



MEMORANDUM

Missouri Department of Transportation
Construction and Materials
Central Laboratory

TO: Randall Glaser-6de

COPY: ProjectWise

FROM: Diane Roegge *DR*
Environmental Chemist

DATE: October 21, 2010

SUBJECT: Materials
Updated Asbestos/Heavy Metal Paint Inspection
Route I-70
Job No. J6I0984
Parcel 47
City of St Louis

Attached is an updated asbestos and heavy metal paint inspection with additional information on the above referenced job. Please replace the old report with the attached report.

Should you have any questions regarding this report, please contact me at (573) 526-4360.

db/dr

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Attachments

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

ROUTE: I-70
MODOT JOB NO.: J610984
DISTRICT: 6
COUNTY: City of St Louis
DATE OF SURVEY: September 14-16, and October 20, 2010
PARCEL NO.: 47

SURVEYED BY: Frank Reichart, Diane Roegge, and Kevin Thoenen
CERTIFICATION #: 7028011210MOR11239, F.R. 7028011210MOR13142, K.T.
CERTIFICATION #: 7028011210MOR7165, D.R.
SITE ADDRESS: 1717 North Broadway, City of St Louis 63102
TYPE(S) OF STRUCTURE(S): 1-Story Brick Commercial Building with Partial Basement

| Sample ID | Type of Materials | Location of Material | Priability Category | Field Measure |
|-------------|-----------------------------------|--|---------------------|----------------|
| 10MDIR 858 | Aluminized-Asphalt Joint Compound | Flat Roof Over Cooler, 1 st Layer | N-ACM | |
| 10MDIR 859 | Asphalt Roofing Material | Flat Roof Over Cooler, 2 nd Layer | N-ACM | |
| 10MDIR 860 | Asphalt Felt Material | Flat Roof Over Cooler, 3 rd Layer | N-ACM | |
| 10MDIR 861 | Fiberboard | Flat Roof Over Cooler, 4 th Layer | N-ACM | |
| 10MDIR 862 | Aluminized-Asphalt Joint Compound | Flat Roof Over Office Area, 1 st Layer | N-ACM | |
| 10MDIR 863 | Asphalt Roofing Material | Flat Roof Over Office Area, 2 nd Layer | N-ACM | |
| 10MDIR 864 | Asphalt Felt Material | Flat Roof Over Office Area, 3 rd Layer | N-ACM | |
| 10MDIR 865 | Insulation Board | Flat Roof Over Office Area, 4 th Layer | N-ACM | |
| 10MDIR 866 | Asphalt Joint Compound | Flat Roof Over Southeast Warehouse, 1 st Layer | N-ACM | |
| 10MDIR 867 | Asphalt Roofing Material | Flat Roof Over Southeast Warehouse, 2 nd Layer | N-ACM | |
| 10MDIR 868 | Roofing Membrane | Barrel Roof Over Southeast Warehouse, 1 st Layer | N-ACM | |
| 10MDIR 869 | Asphalt Joint Compound | Barrel Roof Over Southeast Warehouse, 2 nd Layer | N-ACM | |
| 10MDIR 870 | Asphalt Joint Compound | Flat Roof Over Warehouse & Office Area, Around Vents | N-ACM | |
| 10MDIR 871 | Caulking on Brick (Gray) | Around Front Door | N-ACM | |
| 10MDIR 872A | Caulking on Brick (New Brown) | Around Office Windows and Warehouse Doors, 1 st Layer | N-ACM | |
| 10MDIR 872B | Caulking on Brick (Old Cream) | Around Office Windows and Warehouse Doors, 2 nd Layer | II NF | 665 Lin. Ft. |
| 10MDIR 873 | Grout, Ceramic Tile | Front Wall, Around Entry | N-ACM | |
| 10MDIR 874 | Mortar, Ceramic Tile | Front Wall, Around Entry | N-ACM | |
| 10MDIR 875 | Adhesive, Ceramic Tile | Front Wall, Around Entry, Door Lintel | N-ACM | |
| 10MDIR 876 | Caulking on Windows | 8-Warehouse, 15'x 10½': 3-South, 1-West, and 4-Covered | II NF | 3,264 Lin. Ft. |
| 10MDIR 877 | Caulking on Windows | 6'x 6' Double: 3-West & 1-North, 3'x 6'Single: 1-West, & 2½'x 4' Single: 1-South | N-ACM | |
| 10MDIR 878 | TSI (Aircell) | Basement, Furnace Room and Chase in ¾-Bathroom | F | 8 Lin. Ft. |

