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# Lab/Cor, Inc.

*A Professional Service Corporation in the Northwest*

Tuesday, February 01, 2005

Lab/Cor Report Number: *050013R4*

Howard Edwards
Ecology and Environment, Inc.
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Project Name: QC for Non Priority 041172 Samples
Project Number: 0440.01CP-0001
Client Reference:
Sample Receipt Date: 1/23/2005

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

| Lab/Cor Analysis # | Client Sample # and Description | Analysis Type and Notes |
|---|---|---|
| *Batch #:* ***B4950*** | | |
| S1-A1 | CC2-H8-2CT-100304 Duplicate Analysis of L/C# 041172-55 - Same Grid Openings | ISO 10312, direct |
| S2-A1 | SVBA-H2-4FD-100206 Replicate Analysis of L/C# 041172-77 - Same Grid Openings | ISO 10312, direct |
| S3-A1 | SVBA-H2-4FD-100206 Duplicate Analysis of L/C# 041172-77 - Same Grid Openings | ISO 10312, direct |
| S4-A1 | SVBA-H2-4FD-100207 Duplicate Analysis of L/C# 041172-77 - Reprepped Sample | ISO 10312, direct |
| S5-A1 | SVBA-H2-4FD-100208 Duplicate Analysis of L/C# 041172-77 - Different Grid Openings | ISO 10312, direct |
| S6-A1 | SVBA-H2-5FD-100209 Replicate Analysis of L/C# 041172-78 - Same Grid Openings | ISO 10312, direct |
| S7-A1 | SVBA-H2-5FD-10020? Replicate Analysis of L/C# 041172-78 - Reprepped Sample | ISO 10312, direct |
| S8-A1 | SVBA-H2-5FD-10020? Duplicate Analysis of L/C# 041172-78 - Same Grid Openings | ISO 10312, direct |
| S9-A1 | SVBA-H2-5FD-10020? Duplicate Analysis of L/C# 041172-78 - Reprepped Sample | ISO 10312, direct |
| S10-A1 | AAMS-D04-093005 Replicate Analysis of L/C# 041174-23 - Same Grid Openings | ISO 10312, direct |
| S11-A1 | AAMS-D04-093005 Replicate Analysis of L/C# 041174-23 - Reprepped Sample | ISO 10312, direct |
| S12-A1 | AAMS-D107-100304 Replicate Analysis of L/C# 041174-27 - Same Grid Openings | ISO 10312, direct |
| S13-A1 | AAMS-D107-100304 Replicate Analysis of L/C# 041174-27 - Reprepped Sample | ISO 10312, direct |
| S14-A1 | BIK-H2-4TR-100504 Duplicate Analysis of L/C# 041188-54 - Different Grid Openings | ISO 10312, direct |
| S15-A1 | JOGA-H2-1TR-100604 Replicate Analysis of L/C# 041188-65 - Same Grid Openings | ISO 10312, direct |
| S16-A1 | JOGA-H2-1TR-100604 Replicate Analysis of L/C# 041188-65 - Reprepped Sample | ISO 10312, direct |
| S17-A1 | JOGA-H2-1TR-100604 Duplicate Analysis of L/C# 041188-65 - Same Grid Openings | ISO 10312, direct |

| | | |
|---|---|---|
| S18-A1 | JOGA-H2-1TR-100604 Duplicate Analysis of L/C# 041188-65 - Reprepped Sample | ISO 10312, direct |
| S19-A1 | JOGA-H2-1TR-100604 Duplicate Analysis of L/C# 041188-65 - Different Grid Openings | ISO 10312, direct |
| S20-A1 | NFB-H2-3PG-100504 Duplicate Analysis of L/C# 041188-78 - Same Grid Openings | ISO 10312, direct |
| S21-A1 | SFBB-H2-1PG-100604 Duplicate Analysis of L/C# 041188-97 - Reprepped Sample | ISO 10312, direct |
| S22-A1 | SFBB-H2-1PG-100604 Duplicate Analysis of L/C# 041188-97 - Same Grid Openings | ISO 10312, direct |
| S23-A1 | SFBB-H2-1PG-100604 Duplicate Analysis of L/C# 041188-97 - Differnet Grid Openings | ISO 10312, direct |
| S24-A1 | SFBB-H2-3PG-100604 Duplicate Analysis of L/C# 041188-99 - Reprepped Sample | ISO 10312, direct |
| S25-A1 | SFBB-H2-3PG-100604 Duplicate Analysis of L/C# 041188-99 - Reprepped Sample | ISO 10312, direct |
| S26-A1 | LC-AAMS-D12-100804 Duplicate Analysis of L/C# 041210-49 - Different Grid Openings | ISO 10312, direct |
| S27-A1 | LC-AAMS-D12-100804 Replicate Analysis of L/C# 041210-49 - Same Grid Openings | ISO 10312, direct |
| S28-A1 | LC-AAMS-D12-100804 Replicate Analysis of L/C# 041210-49 - Reprepped Sample | ISO 10312, direct |
| S29-A1 | LC-AAMS-D15-101104 Replicate Analysis of L/C# 041210-58 - Same Grid Openings | ISO 10312, direct |
| S30-A1 | LC-AAMS-D15-101104 Duplicate Analysis of L/C# 041210-58 - Same Grid Openings | ISO 10312, direct |
| S31-A1 | LC-AAMS-D15-101104 Replicate Analysis of L/C# 041210-58 - Reprepped Sample | ISO 10312, direct |

*ISO 10312, direct*

Preparation and analysis of the above samples was conducted in accordance with the ISO method 10312 (Direct) for the identification of asbestos. Briefly, the samples were collapsed with acetone, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in acetone until cleared of filter debris.

TEM analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The air samples were analyzed at various approximate screen magnifications of 5,000x for PCM equivalent structures, 10,000x for asbestos structures greater than 5.0 micrometer lengths, and 20,000x for asbestos structures greater than 0.5 micrometer lengths. An accelerating voltage of 100 KV was applied. The sizing of grid openings was performed on the microscope at a magnification of approximately 550X.

*Disclaimer*

This test report relates only to the items tested in this report. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with analytical services.

Sincerely,

John Harris, M.P.H.
Laboratory Director

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## ANALYSIS DETAIL

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**Lab/Cor Sample No.** B4950 S1 A1
**Client Sample No.** CC2-H8-2CT-100304
**Description** Duplicate Analysis of L/C# 041172-55 - Same Grid Open
**Analysis Date** 1/24/2005
**Analyst** DW

**Volume (L)** 3647.28
**No. of Grid Openings** 25
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.362
**Analytical Sens. (struc/cc)** 0.000291
**Dectection Limit. (struc/cc)** 0.000871

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 16.6 | 0.00175 | 0.000642 - 0.00381 | 6 |

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**Lab/Cor Sample No.** B4950 S2 A1
**Client Sample No.** SVBA-H2-4FD-100206
**Description** Replicate Analysis of L/C# 041172-77 - Same Grid Open
**Analysis Date** 1/24/2005
**Analyst** JH

**Volume (L)** 1195.08
**No. of Grid Openings** 23
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.333
**Analytical Sens. (struc/cc)** 0.000967
**Dectection Limit. (struc/cc)** 0.00289

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 6.0 | 0.00193 | 0.00 - 0.00609 | 2 |

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**Lab/Cor Sample No.** B4950 S3 A1
**Client Sample No.** SVBA-H2-4FD-100206
**Description** Duplicate Analysis of L/C# 041172-77 - Same Grid Open
**Analysis Date** 1/5/2005
**Analyst** KM

**Volume (L)** 1195.08
**No. of Grid Openings** 23
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.333
**Analytical Sens. (struc/cc)** 0.000967
**Dectection Limit. (struc/cc)** 0.00289

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 9.0 | 0.00290 | 0.00 - 0.00749 | 3 |

# *Lab/Cor, Inc.*

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*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## ANALYSIS DETAIL

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**Lab/Cor Sample No.** B4950 S4 A1
**Client Sample No.** SVBA-H2-4FD-100207
**Description** Duplicate Analysis of L/C# 041172-77 - Reprepped Sam
**Analysis Date** 1/6/2005
**Analyst** DW

**Volume (L)** 1195.08
**No. of Grid Openings** 23
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.333
**Analytical Sens. (struc/cc)** 0.000967
**Dectection Limit. (struc/cc)** 0.00289

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 9.0 | 0.00290 | 0.00 - 0.00749 | 3 |

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**Lab/Cor Sample No.** B4950 S5 A1
**Client Sample No.** SVBA-H2-4FD-100208
**Description** Duplicate Analysis of L/C# 041172-77 - Different Grid Op
**Analysis Date** 1/16/2005
**Analyst** TM

