



CUY-90-14.90

PID 77332/85531

APPENDIX EC-10

**Asbestos Survey of Bridges
1, 2, 3, 5, 7, 8, 9, 11 & 12
(Contract Document)**

State of Ohio
Department of Transportation
Jolene M. Molitoris, Director

**Innerbelt Bridge
Construction Contract Group 1 (CCG1)**

Revision Date: May 20, 2010



- Addendum No. 4 - Removed
Attachment 3

FINDINGS FROM AN ASBESTOS SURVEY

Eleven (11) Bridges Associated with the CUY-Innerbelt CCGI Design ODOT PID 77332

JUNE 2009

Prepared for:

Ohio Department of Transportation
District 12
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Prepared by:



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H09004-07



HzW ENVIRONMENTAL
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June 15, 2009

Mr. Mark Alan Carpenter
Ohio Department of Transportation, District 12
5500 Transportation Boulevard
Garfield Heights, Ohio 44125

Subject: *Findings From an Asbestos Survey Conducted at Eleven (11) Bridges Associated with the CUY – Innerbelt CCGI Design for the Ohio Department of Transportation (ODOT) District 12 (HzW Project No. H09004-07)*

Dear Mr. Carpenter:

In accordance with our letter agreement dated November 26, 2007, HzW Environmental Consultants, LLC (HzW) conducted an asbestos survey at eleven (11) bridges associated with the CUY – Innerbelt CCGI Design for the Ohio Department of Transportation District 12. The eleven (11) bridges consisted of the following:

1. CUY-90-1463R (SFN 1809148) Ramp WN under I-71 Mainline Bridge
2. CUY-90-1490L (SFN 1809342) Over Starkweather Avenue
3. CUY-90-1490R (SFN 1807625) Over Starkweather Avenue
4. CUY-90-1506 (SFN 1807684) Over Kenilworth Avenue
5. CUY-90-15.24 (SFN 1809393) Innerbelt Bridge over Cuyahoga River
6. CUY-90-1628EW (SFN 1807552) Center Bridge over East 9th Street
7. CUY-90-1628L (SFN 1807498) Northern most Bridge over East 9th Street
8. CUY-90-1628R (SFN 1807714) Southern most Bridge over East 9th Street
9. CUY-90-1640 (SFN 1807773) Over Ramps E-10 and E-8
10. CUY-90-1651L (SFN 1807900) Over East 14th Street
11. CUY-90-1651R (SFN 1807803) Over East 14th Street

Discussions of the methods of investigation, the findings and applicable recommendations are provided separately below.

METHODS OF INVESTIGATION

As part of the survey, HzW requested the original construction plans for the bridges from the Ohio Department of Transportation (ODOT) District 12 to assist in identifying asbestos-containing materials (ACMs) and suspect containing ACMs used during construction. The original construction plans for all of the bridges were located by a representative of ODOT and, therefore, were reviewed by HzW. Representatives of HzW, certified by the Ohio Department of Health (ODH) as Asbestos Hazard Evaluation Specialists, subsequently conducted a physical inspection of the subject bridges during May and June 2009 to visually identify and sample accessible suspect ACMs. A photographic log depicting the subject bridges was compiled during the physical inspection and is included as **Attachment 1**.

Based on the physical inspection conducted at the subject bridges, subsequent bulk samples were collected of any accessible building materials suspected of containing asbestos. The bulk samples were submitted to EMSL Analytical, Inc. of Westmont, New Jersey, for analysis of asbestos content by Polarized Light Microscopy (PLM) using the Environmental Protection Agency (EPA) Method 600/R-93/116.

FINDINGS

The findings of the asbestos survey are presented below. These findings are based on HzW's review of the available construction plans, physical inspection of each bridge and the analytical results for any samples collected. A copy of the laboratory analytical reports for the bulk samples collected is included as **Attachment 2**.

It should be noted that all suspect building materials identified during the construction plan review are assumed to contain asbestos until they can be accessed and physically touched and inspected and rendered nonsuspect building materials and/or sampled and subsequently analyzed by polarized light microscopy and found not to contain greater than one (1) percent asbestos.

CUY-90-1463R (SFN 1809148) Ramp WN under I-71 Mainline Bridge

Based on a review of the construction plans dated April 8, 1965 (Pages 1 thru 504) for this bridge, ten (10) suspect ACMs were noted as being used during construction of the bridge. These suspect ACMs consisted of the following:

1. ¼-inch by 4-inch Expansion Joint Material – located on superstructure. Quantity of this suspect material located on the bridge structure is unknown.
2. ½-inch Preformed Expansion Joint Filler – where pull box is in contact with other concrete. Quantity of this suspect material located on the bridge structure is unknown.
3. Type I Fiber Ducts or Galvanized Steel Conduit for Foundation Conduit Bends – associated with Lighting. Quantity of this suspect material located on the bridge structure is unknown.
4. ½-inch Perforated Expansion Joint Filler – located in abutments. Quantity of this suspect material located on the bridge structure is 81 square feet.
5. 6-inch Perforated Helical Corrugated Metal Pipe (CMP) – located in abutments. Quantity of this suspect material located on the bridge structure is 164 linear feet.
6. 6-inch Non-Perforated Helical CMP – located in abutments. Quantity of this suspect material located on the bridge structure is 119 square feet.
7. 12-inch by ½-inch Premolded Sealing Strip – located at top of footing to bottom of approach slab or to 6-inches below median of the bridge. Quantity of this suspect material located on the bridge structure is 31 linear feet.
8. Construction Joints – located in abutments, wing walls, piers and deck. Quantity of this suspect material located on the bridge structure is unknown.
9. 1/8-inch Sheet Asbestos Packing – located in abutments. Quantity of this suspect material located on the bridge structure is unknown.
10. Tar Paper – located in abutments. Quantity of this suspect material located on the bridge structure is unknown.

During the physical inspection of the bridge, HzW could not locate Items 1 – 3 and 5 - 10, above. Three (3) additional suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

1. Expansion Material – located in parapet walls. HzW sampled this suspect material (Sample Nos. 01 and 02) and no asbestos was identified in the samples collected.
2. Expansion Material – located where abutment meets parapet walls. HzW sampled this suspect material (Sample Nos. 03 and 04) and no asbestos was identified in the samples collected. This material is similar to Item No. 4 listed above.
3. Expansion Material – located at base of pier columns. HzW sampled this suspect material (Sample Nos. 05 and 06) and no asbestos was identified in the samples collected.

CUY-90-1490L (SFN 1809342) Over Starkweather Avenue and CUY-90-1490R (SFN 1807625) Over Starkweather Avenue

Based on a review of the construction plans dated April 8, 1965 (Pages 1 thru 504) for these bridges, ten (10) suspect ACMs were noted as being used during construction of these bridges. These suspect ACMs consisted of the following:

1. ¼-inch by 4-inch Expansion Joint Material – located on both superstructures. Quantity of this suspect material located on the bridge structures is unknown.
2. ½-inch Preformed Expansion Joint Filler – where pull box is in contact with other concrete for both bridges. Quantity of this suspect material located on the bridge structures is unknown.
3. Type I Fiber Ducts or Galvanized Steel Conduit for Foundation Conduit Bends – associated with Lighting for both bridges. Quantity of this suspect material located on the bridge structures is unknown.
4. 1-inch Preformed Expansion Joint Filler – located around each pier column for both bridges. Quantity of this suspect material located on the bridge structures is unknown.
5. 1-inch Preformed Expansion Joint Filler – located in abutments of the CUY-90-1490R bridge only. Quantity of this suspect material located on this bridge structure is 48 square feet.
6. ½-inch Preformed Expansion Joint Filler – located in abutments of both bridges. Quantity of this suspect material located on each bridge structure is 162 square feet for the CUY-90-1490R bridge and 48 square feet for the CUY-90-1490L bridge.
7. 6-inch Performed Helical Corrugated Metal Pipe (CMP) – located in abutments of both bridges. Quantity of this suspect material located on each bridge structure is 167 linear feet on the CUY-90-1490R bridge and 56 linear feet on the CUY-90-1490L bridge.
8. 6-inch Non Performed Helical Corrugated Metal Pipe (CMP) – located in abutments of both bridges. Quantity of this suspect material located on each bridge structure is 275 linear feet on the CUY-90-1490R bridge and 70 linear feet on the CUY-90-1490L bridge.
9. 12-inch by ½-inch Premolded Sealing Strip – located at top of footing to bottom of approach slab or to 6-inches below median on the CUY-90-1490R bridge. Quantity of this suspect material located on this bridge structure is 62 linear feet.
10. Construction Joints – located in abutments, wing walls, piers and deck on both bridges. Quantity of this suspect material located on the bridge structures is unknown.

During the physical inspection of the bridge, HzW could not locate Items 1 – 5 and 7 - 10, above. Three (3) additional suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

1. Expansion Material – located in abutment meets parapet walls of both bridges. HzW sampled this suspect material (Sample Nos. 01 and 02) and no asbestos was identified in the samples collected. This material is similar to Item No. 6 listed above.
2. Expansion Material – located in parapet walls of both bridges. HzW sampled this suspect material (Sample Nos. 03 and 04) and no asbestos was identified in the samples collected.
3. Expansion Material – located where the abutment meets the underside sloped concrete wall of both bridges. HzW sampled this suspect material (Sample Nos. 05 and 06) and no asbestos was identified in the samples collected.

CUY-90-1506 (SFN 1807684) Over Kenilworth Avenue

Based on a review of the construction plans dated April 8, 1965 (Pages 1 thru 504) for this bridge, ten (10) suspect ACMs were noted as being used during construction of the bridge. These suspect ACMs consisted of the following:

1. ¼-inch by 4-inch Expansion Joint Material – located on superstructure. Quantity of this suspect material located on the bridge structure is unknown.
2. ½-inch Preformed Expansion Joint Filler – where pull box is in contact with other concrete. Quantity of this suspect material located on the bridge structure is unknown.
3. Type I Fiber Ducts or Galvanized Steel Conduit for Foundation Conduit Bends – associated with Lighting. Quantity of this suspect material located on the bridge structure is unknown.
4. 1-inch Preformed Expansion Joint Filler – located around each pier column. Quantity of this suspect material located on the bridge structure is unknown.
5. 1-inch Preformed Expansion Joint Filler – located in abutments. Quantity of this suspect material located on the bridge structure is 47 square feet.
6. ½-inch Preformed Expansion Joint Filler – located in abutments. Quantity of this suspect material located on the bridge structure is 165 square feet.
7. 6-inch Performed Helical Corrugated Metal Pipe (CMP) – located in abutments. Quantity of this suspect material located on the bridge structure is 281 linear feet.
8. 6-inch Non Performed Helical Corrugated Metal Pipe (CMP) – located in abutments. Quantity of this suspect material located on the bridge structure is 165 linear feet.
9. 12-inch by ½-inch Premolded Sealing Strip – located at top of footing to bottom of approach slab or to 6-inches below median. Quantity of this suspect material located on the bridge structure is unknown.
10. Construction Joints – located in abutments, wing walls, piers and deck. Quantity of this suspect material located on the bridge structure is unknown.

During the physical inspection of the bridge, HzW could not locate Items 1 - 10, above. One (1) additional suspect ACM was identified during the physical inspection. This suspect material consisted of the following:

1. Expansion Gasket Material – located in parapet walls. HzW sampled this suspect material (Sample Nos. 01 and 02) and no asbestos was identified in the samples collected.

CUY-90-15.24 (SFN 1809393) Innerbelt Bridge over Cuyahoga River

Based on a review of the construction plans dated April 8, 1965 (Pages 1 thru 504) for this bridge, thirty-one (31) suspect ACMs were noted as being used during construction of the bridges. These suspect ACMs consisted of the following:

West Approach

1. 3-inch Fiber or Asbestos Cement Conduit for Lighting Cables – located in parapet. Quantity of this suspect material located on the bridge structure is unknown.
2. 3-inch Transite conduit or equal for Lighting Cables – located in concrete foundation from transformer pole base box. Quantity of this suspect material located on the bridge structure is unknown.
3. 3-inch Transite Conduit for lighting – located in concrete pull box. Quantity of this suspect material located on the bridge structure is unknown.
4. 12-inch by ½-inch Premolded Sealing Strip – located at top of footing to 9-inches below top of curb. Quantity of this suspect material located on the bridge structure is unknown.
5. Construction Joints – located in abutments, retaining walls and piers. Quantity of this suspect material located on the bridge structure is unknown.
6. 1-inch Gray Rubber Preformed Expansion Joint Filler – located in abutments. Quantity of this suspect material located on the bridge structure is 170 square feet.
7. 3-inch Johns Manville Transite or Equal Conduit – running under pavement. Quantity of this suspect material located on the bridge structure is unknown.

Central Viaduct

8. Construction Joints – located in slab and piers. Quantity of this suspect material located on the bridge structure is unknown.
9. 1-inch Preformed Gray Rubber Expansion Joint Filler – located in abutments. Quantity of this suspect material located on the bridge structure is 73.2 square feet.
10. 3-inch conduit – located under each sidewalk. Quantity of this suspect material located on the bridge structure is unknown.
11. 4 2-inch conduits – located transversely in Span 1 and Span 9. Quantity of this suspect material located on the bridge structure is unknown.
12. Expansion Joint – located in piers. Quantity of this suspect material located on the bridge structure is unknown.
13. ½-inch Poured Mastic Joints – associated with roadway drainage. Quantity of this suspect material located on the bridge structure is unknown.
14. ½-inch Filler – located at floor beams. Quantity of this suspect material located on the bridge structure is unknown.
15. 1-inch Hot Poured Joint Sealer – associated with drainage. Quantity of this suspect material located on the bridge structure is unknown.
16. ½-inch Sponge Rubber Expansion Joint Material – located on superstructure. Quantity of this suspect material located on the bridge structure is 716 square feet.