N-ACM = Non-Asbestos Containing Material INF = Category I Nonfriable II NF = Category II Nonfriable F = Friable
 NAFD = No Asbestos Fiber Detected * = Tested By Point Count Procedure J:\BARRED\ASBESTOS\DISTRICT 6\J610984P-47.DOC

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

ROUTE: I-70
MODOT JOB NO.: J610984
DISTRICT: 6
COUNTY: City of St Louis
DATE OF SURVEY: September 14-16, and October 20, 2010
PARCEL NO.: 47

SURVEYED BY: Frank Reichart, Diane Roegge, and Kevin Thoenen
CERTIFICATION #: 7028011210MOIR11239, F.R. 7028011210MOIR13142, K.T.
CERTIFICATION #: 7028011210MOIR7165, D.R.
SITE ADDRESS: 1717 North Broadway, City of St Louis 63102
TYPE(S) OF STRUCTURE(S): 1-Story Brick Commercial Building with Partial Basement

| Sample ID | Type of Materials | Location of Material | Friability Category | Field Measure |
|------------|---------------------------------|---|---------------------|---------------|
| 10MDIR 879 | Floor Tile/Adhesive (12"x 12") | Foyer and Office Area, Throughout 1 st Floor, Over Wood | NAFD | |
| 10MDIR 880 | Backerboard | Foyer and Office Area, Throughout 1 st Floor, Under Floor Tile, Over Wood | N-ACM | |
| 10MDIR 879 | Floor Tile/Adhesive (12"x 12") | Safe, Office Area, 1 st Layer, Over Concrete | NAFD | |
| 10MDIR 881 | Floor Tile/Adhesive (12"x 12") | Safe, Office Area, 2 nd Layer, Over Concrete | NAFD | |
| 10MDIR 882 | Floor Tile/Mastic (9"x 9") | Safe, Office Area, 3 rd Layer, Over Concrete | INF | |
| 10MDIR 883 | Floor Tile | Safe, Office Area, 4 th Layer, Over Concrete | INF | 45 Sq. Ft. |
| 10MDIR 884 | Mastic | Safe, Office Area, 4 th Layer, Over Concrete | INF | |
| 10MDIR 885 | Floor Tile (12"x 12") | Lounge & Hallway, Basement, Over Concrete | NAFD | |
| 10MDIR 886 | Adhesive/Mastic | Lounge & Hallway, Basement, Over Concrete | N-ACM | |
| 10MDIR 887 | Grout, Ceramic Tile | Half-Bathroom, Off Cooler Loading Area, Over Concrete | N-ACM | |
| 10MDIR 888 | Adhesive, Ceramic Tile | Half-Bathroom, Off Cooler Loading Area, Over Concrete | N-ACM | |
| 10MDIR 889 | Ceiling Tile (1'x 1' Pinhole) | Foyer | N-ACM | |
| 10MDIR 890 | Adhesive, Ceiling Tile (1'x 1') | Foyer | N-ACM | |
| 10MDIR 891 | Sheetrock (No Mud/Tape) | Foyer, Under Ceiling Tile | N-ACM | |
| 10MDIR 892 | Ceiling Tile (2'x 2' Rough) | Throughout 1 st Floor Office Area | N-ACM | |
| 10MDIR 893 | Sheetrock (No Mud/Tape) | Used As Ceiling Tile, South Furnace Room and Elevated Storage Closet, 1 st Floor | N-ACM | |
| 10MDIR 894 | Ceiling Tile (1'x 1' Smooth) | Remnants, Perimeter, South Furnace Room and Elevated Storage Closet, 1 st Floor | N-ACM | |
| 10MDIR 895 | Ceiling Tile (2'x 2' Rough) | Lounge and Hallway, Basement | N-ACM | |
| 10MDIR 896 | Sheetrock (No Mud/Tape) | Used As Ceiling Tile, 3/4-Bathroom, Basement | N-ACM | |
| 10MDIR 897 | Adhesive, Paneling | Walls, 3/4-Bathroom, Basement | N-ACM | |