**Volume (L)** 1195.08
**No. of Grid Openings** 23
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.333
**Analytical Sens. (struc/cc)** 0.000967
**Dectection Limit. (struc/cc)** 0.00289

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 18.0 | 0.00580 | 0.00213 - 0.0126 | 6 |

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**Lab/Cor Sample No.** B4950 S6 A1
**Client Sample No.** SVBA-H2-5FD-100209
**Description** Replicate Analysis of L/C# 041172-78 - Same Grid Open
**Analysis Date** 1/5/2005
**Analyst** KM

**Volume (L)** 1198.92
**No. of Grid Openings** 22
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.319
**Analytical Sens. (struc/cc)** 0.00101
**Dectection Limit. (struc/cc)** 0.00301

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 6.3 | 0.00201 | 0.00 - 0.00635 | 2 |

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*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## ANALYSIS DETAIL

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**Lab/Cor Sample No.** B4950 S7 A1
**Client Sample No.** SVBA-H2-5FD-10020?
**Description** Replicate Analysis of L/C# 041172-78 - Reprepped Sam
**Analysis Date** 1/5/2005
**Analyst** KM

**Volume (L)** 1198.92
**No. of Grid Openings** 23
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.333
**Analytical Sens. (struc/cc)** 0.000964
**Dectection Limit. (struc/cc)** 0.00288

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 9.0 | 0.00289 | 0.00 - 0.00747 | 3 |

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**Lab/Cor Sample No.** B4950 S8 A1
**Client Sample No.** SVBA-H2-5FD-10020?
**Description** Duplicate Analysis of L/C# 041172-78 - Same Grid Open
**Analysis Date** 1/23/2005
**Analyst** JH

**Volume (L)** 1198.92
**No. of Grid Openings** 23
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.333
**Analytical Sens. (struc/cc)** 0.000964
**Dectection Limit. (struc/cc)** 0.00288

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 9.0 | 0.00289 | 0.00 - 0.00747 | 3 |

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**Lab/Cor Sample No.** B4950 S9 A1
**Client Sample No.** SVBA-H2-5FD-10020?
**Description** Duplicate Analysis of L/C# 041172-78 - Reprepped Sam
**Analysis Date** 1/6/2005
**Analyst** DW

**Volume (L)** 1198.92
**No. of Grid Openings** 23
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.333
**Analytical Sens. (struc/cc)** 0.000964
**Dectection Limit. (struc/cc)** 0.00288

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 15.0 | 0.00482 | 0.00156 - 0.0112 | 5 |

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## ANALYSIS DETAIL

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**Lab/Cor Sample No.** B4950 S10 A1
**Client Sample No.** AAMS-D04-093005
**Description** Replicate Analysis of L/C# 041174-23 - Same Grid Open
**Analysis Date** 1/24/2005
**Analyst** KM

**Volume (L)** 6181.68
**No. of Grid Openings** 15
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.217
**Analytical Sens. (struc/cc)** 0.000287
**Dectection Limit. (struc/cc)** 0.000857

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 36.8 | 0.00229 | 0.000990 - 0.00452 | 8 |

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**Lab/Cor Sample No.** B4950 S11 A1
**Client Sample No.** AAMS-D04-093005
**Description** Replicate Analysis of L/C# 041174-23 - Reprepped Sam
**Analysis Date** 1/24/2005
**Analyst** KM

**Volume (L)** 6181.68
**No. of Grid Openings** 15
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.217
**Analytical Sens. (struc/cc)** 0.000287
**Dectection Limit. (struc/cc)** 0.000857

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 32.2 | 0.00201 | 0.000806 - 0.00413 | 7 |

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**Lab/Cor Sample No.** B4950 S12 A1
**Client Sample No.** AAMS-D107-100304
**Description** Replicate Analysis of L/C# 041174-27 - Same Grid Open
**Analysis Date** 1/23/2005
**Analyst** JH

**Volume (L)** 7221.6
**No. of Grid Openings** 11
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.159
**Analytical Sens. (struc/cc)** 0.000334
**Dectection Limit. (struc/cc)** 0.00100

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 56.5 | 0.00301 | 0.00138 - 0.00571 | 9 |

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*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## ANALYSIS DETAIL

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**Lab/Cor Sample No.** B4950 S13 A1
**Client Sample No.** AAMS-D107-100304
**Description** Replicate Analysis of L/C# 041174-27 - Reprepped Sam
**Analysis Date** 1/24/2005
**Analyst** JH

**Volume (L)** 7221.6
**No. of Grid Openings** 12
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.174
**Analytical Sens. (struc/cc)** 0.000307
**Dectection Limit. (struc/cc)** 0.000917

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 40.3 | 0.00215 | 0.000863 - 0.00442 | 7 |

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**Lab/Cor Sample No.** B4950 S14 A1
**Client Sample No.** BIK-H2-4TR-100504
**Description** Duplicate Analysis of L/C# 041188-54 - Different Grid Op
**Analysis Date** 1/27/2005
**Analyst** JH

**Volume (L)** 1203.6
**No. of Grid Openings** 23
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.333
**Analytical Sens. (struc/cc)** 0.000960
**Dectection Limit. (struc/cc)** 0.00287

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 30.0 | 0.00960 | 0.00460 - 0.0177 | 10 |

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**Lab/Cor Sample No.** B4950 S15 A1
**Client Sample No.** JOGA-H2-1TR-100604
**Description** Replicate Analysis of L/C# 041188-65 - Same Grid Open
**Analysis Date** 1/27/2005
**Analyst** DW

**Volume (L)** 1220.94
**No. of Grid Openings** 22
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.319
**Analytical Sens. (struc/cc)** 0.000989
**Dectection Limit. (struc/cc)** 0.00296

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 43.9 | 0.0138 | 0.00757 - 0.0232 | 14 |

# *Lab/Cor, Inc.*

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*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## ANALYSIS DETAIL

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**Lab/Cor Sample No.** B4950 S16 A1
**Client Sample No.** JOGA-H2-1TR-100604
**Description** Replicate Analysis of L/C# 041188-65 - Reprepped Sam
**Analysis Date** 1/26/2005
**Analyst** DW

**Volume (L)** 1220.94
**No. of Grid Openings** 22
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.319
**Analytical Sens. (struc/cc)** 0.000989
**Dectection Limit. (struc/cc)** 0.00296

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 31.4 | 0.00989 | 0.00474 - 0.0182 | 10 |

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**Lab/Cor Sample No.** B4950 S17 A1
**Client Sample No.** JOGA-H2-1TR-100604
**Description** Duplicate Analysis of L/C# 041188-65 - Same Grid Open
**Analysis Date** 1/26/2005
**Analyst** KM

**Volume (L)** 1220.94
**No. of Grid Openings** 22
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.319
**Analytical Sens. (struc/cc)** 0.000989
**Dectection Limit. (struc/cc)** 0.00296

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 43.9 | 0.0138 | 0.00757 - 0.0232 | 14 |

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**Lab/Cor Sample No.** B4950 S18 A1
**Client Sample No.** JOGA-H2-1TR-100604
**Description** Duplicate Analysis of L/C# 041188-65 - Reprepped Sam
**Analysis Date** 1/24/2005
**Analyst** JH

**Volume (L)** 1220.94
**No. of Grid Openings** 22
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.319
**Analytical Sens. (struc/cc)** 0.000989
**Dectection Limit. (struc/cc)** 0.00296

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 34.5 | 0.0109 | 0.00543 - 0.0195 | 11 |

# *Lab/Cor, Inc.*

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*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## ANALYSIS DETAIL

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**Lab/Cor Sample No.** B4950 S19 A1
**Client Sample No.** JOGA-H2-1TR-100604
**Description** Duplicate Analysis of L/C# 041188-65 - Different Grid Op
**Analysis Date** 1/23/2005
**Analyst** JH

**Volume (L)** 1220.94
**No. of Grid Openings** 22
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.319
**Analytical Sens. (struc/cc)** 0.000989
**Dectection Limit. (struc/cc)** 0.00296

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 40.8 | 0.0129 | 0.00685 - 0.0220 | 13 |

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**Lab/Cor Sample No.** B4950 S20 A1
**Client Sample No.** NFB-H2-3PG-100504
**Description** Duplicate Analysis of L/C# 041188-78 - Same Grid Open
**Analysis Date** 1/26/2005
**Analyst** KM

**Volume (L)** 1231.23
**No. of Grid Openings** 22
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.319
**Analytical Sens. (struc/cc)** 0.000981
**Dectection Limit. (struc/cc)** 0.00293

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 22.0 | 0.00687 | 0.00276 - 0.0141 | 7 |

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**Lab/Cor Sample No.** B4950 S21 A1
**Client Sample No.** SFBB-H2-1PG-100604
**Description** Duplicate Analysis of L/C# 041188-97 - Reprepped Sam
**Analysis Date** 1/28/2005
**Analyst** DW