East Approach

17. 2-inch or 3-inch Fiber or Asbestos Cement Conduit for Lighting Cables – located in parapet. Quantity of these suspect materials located on the bridge structure is 3,550 linear feet.
18. Asbestos Wire for Lighting – installed between the bracket end at luminaire and lamp socket. Insulation shall be asbestos applied to conductor to form a continuous tube of asbestos fibers at least 40 mils thick tightly compressed and impregnated with a flame heat & moisture proof compound and an outer asbestos braid at least 45 mils thick. Quantity of this suspect material located on the bridge structure is unknown.
19. 2-Way Duct Bank for Lighting Containing 2-inch Nonmetallic Conduit. Quantity of these suspect materials located on the bridge structure is unknown.
20. 12-inch by ½-inch Premolded Sealing Strip – located from bottom of footing to bottom of approach slab in abutments and from top of footing to 9-inches below top of curb in wing wall. Quantity of this suspect material located on the bridge structure is 60 linear feet.
21. ½-inch Bituminous Premoulded Joint Filler – associated with Riprap expansion joints. Quantity of this suspect material located on the bridge structure is unknown.
22. Construction Joints – located in abutments and piers. Quantity of this suspect material located on the bridge structure is unknown.
23. ½-inch Premoulded Gray Rubber Expansion Joint Material – located in approach slabs. Quantity of this suspect material located on the bridge structure is unknown.
24. 2-inch Duct – located in concrete foundation from transformer pole base box. Quantity of this suspect material located on the bridge structure is unknown.
25. 4-inch Duct – location unknown. Quantity of this suspect material located on the bridge structure is 350 linear feet.
26. 1 Layer of Tar Paper – located in abutments, footings, and piers. Quantity of this suspect material located on the bridge structure is unknown.
27. Handrail Caulking Compound – located on parapet sidewalk. Quantity of this suspect material located on the bridge structure is unknown.
28. 1-inch Hot Poured Joint Filler – located in construction joints on wearing surface. Quantity of this suspect material located on the bridge structure is unknown.
29. ¼-inch Gray Rubber Deflection Joint Material – location unknown. Quantity of this suspect material located on the bridge structure is unknown.
30. Transverse Conduit – located under roadway. Quantity of this suspect material located on the bridge structure is unknown.
31. ½-inch Gray Rubber Preformed Expansion Joint Filler – located in piers and abutments. Quantity of this suspect material located on the bridge structure is 330 square feet.

During the physical inspection of the bridge, HzW could not locate Items 1-24 and 26-31, above. Five (5) additional suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

1. Epoxy Material underneath Fence Post Brackets – located on parapet walls. HzW sampled this suspect material (Sample Nos. 01 through 04) and no asbestos was identified in the samples collected.
2. Gasket Material – located in parapet walls. HzW sampled this suspect material (Sample Nos. 05 and 06) and no asbestos was identified in the samples collected.

3. 4-inch fiber conduit – located in abutment walls. HzW sampled this suspect material (Sample Nos. 07 and 08 and 11 and 12) and from 32.5 to 43.1 percent asbestos was identified in the samples collected. This material is similar to Item No. 25, above located in the East Approach of this bridge. It should be noted that this same asbestos-containing material was also identified in the West Approach; however, it was not documented in the construction plans. HzW estimated that approximately 350 linear feet of this material is located in the West Approach of this bridge.
4. 3-inch Tar-Coated Cellulose Duct – located in parapet walls. HzW sampled this suspect material (Sample Nos. 09 and 10) and no asbestos was identified in the samples collected.
5. Expansion Gasket Material – located in abutments. HzW sampled this suspect material (Sample Nos. 13 and 14) and no asbestos was identified in the samples collected.

CUY-90-1628EW (SFN 1807552) Center Bridge, CUY-90-1628L (SFN 1807498) Northern most Bridge and CUY-90-1628R (SFN 1807714) Southern most Bridge over East 9th Street

Based on a review of the construction plans dated March 9, 1960 (Pages 1 thru 148) for these bridges, twelve (12) suspect ACMs were noted as being used during construction of the bridges. These suspect ACMs consisted of the following:

1. 2-inch and 4-inch Fiber or Asbestos Cement Conduit for Lighting cables – located in parapet, retaining walls and superstructure of all bridges. Quantity of these suspect materials located on the bridge structures is 740 and 65 linear feet, respectively.
2. Asbestos Wire for Lighting – installed between the bracket end at luminaire and lamp socket of all bridges. Insulation shall be asbestos applied to conductor to form a continuous tube of asbestos fibers at least 40 mils thick tightly compressed and impregnated with a flame heat & moisture proof compound and an outer asbestos braid at least 45 mils thick. Quantity of this material located on the bridge structures is unknown.
3. 2-Way Duct Bank for Lighting Containing 2 2-inch Fiber or Asbestos Conduit – located in all bridges. Quantity of this suspect material located on the bridge structures is 350 linear feet.
4. 3-Way Duct Bank for Lighting Containing 3 4-inch Fiber or Asbestos Conduit – located in all bridges. Quantity of this suspect material located on the bridge structures is 150 linear feet.
5. 4-Way Duct Bank for Lighting Containing 2 2-inch and 2-4-inch Fiber or Asbestos Conduit – located in all bridges. Quantity of this suspect material located on the bridge structures is 175 linear feet.
6. Conduit for Lighting – located in concrete pull boxes of all bridges. Quantity of this suspect material located on the bridge structures is unknown.
7. 12-inch by ½-inch Premolded Sealing Strip – located in abutments in recess from top of footing to bottom of approach slab and to 6-inch below top of median of all bridges. Quantity of this suspect material located on the bridge structures is 60 linear feet.
8. ¾-inch Premoulded Expansion Joint Material – located in front of bumper block to within 2-inches of the surface of all bridges. Quantity of this suspect material located on the bridge structures is unknown.
9. Bituminous filler – located in front of bumper block to within 2-inches of the surface of all bridges. Quantity of this suspect material located on the bridge structures is unknown.
10. Construction Joints – located in abutments and piers of all bridges. Quantity of this suspect material located on the bridge structures is unknown.
11. 1-inch Preformed Expansion Joint Filler – located in piers of all bridges. Quantity of this suspect material located on the bridge structures is unknown.
12. 1-inch Preformed Gray Sponge Rubber Expansion Joint Filler – located in abutments of all bridges. Quantity of this suspect material located on the bridge structures is 80 square feet.

During the physical inspection of the three (3) bridges, HzW could not locate Items 1 - 12, above. Five (5) additional suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

1. Epoxy Material underneath New Guard Rail Mounts – located on parapet walls of all three (3) bridges. HzW sampled this suspect material on each bridge (Sample Nos. 01 and 02 for each bridge) and no asbestos was identified in the samples collected.
2. 3-inch Tar-Coated Cellulose Duct – located in parapet walls of all three (3) bridges. HzW sampled this suspect material on each bridge (Sample Nos. 03 and 04 for each bridge) and no asbestos was identified in the samples collected.
3. Gasket Material underneath Old Guard Rail Mounts – located on parapet walls of all three (3) bridges. HzW sampled this suspect material on each bridge (Sample Nos. 05 and 06 for the Central bridge and Sample Nos. 07 and 08 for the Northern-most and Southern-most bridges) and from 2.1 to 2.5 percent asbestos was identified in the samples collected. The quantity of this asbestos-containing material identified on all three (3) bridges is 30 square feet (6 square feet on the Central bridge, 15 square feet on the Northern most bridge and 9 square feet on the Southern most bridge).
4. Gasket Material – located in parapet walls of all three (3) bridges. HzW sampled this suspect material on each bridge (Sample Nos. 07 and 08 for the Central bridge and Sample Nos. 05 and 06 for the Northern-most and Southern-most bridges) and no asbestos was identified in the samples collected.
5. Thick Gasket Material – located where the bridge deck meets the abutment of the Northern-most bridge. HzW sampled this suspect material (Sample Nos. 09 and 10) and no asbestos was identified in the samples collected.

CUY-90-1640 (SFN 1807773) Over Ramps E-10 and E-8

Based on a review of the construction plans dated March 9, 1960 (Pages 101 thru 113) for this bridge, sixteen (16) suspect ACMs were noted as being used during construction of the bridge. These suspect ACMs consisted of the following:

1. 2-inch and 4-inch Fiber or Asbestos Cement Conduit for Lighting cables– in parapet, retaining walls and superstructure. Quantity of these suspect materials located on the bridge structure is estimated at 715 and 20 linear feet, respectively.
2. 2-inch Fiber Conduit for Lighting Cables – in concrete foundation from transformer pole base box. Quantity of this suspect material located on the bridge structure is unknown.
3. Asbestos Wire for Lighting – installed between the bracket end at luminaire and lamp socket. Insulation shall be asbestos applied to conductor to form a continuous tube of asbestos fibers at least 40 mils thick tightly compressed and impregnated with a flame heat & moisture proof compound and an outer asbestos braid at least 45 mils thick. Quantity of this suspect material located on the bridge structure is unknown
4. 2-Way Duct Bank for Lighting Containing 2 2-inch and 1 4-inch Fiber or Asbestos Conduit. Quantity of these suspect materials located on the bridge structure is 583 and 35 linear feet, respectively.
5. 3-Way Duct Bank for Lighting Containing 3 2-inch Fiber or Asbestos Conduit. Quantity of this suspect material located on the bridge structure is 130 linear feet.
6. 4-Way Duct Bank for Lighting Containing 2 2-inch Fiber or Asbestos Conduit. Quantity of these suspect materials located on the bridge structure is 287 linear feet.
7. Transite Conduit for Lighting – located in concrete pull box. Quantity of this suspect material located on the bridge structure is unknown.

8. 12-inch by ½-inch Premolded Sealing Strip – located in abutments and retaining walls in recess from top of footing to bottom of approach slab and to 6-inch below top of median. Quantity of this suspect material located on the bridge structure is 80 linear feet.
9. ¾-inch Premoulded Expansion Joint Material – located in front of bumper block to within 2-inches of the surface. Quantity of this suspect material located on the bridge structure is unknown.
10. Bituminous Filler – located in front of bumper block to within 2-inches of the surface. Quantity of this suspect material located on the bridge structure is unknown.
11. Construction Joints – located in abutments, retaining walls, nose and piers. Quantity of this suspect material located on the bridge structure is unknown.
12. ½-inch Bituminous Preformed Joint Filler – located in abutments for drainage. Quantity of this suspect material located on the bridge structure is unknown.
13. 1-inch Expansion Joint – located in abutments and end dam. Quantity of this suspect material located on the bridge structure is unknown.
14. Poured Joint Sealer – associated with junction boxes at median. Quantity of this suspect material located on the bridge structure is unknown.
15. 1-inch Preformed Expansion Joint Filler – located in piers. Quantity of this suspect material located on the bridge structure is unknown.
16. ¼-inch Preformed Gray Sponge Rubber Expansion Joint Filler – located in parapet joints. Quantity of this suspect material located on the bridge structure is unknown.

During the physical inspection of the bridge, HzW could not locate Items 1 - 15, above. Four (4) additional suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

1. Epoxy Material underneath New Guard Rail Mounts – located on parapet walls. HzW sampled this suspect material (Sample Nos. 01 and 02) and no asbestos was identified in the samples collected.
2. 3-inch Tar-Coated Cellulose Duct – located in parapet walls. HzW samples this suspect material (Sample Nos. 03 and 04) and no asbestos was identified in the samples collected.
3. Expansion Material – located in parapet walls. HzW sampled this suspect material (Sample Nos. 05 and 06) and no asbestos was identified in the samples collected. This material is similar to Item No. 16, above.
4. Gasket Material underneath Old Guard Rail Mounts – located on parapet walls of both bridges. HzW sampled this suspect material (Sample Nos. 07 and 08) and from 3.7 to 3.9 percent asbestos was identified in the samples collected. Approximately 15 square feet of this asbestos-containing material is located on the bridge structure.

CUY-90-1651L (SFN 1807900) and CUY-90-1651R (SFN 1807803) Over East 14th Street

Based on a review of the construction plans dated March 9, 1960 (Pages 1 thru 181) for these bridges, sixteen (16) suspect ACMs were noted as being used during construction of the bridges. These suspect ACMs consisted of the following:

1. 2-inch and 4-inch Fiber or Asbestos Cement Conduit for Lighting cables – in parapet, retaining walls and superstructure of both bridges. Quantity of these suspect materials located on the bridge structures is 1,350 and 690 linear feet, respectively.
2. 2-inch fiber conduit for lighting cables – in concrete foundation from transfer pole base box of both bridges. Quantity of this suspect material located on the bridge structures is unknown.