N-ACM = Non-Asbestos Containing Material INF = Category I Nonfriable II NF = Category II Nonfriable F = Friable
 NAFFD = No Asbestos Fiber Detected * = Tested By Point Count Procedure J:BARREDASBESTOSDISTRICT 6V61SVJ610984P-47.DOC

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

ROUTE: 1-70
MODOT JOB NO.: 1610984
DISTRICT: 6
COUNTY: City of St Louis
DATE OF SURVEY: September 14-16, and October 20, 2010
PARCEL NO.: 47

SURVEYED BY: Frank Reichart, Diane Roegge, and Kevin Thoenen
CERTIFICATION #: 7028011210MOIR11239, F.R. 7028011210MOIR13142, K.T.
CERTIFICATION #: 7028011210MOIR7165, D.R.
SITE ADDRESS: 1717 North Broadway, City of St Louis 63102
TYPE(S) OF STRUCTURE(S): 1-Story Brick Commercial Building with Partial Basement

FR *DR* *KT*

| Sample ID | Type of Materials | Location of Material | Friability Category | Field Measure |
|------------|------------------------------|---|---------------------|---------------|
| 10MD1R 898 | Adhesive, Metal Paneling | Walls, Lounge, Basement | N-ACM | |
| 10MD1R 899 | Adhesive, Baseboard | Walls, Safe, 1 st Floor | N-ACM | |
| 10MD1R 900 | Adhesive, Baseboard | Walls, Half-Bathroom Off Cooler Loading Area | N-ACM | |
| 10MD1R 901 | Adhesive, Baseboard | Walls, 3/4-Bathroom, Basement | N-ACM | |
| 10MD1R 902 | Skim Coat | Walls, Office Area, 1 st Floor | N-ACM | |
| 10MD1R 903 | Plaster | Walls, Office Area, 1 st Floor | N-ACM | |
| 10MD1R 904 | Sheetrock (No Mud/Tape) | Walls, Office Area, 1 st Floor | N-ACM | |
| 10MD1R 905 | Skim Coat | Walls, Office Area, 1 st Floor | N-ACM | |
| 10MD1R 906 | Plaster | Walls, Office Area, 1 st Floor | N-ACM | |
| 10MD1R 907 | Sheetrock (No Mud/Tape) | Walls, Office Area, 1 st Floor | N-ACM | |
| 10MD1R 908 | Skim Coat | Ceiling Beams, Office Area, 1 st Floor | N-ACM | |
| 10MD1R 909 | Plaster | Ceiling Beams, Office Area, 1 st Floor | N-ACM | |
| 10MD1R 910 | Sheetrock (No Mud/Tape) | As Ceiling Tile, Cooler Loading Area | N-ACM | |
| 10MD1R 911 | Skim Coat | Walls, Cooler, Over Brick | N-ACM | |
| 10MD1R 912 | Plaster | Walls, Cooler, Over Brick | N-ACM | |
| 10MD1R 913 | Sheetrock, Joint/Tape/Mud | Walls, 1 st Floor (North) | N-ACM | |
| 10MD1R 914 | Sheetrock, 2 Foot from Joint | Walls, 1 st Floor (North) | N-ACM | |
| 10MD1R 915 | Sheetrock, Joint/Tape/Mud | Walls, 1 st Floor (South) | N-ACM | |
| 10MD1R 916 | Sheetrock, 2 Foot from Joint | Walls, 1 st Floor (South) | N-ACM | |
| 10MD1R 917 | Sheetrock, Joint/Tape/Mud | Walls, Terminal Offices, 1 st Layer, 1 st Floor | N-ACM | |
| 10MD1R 918 | Sheetrock, 2 Foot from Joint | Walls, Terminal Offices, 1 st Layer, 1 st Floor | N-ACM | |
| 10MD1R 919 | Sheetrock, Joint/Tape/Mud | Walls, Terminal Offices, 2 nd Layer, 1 st Floor | N-ACM | |
| 10MD1R 920 | Sheetrock, 2 Foot from Joint | Walls, Terminal Offices, 2 nd Layer, 1 st Floor | N-ACM | |