**Volume (L)** 1231.23
**No. of Grid Openings** 22
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.319
**Analytical Sens. (struc/cc)** 0.000981
**Dectection Limit. (struc/cc)** 0.00293

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 62.7 | 0.0196 | 0.0120 - 0.0303 | 20 |

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*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## ANALYSIS DETAIL

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**Lab/Cor Sample No.** B4950 S22 A1
**Client Sample No.** SFBB-H2-1PG-100604
**Description** Duplicate Analysis of L/C# 041188-97 - Same Grid Open
**Analysis Date** 1/25/2005
**Analyst** DW

**Volume (L)** 1231.23
**No. of Grid Openings** 22
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.319
**Analytical Sens. (struc/cc)** 0.000981
**Dectection Limit. (struc/cc)** 0.00293

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 62.7 | 0.0196 | 0.0120 - 0.0303 | 20 |

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**Lab/Cor Sample No.** B4950 S23 A1
**Client Sample No.** SFBB-H2-1PG-100604
**Description** Duplicate Analysis of L/C# 041188-97 - Differnet Grid Op
**Analysis Date** 1/24/2005
**Analyst** JH

**Volume (L)** 1231.23
**No. of Grid Openings** 22
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.319
**Analytical Sens. (struc/cc)** 0.000981
**Dectection Limit. (struc/cc)** 0.00293

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 50.2 | 0.0157 | 0.00897 - 0.0255 | 16 |

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**Lab/Cor Sample No.** B4950 S24 A1
**Client Sample No.** SFBB-H2-3PG-100604
**Description** Duplicate Analysis of L/C# 041188-99 - Reprepped Sam
**Analysis Date** 1/26/2005
**Analyst** DW

**Volume (L)** 1271
**No. of Grid Openings** 22
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.319
**Analytical Sens. (struc/cc)** 0.000950
**Dectection Limit. (struc/cc)** 0.00284

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 22.0 | 0.00665 | 0.00267 - 0.0137 | 7 |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## ANALYSIS DETAIL

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**Lab/Cor Sample No.** B4950 S25 A1
**Client Sample No.** SFBB-H2-3PG-100604
**Description** Duplicate Analysis of L/C# 041188-99 - Reprepped Sam
**Analysis Date** 1/27/2005
**Analyst** JH

**Volume (L)** 1271
**No. of Grid Openings** 21
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.304
**Analytical Sens. (struc/cc)** 0.000995
**Dectection Limit. (struc/cc)** 0.00298

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 23.0 | 0.00697 | 0.00280 - 0.0144 | 7 |

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**Lab/Cor Sample No.** B4950 S26 A1
**Client Sample No.** LC-AAMS-D12-100804
**Description** Duplicate Analysis of L/C# 041210-49 - Different Grid Op
**Analysis Date** 1/27/2005
**Analyst** DW

**Volume (L)** 7038.82
**No. of Grid Openings** 14
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.203
**Analytical Sens. (struc/cc)** 0.000270
**Dectection Limit. (struc/cc)** 0.000806

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 29.6 | 0.00162 | 0.000594 - 0.00352 | 6 |

---

**Lab/Cor Sample No.** B4950 S27 A1
**Client Sample No.** LC-AAMS-D12-100804
**Description** Replicate Analysis of L/C# 041210-49 - Same Grid Open
**Analysis Date** 1/24/2005
**Analyst** KM

**Volume (L)** 7038.82
**No. of Grid Openings** 13
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.188
**Analytical Sens. (struc/cc)** 0.000290
**Dectection Limit. (struc/cc)** 0.000868

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 42.5 | 0.00232 | 0.00100 - 0.00458 | 8 |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## ANALYSIS DETAIL

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**Lab/Cor Sample No.** B4950 S28 A1
**Client Sample No.** LC-AAMS-D12-100804
**Description** Replicate Analysis of L/C# 041210-49 - Reprepped Sam
**Analysis Date** 1/26/2005
**Analyst** KM

**Volume (L)** 7038.82
**No. of Grid Openings** 13
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.188
**Analytical Sens. (struc/cc)** 0.000290
**Dectection Limit. (struc/cc)** 0.000868

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 42.5 | 0.00232 | 0.00100 - 0.00458 | 8 |

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**Lab/Cor Sample No.** B4950 S29 A1
**Client Sample No.** LC-AAMS-D15-101104
**Description** Replicate Analysis of L/C# 041210-58 - Same Grid Open
**Analysis Date** 1/31/2005
**Analyst** KM

**Volume (L)** 6834
**No. of Grid Openings** 13
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.188
**Analytical Sens. (struc/cc)** 0.000299
**Dectection Limit. (struc/cc)** 0.000894

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 31.9 | 0.00179 | 0.000659 - 0.00391 | 6 |

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**Lab/Cor Sample No.** B4950 S30 A1
**Client Sample No.** LC-AAMS-D15-101104
**Description** Duplicate Analysis of L/C# 041210-58 - Same Grid Open
**Analysis Date** 1/31/2005
**Analyst** DW

**Volume (L)** 6834
**No. of Grid Openings** 13
**Filter Area (mm2)** 385
**Area Analyzed (mm2)** 0.188
**Analytical Sens. (struc/cc)** 0.000299
**Dectection Limit. (struc/cc)** 0.000894

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| Primary Asbestos Structures | 31.9 | 0.00179 | 0.000659 - 0.00391 | 6 |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## ANALYSIS DETAIL

| | | | |
|---|---|---|---|
| **Lab/Cor Sample No.** | B4950 S31 A1 | **Volume (L)** | 6834 |
| **Client Sample No.** | LC-AAMS-D15-101104 | **No. of Grid Openings** | 13 |
| **Description** | Replicate Analysis of L/C# 041210-58 - Reprepped Sam | **Filter Area (mm2)** | 385 |
| **Analysis Date** | 2/1/2005 | **Area Analyzed (mm2)** | 0.188 |
| **Analyst** | KM | **Analytical Sens. (struc/cc)** | 0.000299 |
| | | **Dectection Limit. (struc/cc)** | 0.000894 |

| Structure Type | Filter Density (s/mm2) | Concen-tration (struc/cc) | 95% Confidence Interval (struc/cc) | Struc. Count |
|---|---|---|---|---|
| **Primary Asbestos Structures** | 42.5 | 0.00239 | 0.00103 - 0.00471 | 8 |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.
*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* CC2-H8-2CT-100304 *Lab/Cor Sample No.:* B4950 S1 A1
*Descripiton:* Duplicate Analysis of L/C# 041172-55 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | B42 | AQ | 1 | | MD2-0 | 7 | 7 | 1.0 | | | Actinolite | |
| A | 1 | B42 | AQ | | 1 | MF | 3 | 0.25 | 12 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 1 | B42 | AQ | | 2 | MF | 2 | 0.15 | 13 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 2 | B22 | | NSD | | | | | | | | | |
| A | 3 | B2 | AQ | 2 | | MD1-1 | 10 | 10 | 1.0 | | | Actinolite | |
| A | 3 | B2 | AQ | | 3 | MF | 5.5 | 0.4 | 14 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 4 | C12 | | NSD | | | | | | | | | |
| A | 5 | A31 | | NSD | | | | | | | | | |
| A | 6 | A11 | AQ | 3 | | MD1-1 | 13 | 10 | 1.3 | | | Actinolite | |
| A | 6 | A11 | AQ | | 4 | MF | 5.5 | 1 | 5.5 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 7 | D1 | | NSD | | | | | | | | | |
| A | 8 | D21 | | NSD | | | | | | | | | |
| A | 9 | D41 | | NSD | | | | | | | | | |
| A | 10 | C20 | AQ | 4 | | MD1-1 | 15 | 10 | 1.5 | | | Actinolite | |
| A | 10 | C20 | AQ | | 5 | MF | 9 | 2.5 | 3.6 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 11 | C40 | | NSD | | | | | | | | | |
| A | 12 | A40 | | NSD | | | | | | | | | |
| A | 13 | A20 | | NSD | | | | | | | | | |
| B | 14 | B43 | | NSD | | | | | | | | | |
| B | 15 | B23 | | NSD | | | | | | | | | |
| B | 16 | B3 | | NSD | | | | | | | | | |
| B | 17 | C13 | | NSD | | | | | | | | | |
| B | 18 | C33 | | NSD | | | | | | | | | |
| B | 19 | B31 | | NSD | | | | | | | | | |
| B | 20 | B11 | | NSD | | | | | | | | | |
| B | 21 | C1 | AQ | 5 | 6 | F | 2.5 | 0.4 | 6.2 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| B | 22 | C21 | | NSD | | | | | | | | | |
| B | 23 | C41 | AQ | 6 | 7 | F | 10 | 2.75 | 3.6 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| B | 24 | A10 | | NSD | | | | | | | | | |
| B | 25 | D10 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SVBA-H2-4FD-100206 *Lab/Cor Sample No.:* B4950 S2 A1