3. Asbestos wire for lighting – installed between the bracket end at luminaire and lamp socket of both bridges. Insulation shall be asbestos applied to conductor to form a continuous tube of asbestos fibers at least 40 mils thick tightly compressed and impregnated with a flame heat & moisture proof compound and an outer asbestos braid at least 45 mils thick. Quantity of this suspect material located on the bridge structures is unknown.
4. 2-Way Duct Bank for Lighting Containing 2 2-inch and 1 4-inch Fiber or Asbestos Conduit– located in both bridges. Quantity of these suspect located on the bridge structures is 583 and 35 linear feet, respectively.
5. 3-Way Duct Bank for lighting containing 3 2-inch fiber or asbestos conduit– located in both bridges. Quantity of this suspect material located on the bridge structures is 130 linear feet.
6. 4-Way Duct Bank for lighting containing 2 2-inch fiber or asbestos conduit– located in both bridges. Quantity of these suspect materials located on the bridge structures is 287 linear feet.
7. Transite Conduit for lighting – located in concrete pull box of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
8. 12-inch by ½-inch Premolded Sealing Strip – located in abutments and retaining walls in recess from top of footing to bottom of approach slab and to 6-inch below top of median of both bridges. Quantity of this suspect material located on the bridge structures is 144 linear feet.
9. ¼-inch Premoulded Expansion Joint Material – located in front of bumper block to within 2-inches of the surface of both bridges. Quantity of this suspect material located on the bridge structures is unknown
10. Bituminous filler – located in front of bumper block to within 2-inches of the surface of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
11. Construction Joints – located in abutments, retaining walls, nose and piers of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
12. ½-inch Bituminous Preformed Joint Filler – located in abutments for drainage of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
13. 1-inch Expansion Joint – located in abutments and end dam of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
14. Poured Joint Sealer – associated with junction boxes at median of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
15. 1-inch Preformed Expansion Joint Filler – located in piers of both bridges. Quantity of this suspect material located on the bridge structures is unknown.
16. ¼-inch Preformed Gray Sponge Rubber Expansion Joint Filler – located in parapet joints of both bridges. Quantity of this suspect material located on the bridge structures is unknown.

During the physical inspection of the two (2) bridges, HzW could not locate Items 1 - 15, above. Four (4) additional suspect ACMs were identified during the physical inspection. These suspect materials consisted of the following:

1. Epoxy Material underneath New Guard Rail Mounts – located on parapet walls of both bridges. HzW sampled this suspect material (Sample Nos. 01 and 02) and no asbestos was identified in the samples collected.
2. 3-inch Tar-Coated Cellulose Duct – located in parapet walls of both bridges. HzW samples this suspect material (Sample Nos. 03 and 04 and 07 and 08) and no asbestos was identified in the samples collected.
3. Expansion Material – located in parapet walls of both bridges. HzW sampled this suspect material (Sample Nos. 05 and 06) and no asbestos was identified in the samples collected. This material is similar to Item No. 16, above.

4. **Gasket Material underneath Old Guard Rail Mounts** – located on parapet walls of both bridges. HzW sampled this suspect material (Sample Nos. 09 and 10) and from 3.1 to 3.4 percent asbestos was identified in the samples collected. Approximately 15 square feet of this asbestos-containing material was identified on the bridge structures.

The building materials identified during the construction plan review were considered suspect materials, based on the assumption that these materials are typically coated or comprised of an asbestos-containing material, physically contain an asbestos-containing material(s), or are identified by their description as an "asbestos" material.

RECOMMENDATIONS

Based on the findings from the asbestos survey of the subject bridges, the following recommendations are presented for consideration:

1. Notify any outside contractor(s), prior to them working on the subject bridges, of the presence of any building materials identified as containing asbestos or assumed to contain asbestos.
2. If renovation activities have the potential to disturb the identified ACMs or assumed ACMs, then a licensed asbestos abatement contractor should be contracted to remove these materials prior to them being disturbed.
3. Submit the Ohio Environmental Protection Agency (OEPA), "Notification of Demolition and Renovation" form to the OEPA ten (10) days prior to any renovations activities which will involve the disturbance of 160 square feet or 260 linear feet of regulated asbestos-containing material (RACM) and ten (10) days prior to any demolition activities. Demolition is defined as the wrecking or taking out of any load-supporting structural member at a bridge. HzW has completed a copy of the OEPA's "Notification of Demolition and Renovation" form for each of the subject bridges. A copy of each of the completed forms is included as **Attachment 3**.

It should be noted for the purpose of completing the notification, the 9th Street Bridge's and the East 14th Street Bridge's suspect material quantities were divided among the three (3) bridges comprising the 9th Street Bridges or the two (2) bridges comprising the East 14th Street Bridges, due to the construction plans not indicating the specific locations for these materials.

In addition, it should be noted that the construction plans indicated linear feet for building materials entitled joint filler, joint material, corrugated metal pipe, and sealing strip. EPA's Notification of Demolition and Renovation form only permits asbestos-containing pipe to be quantified in linear feet. Therefore, in order to report the quantities of joint filler, joint material, corrugated metal pipe and sealing strip properly on the notification form, HzW converted each quantity of these materials to a square footage quantity. This was performed by assuming a width of one (1) foot for each material. As a result, these square footage quantities could vary depending of the actual width of the materials on the bridge structures.

Mr. Mark Alan Carpenter
June 15, 2009
Page 12

4. If renovation and/or demolition activities are to occur at the subject bridges, submit the ODH "Prior Notification of Asbestos Hazard Abatement Project" form to the ODH ten (10) days prior to any asbestos hazard abatement activity being performed. ODH defines an asbestos hazard abatement activity as any activity involving the removal, renovation, enclosure, repair or encapsulation of reasonably related friable ACMs in an amount greater than fifty linear feet or fifty square feet.
5. As indicated in the OEPA "Notification of Demolition and Renovation" form, Section XVII, ensure that an individual trained in the provisions of the National Emissions Standard for Hazardous Air Pollutants (NESHAP) is on site during any renovation or demolition activities performed at the subject bridges. This individual should be certified by the Ohio Department of Health as an Asbestos Hazard Evaluation Specialist.
6. If the building materials identified as containing asbestos or assumed to contain asbestos are to remain in place, implement an operations and maintenance (O&M) program whereby these materials are continually evaluated and maintained by trained personnel.

HZW appreciates the opportunity you have given us to provide professional services to the Ohio Department of Transportation, District 12. Should you have any questions regarding the information presented in this letter report, please do not hesitate to contact us.

Sincerely,

HZW ENVIRONMENTAL CONSULTANTS, LLC



Matthew P. Fergus
Certified Asbestos Hazard Evaluation Specialist (ODH Licensed No. ES33228)



Joan A. Sablar
Senior Industrial Hygienist

JAS:jas\js\H09004-07
Attachments
I:\HZW\2009\H09004-07\District12Bridges_11Bridges_Rpt.doc

ATTACHMENT 1

PHOTOGRAPHIC LOG





Photograph 01
View Looking East at the Top of the East Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651R)



Photograph 02
View Looking East at the Top of the West Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651L)





Photograph 03
View Looking West at the Underside of the West Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651L)



Photograph 04
View Looking West at the Underside of the East Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651R)



Photograph 05
View Looking East at the Underside of the West Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651L)



Photograph 06
View Looking East at the Underside of the East Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651R)



Photograph 07
View Looking West at the Top of the East Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651R)



Photograph 08
View Looking West at the Top of the West Bound Lanes of the
Interstate 90 Bridge over East 14th Street (CUY-90-1651L)



Photograph 09
View Looking East at the Top of the East Bound Lanes of the
Interstate 90 Bridge over Ramps E-10 and E-8 (CUY-90-1640)



Photograph 10
View Looking West at the Top of the East Bound Lanes of the
Interstate 90 Bridge over Ramps E-10 and E-8 (CUY-90-1640)



Photograph 11
View Looking East at the Underside of the East and West Bound Lanes of the Interstate 90 Bridge over Ramps E-10 and E-8 (CUY-90-1640)



Photograph 12
View Looking West at the Top of the West Bound Lanes of the Interstate 90 Bridge over Ramps E-10 and E-8 (CUY-90-1640)



Photograph 13
View Looking East at the Top of the West Bound Lanes of the
Interstate 90 Bridge over Ramps E-10 and E-8 (CUY-90-1640)



Photograph 14
View Looking West at the Underside of the East and West Bound Lanes of the
Interstate 90 Bridge over Ramps E-10 and E-8 (CUY-90-1640)



Photograph 15
View Looking West at the Top of the West Bound On Ramp of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628EW)



Photograph 16
View Looking East at the Top of the West Bound On Ramp of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628EW)



Photograph 17
View Looking West at the Underside of the West Bound On Ramp of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628EW)



Photograph 18
View Looking East at the Underside of the West Bound On Ramp of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628EW)



Photograph 19
View Looking West at the Top of the West Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628L)



Photograph 20
View Looking West at the Underside of the West Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628L)



Photograph 21
View Looking East at the Underside of the West Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628L)



Photograph 22
View Looking East at the Underside of the East Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628R)



Photograph 23
View Looking West at the Top of the East Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628R)



Photograph 24
View Looking East at the Top of the East Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628R)



Photograph 25
View Looking West at the Underside of the East Bound Lanes of the
Interstate 90 Bridge over East 9th Street (CUY-90-1628R)



Photograph 26
View Looking North at the Top of the West Bound Lanes of the
Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)



Photograph 27
View Looking South at the Underside of the East and West Bound Lanes of the
Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)



Photograph 28
View Looking North at the Top of the East Bound Lanes of the
Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)



Photograph 29
View Looking South at the Underside of the East Bound On Ramp Lane of the
Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)



Photograph 30
View Looking West at the Underside of the East Bound Off Ramp Lane of the
Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)



Photograph 31
View Looking West at the Underside of the East and West Bound Lanes of the
Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)



Photograph 32
View Looking West at the Top of the East Bound Lanes of the
Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)



Photograph 33
View Looking West at the Top of the West Bound Lanes of the
Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)



Photograph 34
View Looking North at the Underside of the West Bound On Ramp Lane of the
Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)



Photograph 35
View Looking South at the Underside of the West Bound Off Ramp Lane of the
Interstate 90 Innerbelt Bridge over the Cuyahoga River (CUY-90-15.24)



Photograph 36
View Looking South at the Top of the East Bound Lanes of the
Interstate 90 Bridge over Kenilworth Avenue (CUY-90-1506)



Photograph 37
View Looking North at the Underside of the East and West Bound Lanes of the
Interstate 90 Bridge over Kenilworth Avenue (CUY-90-1506)



Photograph 38
View Looking South at the Top of the West Bound Lanes of the
Interstate 90 Bridge over Kenilworth Avenue (CUY-90-1506)



Photograph 39
View Looking North at the Top of the West Bound Lanes of the
Interstate 90 Bridge over Kenilworth Avenue (CUY-90-1506)



Photograph 40
View Looking South at the Underside of the East and West Bound Lanes of the
Interstate 90 Bridge over Kenilworth Avenue (CUY-90-1506)



Photograph 41
View Looking North at the Top of the East Bound Lanes of the
Interstate 90 Bridge over Kenilworth Avenue (CUY-90-1506)



Photograph 42
View Looking North at the Top of the West Bound Lanes of the
Interstate 90 Bridge over Starkweather Avenue (CUY-90-1490L)



Photograph 43
View Looking South at the Top of the West Bound Lanes of the
Interstate 90 Bridge over Starkweather Avenue (CUY-90-1490L)



Photograph 44
View Looking North at the Underside of the East and West Bound Lanes of the
Interstate 90 Bridge over Starkweather Avenue (CUY-90-1490L)



Photograph 45
View Looking South at the Top of the East Bound Lanes of the
Interstate 90 Bridge over Starkweather Avenue (CUY-90-1490R)



Photograph 46
View Looking North at the Top of the East Bound Lanes of the
Interstate 90 Bridge over Starkweather Avenue (CUY-90-1490R)



Photograph 47
View Looking South at the Underside of the East and West Bound Lanes of the
Interstate 90 Bridge over Starkweather Avenue (CUY-90-1490R)



Photograph 48
View Looking South at the Top of the East Bound Lanes of the
Interstate 90 Bridge Ramp WN under I-71 Mainline Bridge (CUY-90-1463R)



Photograph 49
View Looking North at the Underside of the East Bound Lanes of the
Interstate 90 Bridge Ramp WN under I-71 Mainline Bridge (CUY-90-1463R)



Photograph 50
View Looking West at the Underside of the East Bound Lanes of the
Interstate 90 Bridge Ramp WN under I-71 Mainline Bridge (CUY-90-1463R)



Photograph 51
View Looking Northwest at the Top of the East Bound Lanes of the
Interstate 90 Bridge Ramp WN under I-71 Mainline Bridge (CUY-90-1463R)

ATTACHMENT 2

LABORATORY ANALYTICAL REPORTS

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/12/2009
Project: CUY-90-1463R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3640995 | Description / Location: Grey Rubber Non Fibrous | | |
| Client No.: 01 | Expansion Material | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | 100 |

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3640996 | Description / Location: Grey Rubber Non Fibrous | | |
| Client No.: 02 | Expansion Material | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | 100 |

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3640997 | Description / Location: Brown Fibrous | | |
| Client No.: 03 | Expansion Material | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | 99 | 1 |

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3640998 | Description / Location: Brown Fibrous | | |
| Client No.: 04 | Expansion Material | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | 99 | 1 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government
This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Approved By: _____

Date: 6/12/2009

Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/12/2009
Project: CUY-90-1463R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

| | | | |
|-------------------|---------------------------------------|--|-------------------------------|
| Lab No.: 3640999 | Description / Location: Brown Fibrous | | |
| Client No.: 05 | Expansion Material | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | 100 | None Detected |
| | | Cellulose | |

| | | | |
|-------------------|---------------------------------------|--|-------------------------------|
| Lab No.: 3641000 | Description / Location: Brown Fibrous | | |
| Client No.: 06 | Expansion Material | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | 100 | None Detected |
| | | Cellulose | |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Date: 6/12/2009