N-ACM = Non-Asbestos Containing Material I NF = Category I Nonfriable II NF = Category II Nonfriable F = Friable
 NAFD = No Asbestos Fiber Detected * = Tested By Point Count Procedure J:BARREDASBESTOSDISTRICT 616T'SV1610984P-47.DOC

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

ROUTE: I-70
MODOT JOB NO.: J610984
DISTRICT: 6
COUNTY: City of St Louis
DATE OF SURVEY: September 14-16, and October 20, 2010
PARCEL NO.: 47

SURVEYED BY: Frank Reichart, Diane Roegge, and Kevin Thoenen
CERTIFICATION #: 7028011210MOIR11239, F.R. 7028011210MOIR13142, K.T.
CERTIFICATION #: 7028011210MOIR7165, D.R.
SITE ADDRESS: 1717 North Broadway, City of St Louis 63102
TYPE(S) OF STRUCTURE(S): 1-Story Brick Commercial Building with Partial Basement

| Sample ID | Type of Materials | Location of Material | Friability Category | Field Measure |
|------------|------------------------------|---|---------------------|---------------|
| 10MDIR 921 | Fiberboard (No Mud/Tape) | Walls, Terminal Offices, 3 rd Layer, 1 st Floor | N-ACM | |
| 10MDIR 922 | Sheetrock, Joint/Tape/Mud | Walls, Southeast Warehouse | N-ACM | |
| 10MDIR 923 | Sheetrock, 2 Foot from Joint | Walls, Southeast Warehouse | N-ACM | |
| 10MDIR 924 | Sheetrock, Joint/Tape/Mud | Walls and Ceiling, Lounge, Basement | N-ACM | |
| 10MDIR 925 | Sheetrock, 2 Foot from Joint | Walls and Ceiling, Lounge, Basement | N-ACM | |
| 10MDIR 926 | Sheetrock (No Mud/Tape) | Walls, 3/4-Bathroom, Basement | N-ACM | |
| 10MDIR 927 | Insulation (Yellow Batts) | Above Ceilings, Foyer and South Office Area & Terminal Offices, 1 st Floor | N-ACM | |
| 10MDIR 928 | Insulation (Pink Batts) | Above Ceilings, North Office Area & Terminal Offices, 1 st Floor | N-ACM | |
| 10MDIR 929 | Insulation (Old Blown) | Above Ceilings, 1 st Floor | N-ACM | |
| 10MDIR 930 | Insulation (Yellow) | Flexible Ductwork, Above Ceilings, 1 st Floor | N-ACM | |
| 10MDIR 931 | Insulation (Pink) | Flexible Ductwork, Above Ceilings, 1 st Floor | N-ACM | |
| 10MDIR 932 | Insulation | Above Ceiling, Cooler Loading Area | N-ACM | |
| 10MDIR 933 | Insulation (Old Blown) | Attic Rafter & Beams, Cooler | N-ACM | |
| 10MDIR 934 | Insulation | Under Metal Exterior Walls | N-ACM | |
| 10MDIR 935 | Insulation | Walls, Southeast Warehouse | N-ACM | |
| 10MDIR 936 | Insulation | Pipe, Southeast Warehouse | N-ACM | |
| 10MDIR A35 | TSI (Abandoned Line) | Pipe, Ceiling, SE Warehouse, North End Along Wall | F | 36 Lin. Ft. |