*Descripiton:* Replicate Analysis of L/C# 041172-77 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A32 | | NSD | | | | | | | | | |
| A | 2 | A12 | | NSD | | | | | | | | | |
| A | 3 | D2 | | NSD | | | | | | | | | |
| A | 4 | D22 | | NSD | | | | | | | | | |
| A | 5 | C40 | | NSD | | | | | | | | | |
| A | 6 | C20 | | NSD | | | | | | | | | |
| A | 7 | B10 | | NSD | | | | | | | | | |
| A | 8 | B30 | | NSD | | | | | | | | | |
| A | 9 | B22 | | NSD | | | | | | | | | |
| A | 10 | B2 | | NSD | | | | | | | | | |
| A | 11 | C12 | | NSD | | | | | | | | | |
| A | 12 | C32 | | NSD | | | | | | | | | |
| A | 13 | C42 | | NSD | | | | | | | | | |
| B | 14 | A33 | | NSD | | | | | | | | | |
| B | 15 | A13 | | NSD | | | | | | | | | |
| B | 16 | D3 | | NSD | | | | | | | | | |
| B | 17 | D23 | | NSD | | | | | | | | | |
| B | 18 | D43 | | NSD | | | | | | | | | |
| B | 19 | C40 | | NSD | | | | | | | | | |
| B | 20 | C20 | AQ | 1 | 1 | F | 4.6 | 0.7 | 6.6 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 21 | B10 | AQ | 2 | 2 | F | 7 | 1.2 | 5.8 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 22 | B30 | | NSD | | | | | | | | | |
| B | 23 | B12 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SVBA-H2-4FD-100206 *Lab/Cor Sample No.:* B4950 S3 A1

*Descripiton:* Duplicate Analysis of L/C# 041172-77 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A32 | | NSD | | | | | | | | | |
| A | 2 | A12 | | NSD | | | | | | | | | |
| A | 3 | D2 | | NSD | | | | | | | | | |
| A | 4 | D22 | | NSD | | | | | | | | | |
| A | 5 | C40 | | NSD | | | | | | | | | |
| A | 6 | C20 | | NSD | | | | | | | | | |
| A | 7 | B10 | | NSD | | | | | | | | | |
| A | 8 | B30 | | NSD | | | | | | | | 25% of Opening Blown Out | |
| A | 9 | B22 | | NSD | | | | | | | | | |
| A | 10 | B2 | | NSD | | | | | | | | | |
| A | 11 | C12 | | NSD | | | | | | | | | |
| A | 12 | C32 | | NSD | | | | | | | | | |
| A | 13 | C42 | | NSD | | | | | | | | | |
| B | 14 | A33 | | NSD | | | | | | | | | |
| B | 15 | A13 | | NSD | | | | | | | | | |
| B | 16 | D3 | | NSD | | | | | | | | | |
| B | 17 | D23 | | NSD | | | | | | | | | |
| B | 18 | D43 | | NSD | | | | | | | | | |
| B | 19 | C40 | | NSD | | | | | | | | | |
| B | 20 | C20 | AQ | 1 | | MD1-0 | 3.8 | 1.2 | 3.2 | | | Actinolite | |
| B | 20 | C20 | AQ | | 1 | MF | 3.5 | 1.1 | 3.2 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 20 | C20 | AQ | 2 | 2 | F | 4.5 | 0.7 | 6.4 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 21 | B10 | AQ | 3 | 3 | F | 7 | 1.5 | 4.7 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 22 | B30 | | NSD | | | | | | | | | |
| B | 23 | B12 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SVBA-H2-4FD-100207 *Lab/Cor Sample No.:* B4950 S4 A1

*Descripiton:* Duplicate Analysis of L/C# 041172-77 - Reprepped Sample

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | B41 | | NSD | | | | | | | | | |
| A | 2 | B21 | | NSD | | | | | | | | | |
| A | 3 | B1 | | NSD | | | | | | | | | |
| A | 4 | C11 | | NSD | | | | | | | | | |
| A | 5 | C31 | | NSD | | | | | | | | | |
| A | 6 | A40 | AQ | 1 | 1 | B | 2 | 1 | 2.0 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 7 | A20 | | NSD | | | | | | | | | |
| A | 8 | A31 | | NSD | | | | | | | | | |
| A | 9 | A11 | | NSD | | | | | | | | | |
| A | 10 | D21 | AQ | 2 | | MD1-1 | 9 | 5 | 1.8 | | | Actinolite | |
| A | 10 | D21 | AQ | | 2 | MF | 5.2 | 1.5 | 3.5 | | | Mg,AL,SI,Ca,Fe Actinolite | |
| A | 11 | D1 | | NSD | | | | | | | | | |
| A | 12 | D41 | | NSD | | | | | | | | | |
| B | 13 | B44 | | NSD | | | | | | | | | |
| B | 14 | B24 | | NSD | | | | | | | | | |
| B | 15 | B4 | | NSD | | | | | | | | | |
| B | 16 | C14 | | NSD | | | | | | | | | |
| B | 17 | C34 | | NSD | | | | | | | | | |
| B | 18 | C42 | | NSD | | | | | | | | | |
| B | 19 | C22 | | NSD | | | | | | | | | |
| B | 20 | C2 | | NSD | | | | | | | | | |
| B | 21 | B12 | | NSD | | | | | | | | | |
| B | 22 | B32 | | NSD | | | | | | | | | |
| B | 23 | B41 | AQ | 3 | | MD1-1 | 10 | 7.5 | 1.3 | | | Actinolite | |
| B | 23 | B41 | AQ | | 3 | MF | 7.5 | 0.75 | 10 | | | Mg,AL,SI,Ca,Fe Actinolite | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SVBA-H2-4FD-100208 *Lab/Cor Sample No.:* B4950 S5 A1

*Descripiton:* Duplicate Analysis of L/C# 041172-77 - Different Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | 1 | C34 | CDQ | 1 | 1 | F | 0.75 | 0.05 | 15 | | | Mg, Si Chrysotile | |
| C | 2 | C14 | | NSD | | | | | | | | | |
| C | 3 | B4 | | NSD | | | | | | | | | |
| C | 4 | B24 | | NSD | | | | | | | | | |
| C | 4 | B23 | AQ | 2 | 2 | F | 3.1 | 0.7 | 4.4 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 5 | B3 | | NSD | | | | | | | | | |
| C | 6 | C13 | | NSD | | | | | | | | | |
| C | 7 | C33 | CD | 3 | 3 | F | 1 | 0.05 | 20 | | | Chrysotile | |
| C | 8 | C22 | | NSD | | | | | | | | | |
| C | 9 | A24 | | NSD | | | | | | | | | |
| C | 10 | A4 | | NSD | | | | | | | | | |
| C | 11 | D3 | CD | 4 | 4 | F | 1.05 | 0.02 | 52 | | | Chrysotile | |
| C | 12 | A13 | | NSD | | | | | | | | | |
| D | 13 | C44 | | NSD | | | | | | | | | |
| D | 14 | C42 | | NSD | | | | | | | | | |
| D | 15 | C40 | | NSD | | | | | | | | | |
| D | 16 | D41 | AQ | 5 | 5 | F | 2.75 | 0.4 | 6.9 | | | Mg, Si, Ca, Fe Actinolite | |
| D | 17 | D43 | | NSD | | | | | | | | | |
| D | 18 | D34 | | NSD | | | | | | | | | |
| D | 19 | D32 | | NSD | | | | | | | | | |
| D | 20 | D30 | | NSD | | | | | | | | | |
| D | 21 | C33 | | NSD | | | | | | | | | |
| D | 22 | C22 | | NSD | | | | | | | | | |
| D | 23 | C20 | AQ | 6 | 6 | F | 1.7 | 0.4 | 4.2 | | | Mg, Al, Si, Ca, Fe Actinolite | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.
*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SVBA-H2-5FD-100209 *Lab/Cor Sample No.:* B4950 S6 A1
*Descripiton:* Replicate Analysis of L/C# 041172-78 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A42 | AQ | 1 | | MD1-1 | 5.7 | 1.5 | 3.8 | | | Tremolite | |
| A | 1 | A42 | AQ | | 1 | MF | 5.7 | 0.4 | 14 | | | Mg, Al, Si, Ca, Fe Tremolite | |
| A | 2 | A22 | | NSD | | | | | | | | | |
| A | 3 | A2 | | NSD | | | | | | | | | |
| A | 4 | D12 | | NSD | | | | | | | | | |
| A | 5 | D32 | | NSD | | | | | | | | | |
| A | 6 | C41 | | NSD | | | | | | | | | |
| A | 7 | C21 | | NSD | | | | | | | | | |
| A | 8 | B11 | | NSD | | | | | | | | | |
| A | 9 | B31 | | NSD | | | | | | | | | |
| A | 10 | B43 | | NSD | | | | | | | | | |
| A | 11 | B23 | | NSD | | | | | | | | | |
| B | 12 | B43 | AQ | 2 | 2 | F | 7.6 | 2 | 3.8 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 13 | B23 | | NSD | | | | | | | | | |
| B | 14 | B3 | | NSD | | | | | | | | | |
| B | 15 | C13 | | NSD | | | | | | | | | |
| B | 16 | C33 | | NSD | | | | | | | | | |
| B | 17 | B41 | | NSD | | | | | | | | | |
| B | 18 | B21 | | NSD | | | | | | | | | |
| B | 19 | B1 | | NSD | | | | | | | | | |
| B | 20 | C11 | | NSD | | | | | | | | | |
| B | 21 | C31 | | NSD | | | | | | | | | |
| B | 22 | D1 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SVBA-H2-5FD-10020? *Lab/Cor Sample No.:* B4950 S7 A1