International Asbestos Testing Laboratories
9000 Commerce Pkwy., Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: H2W Environmental Consultants Project Name: CUY-90-1463 R
6105 Halsey Rd. Project No.: HO 9004-07
Mentor, Oh 44060
Phone: 440-357-1260 Contact: Joan Sablar
FAX: 440-357-1510 Pager:
Special Instructions: PO# 5/62-09

Type:

| Asbestos | | | Lead | | | Other | | |
|-------------------------------------|-------|--------------------------|-------|--------------------------|-------|--------------------------|-------|--|
| <input type="checkbox"/> | Air | <input type="checkbox"/> | Soil | <input type="checkbox"/> | Air | <input type="checkbox"/> | Soil | |
| <input checked="" type="checkbox"/> | Bulk | <input type="checkbox"/> | Dust | <input type="checkbox"/> | Bulk | <input type="checkbox"/> | Paint | |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | Other | <input type="checkbox"/> | Water | <input type="checkbox"/> | Other | |

Analysis Method:

| | | | | | |
|--------------------------|-----------------------------------|-------------------------------------|---------------------------------|-------------------------------------|------------------------|
| <input type="checkbox"/> | PCM: NIOSH 7400 | <input checked="" type="checkbox"/> | PLM: Bulk Asbestos EPA 600 | <input type="checkbox"/> | TEM: AHERA |
| <input type="checkbox"/> | PCM: OSHA | <input type="checkbox"/> | PLM: Point Counting 198.1 | <input type="checkbox"/> | TEM: NIOSH 7402 |
| <input type="checkbox"/> | PCM: Other | <input type="checkbox"/> | PLM: NOB via 198.1 (PLM only) | <input type="checkbox"/> | TEM: EPA Level II |
| <input type="checkbox"/> | AAS: NIOSH 7082 (Air) | <input type="checkbox"/> | IF <1% by PLM, to TEM via 198.4 | <input type="checkbox"/> | TEM: Microvac / Wipe |
| <input type="checkbox"/> | AAS: Lead in Drinking Water | to meet NYSDOH requirements ** | | <input type="checkbox"/> | TEM: Asbestos in Water |
| <input type="checkbox"/> | AAS: Lead in Paint ASTM D3335-85a | (**call to confirm TAT!) | | <input checked="" type="checkbox"/> | TEM: Bulk Analysis |
| <input type="checkbox"/> | AAS: Lead Dust/Wipe | <input type="checkbox"/> | | <input type="checkbox"/> | TEM: NOB 198.4 |
| <input type="checkbox"/> | AAS: Other Metals / Soil | <input type="checkbox"/> | | <input type="checkbox"/> | TEM: Other |
| | | <input type="checkbox"/> | | <input type="checkbox"/> | Total Dust: NIOSH 0500 |

Turnaround Time:

FAX: _____ Verbal: _____
date / time date / time

10 Day 5 Day 3 Day 2 Day 1 Day 6 hour RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 01 06 IATL #(s): _____ Total: _____
(start) (end) (start) (end)

Chain of Custody:

| | | | |
|--------------------------|--|-------------|-------------|
| Relinquished: _____ | <p style="text-align: center; border: 1px solid black; padding: 5px;">R E C E I V E R</p> <p>Date: <u>6/11/09</u> Time: <u>4pm</u></p> <p>Date: _____ Time: _____</p> <p>Date: <u>11 JUN 1 2009</u> Time: _____</p> <p>Date: <u>6/26/09</u> Time: _____</p> <p>Date: _____ Time: _____</p> <p>Date: _____ Time: _____</p> | | |
| Received: _____ | | | |
| Sample Log-in: _____ | | | |
| Sample Prep: _____ | | | |
| Analyzed: _____ | | | |
| QA/QC Review: _____ | | | |
| Archived/Released: _____ | QA/QC InterLAB Use: _____ | Date: _____ | Time: _____ |

International Asbestos Testing Laboratories
 16000 Horizon Way, Unit 100
 Mt. Laurel, NJ 08054

Tel 856 231-9449
 Fax 856 231-9818
 info@istd.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Hertsley Rd
Mentor OH 44060
 Phone: 440-357-1910
 FAX: 440-357-1910

Project Name: CUY-90-1463R
 Project No.: H09004-07
 Contact: Jean Sablar
 Analysis: Bulk PLM

Special Instructions: _____

| Sample No. | Sample ID | Color | Texture | Description | Notes |
|------------|-----------|-------|---------|------------------------------|-------|
| 01 | 1640995 | | | Expansion Material - Rebar | |
| 02 | 1640996 | | | " | |
| 03 | 1640997 | | | Expansion Material - Fibrous | |
| 04 | 1640998 | | | " | |
| 05 | 3640999 | | | Expansion Material - Fibrous | |
| 06 | 3641000 | | | " | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | |
|----------------------|----------------------|------------------|
| Relinquished: _____ | Date: <u>6/11/09</u> | Time: <u>4pm</u> |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: _____ | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: _____ | Time: _____ |
| Analyzed: _____ | Date: _____ | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/12/2009
Project: CUY-90-1490 L+R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3640989 | Description / Location: Brown Fibrous | | |
| Client No.: 01 | Expansion Material | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | 95 | 5 |
| | | Cellulose | |

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3640990 | Description / Location: Brown Fibrous | | |
| Client No.: 02 | Expansion Material | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | 95 | 5 |
| | | Cellulose | |

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3640991 | Description / Location: Lt. Grey Rubber Non Fibrous | | |
| Client No.: 03 | Expansion Material | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | 100 |
| | | | |

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3640992 | Description / Location: Lt. Grey Rubber Non Fibrous | | |
| Client No.: 04 | Expansion Material | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | 100 |
| | | | |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Approved By:

Date: 6/12/2009

Frank E. Ehrenfeld, III
Laboratory Director



**International Asbestos
Testing Laboratories**

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/12/2009
Project: CUY-90-1490 L+R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

| | | | |
|-------------------------|--|--|-------------|
| Lab No.: 3640993 | Description / Location: Brown Fibrous | | |
| Client No.: 05 | Expansion Material | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> |
| None Detected | None Detected | 95 | Cellulose |
| | | | 5 |

| | | | |
|-------------------------|--|--|-------------|
| Lab No.: 3640994 | Description / Location: Brown Fibrous | | |
| Client No.: 06 | Expansion Material | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> |
| None Detected | None Detected | 95 | Cellulose |
| | | | 5 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Date: 6/12/2009

International Asbestos Testing Laboratories
9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: H2W Environmental Consultants
6105 Halsey Rd.
Mentor, Oh 44060

Project Name: CUY-90-1490 L+R
Project No.: HO 9004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions:

PO# 5162-09

Type:

| Asbestos | | Lead | | Other | |
|-------------------------------------|-------|--------------------------|-------|--------------------------|-------|
| <input type="checkbox"/> | Air | <input type="checkbox"/> | Soil | <input type="checkbox"/> | _____ |
| <input checked="" type="checkbox"/> | Bulk | <input type="checkbox"/> | Dust | <input type="checkbox"/> | Paint |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | Other | <input type="checkbox"/> | Other |

Analysis Method:

| | | | | | |
|--------------------------|-----------------------------------|-------------------------------------|--|--------------------------|------------------------|
| <input type="checkbox"/> | PCM: NIOSH 7400 | <input checked="" type="checkbox"/> | PLM: Bulk Asbestos EPA 600 | <input type="checkbox"/> | TEM: AHERA |
| <input type="checkbox"/> | PCM: OSHA | <input type="checkbox"/> | PLM: Point Counting 198.1 | <input type="checkbox"/> | TEM: NIOSH 7402 |
| <input type="checkbox"/> | PCM: Other _____ | <input type="checkbox"/> | PLM: NOB via 198.1 (PLM only) | <input type="checkbox"/> | TEM: EPA Level II |
| <input type="checkbox"/> | AAS: NIOSH 7082 (Air) | <input type="checkbox"/> | If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements ** | <input type="checkbox"/> | TEM: Microvac / Wipe |
| <input type="checkbox"/> | AAS: Lead in Drinking Water | <input type="checkbox"/> | (**call to confirm TAT!) | <input type="checkbox"/> | TEM: Asbestos in Water |
| <input type="checkbox"/> | AAS: Lead in Paint ASTM D3335-85a | | | <input type="checkbox"/> | TEM: Bulk Analysis |
| <input type="checkbox"/> | AAS: Lead Dust/Wipe | | | <input type="checkbox"/> | TEM: NOB 198.4 |
| <input type="checkbox"/> | AAS: Other Metals / Soil | | | <input type="checkbox"/> | TEM: Other _____ |
| | | | | <input type="checkbox"/> | Total Dust: NIOSH 0500 |

Turnaround Time:

FAX: _____ Verbal: _____
date / time date / time

10 Day 5 Day 3 Day 2 Day 1 Day 6 hour RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 01 - 06 IATL #(s): _____ Total: _____
(start) (end) (start) (end)

Chain of Custody:

| | |
|----------------------|--------------------------------------|
| Relinquished: _____ | Date: <u>6-11-09</u> Time: _____ |
| Received: _____ | Date: _____ Time: _____ |
| Sample Log-in: _____ | Date: _____ Time: _____ |
| Sample Prep: _____ | Date: <u>JUN 12 2009</u> Time: _____ |
| Analyzed: _____ | Date: _____ Time: _____ |
| QA/QC Review: _____ | Date: _____ Time: _____ |

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

1 of 2

International Asbestos Testing Laboratories
 16000 Horizon Way, Unit 100
 Mt. Laurel, NJ 08054

Tel 856 231-9449
 Fax 856 231-9818
 info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor OH 44060
 Phone: 440-357-1860
 FAX: 440-357-1510

Project Name: CUY-90-1490 L/R
 Project No.: HO 9004-07
 Contact: Jean Sablar
 Analysis: Bulk PCM

Special Instructions: _____

| Sample # | Sample ID | Color | Form | Description | Notes |
|----------|-----------|-------|------|------------------------------|-------|
| 01 | 1640989 | | | Expansion Material - Fibrous | |
| 02 | 1640990 | | | | |
| 03 | 1640991 | | | Expansion Material - Rubbery | |
| 04 | 1640992 | | | | |
| 05 | 1640993 | | | Expansion Material - Fibrous | |
| 06 | 1640994 | | | | |
| | | | | | |
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| | | |
|----------------------|----------------------|-------------------|
| Relinquished: _____ | Date: <u>6-11-09</u> | Time: <u>4 pm</u> |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: _____ | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: _____ | Time: _____ |
| Analyzed: _____ | Date: _____ | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1506
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

| | | | | |
|-------------------------|--|--|---------------|-------------------------------|
| Lab No.: 3628392 | Description / Location: Grey Gasket | | | |
| Client No.: 01 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | None Detected | 100 |

| | | | | |
|-------------------------|--|--|---------------|-------------------------------|
| Lab No.: 3628393 | Description / Location: Grey Gasket | | | |
| Client No.: 02 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | None Detected | 100 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government.
This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Faulseit

Approved By:

Date: 6/3/2009

Frank E. Ehrenfeld, III
Laboratory Director

International Asbestos Testing Laboratories
9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: H2W Environmental Consultants
6105 Halsey Rd.
Mentor, Oh. 44060
Project Name: CUY-90-1506
Project No.: H09004-07
Phone: 440-357-1260
FAX: 440-357-1510
Contact: Joan Sablar
Pager: PO# 5149-00
Special Instructions: _____

Type:

| Asbestos | | Lead | | Other | |
|-------------------------------------|-------|--------------------------|-------|--------------------------|-------|
| <input type="checkbox"/> | Air | <input type="checkbox"/> | Soil | <input type="checkbox"/> | _____ |
| <input checked="" type="checkbox"/> | Bulk | <input type="checkbox"/> | Dust | <input type="checkbox"/> | Paint |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | Other | <input type="checkbox"/> | Other |

Analysis Method:

| | | | | | |
|--------------------------|-----------------------------------|-------------------------------------|---------------------------------|--------------------------|------------------------|
| <input type="checkbox"/> | PCM: NIOSH 7400 | <input checked="" type="checkbox"/> | PLM: Bulk Asbestos EPA 600 | <input type="checkbox"/> | TEM: AHERA |
| <input type="checkbox"/> | PCM: OSHA | <input type="checkbox"/> | PLM: Point Counting 198.1 | <input type="checkbox"/> | TEM: NIOSH 7402 |
| <input type="checkbox"/> | PCM: Other _____ | <input type="checkbox"/> | PLM: NOB via 198.1 (PLM only) | <input type="checkbox"/> | TEM: EPA Level II |
| <input type="checkbox"/> | AAS: NIOSH 7082 (Air) | <input type="checkbox"/> | If <1% by PLM, to TEM via 198.4 | <input type="checkbox"/> | TEM: Microvac / Wipe |
| <input type="checkbox"/> | AAS: Lead in Drinking Water | <input type="checkbox"/> | to meet NYSDOH requirements (** | <input type="checkbox"/> | TEM: Asbestos in Water |
| <input type="checkbox"/> | AAS: Lead in Paint ASTM D3335-85a | <input type="checkbox"/> | (**call to confirm TAT!) | <input type="checkbox"/> | TEM: Bulk Analysis |
| <input type="checkbox"/> | AAS: Lead Dust/Wipe | <input type="checkbox"/> | | <input type="checkbox"/> | TEM: NOB 198.4 |
| <input type="checkbox"/> | AAS: Other Metals / Soil | <input type="checkbox"/> | | <input type="checkbox"/> | TEM: Other _____ |
| | | <input type="checkbox"/> | | <input type="checkbox"/> | Total Dust: NIOSH 0500 |

Turnaround Time:

FAX: _____ Verbal: _____
date / time date / time

10 Day 5 Day 3 Day 2 Day 1 Day 6 hour RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 01 - 02 IATL #(s): _____ Total: _____
(start) (end) (start) (end)

Chain of Custody:

Relinquished: _____
Received: _____
Sample Log-in: at 6/1
Sample Prep: _____
Analyzed: _____
QA/QC Review: _____

Date: 5-27-09 Time: _____
Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

6/1/09

19/2

International Asbestos Testing Laboratories
 16000 Horizon Way, Unit 100
 Mt. Laurel, NJ 08054

Tel 856 231-9449
 Fax 856 231-9818
 info@iat.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor OH 44060
 Phone: 440-357-1860
 FAX: 440-357-1510

Project Name: CUY-90-1506
 Project No.: H09004-07
 Contact: John Sablar
 Analysis: Bulk PLM

Special Instructions: _____

| Sample ID | Sample No. | Can | Lot | Material | Notes |
|-----------|------------|-----|-----|-----------------|-------|
| 01 | 3628392 | | | Gasket Material | |
| 02 | 3628393 | | | | |
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B
 6/2/09

| | | |
|----------------------|----------------------|------------------|
| Relinquished: _____ | Date: <u>5-29-09</u> | Time: <u>4pm</u> |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: _____ | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: _____ | Time: _____ |
| Analyzed: _____ | Date: _____ | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1524
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628455 **Description / Location:** Grey Caulk
Client No.: 01

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3628456 **Description / Location:** Grey Caulk
Client No.: 02

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3628457 **Description / Location:** Grey Caulk
Client No.: 03

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3628458 **Description / Location:** Grey Caulk
Client No.: 04

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government
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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulseit

Approved By: _____

Date: 6/3/2009

Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1524
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628459 **Description / Location:** White/Brown Non Fibrous

Client No.: 05

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3628460 **Description / Location:** White/Brown Non Fibrous

Client No.: 06

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3628461 **Description / Location:** Brown Transite

Client No.: 07

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|-------------|--|---------------|-------------------------------|
| 30 | Chrysotile | None Detected | None Detected | PC 67.5 |
| 2.5 | Crocidolite | | | |

Lab No.: 3628462 **Description / Location:** Brown Transite

Client No.: 08

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|-------------|--|---------------|-------------------------------|
| 40 | Chrysotile | None Detected | None Detected | PC 58.5 |
| 1.5 | Crocidolite | | | |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulseit

Date: 6/3/2009



**International Asbestos
Testing Laboratories**

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1524
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628463 **Description / Location:** Brown Tar Paper
Client No.: 09

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|-------------|-------------------------------|
| None Detected | None Detected | 50 | Cellulose | 50 |

Lab No.: 3628464 **Description / Location:** Brown Tar Paper
Client No.: 10

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|-------------|-------------------------------|
| None Detected | None Detected | 50 | Cellulose | 50 |

Lab No.: 3628465 **Description / Location:** Tan Transite
Client No.: 11

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|-------------|--|---------------|-------------------------------|
| 40 | Chrysotile | None Detected | None Detected | PC 56.9 |
| 3.1 | Crocidolite | | | |

Lab No.: 3628466 **Description / Location:** Tan Transite
Client No.: 12

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|-------------|--|---------------|-------------------------------|
| 40 | Chrysotile | None Detected | None Detected | PC 57.5 |
| 2.5 | Crocidolite | | | |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulscit

Date: 6/3/2009

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1524
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628467 **Description / Location:** Brown Tar Paper

Client No.: 13

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|-------------|-------------------------------|
| None Detected | None Detected | 50 | Cellulose | 50 |

Lab No.: 3628468 **Description / Location:** Brown Tar Paper

Client No.: 14

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|-------------|-------------------------------|
| None Detected | None Detected | 50 | Cellulose | 50 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulseit

Date: 6/3/2009

International Asbestos Testing Laboratories

9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

Chain of Custody -

Client: H2W Environmental Consultants
6105 Holey Rd.
Mentor, OH 44060

Project Name: CUY-90-1524
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions:

PO# 5149-09

Type:

| Asbestos | | | Lead | | | Other | | |
|-------------------------------------|-------|--------------------------|--------------------------|-------|--------------------------|--------------------------|-------|--|
| <input type="checkbox"/> | Air | <input type="checkbox"/> | <input type="checkbox"/> | Soil | <input type="checkbox"/> | <input type="checkbox"/> | Soil | |
| <input checked="" type="checkbox"/> | Bulk | <input type="checkbox"/> | <input type="checkbox"/> | Dust | <input type="checkbox"/> | <input type="checkbox"/> | Paint | |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | <input type="checkbox"/> | Other | <input type="checkbox"/> | <input type="checkbox"/> | Other | |

Analysis Method:

| | | | | | |
|--------------------------|------------------------------------|-------------------------------------|---------------------------------|--------------------------|-------------------------|
| <input type="checkbox"/> | PCM : NIOSH 7400 | <input checked="" type="checkbox"/> | PLM : Bulk Asbestos EPA 600 | <input type="checkbox"/> | TEM : AHERA |
| <input type="checkbox"/> | PCM : OSHA | <input type="checkbox"/> | PLM : Point Counting 198.1 | <input type="checkbox"/> | TEM : NIOSH 7402 |
| <input type="checkbox"/> | PCM : Other _____ | <input type="checkbox"/> | PLM : NOB via 198.1 (PLM only) | <input type="checkbox"/> | TEM : EPA Level II |
| <input type="checkbox"/> | AAS : NIOSH 7082 (Air) | <input type="checkbox"/> | If <1% by PLM, to TEM via 198.4 | <input type="checkbox"/> | TEM : Microvac / Wipe |
| <input type="checkbox"/> | AAS : Lead in Drinking Water | <input type="checkbox"/> | to meet NYSDOH requirements ** | <input type="checkbox"/> | TEM : Asbestos in Water |
| <input type="checkbox"/> | AAS : Lead in Paint ASTM D3335-85a | <input type="checkbox"/> | (**call to confirm TAT!) | <input type="checkbox"/> | TEM : Bulk Analysis |
| <input type="checkbox"/> | AAS : Lead Dust/Wipe | <input type="checkbox"/> | | <input type="checkbox"/> | TEM : NOB 198.4 |
| <input type="checkbox"/> | AAS : Other Metals / Soil _____ | <input type="checkbox"/> | | <input type="checkbox"/> | TEM : Other _____ |
| | | <input type="checkbox"/> | | <input type="checkbox"/> | Total Dust : NIOSH 0500 |

Turnaround

Time:

FAX: _____ Verbal: _____

date / time

date / time

10 Day 5 Day 3 Day 2 Day 1 Day 6 hour RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample

Numbers:

Client #(s): 01 14
(start) (end)

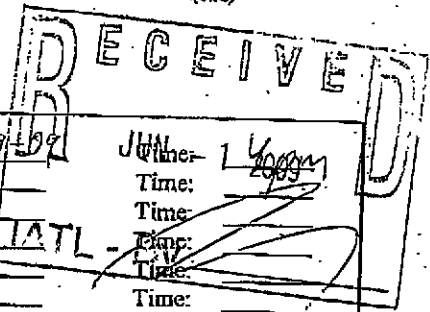
IATL #(s): _____ Total: _____
(start) (end)

Chain of

Custody:

| | | | | | |
|----------------|--------------------|-------|----------------|-------|---------------|
| Relinquished: | <u>[Signature]</u> | Date: | <u>5-29-09</u> | Time: | <u>1400pm</u> |
| Received: | <u>[Signature]</u> | Date: | | Time: | |
| Sample Log-in: | <u>AS 6/1</u> | Date: | | Time: | |
| Sample Prep: | | Date: | | Time: | |
| Analyzed: | | Date: | | Time: | |
| QA/QC Review: | | Date: | | Time: | |

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____



1 of 3

International Asbestos Testing Laboratories
 16000 Horizon Way, Unit 100
 Mt. Laurel, NJ 08054

Tel 856 231-9449
 Fax 856 231-9818
 info@iatd.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Hartsley Rd
Mentor, OH 44060

Project Name: C44-90-1924
 Project No.: HO9004-07

Phone: 440-357-1860
 FAX: 440-357-1910

Contact: Joan Sablar
 Analysis: Bulk PCM

Special Instructions: _____

| Consultation Sample | Lab Sample | Chain ID | Lot | Description | Photo | Notes |
|---------------------|------------|----------|-----|------------------------|-------|-------|
| 01 | 3628455 | | | Epoxy Material | | |
| 02 | 3628456 | | | " | | |
| 03 | 3628457 | | | Epoxy material | | |
| 04 | 3628458 | | | " | | |
| 05 | 3628459 | | | Gasket Material | | |
| 06 | 3628460 | | | " | | |
| 07 | 3628461 | | | Conduit material | | |
| 08 | 3628462 | | | " | | |
| 09 | 3628463 | | | Tar Cellulose Material | | |
| 10 | 3628464 | | | " | | |

| | | |
|----------------------|----------------------|-------------------|
| Relinquished: _____ | Date: <u>5-29-09</u> | Time: <u>4 pm</u> |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: _____ | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: _____ | Time: _____ |
| Analyzed: _____ | Date: _____ | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |

Handwritten: 12 6/3/09

International Asbestos Testing Laboratories
 16000 Horizon Way, Unit 100
 Mt. Laurel, NJ 08054

Tel 856 231-9449
 Fax 856 211-9818
 info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060

Project Name: CUY-90-1524
 Project No.: H09004-07

Phone: 440-357-1960
 FAX: 440-357-1970

Contact: Jean Sablar
 Analysis: Bulk PLM

Special Instructions: _____

| Sample No. | Sample ID | Date | Time | Description | Initials |
|------------|-----------|------|------|------------------|----------|
| 11 | 3628465 | | | Conduit Material | |
| 12 | 3628466 | | | 11 | |
| 13 | 3628467 | | | Gasket Material | |
| 14 | 3628468 | | | 11 | |
| | | | | | |
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|-------------------------------|----------------------|-------------------|
| Relinquished: _____ <i>JS</i> | Date: <u>5-29-09</u> | Time: <u>4 pm</u> |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: _____ | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: _____ | Time: _____ |
| Analyzed: _____ | Date: _____ | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |



**International Asbestos
Testing Laboratories**

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628EW
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

| | | | | |
|-------------------------|--|--|---------------|-------------------------------|
| Lab No.: 3628432 | Description / Location: Tan Caulk | | | |
| Client No.: 01 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | None Detected | 100 |

| | | | | |
|-------------------------|--|--|---------------|-------------------------------|
| Lab No.: 3628433 | Description / Location: Tan Caulk | | | |
| Client No.: 02 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | None Detected | 100 |

| | | | | |
|-------------------------|--|--|-------------|-------------------------------|
| Lab No.: 3628434 | Description / Location: Brown Tar Paper | | | |
| Client No.: 03 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | 40 | Cellulose | 60 |

| | | | | |
|-------------------------|--|--|-------------|-------------------------------|
| Lab No.: 3628435 | Description / Location: Brown Tar Paper | | | |
| Client No.: 04 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | 40 | Cellulose | 60 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government
This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulseit

Approved By: _____

Date: 6/3/2009

Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628EW
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

| | | | | |
|-------------------------|---|--|---------------|-------------------------------|
| Lab No.: 3628436 | Description / Location: Tan Gasket | | | |
| Client No.: 05 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | None Detected | 100 |

| | | | | |
|-------------------------|---|--|---------------|-------------------------------|
| Lab No.: 3628437 | Description / Location: Tan Gasket | | | |
| Client No.: 06 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | None Detected | 100 |

| | | | | |
|-------------------------|--|--|-------------|-------------------------------|
| Lab No.: 3628438 | Description / Location: Grey Gasket | | | |
| Client No.: 07 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| PC 2.1 | Chrysotile | 3 | Other | PC 94.9 |

| | | | | |
|-------------------------|--|--|-------------|-------------------------------|
| Lab No.: 3628439 | Description / Location: Grey Gasket | | | |
| Client No.: 08 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| PC 2.5 | Chrysotile | 3 | Other | PC 94.5 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

Comments: (PC) indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulseit

Date: 6/3/2009

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628EW
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628440 **Description / Location:** Tan Gasket
Client No.: 08

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3628441 **Description / Location:** Tan Gasket
Client No.: 10

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government
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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulseit

Date: 6/3/2009

International Asbestos Testing Laboratories
9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: H2W Environmental Consultants Project Name: CUY-90-1628EW
6105 Halsey Rd. Project No.: HO 9004-07
Mentor, Oh 44060

Phone: 440-357-1260 Contact: Joan Sablar
 FAX: 440-357-1510 Pager: _____

Special Instructions: PO# 5149-09

Type:

| Asbestos | | Lead | | Other | |
|-------------------------------------|-------|--------------------------|-------|--------------------------|-------|
| <input type="checkbox"/> | Air | <input type="checkbox"/> | Air | <input type="checkbox"/> | Soil |
| <input checked="" type="checkbox"/> | Bulk | <input type="checkbox"/> | Bulk | <input type="checkbox"/> | Paint |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | Water | <input type="checkbox"/> | Other |
| <input type="checkbox"/> | Soil | <input type="checkbox"/> | Dust | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | Other | <input type="checkbox"/> | Other | <input type="checkbox"/> | _____ |

