



MEMORANDUM

Missouri Department of Transportation Construction and Materials Central Laboratory

TO: Andrew Ellsworth-7rw

COPY:

FROM: Frank Reichart *FR*
Environmental Chemist

DATE: May 15, 2009

SUBJECT: Materials
Asbestos & Heavy Metal Paint Inspection
District 7 Maintenance Lots

<u>Route</u>	<u>County</u>	<u>Parcel (Excess)</u>
90	McDonald	E7-0621 Noel
Z	Jasper	E7-0622 Carl Junction
71	Jasper	E7-0623 Jasper
F	Barry	E7-0624 Eagle Rock
39	Lawrence	E7-0625 Aurora
H	Newton	E7-0626 Granby
O	Lawrence	E7-0627 Halltown
C	Dade	E7-0628 Dadeville
18	Bates	E7-0629 Adrian
H	Vernon	E7-0630 Richards
37	Jasper	E7-0631 Avilla

We are providing you with the results of the requested inspection on the above referenced properties. The inspection report contains an asbestos and a heavy metals survey, unless otherwise requested. The asbestos inspection included sample collection of suspect asbestos-containing material and National Voluntary Laboratory Accreditation Program (NVLAP) accredited testing to confirm the presence of asbestos. This asbestos and heavy metal paint report includes four different report forms. Form T746 lists all of the samples taken during the asbestos inspection. Form T747 shows only those samples that tested positive for Category I nonfriable asbestos-containing materials that may remain in the structure during demolition, if kept adequately wet to avoid visible air emissions. Form T748 shows only those samples that tested positive for asbestos and require removal prior to demolition. Form C760 lists all paint samples taken during the heavy metal paint inspection and their metal content.

In accordance with the National Emissions Standard for Hazardous Air Pollutants (NESHAP), as well as city and county asbestos abatement regulations - Registration, Notification, and Performance Requirements, regulated asbestos-containing material (RACM) namely, Friable and Category II nonfriable, have a high probability of becoming friable under normal demolition forces. Practices and procedures for removal prior to demolition, disposal, and clearances should

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be in accordance with referenced regulations. Missouri Department of Transportation policy is to perform asbestos abatements in accordance with NESHAP.

In accordance with Missouri Department of Natural Resources' Technical Bulletin "Managing Construction and Demolition Waste" dated January 31 2003, a heavy metal paint inspection has been performed on the above referenced properties. We are providing you with the results of this inspection. The inspection includes locating painted concrete, block and/or brick surfaces, sampling the painted surface(s) and testing the paint(s) to determine if hazardous heavy metals are present. Non-hazardous painted concrete, blocks, or bricks 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 behind walls, above ceilings, beneath floors, etc., it is possible that potentially hidden asbestos-containing materials may exist within the structures. To our knowledge, we have located all suspect asbestos-containing and all painted concrete, block and brick surfaces. If suspect asbestos-containing materials or if painted concrete, block and/or brick surfaces are observed in addition to those reflected in this inspection report, then please advise us immediately so that we may schedule a follow-up inspection.

Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/dr

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Attachments

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

ROUTE: 245
 MODOT JOB NO.: N/A
 DISTRICT: 7
 COUNTY: Dade
 DATE OF SURVEY: April 30, 2009
 PARCEL NO.: E7-0628 (Dadeville MT Lot)

SURVEYED BY: Frank Reichart and Diane Roegge
 CERTIFICATION #: 7028020509MOIR11239, F.R.
 SITE ADDRESS: 0.9 mile Southwest of SR W, West Side of Rt 245, Dadeville
 TYPE(S) OF STRUCTURE(S): 7-Bay Block Maintenance Shed, 2-Asphalt Tanks with Concrete Saddles, Concrete Fuel Tank Basin, 2-Bay Concrete/Wood-Frame Salt Shed, Brine Tank Concrete Pad, & Small Block Storage Shed

