDIUM	Lammert, Terry (1018)	IDENTIFIED	09/11/18							
Lapansion Joints - Olean	INICUION	Laminent, remy (1016)	IDLINITIED	09/11/10							
Remove debris from strip seals.			1								
'											

BRIDGE INSPECTION REPORT Wisconsin Department of Transportation DT2007 2003 s.84.17 Wis. Stats.

page 3 Structure No.:B-14-116

Elements

hk	Element	Defect	Description	UOM	Total	1	Quantity in Co	naition State	4
	Licinoni	DOICOL	Reinforced Concrete Deck	SF	4,552	4,552	0	0	0
<	12								
\dashv			 Wearing Surface (Bare)	SF	7,214	3,585	3,629	0	0
	8000		Treating Carrace (Earle)	<u> </u>	,,	0,000	0,020		
			Abrasian Waar or Butting (Maar Curf)	CF			2 607		
		8911	Abrasion, Wear, or Rutting (Wear. Surf.) Snow mobile damage to surface.	SF		0	3,607	0	0
			· ·						
		3220	Crack (Wearing Surface) Cracks are in end blocks.	SF		0	22	0	0
		3220	Cracks are in end blocks.						
			Prestressed Concrete Open Girder	LF	1,249	1,249	0	0	0
X	109								
			Delamination - Spall - Patched Area	LF		0	0	0	0
		1080							
_			Painforced Congrete Column		2	2	1 0 1		
х	205		Reinforced Concrete Column	EA	3	3	0	0	0
		1080	Delamination - Spall - Patched Area	EA		0	0	0	0
		1000							
İ			Cracking (RC)	EA		3	0	0	0
		1130	Hairline map cracking with apparent salt infiltrati	on in all c	olumns.				
			Reinforced Concrete Abutment	LF	62	53	9	0	0
Х	215		Rust stains. High steel/failing finishing work						
			Delemination Chall Detakad Area	1 1 -	-				
		1080	Delamination - Spall - Patched Area one small spall, 1 delam.	LF		0	2	0	0
		1000	one small spall, i delam.						
		4400	Cracking (RC)	LF		0	7	0	0
		1130	Several HL to light vertical cracks in abut bodie	s and bac	ck walls.				
			Reinforced Concrete Cap	LF	29	28	1	0	0
Х	234		High rusty chairs at bottom.						
			Cracking (RC)	LF		0	1 1	0	0
		1130	Light crack between C1 and 2, W face						
			0						
Х	300		Strip Seal Expansion Joint Both seals completely impacted with debris	LF	55 tation	0	0	55	0
- •			. , .						
		2242	Leakage, Seal Adhesion, Damage, Cracking	LF		0	0	0	0
		2310							
			Debris Impaction	LF		0	0	55	0
		2350	Both seals completely impacted with debris	and vege	tation.				
			Elastomeric Bearing	EA	10	0	10	0	0
Х	310		Minor rust on all sole plates - not painted.		10		1 10		
				F^			10		
		1000	Corrosion Minor rust on all sole plates - not painted	EA		0	10	0	0
		1000	ivilior rust on all sole plates - not painted						
İ		0655	Alignment	EA		0	0	0	0
		2220	1/4-inch gap under front edge of all at W. abut (expanded	position).	E. abut in	contracted p	osition.	
ŀ			Bulging, Splitting or Tearing	EA		0	0	0	0
		2230	Minor cracking in all.					<u> </u>	

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page 4 Structure No.: **B-14-116**

pugu	, ,							Olluciule No.	ידו כו
			Reinforced Concrete Bridge Rail	LF	518	475	43	0	0
Χ	331		+/- 5' solid patch S side near pier.	•			•	•	
			Delamination - Spall - Patched Area	LF		0	3	0	0
		1080	Small spall S rail @ bottom, W end S1. Small have exposed steel in shallow spalls/failing fi	l spall @ nishing p	SE corner. atches(?).	Several	areas on b	ooth sides	@ bottom
			Cracking (RC)	LF		0	40	0	0
		1130	Several vertical cracks. Map cracking througho	ut.	'		•	•	
Х	8400		Integral Wingwall	EA	4	2	2	0	0
^	0400								
			Wall Movement	EA		0	0	0	0
		8902							
			Wall Deterioration	EA		0	2	0	0
		8903	NE & SE have map cracking. Several small sp	oots of de	lam due to	finishing	work/faili	ng patches	5.

Assessments

							Quantity in Co	ondition State		
Chk	Element	Defect	Description	UOM	Total	1	2	3	4	
			Drainage - Ends of Structure	EA	4	3	1	0	0	
Χ	9001		Surface drains at west end. Bare slopes at East.	minor er	osion at S	E corner.				
			Signs - Object Markers	EA	4	4	0	0	0	
Х	9030		4							
			Slope Protection- Crushed Aggregate with Bit.	EA	2	1	1	0	0	
Χ	9043		Some sliding in the both slopes. Both settled. W	s weed	y. Fading	mostly at	bottom.			
			Steel Diaphragm	EA	16	16	0	0	0	
Χ	9167									
			Concrete Diaphragm	EA	4	2	1	1	0	
Χ	9168		Crack in corner of diaphragm B3, S1 W face. B1 E face, B1 large corner spall no exposed steel.							
			Approach Roadway - Asphalt	EA	2	1	1	0	0	
Χ	9323		East has been wedged. West has cracked. SligI	nt ruttin	g @ ends.	•				

NBI Ratings

	File	New
Deck	7	7
Superstructure	7	7
Substructure	7	7
Culvert		N
Channel	N	N
Waterway	N	N

Structure Specific Notes

ON THE WEST ABUTMENT, ALL 5 OF THE ELASTIC BEARINGS ARE TIPPED BACK, SO THAT THE FRONT EDGE IS ABOUT 0.5' OFF THE BEARING SEAT. ALSO, SOME VERTICAL CRACKS ARE PRESENT IN THE RUBBER MATERIAL.