*Descripiton:* Replicate Analysis of L/C# 041172-78 - Reprepped Sample

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | B31 | | NSD | | | | | | | | | |
| A | 2 | B11 | | NSD | | | | | | | | | |
| A | 3 | C1 | | NSD | | | | | | | | | |
| A | 4 | C21 | | NSD | | | | | | | | | |
| A | 5 | C41 | | NSD | | | | | | | | | |
| A | 6 | A31 | | NSD | | | | | | | | | |
| A | 7 | A11 | | NSD | | | | | | | | | |
| A | 8 | D1 | | NSD | | | | | | | | | |
| A | 9 | D21 | | NSD | | | | | | | | | |
| A | 10 | D41 | | NSD | | | | | | | | | |
| A | 11 | B10 | | NSD | | | | | | | | | |
| A | 12 | B30 | | NSD | | | | | | | | | |
| B | 13 | A41 | | NSD | | | | | | | | | |
| B | 14 | A21 | | NSD | | | | | | | | | |
| B | 15 | A1 | | NSD | | | | | | | | | |
| B | 16 | D11 | AQ | 1 | 1 | F | 10.8 | 3 | 3.6 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 17 | D31 | | NSD | | | | | | | | | |
| B | 18 | B42 | | NSD | | | | | | | | | |
| B | 19 | B22 | AQ | 2 | 2 | F | 4.2 | 1.2 | 3.5 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 20 | B2 | | NSD | | | | | | | | | |
| B | 21 | C32 | AQ | 3 | 3 | F | 16 | 3 | 5.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 22 | C12 | | NSD | | | | | | | | | |
| B | 23 | C10 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SVBA-H2-5FD-10020? *Lab/Cor Sample No.:* B4950 S8 A1

*Descripiton:* Duplicate Analysis of L/C# 041172-78 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A42 | AQ | 1 | 1 | F | 5.2 | 0.3 | 17 | | | Mg, Si, Ca, Fe Actinolite | |
| A | 2 | A22 | | NSD | | | | | | | | | |
| A | 3 | A2 | | NSD | | | | | | | | | |
| A | 4 | D12 | | NSD | | | | | | | | | |
| A | 5 | D32 | | NSD | | | | | | | | | |
| A | 6 | C41 | | NSD | | | | | | | | | |
| A | 7 | C21 | | NSD | | | | | | | | | |
| A | 8 | C1 | | NSD | | | | | | | | | |
| A | 9 | B11 | | NSD | | | | | | | | | |
| A | 10 | B31 | | NSD | | | | | | | | | |
| A | 11 | B43 | AQ | 2 | 2 | F | 4 | 1.2 | 3.3 | | | Mg, Si, Ca, Fe Actinolite | |
| A | 12 | B23 | | NSD | | | | | | | | | |
| B | 13 | B43 | | NSD | | | | | | | | | |
| B | 14 | B23 | | NSD | | | | | | | | | |
| B | 15 | B3 | | NSD | | | | | | | | | |
| B | 16 | C13 | | NSD | | | | | | | | | |
| B | 17 | C33 | | NSD | | | | | | | | | |
| B | 18 | B41 | AQ | 3 | 3 | F | 2.7 | 0.5 | 5.4 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 19 | B21 | | NSD | | | | | | | | | |
| B | 20 | B1 | | NSD | | | | | | | | | |
| B | 21 | C11 | | NSD | | | | | | | | | |
| B | 22 | C31 | | NSD | | | | | | | | | |
| B | 23 | D1 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SVBA-H2-5FD-10020? *Lab/Cor Sample No.:* B4950 S9 A1

*Descripiton:* Duplicate Analysis of L/C# 041172-78 - Reprepped Sample

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A41 | AQ | 1 | 1 | F | 6 | 0.35 | 17 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 1 | A41 | AQ | 2 | | MD1-1 | 10 | 7.5 | 1.3 | | | Actinolite | |
| A | 1 | A41 | AQ | | 2 | MF | 10 | 2.5 | 4.0 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 2 | A21 | | NSD | | | | | | | | | |
| A | 3 | A1 | | NSD | | | | | | | | | |
| A | 4 | D11 | | NSD | | | | | | | | | |
| A | 5 | D31 | | NSD | | | | | | | | | |
| A | 6 | B31 | | NSD | | | | | | | | | |
| A | 7 | B11 | | NSD | | | | | | | | | |
| A | 8 | C1 | | NSD | | | | | | | | | |
| A | 9 | C21 | | NSD | | | | | | | | | |
| A | 10 | C41 | | NSD | | | | | | | | | |
| A | 11 | B43 | | NSD | | | | | | | | | |
| A | 12 | B23 | | NSD | | | | | | | | | |
| A | 13 | B3 | | NSD | | | | | | | | | |
| A | 14 | C13 | | NSD | | | | | | | | | |
| B | 15 | A41 | AQ | 3 | 3 | F | 4.8 | 1.2 | 4.0 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| B | 16 | A21 | | NSD | | | | | | | | | |
| B | 17 | A1 | | NSD | | | | | | | | | |
| B | 18 | D11 | | NSD | | | | | | | | | |
| B | 19 | D31 | | NSD | | | | | | | | | |
| B | 20 | B41 | | NSD | | | | | | | | | |
| B | 21 | B21 | AQ | 4 | | MD1-0 | 4 | 4 | 1.0 | | | Actinolite | |
| B | 21 | B21 | AQ | | 4 | MF | 2.75 | 0.35 | 7.9 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| B | 21 | B21 | AQ | 5 | | MD1-1 | 17 | 15 | 1.1 | | | Actinolite | |
| B | 21 | B21 | AQ | | 5 | MF | 8 | 0.75 | 11 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| B | 22 | B1 | | NSD | | | | | | | | | |
| B | 23 | C11 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.
*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* AAMS-D04-093005 *Lab/Cor Sample No.:* B4950 S10 A1
*Descripiton:* Replicate Analysis of L/C# 041174-23 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | B22 | | NSD | | | | | | | | | |
| A | 2 | B2 | AQ | 1 | 1 | F | 7.2 | 1.2 | 6.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 2 | B2 | AQ | 2 | | MD1-0 | 8 | 6 | 1.3 | | | Actinolite | |
| A | 2 | B2 | AQ | | 2 | MF | 1.5 | 0.22 | 6.8 | | | Mg, Al, Si, Ca, Fe Actinolite 20% replicate blown out | |
| A | 3 | C12 | | NSD | | | | | | | | | |
| A | 4 | C32 | | NSD | | | | | | | | | |
| A | 5 | A12 | | NSD | | | | | | | | | |
| A | 6 | D2 | AQ | 3 | | MD1-0 | 4 | 1.2 | 3.3 | | | Actinolite | |
| A | 6 | D2 | AQ | | 3 | MF | 4 | 0.55 | 7.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 7 | D22 | | NSD | | | | | | | | | |
| A | 8 | D42 | AQ | 4 | 4 | F | 5.3 | 0.7 | 7.6 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 9 | B22 | AQ | 5 | 5 | F | 3.5 | 0.5 | 7.0 | | | Mg, Al, Si, Ca, Fe Tremolite | |
| B | 9 | B22 | AQ | 6 | 6 | F | 4.5 | 1.2 | 3.7 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 10 | B2 | AQ | 7 | 7 | F | 10.5 | 0.65 | 16 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 11 | C12 | | NSD | | | | | | | | | |
| B | 12 | C32 | | NSD | | | | | | | | | |
| B | 13 | A1 | AQ | 8 | | MD1-1 | 9 | 7 | 1.3 | | | Actinolite | |
| B | 13 | A1 | AQ | | 8 | MF | 6.2 | 0.65 | 9.5 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 14 | D11 | | NSD | | | | | | | | | |
| B | 15 | D31 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* AAMS-D04-093005 *Lab/Cor Sample No.:* B4950 S11 A1