Analysis Method:

| | | | | | |
|--------------------------|-----------------------------------|-------------------------------------|----------------------------------|--------------------------|------------------------|
| <input type="checkbox"/> | PCM: NIOSH 7400 | <input checked="" type="checkbox"/> | PLM: Bulk Asbestos EPA 600 | <input type="checkbox"/> | TEM: AHBR |
| <input type="checkbox"/> | PCM: OSHA | <input type="checkbox"/> | PLM: Point Counting 198.1 | <input type="checkbox"/> | TEM: NIOSH 7402 |
| <input type="checkbox"/> | PCM: Other _____ | <input type="checkbox"/> | PLM: NOB via 198.1 (PLM only) | <input type="checkbox"/> | TEM: EPA Level-II |
| <input type="checkbox"/> | AAS: NIOSH 7082 (Air) | <input type="checkbox"/> | If < 1% by PLM, to TEM via 198.4 | <input type="checkbox"/> | TEM: Microvac / Wipe |
| <input type="checkbox"/> | AAS: Lead in Drinking Water | <input type="checkbox"/> | to meet NYSDOH requirements ** | <input type="checkbox"/> | TEM: Asbestos in Water |
| <input type="checkbox"/> | AAS: Lead in Paint ASTM D3335-85a | <input type="checkbox"/> | (**call to confirm TAT!) | <input type="checkbox"/> | TEM: Bulk Analysis |
| <input type="checkbox"/> | AAS: Lead Dust/Wipe | <input type="checkbox"/> | | <input type="checkbox"/> | TEM: NOB 198.4 |
| <input type="checkbox"/> | AAS: Other Metals / Soil | <input type="checkbox"/> | | <input type="checkbox"/> | TEM: Other _____ |
| | | <input type="checkbox"/> | | <input type="checkbox"/> | Total Dust: NIOSH 0500 |

Turnaround Time:

FAX: _____ Verbal: _____
date / time date / time

10 Day 5 Day 3 Day 2 Day 1 Day 6 hour RUSH

Preliminary FAX/Verbal Results Requested by: _____

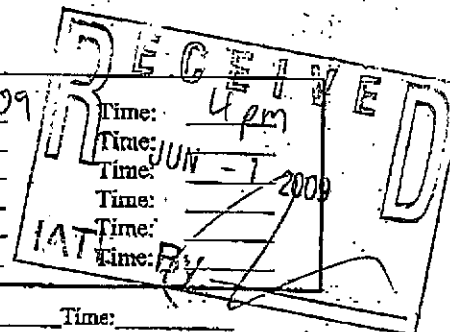
Sample Numbers:

Client #(s): 01 10 IATL #(s): _____ Total: _____
(start) (end) (start) (end)

Chain of Custody:

Relinquished: _____
 Received: _____
 Sample Log-in: at 6/1
 Sample Prep: _____
 Analyzed: _____
 QA/QC Review: _____

Date: 5-29-09
 Date: _____
 Date: _____
 Date: _____
 Date: _____
 Date: _____



Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

International Asbestos Testing Laboratories
 1600 Horizon Way, Unit 100
 Mt. Laurel, NJ 08054

Tel 856 231-9449
 Fax 856 231-9818
 info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heasley Rd
Mentor OH 44060
 Phone: 440-357-1910
 FAX: 440-357-1910

Project Name: CUY-90-1628EW
 Project No.: HO 9004-07
 Contact: Jean Sablar
 Analysis: BULK PLM

Special Instructions: _____

| Sample ID | Sample | Container | Matrix | Location | Depth | Notes |
|-----------|---------|-----------|--------|------------------------|-------|-------|
| 01 | 3628432 | | | Epoxy material | | |
| 02 | 3628433 | | | | | |
| 03 | 3628434 | | | Tar-Cellulose material | | |
| 04 | 3628435 | | | | | |
| 05 | 3628436 | | | Gasket Material | | |
| 06 | 3628437 | | | | | |
| 07 | 3628438 | | | Gasket material | | |
| 08 | 3628439 | | | | | |
| 09 | 3628440 | | | Thick Gasket material | | |
| 10 | 3628441 | | | | | |

| | | |
|----------------------|----------------------|-------------------|
| Relinquished: _____ | Date: <u>5-29-09</u> | Time: <u>4 pm</u> |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: _____ | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: _____ | Time: _____ |
| Analyzed: _____ | Date: _____ | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628L
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628415 **Description / Location:** Tan Non Fibrous
Client No.: 01

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3628416 **Description / Location:** Tan Non Fibrous
Client No.: 02

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3628417 **Description / Location:** Black Tar Paper
Client No.: 03

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|-------------|-------------------------------|
| None Detected | None Detected | 50 | Cellulose | 50 |

Lab No.: 3628418 **Description / Location:** Black Tar Paper
Client No.: 04

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|-------------|-------------------------------|
| None Detected | None Detected | 50 | Cellulose | 50 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulseit

Approved By: _____

Date: 6/3/2009

Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628L
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3628419 Description / Location: Tan Gasket
Client No.: 05

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|-------------|--|-------------|-------------------------------|
| PC 2.1 | Chrysotile | 2 | Other | PC 95.9 |

Lab No.: 3628420 Description / Location: Tan Gasket
Client No.: 06

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3628421 Description / Location: Tan Gasket
Client No.: 07

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3628422 Description / Location: Tan Gasket
Client No.: 08

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification of <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Time) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulseit

Date: 6/3/2009

International Asbestos Testing Laboratories

9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449

Fax 856 231-9818

- Chain of Custody -

Client: H2W Environmental Consultants
6105 Hasky Rd.
Mentor, OH 44060

Project Name: CUY90-1628 L
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager: _____

Special Instructions: _____

PO# 5149-09

Type:

| Asbestos | | Lead | | Other | |
|-------------------------------------|-------|--------------------------|-------|--------------------------|-------|
| <input type="checkbox"/> | Air | <input type="checkbox"/> | Soil | <input type="checkbox"/> | _____ |
| <input checked="" type="checkbox"/> | Bulk | <input type="checkbox"/> | Dust | <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | Other | <input type="checkbox"/> | _____ |

Analysis Method:

| | | | | | |
|--------------------------|-----------------------------------|-------------------------------------|---------------------------------|--------------------------|------------------------|
| <input type="checkbox"/> | PCM: NIOSH 7400 | <input checked="" type="checkbox"/> | PLM: Bulk Asbestos EPA 600 | <input type="checkbox"/> | TEM: AHERA |
| <input type="checkbox"/> | PCM: OSHA | <input type="checkbox"/> | PLM: Point Counting 198.1 | <input type="checkbox"/> | TEM: NIOSH 7402 |
| <input type="checkbox"/> | PCM: Other _____ | <input type="checkbox"/> | PLM: NOB via 198.1 (PLM only) | <input type="checkbox"/> | TEM: EPA Level II |
| <input type="checkbox"/> | AAS: NIOSH 7082 (Air) | <input type="checkbox"/> | If <1% by PLM, to TEM via 198.4 | <input type="checkbox"/> | TEM: Microvac / Wipe |
| <input type="checkbox"/> | AAS: Lead in Drinking Water | to meet NYSDOH requirements ** | | <input type="checkbox"/> | TEM: Asbestos in Water |
| <input type="checkbox"/> | AAS: Lead in Paint ASTM D3335-35a | (**call to confirm TATI) | | <input type="checkbox"/> | TEM: Bulk Analysis |
| <input type="checkbox"/> | AAS: Lead Dust/Wipes | <input type="checkbox"/> | _____ | <input type="checkbox"/> | TEM: NOB 198.4 |
| <input type="checkbox"/> | AAS: Other Metals / Soil _____ | <input type="checkbox"/> | _____ | <input type="checkbox"/> | TEM: Other _____ |
| | | <input type="checkbox"/> | _____ | <input type="checkbox"/> | Total Dust: NIOSH 0500 |

Turnaround Time:

FAX: _____ Verbals: _____
date / time date / time

10 Day 5 Day 3 Day 2 Day 1 Day 6 hour RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 01 - 08 IATL #(s): _____ Total: 19
(start) (end) (start) (end)

Chain of Custody:

| | | |
|------------------------------|----------------------|----------------|
| Relinquished: _____ | Date: <u>5-28-09</u> | Time: <u>4</u> |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: <u>ad 6/1</u> | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: _____ | Time: _____ |
| Analyzed: _____ | Date: _____ | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

IATL - By [Signature]

International Asbestos Testing Laboratories
 16000 Horizon Way, Unit 100
 Mt Laurel, NJ 08054

Tel 856 231-9449
 Fax 856 231-9818
 info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heasley Rd
Mentor, OH 44060

Project Name: CUY-90-16284
 Project No.: H09004-07

Phone: 440-357-1860
 FAX: 440-357-1510

Contact: Jean Sablar
 Analysis: Bulk PCM

Special Instructions: _____

| Sample ID | Sample No. | Location | Material | Notes |
|-----------|------------|----------|------------------------|-------------|
| 01 | 3628415 | | Epoxy Material | |
| 02 | 3628416 | | " | |
| 03 | 3628417 | | Tar cellulose material | |
| 04 | 3628418 | | " | |
| 05 | 3628419 | | Gasket Material | |
| 06 | 3628420 | | " | |
| 07 | 3628421 | | Gasket material | |
| 08 | 3628422 | | " | |
| | | | | b 1/3/09 |

| | | | | | |
|----------------|-----------|-------|----------------|-------|------------|
| Relinquished: | <u>ju</u> | Date: | <u>5-29-09</u> | Time: | <u>4pm</u> |
| Received: | | Date: | | Time: | |
| Sample Log-in: | | Date: | | Time: | |
| Sample Prep: | | Date: | | Time: | |
| Analyzed: | | Date: | | Time: | |
| QA/QC Review: | | Date: | | Time: | |



**International Asbestos
Testing Laboratories**

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

| | | | | |
|-------------------|---------------|--|-----------------|-------------------------------|
| Lab No.: | 3628407 | Description / Location: | Tan Non Fibrous | |
| Client No.: | 01 | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | None Detected | 100 |

| | | | | |
|-------------------|---------------|--|-----------------|-------------------------------|
| Lab No.: | 3628408 | Description / Location: | Tan Non Fibrous | |
| Client No.: | 02 | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | None Detected | 100 |

| | | | | |
|-------------------|---------------|--|-----------------|-------------------------------|
| Lab No.: | 3628409 | Description / Location: | Brown Tar Paper | |
| Client No.: | 03 | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | 50 | Cellulose | 50 |

| | | | | |
|-------------------|---------------|--|-----------------|-------------------------------|
| Lab No.: | 3628410 | Description / Location: | Brown Tar Paper | |
| Client No.: | 04 | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | 50 | Cellulose | 50 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government
This report shall not be reproduced except in full, without written approval of the laboratory.*

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulscit

Approved By: _____

Date: 6/3/2009

Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/4/2009
Project: CUY-90-1628R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

| | | | | |
|-------------------|--------------------------------------|--|---------------|-------------------------------|
| Lab No.: 3628411 | Description / Location: Brown Gasket | | | |
| Client No.: 05 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | None Detected | 100 |

| | | | | |
|-------------------|--------------------------------------|--|---------------|-------------------------------|
| Lab No.: 3628412 | Description / Location: Brown Gasket | | | |
| Client No.: 06 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | None Detected | 100 |

| | | | | |
|-------------------|-------------------------------------|--|-------------|-------------------------------|
| Lab No.: 3628413 | Description / Location: Grey Gasket | | | |
| Client No.: 07 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| PC 2.5 | Chrysotile | 3 | Other | PC 94.5 |

| | | | | |
|-------------------|-------------------------------------|--|-------------|-------------------------------|
| Lab No.: 3628414 | Description / Location: Grey Gasket | | | |
| Client No.: 08 | | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| PC 2.1 | Chrysotile | 3 | Other | PC 94.9 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

Comments: (PC) indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Faulseit

Date: 6/3/2009

International Asbestos Testing Laboratories

9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449

Fax 856 231-9818

- Chain of Custody -

Client: HZW Environmental Consultants
6105 Hakey Rd.
Mentor, Oh 44060

Project Name: CUY-90-1628R
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions:

PO# 5149-09

Type:

| Asbestos | | Lead | | Other | |
|-------------------------------------|-------|--------------------------|-------|--------------------------|-------|
| <input type="checkbox"/> | Air | <input type="checkbox"/> | Soil | <input type="checkbox"/> | Soil |
| <input checked="" type="checkbox"/> | Bulk | <input type="checkbox"/> | Dust | <input type="checkbox"/> | Paint |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | Other | <input type="checkbox"/> | Other |

Analysis Method:

| | | | | | |
|--------------------------|-----------------------------------|-------------------------------------|---------------------------------|--------------------------|------------------------|
| <input type="checkbox"/> | PCM: NIOSH 7400 | <input checked="" type="checkbox"/> | PLM: Bulk Asbestos EPA 600 | <input type="checkbox"/> | TEM: AHERA |
| <input type="checkbox"/> | PCM: OSHA | <input type="checkbox"/> | PLM: Point Counting 198.1 | <input type="checkbox"/> | TEM: NIOSH 7402 |
| <input type="checkbox"/> | PCM: Other _____ | <input type="checkbox"/> | PLM: NOB via 198.1 (PLM only) | <input type="checkbox"/> | TEM: EPA Level II |
| <input type="checkbox"/> | AAS: NIOSH 7082 (Air) | <input type="checkbox"/> | If <1% by PLM, to TEM via 198.4 | <input type="checkbox"/> | TEM: Microvac/Wipe |
| <input type="checkbox"/> | AAS: Lead in Drinking Water | to meet NYSDOH requirements ** | | <input type="checkbox"/> | TEM: Asbestos in Water |
| <input type="checkbox"/> | AAS: Lead in Paint ASTM D3335-85a | (**call to confirm TAT!) | | <input type="checkbox"/> | TEM: Bulk Analysis |
| <input type="checkbox"/> | AAS: Lead Dust/Wipe | <input type="checkbox"/> | TEM: NOB 198.4 | <input type="checkbox"/> | TEM: Other _____ |
| <input type="checkbox"/> | AAS: Other Metals / Soil | <input type="checkbox"/> | Total Dust: NIOSH 0500 | | |