Sample ID	Type of Materials	Location of Material	Friability Category	Field Measure
Block Maintenance Building				
9MFJR 460	Asphalt Roofing Shingles	Roof, 1 st Layer	N-ACM	
9MFJR 461	Asphalt Felt Material	Roof, 2 nd Layer	N-ACM	
9MFJR 462	Asphalt Joint Compound	Roof, Around Chimney and Vents	INF	8 Sq. Ft.
9MFJR 463	Caulking on Block	12-Vertical Seams, West Side	INF	156 Sq. Ft.
9MFJR 464	Floor Sheeting	Office, Over Concrete	N-ACM	
9MFJR 465	Ceiling Tile (2'x4')	Office	N-ACM	
9MFJR 466	Sheetrock, Joint/Tape/Mud	Walls, Office	N-ACM	
9MFJR 467	Insulation	Above Ceiling Tile, Office; Walls, and Attic	N-ACM	
9MFJR 468	Asphalt Roofing Shingles	Loose, North Loft	N-ACM	
Tank Saddles				
9MFJR 469	Asphalt Joint Material	4-Between Asphalt Tank and Concrete Saddles	N-ACM	
Fuel Tank Basin				
No samples taken. No suspect ACM located.				
2-Bay Salt Shed and Brine Tank Concrete Pad				
No samples taken. No suspect ACM located.				
Small Block Shed				
9MFJR 470	Asphalt Roofing Shingles	Roof, 1 st Layer	N-ACM	
9MFJR 471	Asphalt Roofing Shingles	Roof, 2 nd Layer	N-ACM	
9MFJR 472	Asphalt Felt Material	Roof, 3 rd Layer	N-ACM	
NOTE: Non-destructive means were used to survey and sample this property. Additional suspect material may be present hidden underneath walls and ceilings.				

N-ACM = Non-Asbestos Containing Material INF = Category I Nonfriable IFNF = Category II Nonfriable F = Friable
 NAFD = No Asbestos Fiber Detected * = Tested By Point Count Procedure J:\BARRED\ASBESTOS\DISTRICT 7\MISC\DADEVILLE MT LOT.DOC

**MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Metals Survey Report of Painted Concrete, Block, Brick and Surfaces**

ROUTE: 245
MODOT JOB NO.: N/A
DISTRICT: 7
COUNTY: Dade
SURVEYED BY: Frank Reichart
DATE OF SURVEY: April 30, 2009

TESTED BY: Frank Reichart *FR*
DATE OF TESTS: April 30, 2009
PARCEL NO.: E7-0628 (Dadeville MT Lot)
SITE ADDRESS: 0.9 mile Southwest of SR W, West Side of Rt 245, Dadeville
TYPE(S) OF STRUCTURE(S): 7-Bay Block Maintenance Shed, 2-Asphalt Tanks with Concrete Saddles, Concrete Fuel Tank Basin, 2-Bay Concrete/Wood-Frame Salt Shed, Brine Tank Concrete Pad, & Small Block Storage Shed

Sample ID	Color/Location of Material/Substrate	Metals (ppm)									
		As	Cr	Pb	Cd	Se	Ba	Hg	Ag		
9MFJR 473	Beige/Exterior Walls/Block	163	517	798	<5	<5	<1,744	<22	<39		
9MFJR 474	Beige/Exterior Walls/Concrete	154	313	871	<51	<5	<1,788	38	<39		
9MFJR 475	Brown/Exterior Walls/Concrete	<270	9,234	20,672	<67	<22	3,961	<75	<51		
9MFJR 476	Brown/Exterior Walls/Block	306	6,756	1,200	<48	<6	4,368	36	<37		
9MFJR 477	Gray/Interior Walls/Block	<482	<358	44,565	<80	<39	<1,884	<140	<61		
9MFJR 478	White/Interior Walls/Block	<298	<454	26,669	<65	<24	13,453	<76	<50		
9MFJR 479	Red/Interior Walls/Block	<416	<309	42,731	<68	<34	<1,612	<122	<52		
9MFJR 480	Gray/Interior Walls/Concrete	<646	<503	60,326	<91	<52	<2,327	<196	<68		
9MFJR 481	White/Interior Walls/Concrete	<103	<257	5,672	<47	<9	2,490	<31	<36		
9MFJR 482	White/Interior Chimney/Brick	<173	<315	11,009	<54	<14	<2,563	<50	<43		
9MFJR 483	Gray/Interior Chimney/Brick	<706	<461	63,159	<95	<55	<2,329	<197	<76		
9MFJR 484	Gray/Interior Floor/Concrete	60	<231	756	<47	<6	<1,412	<34	<36		
	Tank Saddles										
	No samples taken. No painted surfaces located.										
	Fuel Tank Basin										
	No samples taken. No painted surfaces located.										
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All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050
b = USEPA SW-846 Method 7471

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	Small Block Shed																			
9MFJR 485	Beige/Exterior Walls/Block	260	398	1,236	<51	<6	<1,583	<24	<39											
9MFJR 486	Beige/Exterior Foundation/Concrete	316	796	1,820	<48	<7	<1,644	<24	<37											

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Frank Reichart
MD