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page 5 Structure No.:**B-14-116** Inspection Specific Notes
In program epoxy-type overlay to protect deck from snowmobiles. **Inspector Site-Specific Safety Considerations Structure Inspection Procedures** Special Requirements

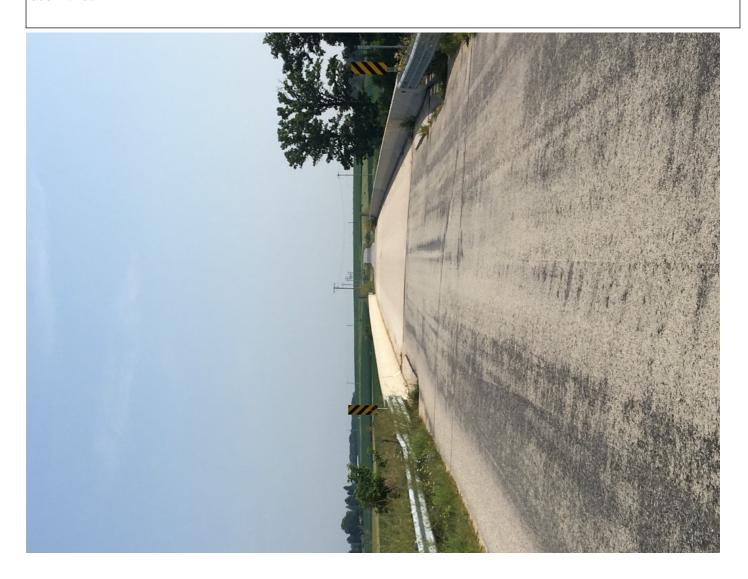
Comments

Cost

Hours

page 6 Structure No.:B-14-116

Routine Document Comment/Description | deck view



page 7 Structure No.:B-14-116

Routine Document Comment/Description rust stain mid deck



page 8 Structure No.:B-14-116

Routine
Document Comment/Description

E strip seal (W is similar) impacted w/ debris



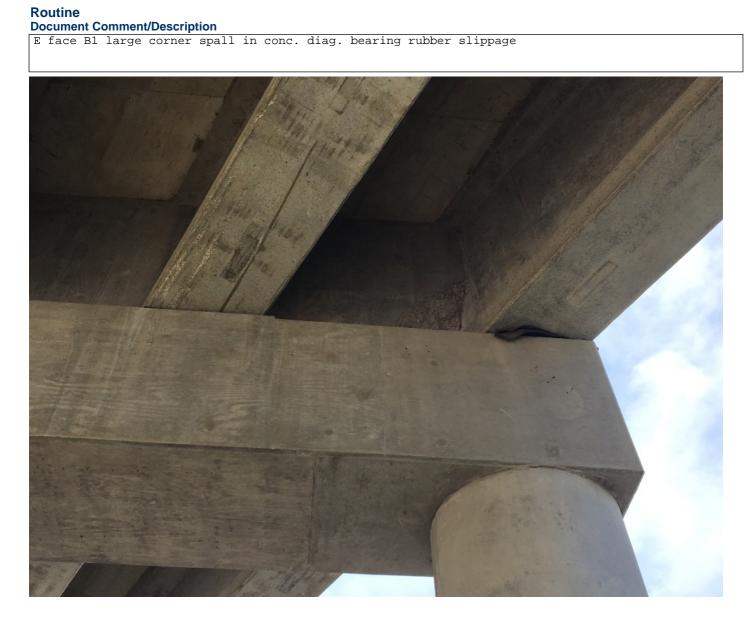
page 9 Structure No.:B-14-116

Routine Document Comment/Description

elevation view



page 10 Structure No.:B-14-116



Attachment 4 Field Information Joint Measurements



Field Information Required #8 - Structure Measurements

8.) Record measurement, temperature of the structure, and date taken for each of the following;

Date: 10-Apr-19 Site Time: 8:30A - 9:30A

Air Temp: 35
Weather: Cloudy

8a.) Joint opening measured normal to joing at centerline of roadway and both curb lines.

At East Abutment; At West Abutment; (in) (in) S. Flow Line S. Flow Line 2.625 2 Centerline 2.375 Centerline 2.25 N. Flow Line 2.25 N. Flow Line 2.25

8b.) Clearance between girder ends at piers.

5.5

This is not applicable as the girders are continuous over the central pier.

8c.) Distance from the front face of abutment backwall to closest point of girder end measured parallel to girder.

5

5.25

At East Abutment; At West Abutment; Girder# (in) Girder# (in) 4.5 4.5 2 5.5 2 4.5 3 3 5 6 4 5.5 4 5

8d.) Temperature of structure determined by averaging top and under deck readings

 At East Abutment;
 At West Abutment;

 Top
 35

 Bottom
 32

 Average
 33.5

 Average
 33

Attachment 5B-14-116 Deficiency Sketches



-980

096-

-940