

Bridge Number:

A0872R1

Route/County:

US 60/Lawrence

Asbestos-Containing Material Present?

Yes:

No:

If yes, see report for location(s).

Structural Steel Present?

Yes:

No:

If No, then skip the following.

Lead-Based Paint (LBP) Present?

Yes:

No:

Trusses LBP?

Yes: No:

Girder LBP?

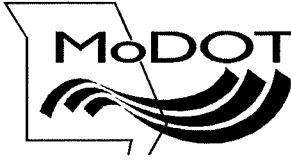
Yes: No:

Railing LBP?

Yes: No:

Pile LBP?

Yes: No:



MEMORANDUM

Missouri Department of Transportation
Construction and Materials
Central Laboratory

TO: TMS
FROM: Diane Roegge *Diane Roegge*
Environmental Chemist
DATE: December 6, 2017
SUBJECT: Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route US 60
Bridge A-0872R1
Lawrence County

We are providing you with the results of the inspection on the above referenced bridge. The inspection report contains an asbestos and a heavy metals survey. The asbestos inspection included identifying suspect asbestos-containing material and NVLAP accredited testing to confirm the presence of asbestos.

Form T746 – This will show if samples were taken, where from, and, if the sample was found to contain asbestos, our estimated quantity of material present. Under the column “Friability Category”, this is the meaning for the following:

N-ACM – No asbestos detected.

I NF – Asbestos is present. Material shall be handled carefully by a licensed abatement worker and kept wet if removing as part of a maintenance activity.

II NF – Asbestos is present. If removal is required for the maintenance activity, use an abatement contractor.

In accordance with Missouri Department of Natural Resources’ Technical Bulletin “Managing Construction and Demolition Waste” dated January 31, 2003, a heavy metal paint survey has been performed on the above referenced bridge. This survey includes locating concrete which has been painted with something other than traffic paint or graffiti, and testing the painted surface(s) to determine if hazardous heavy metals are present. If the bridge is being removed completely, or the maintenance repairs include removing the painted concrete, then, non-hazardous painted concrete may be used as clean fill materials, if properly handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling all accessible areas, it is possible that potentially hidden asbestos-containing materials may exist within the structure. Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/fr/dr

[http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared
documents/asbestos/districts/southwest \(sw\)/mt/a0872r1/dr17120606.docx](http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared/documents/asbestos/districts/southwest(sw)/mt/a0872r1/dr17120606.docx)

Attachments

**MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS**
Asbestos Survey Report
All Suspect ACM

ROUTE: US 60
 MODOT JOB NO.: N/A
 DISTRICT: SW
 COUNTY: Lawrence
 DATE OF SURVEY: December 6, 2017
 PARCEL NO.: Bridge A-0872R1

SURVEYED BY: Diane Roegge
 CERTIFICATION #: 7119101817MOIR7165
 SITE ADDRESS: Over MNA Railroad
 TYPE(S) OF STRUCTURE(S): Bridge

Sample ID	Type of Materials	Location of Material	Friability Category	Field Measure
17MDIR 951	Asphalt Felt Material	Over 2-Abutments	N-ACM	
	Bridge Paint is not a suspect ACM per MSDS's on file.			

N-ACM = Non-Asbestos Containing Material INF = Category I Nonfriable F = Friable
 NAJD = No Asbestos Fiber Detected * = Tested By Point Count Procedure

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS

Asbestos Survey Report
Nonfriable Asbestos-Containing Materials
(Abatement not required if not made friable during demolition.)