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

ROUTE: 1-70
MODDOT JOB NO.: J610984
DISTRICT: 6
COUNTY: City of St Louis
SURVEYED BY: Diane Roegge & Kevin Thoenen
DATE OF SURVEY: September 15-16, 2010

TESTED BY: Diane Roegge & Kevin Thoenen
DATE OF TESTS: September 15-16, 2010
PARCEL NO.: 47
SITE ADDRESS: 1717 North Broadway, City of St Louis 63102
TYPE(S) OF STRUCTURE(S): 1-Story Brick Commercial Building with Partial Basement

| Sample ID | Color/Location of Material/Substrate | Metals (ppm) | | | | | | | | | |
|------------|--|--------------|--------|--------|-----|-----|--------|------|-----|--|--|
| | | As | Cr | Pb | Cd | Se | Ba | Hg | Ag | | |
| 10MDIR 937 | Dk Yellow/Exterior North Loading Dock Stripe/Concrete | 4,991 | 13,367 | 31,072 | <61 | <29 | <1,801 | <102 | <46 | | |
| 10MDIR 938 | Lt Yellow/Exterior North Loading Dock Stripe/Concrete | 5,333 | 19,444 | 37,530 | <62 | <32 | <1,691 | 189 | <47 | | |
| 10MDIR 939 | Lt Gray/Exterior North Loading Dock Floor/Concrete | 33 | 344 | 183 | <42 | <4 | <1,119 | <14 | <32 | | |
| 10MDIR 940 | Gray/Exterior North Loading Dock NW Steps/Concrete | 565 | 3,412 | 31,376 | <56 | <27 | <1,649 | 91 | <43 | | |
| 10MDIR 941 | Dk Yellow/Exterior North Loading Dock NW Bay/Brick | 425 | <156 | 76 | <43 | <3 | <662 | <15 | <33 | | |
| 10MDIR 942 | Yellow/Exterior East Front Pylons Bay Doors/Concrete | 2,719 | 9,760 | 16,384 | <53 | <19 | <1,539 | <69 | <40 | | |
| 10MDIR 943 | Yellow/Exterior West Back Pylons Bay Doors/Concrete | <671 | 17,768 | 75,537 | 99 | <53 | <3,043 | <183 | <61 | | |
| 10MDIR 944 | Yellow/Exterior West Driveway Southern Bay/Concrete | <10 | <171 | 23 | <40 | <3 | <974 | <12 | <31 | | |
| 10MDIR 945 | Yellow/Ext. NW Warehouse Bay Door Threshold/Conc. | <9 | <199 | <8 | <43 | <3 | <1,309 | <11 | <34 | | |
| 10MDIR 946 | Blue/Ext. NW Warehouse Bay Door Jamb Right/Brick | <28 | <183 | 378 | <42 | <4 | 2,510 | 29 | <32 | | |
| 10MDIR 947 | Dk Brown/Ext. NW Warehouse Door Jamb Left/Brick | 131 | <154 | 641 | <42 | <4 | <515 | <16 | <32 | | |
| 10MDIR 948 | Yellow/Ext. South Loading Dock East End Striping/Conc. | 1,715 | 4,419 | 28,758 | <58 | <26 | <1,867 | <91 | <44 | | |
| 10MDIR 949 | Lt Yellow/Ext. S. Loading Dock West End Striping/Conc. | 10,964 | 9,471 | 36,902 | 77 | <36 | 20,912 | <129 | <50 | | |
| 10MDIR 950 | Lt Yellow/Ext. South Loading Dock West Stairwell/Conc. | 60 | <252 | 213 | <43 | <4 | 8,011 | <14 | <34 | | |
| 10MDIR 951 | Gray/Interior Basement Floor, Columns, & Wall/Concrete | 56 | 162 | 214 | <42 | <4 | <749 | <14 | <33 | | |
| 10MDIR 952 | Light Gray/Interior Basement Floor, Closet/Concrete | 20 | 256 | 77 | <43 | <3 | <1,083 | <11 | <33 | | |
| 10MDIR 953 | Yellow/Interior Basement Wall/Concrete | <12 | <221 | 49 | <43 | <3 | 2,052 | <12 | <33 | | |
| 10MDIR 954 | White/Interior Basement Wall/Concrete | <10 | 240 | 18 | <43 | <3 | <1,532 | <12 | <33 | | |