*Descripiton:* Replicate Analysis of L/C# 041174-23 - Reprepped Sample

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | B22 | | NSD | | | | | | | | | |
| A | 2 | B2 | | NSD | | | | | | | | | |
| A | 3 | C12 | AQ | 1 | 1 | F | 4 | 0.8 | 5.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 4 | C32 | | NSD | | | | | | | | | |
| A | 5 | A22 | | NSD | | | | | | | | | |
| A | 6 | A2 | | NSD | | | | | | | | | |
| A | 7 | D12 | AQ | 2 | | MD1-1 | 11 | 4.5 | 2.4 | | | Actinolite | |
| A | 7 | D12 | AQ | | 2 | MF | 11 | 2 | 5.5 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 8 | D32 | AQ | 3 | 3 | F | 9 | 2.5 | 3.6 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 8 | D32 | AQ | 4 | 4 | F | 3.5 | 0.7 | 5.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 9 | B22 | | NSD | | | | | | | | | |
| B | 10 | B2 | | NSD | | | | | | | | | |
| B | 11 | C12 | AQ | 5 | 5 | F | 2.8 | 0.7 | 4.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 12 | C32 | AQ | 6 | 6 | F | 3 | 0.6 | 5.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 13 | A12 | | NSD | | | | | | | | | |
| B | 14 | D2 | AQ | 7 | 7 | F | 12.5 | 2.5 | 5.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 15 | D22 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* AAMS-D107-100304 *Lab/Cor Sample No.:* B4950 S12 A1

*Descripiton:* Replicate Analysis of L/C# 041174-27 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A22 | AQ | 1 | | MD1-1 | 10.5 | 9 | 1.2 | | | Actinolite | |
| A | 1 | A22 | AQ | | 1 | MF | 7.5 | 0.3 | 25 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 2 | A2 | AQ | 2 | | MD1-1 | 13 | 4 | 3.2 | | | Actinolite | |
| A | 2 | A2 | AQ | | 2 | MF | 13 | 2.2 | 5.9 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 3 | D12 | AQ | 3 | 3 | B | 2.5 | 0.7 | 3.6 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 4 | D32 | | NSD | | | | | | | | | |
| A | 5 | C22 | | NSD | | | | | | | | | |
| A | 6 | B11 | CD | 4 | | MD1-1 | 16 | 10 | 1.6 | | | Chrysotile | |
| A | 6 | B11 | CD | | 4 | MF | 11 | 0.07 | 160 | | | Chrysotile | |
| B | 7 | B41 | AQ | 5 | 5 | F | 7.5 | 1.1 | 6.8 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 8 | B13 | AQ | 6 | 6 | F1-1 | 18 | 3.5 | 5.1 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 8 | C13 | | NSD | | | | | | | | | |
| B | 9 | C10 | CMQ | 7 | | MD1-0 | 7.5 | 4 | 1.9 | | | Chrysotile | |
| B | 9 | C10 | CMQ | | 7 | MF | 4 | 0.05 | 80 | | | Mg, Si Chrysotile | |
| B | 10 | D31 | AQ | 8 | 8 | F | 12 | 0.8 | 15 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 11 | A2 | AQ | 9 | 9 | F | 15 | 0.3 | 50 | | | Mg, Al, Si, Ca, Fe Actinolite | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* AAMS-D107-100304 *Lab/Cor Sample No.:* B4950 S13 A1

*Descripiton:* Replicate Analysis of L/C# 041174-27 - Reprepped Sample

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | B10 | AQ | 1 | 1 | F | 4.9 | 0.7 | 7.0 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 2 | D13 | | NSD | | | | | | | | | |
| A | 3 | D30 | | NSD | | | | | | | | | |
| A | 4 | A20 | | NSD | | | | | | | | | |
| A | 5 | B22 | | NSD | | | | | | | | | |
| A | 6 | A42 | AQ | 2 | 2 | F | 6 | 0.7 | 8.6 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| B | 7 | A22 | CD | 3 | | MD1-1 | 9.8 | 2.5 | 3.9 | | | Chrysotile | |
| B | 7 | A22 | CD | | 3 | MB | 9.8 | 0.9 | 11 | | | Chrysotile | |
| B | 7 | A22 | CD | 4 | | MD1-0 | 4 | 3.6 | 1.1 | | | Chrysotile | |
| B | 7 | A22 | CD | | 4 | MB | 3.6 | 0.25 | 14 | | | Chrysotile | |
| B | 8 | D2 | | NSD | | | | | | | | | |
| B | 9 | D32 | AQ | 5 | 5 | F | 10 | 2.5 | 4.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 10 | C31 | AQ | 6 | 6 | B | 16 | 2.4 | 6.7 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 10 | C31 | AQ | 7 | 7 | F | 5.2 | 1.2 | 4.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 11 | C1 | | NSD | | | | | | | | | |
| B | 12 | B21 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.
*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* BIK-H2-4TR-100504 *Lab/Cor Sample No.:* B4950 S14 A1
*Descripiton:* Duplicate Analysis of L/C# 041188-54 - Different Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | 1 | A34 | | NSD | | | | | | | | | |
| C | 2 | A14 | | NSD | | | | | | | | | |
| C | 3 | D4 | | NSD | | | | | | | | | |
| C | 4 | D24 | | NSD | | | | | | | | | |
| C | 5 | D44 | | NSD | | | | | | | | | |
| C | 6 | D42 | | NSD | | | | | | | | | |
| C | 7 | D22 | | NSD | | | | | | | | | |
| C | 8 | D2 | | NSD | | | | | | | | | |
| C | 9 | A12 | | NSD | | | | | | | | | |
| C | 10 | A32 | AQ | 1 | 1 | F | 8 | 2.4 | 3.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 10 | A32 | AQ | 2 | 2 | F | 13 | 3 | 4.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 11 | A42 | AQ | 3 | 3 | F | 30 | 3 | 10 | | | Mg, Si, Ca, Fe Actinolite | |
| C | 12 | A40 | | NSD | | | | | | | | | |
| C | 13 | A20 | | NSD | | | | | | | | | |
| C | 14 | D10 | AQ | 4 | 4 | F | 10 | 2.5 | 4.0 | | | Mg, Si, Ca, Fe Actinolite | |
| C | 15 | D30 | AQ | 5 | 5 | F | 4 | 0.7 | 5.7 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 15 | D30 | AQ | 6 | 6 | F | 4.8 | 0.9 | 5.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 16 | C41 | | NSD | | | | | | | | | |
| C | 17 | C21 | AQ | 7 | 7 | F | 5.1 | 0.7 | 7.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 18 | C1 | | NSD | | | | | | | | | |
| C | 19 | B11 | CDQ | 8 | | MD1-0 | 8 | 6 | 1.3 | | | Chrysotile | |
| C | 19 | B11 | CDQ | | 8 | MF | 3.7 | 0.05 | 74 | | | Mg, Si Chrysotile | |
| C | 20 | B31 | | NSD | | | | | | | | | |
| C | 21 | B41 | AQ | 9 | 9 | F | 22 | 4 | 5.5 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 22 | B33 | | NSD | | | | | | | | | |
| C | 23 | C13 | AQ | 10 | | MD1-1 | 32 | 31 | 1.0 | | | Actinolite | |
| C | 23 | C13 | AQ | | 10 | MF | 15 | 1.1 | 14 | | | Mg, Al, Si, Ca, Fe Actinolite | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.
*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* JOGA-H2-1TR-100604 *Lab/Cor Sample No.:* B4950 S15 A1
*Descripiton:* Replicate Analysis of L/C# 041188-65 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | B44 | | NSD | | | | | | | | | |
| A | 2 | B24 | | NSD | | | | | | | | | |
| A | 3 | B4 | | NSD | | | | | | | | | |
| A | 4 | C14 | | NSD | | | | | | | | | |
| A | 5 | C34 | AQ | 1 | | MD1-1 | 12 | 6 | 2.0 | | | Actinolite | |
| A | 5 | C34 | AQ | | 1 | MF | 12 | 3 | 4.0 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| A | 6 | C42 | AQ | 2 | | MD1-0 | 5 | 5 | 1.0 | | | Actinolite | |
| A | 6 | C42 | AQ | | 2 | MF | 2.75 | 0.8 | 3.4 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| A | 7 | C22 | | NSD | | | | | | | | | |
| A | 8 | C2 | AQ | 3 | 3 | F | 8 | 2.5 | 3.2 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| A | 8 | C2 | AQ | 4 | 4 | F | 5.5 | 0.5 | 11 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| A | 9 | B12 | AQ | 5 | 5 | F | 7 | 1.5 | 4.7 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| A | 10 | B32 | AQ | 6 | 6 | F | 10 | 2 | 5.0 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| A | 11 | B40 | AQ | 7 | 7 | F | 4 | 0.65 | 6.2 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| A | 11 | B40 | AQ | 8 | 8 | F | 5.2 | 0.6 | 8.7 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| A | 11 | B40 | AQ | 9 | 9 | F | 6 | 1.2 | 5.0 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| A | 11 | B40 | AQ | 10 | | MD1-1 | 8 | 8 | 1.0 | | | Actinolite | |
| A | 11 | B40 | AQ | | 10 | MF | 6 | 0.75 | 8.0 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| A | 12 | B20 | | NSD | | | | | | | | | |
| A | 13 | A21 | AQ | 11 | | MD1-0 | 12 | 8 | 1.5 | | | Actinolite | |
| A | 13 | A21 | AQ | | 11 | MF | 4 | 0.85 | 4.7 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| A | 14 | A1 | | NSD | | | | | | | | | |
| B | 15 | B44 | | NSD | | | | | | | | | |
| B | 16 | B24 | | NSD | | | | | | | | | |
| B | 17 | B4 | AQ | 12 | 12 | F | 18 | 2 | 9.0 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| B | 18 | C14 | AQ | 13 | 13 | F | 5.5 | 0.65 | 8.5 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| B | 19 | C34 | AQ | 14 | | MD2-0 | 7.5 | 5 | 1.5 | | | Actinolite | |
| B | 19 | C34 | AQ | | 14 | MF | 3 | 1 | 3.0 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| B | 19 | C34 | AQ | | 15 | MF | 2.75 | 0.5 | 5.5 | | | Mg,AL,Si,Ca,Fe Actinolite | |
| B | 20 | C42 | | NSD | | | | | | | | | |
| B | 21 | C22 | | NSD | | | | | | | | | |
| B | 22 | C2 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* JOGA-H2-1TR-100604 *Lab/Cor Sample No.:* B4950 S16 A1