Turnaround Time:

FAX: _____ Verbal: _____
date / time date / time

10 Day 5 Day 3 Day 2 Day 1 Day 6 hour RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 01 08 IATL #(s): _____ Total: 13
(start) (end) (start) (end)

Chain of Custody:

| | | |
|------------------------------|----------------------|------------------|
| Relinquished: _____ | Date: <u>5-29-09</u> | Time: <u>4pm</u> |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: <u>08 6/1</u> | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: _____ | Time: _____ |
| Analyzed: _____ | Date: _____ | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

RECEIVED

JUN 1 2009

International Asbestos Testing Laboratories
 16000 Horizon Way, Unit 100
 Mt. Laurel, NJ 08054

Tel 856 231-9449
 Fax 856 231-9818
 info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060

Project Name: CUY-90-1628R
 Project No.: H09004-07

Phone: 440-357-1860
 FAX: 440-357-1910

Contact: Jean Sablar
 Analysis: Bulk PCM

Special Instructions: _____

| Sample # | Sample ID | Calib | Lot # | Material | Notes |
|----------|-----------|-------|-------|------------------------|-------|
| 01 | 3628407 | | | Epoxy Material | |
| 02 | 3628408 | | | | |
| 03 | 3628409 | | | Tar Cellulose Material | |
| 04 | 3628410 | | | | |
| 05 | 3628411 | | | Gasket Material | |
| 06 | 3628412 | | | | |
| 07 | 3628413 | | | Gasket Material | |
| 08 | 3628414 | | | | |
| | | | | | |
| | | | | | |

6/17/09

| | | |
|----------------------|----------------------|-------------------|
| Relinquished: _____ | Date: <u>5-29-09</u> | Time: <u>4 pm</u> |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: _____ | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: _____ | Time: _____ |
| Analyzed: _____ | Date: _____ | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
 6105 Heisley Rd.
 Mentor OH 44060

Report Date: 6/2/2009
Project: CUY-90-1640
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3625285 **Description / Location:** Tan Non Fibrous
Client No.: 01

| % Asbestos | Type | % Non-Asbestos Fibrous Material | Type | % Non-Fibrous Material |
|---------------|---------------|---------------------------------|---------------|------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3625286 **Description / Location:** Tan Non Fibrous
Client No.: 02

| % Asbestos | Type | % Non-Asbestos Fibrous Material | Type | % Non-Fibrous Material |
|---------------|---------------|---------------------------------|---------------|------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3625287 **Description / Location:** Black/Grey Fibrous
Client No.: 03

| % Asbestos | Type | % Non-Asbestos Fibrous Material | Type | % Non-Fibrous Material |
|---------------|---------------|---------------------------------|-----------|------------------------|
| None Detected | None Detected | 30 | Cellulose | 70 |

Lab No.: 3625288 **Description / Location:** Black/Grey Fibrous
Client No.: 04

| % Asbestos | Type | % Non-Asbestos Fibrous Material | Type | % Non-Fibrous Material |
|---------------|---------------|---------------------------------|-----------|------------------------|
| None Detected | None Detected | 30 | Cellulose | 70 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Approved By:

Date: 6/2/2009

Frank E. Ehrenfeld, III
 Laboratory Director

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
 6105 Heisley Rd.
 Mentor OH 44060

Report Date: 6/2/2009
Project: CUY-90-1640
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

| | | | | |
|-------------------------|--|--|---------------|-------------------------------|
| Lab No.: 3625289 | Description / Location: Tan Non Fibrous | | | |
| Client No.: 05 | Expansion Joint | | | |
| % Asbestos | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | None Detected | 100 |

| | | | | |
|-------------------------|--|--|---------------|-------------------------------|
| Lab No.: 3625290 | Description / Location: Tan Non Fibrous | | | |
| Client No.: 06 | Expansion Joint | | | |
| % Asbestos | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
| None Detected | None Detected | None Detected | None Detected | 100 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Date: 6/2/2009

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/12/2009
Project: CUY-90-1640
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3641001 | Description / Location: Grey Gasket | | |
| Client No.: 07 | Under Old Railings | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> |
| PC 3.9 | Chrysotile | None Detected | None Detected |
| | | | <u>% Non-Fibrous Material</u> |
| | | | PC 96.1 |

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3641002 | Description / Location: Grey Gasket | | |
| Client No.: 08 | Under Old Railings | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> |
| PC 3.7 | Chrysotile | None Detected | None Detected |
| | | | <u>% Non-Fibrous Material</u> |
| | | | PC 96.3 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

Comments: (PC) indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: L. Solebello

Approved By: _____

Date: 6/12/2009

Frank E. Ehrenfeld, III
Laboratory Director

International Asbestos Testing Laboratories
9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: H2W Environmental Consultants Project Name: CUY-90-1640
6105 Hasky Rd. Project No.: H09004-07
Mentor, Oh 44060

Phone: 440-357-1260 Contact: Joan Sablar
 FAX: 440-357-1510 Pager: _____
 Special Instructions: PO# 5149-09

Type:

| Asbestos | | Lead | | Other | |
|-------------------------------------|-------|--------------------------|-------|--------------------------|-------|
| <input type="checkbox"/> | Air | <input type="checkbox"/> | Soil | <input type="checkbox"/> | Soil |
| <input checked="" type="checkbox"/> | Bulk | <input type="checkbox"/> | Dust | <input type="checkbox"/> | Paint |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | Other | <input type="checkbox"/> | Other |

Analysis Method:

| | | | | | |
|--------------------------|-----------------------------------|-------------------------------------|---------------------------------|--------------------------|------------------------|
| <input type="checkbox"/> | PCM: NIOSH 7400 | <input checked="" type="checkbox"/> | PLM: Bulk Asbestos EPA 600 | <input type="checkbox"/> | TEM: AHERA |
| <input type="checkbox"/> | PCM: OSHA | <input type="checkbox"/> | PLM: Point Counting 198.1 | <input type="checkbox"/> | TEM: NIOSH 7402 |
| <input type="checkbox"/> | PCM: Other _____ | <input type="checkbox"/> | PLM: NOB via 198.1 (PLM only) | <input type="checkbox"/> | TEM: EPA Level II |
| <input type="checkbox"/> | AAS: NIOSH 7082 (Air) | <input type="checkbox"/> | If <1% by PLM, to TEM via 198.4 | <input type="checkbox"/> | TEM: Microvac/Wipe |
| <input type="checkbox"/> | AAS: Lead in Drinking Water | | to meet NYSDOH requirements** | <input type="checkbox"/> | TEM: Asbestos in Water |
| <input type="checkbox"/> | AAS: Lead in Paint ASTM D3335-85a | | (**call to confirm TAT!) | <input type="checkbox"/> | TEM: Bulk Analysis |
| <input type="checkbox"/> | AAS: Lead Dust/Wipe | | | <input type="checkbox"/> | TEM: NOB 198.4 |
| <input type="checkbox"/> | AAS: Other Metals / Soil _____ | | | <input type="checkbox"/> | TEM: Other _____ |
| | | | | <input type="checkbox"/> | Total Dust: NIOSH 0500 |

Turnaround Time:

FAX: _____ Verbal: _____
date / time date / time

10 Day 5 Day 3 Day 2 Day 1 Day 6 hour RUSH

Preliminary FAX/Verbal Results Requested by: _____

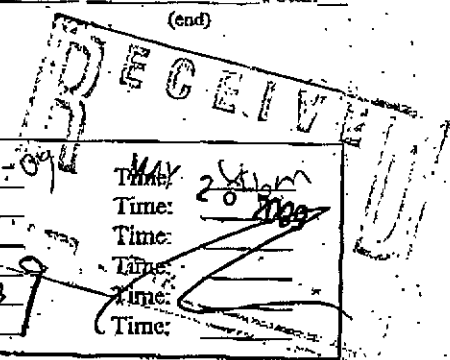
Sample Numbers:

Client #(s): 01 - 06 IATL #(s): _____ Total: _____
 (start) (end) (start) (end)

Chain of Custody:

| | | |
|---------------------------------|----------------------|-------------|
| Relinquished: _____ | Date: <u>5-27-09</u> | Time: _____ |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: <u>11-228789</u> | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: <u>5/25/09</u> | Time: _____ |
| Analyzed: _____ | Date: _____ | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____



1 of 2

International Asbestos Testing Laboratories
 16000 Horizon Way, Unit 100
 Mt. Laurel, NJ 08054

Tel 856 231-9449
 Fax 856 231-9818
 info@iat.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060
 Phone: 440-357-1860
 FAX: 440-357-1910

Project Name: CUY-90-1640
 Project No.: H09004-07
 Contact: Jean Sablar
 Analysis: Bulk PMA

Special Instructions: _____

| Sample ID | Sample No. | Location | Notes |
|-----------|------------|--------------------------|-------|
| 01 | 3625285 | Epoxy Material | |
| 02 | 3625286 | " | |
| 03 | 3625287 | Tar Cellulose material | |
| 04 | 3625288 | " | |
| 05 | 3625289 | Expansion joint material | |
| 06 | 3625290 | " | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | |
|----------------------|----------------------|------------------|
| Relinquished: _____ | Date: <u>5-27-09</u> | Time: <u>4pm</u> |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: _____ | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: _____ | Time: _____ |
| Analyzed: _____ | Date: _____ | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |

International Asbestos Testing Laboratories

Tel. 856 231-9449

9000 Commerce Pkwy., Suite B
Mt. Laurel, New Jersey 08054

Fax 856 231-9818

- Chain of Custody -

Client: HZW Environmental Consultants
6105 Holey Rd.
Mentor, OH 44060

Project Name: CUY-90-1640
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions:

PO# 5162-09

Type:

| Asbestos | | Lead | | Other | |
|-------------------------------------|-------|--------------------------|-------|--------------------------|-------|
| <input type="checkbox"/> | Air | <input type="checkbox"/> | Soil | <input type="checkbox"/> | Soil |
| <input checked="" type="checkbox"/> | Bulk | <input type="checkbox"/> | Dust | <input type="checkbox"/> | Paint |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | Other | <input type="checkbox"/> | Water |

Analysis Method:

| | | | | | |
|--------------------------|-----------------------------------|-------------------------------------|--|--------------------------|------------------------|
| <input type="checkbox"/> | PCM: NIOSH 7400 | <input checked="" type="checkbox"/> | PLM: Bulk Asbestos EPA 600 | <input type="checkbox"/> | TEM: AHERA |
| <input type="checkbox"/> | PCM: OSHA | <input type="checkbox"/> | PLM: Point Counting 198.1 | <input type="checkbox"/> | TEM: NIOSH 7402 |
| <input type="checkbox"/> | PCM: Other _____ | <input type="checkbox"/> | PLM: NOB via 198.1 (PLM only) | <input type="checkbox"/> | TEM: EPA Level II |
| <input type="checkbox"/> | AAS: NIOSH 7082 (Air) | <input type="checkbox"/> | If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements ** (*call to confirm TAT!) | <input type="checkbox"/> | TEM: Microvac / Wipe |
| <input type="checkbox"/> | AAS: Lead in Drinking Water | <input type="checkbox"/> | | <input type="checkbox"/> | TEM: Asbestos in Water |
| <input type="checkbox"/> | AAS: Lead in Paint ASTM D3335-85a | <input type="checkbox"/> | | <input type="checkbox"/> | TEM: Bulk Analysis |
| <input type="checkbox"/> | AAS: Lead Dust/Wipe | <input type="checkbox"/> | | <input type="checkbox"/> | TEM: NOB 198.4 |
| <input type="checkbox"/> | AAS: Other Metals / Soil _____ | <input type="checkbox"/> | | <input type="checkbox"/> | TEM: Other _____ |
| | | | | <input type="checkbox"/> | Total Dust: NIOSH 0300 |

Turnaround Time:

FAX: _____ Verbals: _____

10 Day 5 Day 3 Day 2 Day 1 Day 6 hour RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 07 - 08 IATL #(s): _____ Total: _____
(start) (end) (start) (end)

Chain of Custody:

| | | |
|---------------------------------|--------------------------|------------------|
| Relinquished: _____ | Date: <u>6-11-09</u> | Time: <u>4pm</u> |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: <u>M. Sablar</u> | Date: <u>DEC 11 2009</u> | Time: _____ |
| Sample Prep: _____ | Date: <u>6/12/09</u> | Time: _____ |
| Analyzed: <u>LS</u> | Date: <u>JUN 12 2009</u> | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |

Archived/Released: _____ QA/QC Inter-LAB Use: _____

IATL BY: [Signature]

International Asbestos Testing Laboratories
16000 Horizon Way, Unit 100
Mt. Laurel, NJ 08054

Tel 856 231-9449
Fax 856 231-9818
info@iatl.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor, OH 44060