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

b = USEPA SW-846 Method 7471

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

ROUTE: 1-70
 MODOT JOB NO.: J610984
 DISTRICT: 6
 COUNTY: City of St Louis
 SURVEYED BY: Diane Roegge & Kevin Thoenen
 DATE OF SURVEY: September 15-16, 2010

TESTED BY: *DR* Diane Roegge & Kevin Thoenen
 DATE OF TESTS: *KT* September 15-16, 2010
 PARCEL NO.: 47
 SITE ADDRESS: 1717 North Broadway, City of St Louis 63102
 TYPE(S) OF STRUCTURE(S): 1-Story Brick Commercial Building with Partial Basement

| Sample ID | Color/Location of Material/Substrate | Metals (ppm) | | | | | | | | | |
|------------|---|--------------|-------|--------|-----|-----|--------|------|-----|--|--|
| | | As | Cr | Pb | Cd | Se | Ba | Hg | Ag | | |
| 10MD1R 955 | White/Interior Basement Wall/Brick | <10 | <245 | 15 | <44 | <3 | <1,801 | <11 | <34 | | |
| 10MD1R 956 | Cream/Interior Walls & Ceiling, Safe, 1 st Floor/Conc. | <33 | 339 | 543 | <45 | <4 | <1,941 | <17 | 40 | | |
| 10MD1R 957 | Gray/Interior Floor, SE Warehouse/Concrete | <33 | <192 | 554 | <42 | <4 | 1,769 | <22 | <32 | | |
| 10MD1R 958 | Dark Blue/Interior Walls, SE Warehouse/Brick | <27 | <180 | 362 | <42 | <4 | 1,053 | <15 | <32 | | |
| 10MD1R 959 | White/Interior Walls, SE Warehouse/Brick | <27 | <235 | 315 | <45 | <4 | <1,731 | 41 | <34 | | |
| 10MD1R 960 | Dark Gray/Interior Walls, SE Warehouse/Brick | 271 | 212 | 1,188 | <43 | <6 | <1,027 | <22 | <33 | | |
| 10MD1R 961 | Gray/Int. Floor & Ramp Sides, Cooler Load'g Area/Conc. | <10 | <128 | 21 | <43 | <3 | <346 | <11 | <33 | | |
| 10MD1R 962 | Yellow/Int. Floor, Stairs & Wall, Cooler Ldg Area/Conc. | <394 | 5,260 | 45,009 | <60 | <33 | <2,035 | <111 | <46 | | |
| 10MD1R 963 | Brown/Interior Walls, Cooler Loading Area/Brick | 18 | <157 | 59 | <46 | <3 | 1,311 | <16 | <36 | | |
| 10MD1R 964 | White/Interior Walls, Cooler Loading Area/Brick | 20 | 263 | 18 | 47 | <3 | <1,674 | <13 | <34 | | |
| 10MD1R 965 | Yellow/Int. Walls, South, Cooler Loading Area/Brick | <11 | <180 | 23 | <47 | <4 | <1,168 | <13 | <36 | | |
| 10MD1R 966 | Gray/Int. Walls, South, Cooler Loading Area/Brick | <14 | 204 | 68 | <42 | <3 | <1,201 | <12 | <32 | | |
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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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