*Descripiton:* Replicate Analysis of L/C# 041188-65 - Reprepped Sample

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | B43 | | NSD | | | | | | | | | |
| A | 2 | B23 | | NSD | | | | | | | | | |
| A | 3 | B3 | | NSD | | | | | | | | | |
| A | 4 | C13 | | NSD | | | | | | | | | |
| A | 5 | C33 | | NSD | | | | | | | | | |
| A | 6 | C42 | | NSD | | | | | | | | | |
| A | 7 | C22 | AQ | 1 | 1 | F | 24 | 6 | 4.0 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 7 | C22 | AQ | 2 | 2 | F | 15 | 2.5 | 6.0 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 8 | C2 | | NSD | | | | | | | | | |
| A | 9 | B12 | AQ | 3 | | MD1-1 | 7.5 | 5 | 1.5 | | | Actinolite | |
| A | 9 | B12 | AQ | | 3 | MF | 5.5 | 1 | 5.5 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 10 | B32 | AQ | 4 | | MD1-1 | 7.5 | 7.5 | 1.0 | | | Actinolite | |
| A | 10 | B32 | AQ | | 4 | MF | 6 | 1.2 | 5.0 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 10 | B32 | AQ | 5 | 5 | F | 5.5 | 1.2 | 4.6 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 11 | B40 | | NSD | | | | | | | | | |
| A | 12 | B20 | | NSD | | | | | | | | | |
| A | 13 | B10 | | NSD | | | | | | | | | |
| A | 14 | A11 | AQ | 6 | 6 | F | 4.5 | 1.2 | 3.7 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 14 | A11 | AQ | 7 | 7 | F | 5.2 | 1.5 | 3.5 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 15 | D1 | AQ | 8 | | MD1-1 | 15 | 15 | 1.0 | | | Actinolite | |
| A | 15 | D1 | AQ | | 8 | MF | 8 | 0.5 | 16 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 16 | D21 | | NSD | | | | | | | | | |
| B | 17 | A42 | | NSD | | | | | | | | | |
| B | 18 | A22 | AQ | 9 | | MD1-1 | 28 | 15 | 1.9 | | | Actinolite | |
| B | 18 | A22 | AQ | | 9 | MF | 28 | 2 | 14 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| B | 18 | A22 | AQ | 10 | | MD1-1 | 10 | 4 | 2.5 | | | Actinolite | |
| B | 18 | A22 | AQ | | 10 | MF | 9 | 2.5 | 3.6 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| B | 19 | A2 | | NSD | | | | | | | | | |
| B | 20 | D12 | | NSD | | | | | | | | | |
| B | 21 | D32 | | NSD | | | | | | | | | |
| B | 22 | D41 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* JOGA-H2-1TR-100604 *Lab/Cor Sample No.:* B4950 S17 A1

*Descripiton:* Duplicate Analysis of L/C# 041188-65 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | B44 | AQ | 1 | | MD1-0 | 8 | 8 | 1.0 | | | Actinolite | |
| A | 1 | B44 | AQ | | 1 | MF | 2 | 0.4 | 5.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 2 | B24 | | NSD | | | | | | | | | |
| A | 3 | B4 | | NSD | | | | | | | | | |
| A | 4 | C14 | | NSD | | | | | | | | | |
| A | 5 | C34 | | NSD | | | | | | | | | |
| A | 6 | C42 | | NSD | | | | | | | | | |
| A | 7 | C22 | AQ | 2 | 2 | F | 3.8 | 0.6 | 6.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 8 | C2 | AQ | 3 | | MD1-1 | 5 | 1.8 | 2.8 | | | Actinolite | |
| A | 8 | C2 | AQ | | 3 | MF | 5 | 0.5 | 10 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 9 | B12 | AQ | 4 | 4 | F | 6 | 1.8 | 3.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 9 | B12 | AQ | 5 | 5 | F | 3.6 | 1.1 | 3.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 10 | B32 | AQ | 6 | 6 | F | 9.2 | 1.3 | 7.1 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 11 | B40 | AQ | 7 | 7 | F | 3.3 | 0.6 | 5.5 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 11 | B40 | AQ | 8 | 8 | F | 4.6 | 0.85 | 5.4 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 12 | B20 | | NSD | | | | | | | | | |
| A | 13 | A21 | AQ | 9 | 9 | F | 3.5 | 0.8 | 4.4 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 14 | A1 | | NSD | | | | | | | | | |
| B | 15 | B44 | AQ | 10 | 10 | F | 3.5 | 0.8 | 4.4 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 16 | B24 | | NSD | | | | | | | | | |
| B | 17 | B4 | AQ | 11 | 11 | F | 13.5 | 1.8 | 7.5 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 18 | C14 | AQ | 12 | | MD1-1 | 8 | 7 | 1.1 | | | Actinolite | |
| B | 18 | C14 | AQ | | 12 | MF | 8 | 0.7 | 11 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 18 | C14 | AQ | 13 | 13 | F | 5.2 | 0.5 | 10 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 19 | C34 | | NSD | | | | | | | | | |
| B | 20 | C42 | AQ | 14 | 14 | F | 6 | 0.7 | 8.6 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 21 | C22 | | NSD | | | | | | | | | |
| B | 22 | C2 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* JOGA-H2-1TR-100604 *Lab/Cor Sample No.:* B4950 S18 A1