Project Name: CUY-90-1640
Project No.: H09004-07

Phone: 440-357-1910
FAX: 440-357-1910

Contact: Jan Sablar
Analysis: Bulk PLM

Special Instructions: _____

| Sample No. | Sample ID | Location | Description | Depth | Notes |
|------------|-----------|----------|--------------------|-------|-------|
| 07 | 3641001 | | Gasket Material | | |
| 08 | 3641002 | | under old railings | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Relinquished: _____ Date: 6-11-09 Time: 4 pm
 Received: _____ Date: _____ Time: _____
 Sample Log-in: _____ Date: _____ Time: _____
 Sample Prep: _____ Date: _____ Time: _____
 Analyzed: LS Date: 6/12/09 Time: _____
 QA/QC Review: _____ Date: _____ Time: _____

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
 6105 Heisley Rd.
 Mentor OH 44060

Report Date: 6/2/2009
Project: CUY-90-1651L & R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3625250 **Description / Location:** Tan Non Fibrous
Client No.: 01

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3625251 **Description / Location:** Tan Non Fibrous
Client No.: 02

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|---------------|-------------------------------|
| None Detected | None Detected | None Detected | None Detected | 100 |

Lab No.: 3625252 **Description / Location:** Black Fibrous
Client No.: 03

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|-------------|-------------------------------|
| None Detected | None Detected | 45 | Cellulose | 55 |

Lab No.: 3625253 **Description / Location:** Black Fibrous
Client No.: 04

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|---------------|--|-------------|-------------------------------|
| None Detected | None Detected | 45 | Cellulose | 55 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government. This report shall not be reproduced except in full, without written approval of the laboratory.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Approved By:

Date: 6/2/2009

Frank E. Ehrenfeld, III
 Laboratory Director

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
 6105 Heisley Rd.
 Mentor OH 44060

Report Date: 6/2/2009
Project: CUY-90-1651L & R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3625254 | Description / Location: Tan Non Fibrous | | |
| Client No.: 05 | Expansion Joint | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> |
| None Detected | None Detected | None Detected | None Detected |
| | | | <u>% Non-Fibrous Material</u> |
| | | | 100 |

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3625255 | Description / Location: Tan Non Fibrous | | |
| Client No.: 06 | Expansion Joint | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> |
| None Detected | None Detected | None Detected | None Detected |
| | | | <u>% Non-Fibrous Material</u> |
| | | | 100 |

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3625256 | Description / Location: Black Fibrous | | |
| Client No.: 07 | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> |
| None Detected | None Detected | 45 | Cellulose |
| | | | <u>% Non-Fibrous Material</u> |
| | | | 35 |

| | | | |
|-------------------------|--|--|-------------------------------|
| Lab No.: 3625257 | Description / Location: Black Fibrous | | |
| Client No.: 08 | | | |
| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> |
| None Detected | None Detected | 45 | Cellulose |
| | | | <u>% Non-Fibrous Material</u> |
| | | | 35 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: E. Smith

Date: 6/2/2009

CERTIFICATE OF ANALYSIS

Client: HZW Environmental Consultants
6105 Heisley Rd.
Mentor OH 44060

Report Date: 6/12/2009
Project: CUY-90-1651 L+R
Project No.: H09004-07

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 3641003 **Description / Location:** Tan/Grey Gasket
Client No.: 09 Under Old Railings

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|-------------|--|---------------|-------------------------------|
| PC 3.1 | Chrysotile | None Detected | None Detected | PC 96.9 |

Lab No.: 3641004 **Description / Location:** Grey Gasket
Client No.: 10 Under Old Railings

| <u>% Asbestos</u> | <u>Type</u> | <u>% Non-Asbestos Fibrous Material</u> | <u>Type</u> | <u>% Non-Fibrous Material</u> |
|-------------------|-------------|--|---------------|-------------------------------|
| PC 3.4 | Chrysotile | None Detected | None Detected | PC 96.6 |

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA Lab No. 100188

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: L. Solebello

Approved By:

Date: 6/12/2009

Frank E. Ehrenfeld, III
Laboratory Director

International Asbestos Testing Laboratories
9000 Commerce Pkwy, Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: H2W Environmental Consultants
6105 Halsey Rd.
Mentor, Oh 44060

Project Name: CUY-90-1651 L+R
Project No.: H09004-07

Phone: 440-357-1260
FAX: 440-357-1510

Contact: Joan Sablar
Pager:

Special Instructions: PO# 5/49-09

Type:

| Asbestos | | Lead | | Other | |
|-------------------------------------|-------|--------------------------|-------|--------------------------|-------|
| <input type="checkbox"/> | Air | <input type="checkbox"/> | Soil | <input type="checkbox"/> | Air |
| <input checked="" type="checkbox"/> | Bulk | <input type="checkbox"/> | Dust | <input type="checkbox"/> | Bulk |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | Other | <input type="checkbox"/> | Water |
| | | | | <input type="checkbox"/> | Soil |
| | | | | <input type="checkbox"/> | Paint |
| | | | | <input type="checkbox"/> | Other |

Analysis Method:

| | | | | | |
|--------------------------|-----------------------------------|-------------------------------------|---------------------------------|--------------------------|------------------------|
| <input type="checkbox"/> | PCM: NIOSH 7400 | <input checked="" type="checkbox"/> | PLM: Bulk Asbestos EPA 600 | <input type="checkbox"/> | TEM: AHERA |
| <input type="checkbox"/> | PCM: OSHA | <input type="checkbox"/> | PLM: Point Counting 198.1 | <input type="checkbox"/> | TEM: NIOSH 7402 |
| <input type="checkbox"/> | PCM: Other | <input type="checkbox"/> | PLM: NOB via 198.1 (PLM only) | <input type="checkbox"/> | TEM: EPA Level II |
| <input type="checkbox"/> | AAS: NIOSH 7082 (Air) | <input type="checkbox"/> | If <1% by-PLM, to TEM via 198.4 | <input type="checkbox"/> | TEM: Microvac / Wipe |
| <input type="checkbox"/> | AAS: Lead in Drinking Water | | to meet NYSDOH requirements ** | <input type="checkbox"/> | TEM: Asbestos in Water |
| <input type="checkbox"/> | AAS: Lead in Paint ASTM D3335-85a | | (**call to confirm TAT!) | <input type="checkbox"/> | TEM: Bulk Analysis |
| <input type="checkbox"/> | AAS: Lead Dust/Wipe | | | <input type="checkbox"/> | TEM: NOB 198.4 |
| <input type="checkbox"/> | AAS: Other Metals / Soil | | | <input type="checkbox"/> | TEM: Other |
| | | | | <input type="checkbox"/> | Total Dust: NIOSH 0500 |

Turnaround Time:

FAX: _____ Verbal: _____
date / time date / time

10 Day 5 Day 3 Day 2 Day 1 Day 6 hour RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 01 08 IATL #(s): _____ Total: _____
(start) (end) (start) (end)

Chain of Custody:

| | | |
|---------------------------------|---------------------------|-------------------------|
| Relinquished: _____ | Date: <u>5-27-09</u> | Time: _____ |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: <u>115708109</u> | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: _____ | Time: _____ |
| Analyzed: <u>ES</u> | Date: <u>5/28/09</u> | Time: <u>2:00</u> |
| QA/QC Review: _____ | Date: _____ | Time: _____ |
| Archived/Released: _____ | QA/QC InterLAB Use: _____ | Date: _____ Time: _____ |

International Asbestos Testing Laboratories
 16000 Horizon Way, Unit 100
 Mt Laurel, NJ 08054

Tel 856 231-9449
 Fax 356 231-9818
 info@iad.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heasley Rd
Mentor, OH 44060

Project Name: CUY-90-1651 LTR
 Project No.: H09004-07

Phone: 440-357-1960
 FAX: 440-357-1510

Contact: Jean Sablar
 Analysis: Bulk PCM

Special Instructions: _____

| Consultant Sample | FAIR Sample | Color | SM | Location | Photo | Notes |
|-------------------|-------------|-------|----|--------------------------|-------|-------|
| 01 | 3625250 | | | Epoxy Material | | |
| 02 | 3625251 | | | " | | |
| 03 | 3625252 | | | Tar Cellulose Material | | |
| 04 | 3625253 | | | " | | |
| 05 | 3625254 | | | Expansion joint Material | | |
| 06 | 3625255 | | | " | | |
| 07 | 3625256 | | | Tar Cellulose Material | | |
| 08 | 3625257 | | | " | | |
| | | | | | | |
| | | | | | | |

| | | |
|----------------------|-------------|-------------|
| Relinquished: _____ | Date: _____ | Time: _____ |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: _____ | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: _____ | Time: _____ |
| Analyzed: _____ | Date: _____ | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |

International Asbestos Testing Laboratories
9000 Commerce Pkwy. Suite B
Mt. Laurel, New Jersey 08054

Tel. 856 231-9449
Fax 856 231-9818

- Chain of Custody -

Client: H2W Environmental Consultants Project Name: CUY-90-1691 LTR
6105 Heston Rd. Project No.: H09004-07
Mentor, Oh 44060
Phone: 440-357-1260 Contact: Joan Sablar
FAX: 440-357-1510 Pager:
Special Instructions: PO# 5162-09

Type:

| Asbestos | | Lead | | Other | |
|-------------------------------------|-------|--------------------------|-------|--------------------------|-------|
| <input type="checkbox"/> | Air | <input type="checkbox"/> | Air | <input type="checkbox"/> | Soil |
| <input checked="" type="checkbox"/> | Bulk | <input type="checkbox"/> | Bulk | <input type="checkbox"/> | Paint |
| <input type="checkbox"/> | Water | <input type="checkbox"/> | Water | <input type="checkbox"/> | Other |
| <input type="checkbox"/> | Soil | <input type="checkbox"/> | Soil | <input type="checkbox"/> | Other |
| <input type="checkbox"/> | Dust | <input type="checkbox"/> | Dust | <input type="checkbox"/> | Other |
| <input type="checkbox"/> | Other | <input type="checkbox"/> | Other | <input type="checkbox"/> | Other |

Analysis Method:

| | | | | | |
|--------------------------|-----------------------------------|-------------------------------------|---|--------------------------|------------------------|
| <input type="checkbox"/> | PCM: NIOSH 7400 | <input checked="" type="checkbox"/> | PLM: Bulk Asbestos EPA 600 | <input type="checkbox"/> | TEM: AHERA |
| <input type="checkbox"/> | PCM: OSHA | <input type="checkbox"/> | PLM: Point Counting 198.1 | <input type="checkbox"/> | TEM: NIOSH 7402 |
| <input type="checkbox"/> | PCM: Other | <input type="checkbox"/> | PLM: NOB via 198.1 (PLM only) | <input type="checkbox"/> | TEM: EPA Level II |
| <input type="checkbox"/> | AAS: NIOSH 7082 (Air) | <input type="checkbox"/> | If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements ** (**call to confirm TAT!) | <input type="checkbox"/> | TEM: Microvac / Wipe |
| <input type="checkbox"/> | AAS: Lead in Drinking Water | | | <input type="checkbox"/> | TEM: Asbestos in Water |
| <input type="checkbox"/> | AAS: Lead in Paint ASTM D3335-85a | | | <input type="checkbox"/> | TEM: Bulk Analysis |
| <input type="checkbox"/> | AAS: Lead Dust/Wipe | | | <input type="checkbox"/> | TEM: NOB 198.4 |
| <input type="checkbox"/> | AAS: Other Metals / Soil | | | <input type="checkbox"/> | TEM: Other |
| | | | | <input type="checkbox"/> | Total Dust: NIOSH 0500 |

Turnaround Time:

FAX: _____ Verbal: _____
date / time date / time

10 Day 5 Day 3 Day 2 Day 1 Day 6 hour RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 09 - 10 IATL #(s): _____ Total: _____
(start) (end) (start) (end)

Chain of Custody:

| | | |
|--------------------------|---------------------------|-------------------------|
| Relinquished: _____ | Date: <u>6/11/09</u> | Time: <u>4:30</u> |
| Received: _____ | Date: <u>6/11/09</u> | Time: <u>4:30</u> |
| Sample Log-in: _____ | Date: <u>6/11/09</u> | Time: _____ |
| Sample Prep: _____ | Date: <u>6/11/09</u> | Time: _____ |
| Analyzed: _____ | Date: <u>6/12/09</u> | Time: <u>2009</u> |
| QA/QC Review: _____ | Date: _____ | Time: _____ |
| Archived/Released: _____ | QA/QC InterLAB Use: _____ | Date: _____ Time: _____ |

International Asbestos Testing Laboratories
 16000 Horizon Way, Unit 100
 Mt. Laurel, NJ 08054

Tel 856 231-9449
 Fax 856 231-9818
 info@iat.com

Bulk Material Sampling Log

Client: H2W Environmental Consultants LLC
6105 Heisley Rd
Mentor OH 44060
 Phone: 440-357-1960
 FAX: 440-357-1910

Project Name: CUY-90-1691 LTR
 Project No.: HO 9004-8
 Contact: Jean Sablar
 Analysis: Bulk PLM

Special Instructions: _____

| Sample ID | Sample No. | Color | Type | Location | Date | Notes |
|-----------|------------|-------|------|---------------------------------------|------|-------|
| 09 | 3641003 | | | Gasket Material under old railings | | |
| 10 | 3641004 | | | 11 | | |
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|----------------------|----------------------|------------------|
| Relinquished: _____ | Date: <u>6-11-09</u> | Time: <u>4pm</u> |
| Received: _____ | Date: _____ | Time: _____ |
| Sample Log-in: _____ | Date: _____ | Time: _____ |
| Sample Prep: _____ | Date: _____ | Time: _____ |
| Analyzed: <u>ll</u> | Date: <u>6/12/09</u> | Time: _____ |
| QA/QC Review: _____ | Date: _____ | Time: _____ |