ROUTE: US 60
 MODOT JOB NO.: N/A
 DISTRICT: SW
 COUNTY: Lawrence
 DATE OF TESTS: December 13, 2017
 PARCEL NO.: Bridge A-0872R1

TESTED BY: Diane Roegge
 CERTIFICATION #: 7119101817MOIR7165
 SITE ADDRESS: Over MNA Railroad
 TYPE(S) OF STRUCTURE(S): Bridge

Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percent
		None Located	INF			

All necessary work to handle this material is the contractor's responsibility.
 INF = Category I Nonfriable

**MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes**

ROUTE: US 60
 MODOT JOB NO.: N/A
 DISTRICT: SW
 COUNTY: Lawrence
 SURVEYED BY: Diane Roegege
 DATE OF SURVEY: December 6, 2017

TESTED BY: N/A
 DATE OF TESTS: N/A
 PARCEL NO.: Bridge A-0872R1
 SITE ADDRESS: Over MNA Railroad
 TYPE(S) OF STRUCTURE(S): Bridge

Sample ID	Color/Location of Material/Substrate	Metals (ppm)							
		As	Cr	Pb	Cd	Se	Ba	Hg	Ag
	No samples taken. No painted surfaces located.								

All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050
 b = USEPA SW-846 Method 7471



MEMORANDUM

Missouri Department of Transportation Construction and Materials Central Laboratory

TO: TMS

CC:

FROM: Diane Roegge *DR*
Environmental Chemist, Lead License #110506-300003365

DATE: December 11, 2017

SUBJECT: Materials
Job No. N/A
US 60/Lawrence County
Bridge A-0872R1

On December 6, 2017, a field check of the paint system was performed on the subject bridge. A paint screening for regulated heavy metals was also performed on the subject bridge. The following results were obtained:

	17MD1R949	17MD1R950
LOCATION:	Railing	Girder
Arsenic (As)	57,336 ppm** (5.7%)	62,324 ppm** (6.2%)
Chromium (Cr)	50 ppm	56 ppm
Lead (Pb)	573,029 ppm (57.3%)	612,087 ppm (61.2%)
Cadmium (Cd)	836 ppm	1,256 ppm (0.1%)
Selenium (Se)	LOD*	LOD*
Barium (Ba)	105 ppm	108 ppm
Mercury (Hg)	LOD	LOD
Silver (Ag)	LOD	LOD

*LOD = below the detection limit of the instrument

**ppm = parts per million

TMS paint data shows System A paint, applied in 1962. The field check and results verify the information found in TMS.

The existing paint system is lead-based paint (LBP). Therefore any painting project will be subject to DHSS notification and regulation.

Should further screenings be required, please contact Todd Bennett, Chemical Laboratory Director, at (573) 751-1045. Should you have any questions, feel free to call me at (573) 526-4359.

fr/dr

[http://sharepoint/systemdelivery/cm/chemicallab/environmental/shareddocuments/asbestos/districts/southwest \(sw\)/mt/a0872r1/lbp_a0872r1.docx](http://sharepoint/systemdelivery/cm/chemicallab/environmental/shareddocuments/asbestos/districts/southwest(sw)/mt/a0872r1/lbp_a0872r1.docx)

CERTIFICATION NUMBER:

7119101817MOIR7165

THIS CERTIFIES

Diane R Roegge

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **10/23/2017**

TRAINING DATE: **10/18/2017**

EXPIRES: **10/23/2018**

Kyra L Moore

Director of Air Pollution Control Program

Bridge Number:

K0947R

Route/County:

H/Lawrence

Asbestos-Containing Material Present?

Yes:

No:

If yes, see report for location(s).

Structural Steel Present?

Yes:

No:

If No, then skip the following.

Lead-Based Paint (LBP) Present?

Yes:

No:

Trusses LBP?

Yes: No:

Girder LBP?

Yes: No:

Railing LBP?

Yes: No:

Pile LBP?


Yes: No:

Galvanized



MEMORANDUM
Missouri Department of Transportation
Construction and Materials
Central Laboratory

TO: TMS

FROM: Diane Roegge 
Environmental Chemist

DATE: December 1, 2015

SUBJECT: Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route H
Bridge K-0497R
Lawrence County

We are providing you with the results of the inspection on the above referenced bridge. The inspection report contains an asbestos and a heavy metals survey. The asbestos inspection included identifying suspect asbestos-containing material and NVLAP accredited testing to confirm the presence of asbestos.

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Attachments