*Descripiton:* Duplicate Analysis of L/C# 041188-65 - Reprepped Sample

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A33 | | NSD | | | | | | | | | |
| A | 2 | A3 | | NSD | | | | | | | | | |
| A | 3 | D13 | AQ | 1 | 1 | F | 13 | 2.1 | 6.2 | | | Mg, Si, Ca, Fe Actinolite | |
| A | 4 | D43 | AQ | 2 | 2 | F | 6.5 | 1.6 | 4.1 | | | Mg, Si, Ca, Fe Actinolite | |
| A | 4 | D43 | AQ | 3 | 3 | F | 2.8 | 0.75 | 3.7 | | | Mg, Si, Ca, Fe Actinolite | |
| A | 5 | D30 | | NSD | | | | | | | | | |
| A | 6 | D10 | | NSD | | | | | | | | | |
| A | 7 | A20 | | NSD | | | | | | | | | |
| A | 8 | A40 | | NSD | | | | | | | | | |
| A | 9 | B32 | | NSD | | | | | | | | | |
| A | 10 | B12 | | NSD | | | | | | | | | |
| A | 11 | C12 | AQ | 4 | 4 | F | 2.5 | 0.7 | 3.6 | | | Mg, Si, Ca, Fe Actinolite | |
| B | 12 | B23 | | NSD | | | | | | | | | |
| B | 13 | B3 | AQ | 5 | 5 | F | 10.2 | 2.2 | 4.6 | | | Mg, Si, Ca, Fe Actinolite | |
| B | 14 | C13 | AQ | 6 | 6 | F | 5.2 | 1.2 | 4.3 | | | Mg, Si, Ca, Fe Actinolite | |
| B | 15 | C33 | AQ | 7 | 7 | F | 5.1 | 1.5 | 3.4 | | | Mg, Si, Ca, Fe Actinolite | |
| B | 16 | C41 | | NSD | | | | | | | | | |
| B | 17 | C11 | | NSD | | | | | | | | | |
| B | 18 | B1 | AQ | 8 | 8 | F | 14 | 2 | 7.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 18 | B1 | AQ | 9 | 9 | F | 4 | 1.2 | 3.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 19 | B31 | AQ | 10 | | MD1-1 | 16 | 13 | 1.2 | | | Actinolite | |
| B | 19 | B31 | AQ | | 10 | MF | 16 | 0.7 | 23 | | | Mg, Si, Ca, Fe Actinolite | |
| B | 20 | A41 | | NSD | | | | | | | | | |
| B | 21 | A11 | AQ | 11 | 11 | F | 3 | 0.7 | 4.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 22 | D21 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* JOGA-H2-1TR-100604 *Lab/Cor Sample No.:* B4950 S19 A1

*Descripiton:* Duplicate Analysis of L/C# 041188-65 - Different Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | 1 | A43 | | NSD | | | | | | | | | |
| C | 2 | A23 | AQ | 1 | 1 | F | 7.5 | 2 | 3.8 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 3 | A3 | AQ | 2 | 2 | F | 3.5 | 0.4 | 8.8 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 4 | D13 | | NSD | | | | | | | | | |
| C | 5 | D33 | AQ | 3 | 3 | F | 26 | 2.5 | 10 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 6 | D43 | AQ | 4 | 4 | F | 9.8 | 1.2 | 8.2 | | | Mg, Si, Ca, Fe Actinolite | |
| C | 6 | D43 | AQ | 5 | 5 | F | 2.6 | 0.6 | 4.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 6 | D43 | AQ | 6 | | MD1-1 | 10 | 9 | 1.1 | | | Actinolite | |
| C | 6 | D43 | AQ | | 6 | MF | 7 | 1.1 | 6.4 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 6 | D43 | AQ | 7 | 7 | F | 4.8 | 1.5 | 3.2 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 7 | D41 | AQ | 8 | 8 | F | 12 | 2.5 | 4.8 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 8 | D21 | | NSD | | | | | | | | | |
| C | 9 | D1 | | NSD | | | | | | | | | |
| C | 10 | A11 | AQ | 9 | 9 | F | 9 | 1.3 | 6.9 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 11 | A31 | | NSD | | | | | | | | | |
| C | 12 | A41 | | NSD | | | | | | | | | |
| C | 13 | B40 | | NSD | | | | | | | | | |
| C | 14 | B20 | | NSD | | | | | | | | | |
| C | 15 | B10 | AQ | 10 | 10 | F | 8 | 2.3 | 3.5 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 16 | C10 | | NSD | | | | | | | | | |
| C | 17 | C30 | | NSD | | | | | | | | | |
| C | 18 | C40 | AQ | 11 | 11 | F | 4.8 | 0.6 | 8.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 19 | C42 | AQ | 12 | 12 | F | 33 | 5 | 6.6 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 20 | C22 | | NSD | | | | | | | | | |
| C | 21 | C2 | AQ | 13 | 13 | F | 4 | 1.3 | 3.1 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 22 | B12 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.
*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* NFB-H2-3PG-100504 *Lab/Cor Sample No.:* B4950 S20 A1
*Descripiton:* Duplicate Analysis of L/C# 041188-78 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A33 | | NSD | | | | | | | | | |
| A | 2 | A13 | | NSD | | | | | | | | | |
| A | 3 | D3 | AQ | 1 | 1 | B | 6.5 | 2.5 | 2.6 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 4 | D23 | | NSD | | | | | | | | | |
| A | 5 | D43 | | NSD | | | | | | | | | |
| A | 6 | D41 | AQ | 2 | 2 | F | 11 | 2.2 | 5.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 7 | D21 | | NSD | | | | | | | | | |
| A | 8 | D1 | | NSD | | | | | | | | | |
| A | 9 | A11 | | NSD | | | | | | | | | |
| A | 10 | A31 | AQ | 3 | 3 | F | 1.8 | 0.35 | 5.1 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 11 | A41 | AQ | 4 | 4 | F | 3.3 | 0.8 | 4.1 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 12 | A22 | | NSD | | | | | | | | | |
| B | 13 | A2 | | NSD | | | | | | | | | |
| B | 14 | D12 | | NSD | | | | | | | | | |
| B | 15 | D32 | | NSD | | | | | | | | | |
| B | 16 | C30 | | NSD | | | | | | | | | |
| B | 17 | C10 | AQ | 5 | | MD1-0 | 3.3 | 0.8 | 4.1 | | | Actinolite | |
| B | 17 | C10 | AQ | | 5 | MF | 1.7 | 0.45 | 3.8 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 18 | B10 | AQ | 6 | | MD1-0 | 13 | 13 | 1.0 | | | Actinolite | |
| B | 18 | B10 | AQ | | 6 | MF | 4.5 | 0.4 | 11 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 19 | B30 | | NSD | | | | | | | | | |
| B | 20 | B42 | | NSD | | | | | | | | | |
| B | 21 | B22 | AQ | 7 | 7 | F | 5.8 | 1.8 | 3.2 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 22 | C2 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SFBB-H2-1PG-100604 *Lab/Cor Sample No.:* B4950 S21 A1

*Descripiton:* Duplicate Analysis of L/C# 041188-97 - Reprepped Sample

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | 1 | B44 | CD | 1 | | MD1-0 | 4.5 | 2 | 2.2 | | | Chrysotile | |
| C | 1 | B44 | CD | | 1 | MF | 4 | 0.15 | 27 | | | Chrysotile | |
| C | 1 | B44 | CD | 2 | 2 | F | 1 | 0.1 | 10 | | | Chrysotile | |
| C | 2 | B24 | CD | 3 | | MD1-0 | 1.5 | 1.5 | 1.0 | | | Chrysotile | |
| C | 2 | B24 | CD | | 3 | MF | 1 | 0.1 | 10 | | | Chrysotile | |
| C | 2 | B24 | CD | 4 | | MD1-0 | 1.5 | 1.5 | 1.0 | | | Chrysotile | |
| C | 2 | B24 | CD | | 4 | MF | 1 | 0.1 | 10 | | | Chrysotile | |
| C | 3 | B4 | | NSD | | | | | | | | | |
| C | 4 | C14 | CD | 5 | 5 | F | 0.6 | 0.1 | 6.0 | | | Chrysotile | |
| C | 5 | C34 | CD | 6 | | MD1-0 | 7.5 | 7.5 | 1.0 | | | Chrysotile | |
| C | 5 | C34 | CD | | 6 | MF | 0.75 | 0.1 | 7.5 | | | Chrysotile | |
| C | 6 | C42 | | NSD | | | | | | | | | |
| C | 7 | C22 | CD | 7 | 7 | F | 1.2 | 0.1 | 12 | | | Chrysotile | |
| C | 8 | C2 | CD | 8 | | MD1-0 | 4 | 1.5 | 2.7 | | | Chrysotile | |
| C | 8 | C2 | CD | | 8 | MF | 1.5 | 0.1 | 15 | | | Chrysotile | |
| C | 8 | C2 | CD | 9 | 9 | F | 1 | 0.1 | 10 | | | Chrysotile | |
| C | 9 | B12 | | NSD | | | | | | | | | |
| C | 10 | B32 | CD | 10 | | MD2-0 | 15 | 10 | 1.5 | | | Chrysotile | |
| C | 10 | B32 | CD | | 10 | MF | 3 | 0.1 | 30 | | | Chrysotile | |
| C | 10 | B32 | CD | | 11 | MF | 1.2 | 0.1 | 12 | | | Chrysotile | |
| C | 10 | B32 | CD | 11 | | MD1-0 | 10 | 7.5 | 1.3 | | | Chrysotile | |
| C | 10 | B32 | CD | | 12 | MF | 2 | 0.1 | 20 | | | Chrysotile | |
| C | 10 | B32 | CD | 12 | 13 | F | 1.2 | 0.1 | 12 | | | Chrysotile | |
| C | 10 | B32 | CD | 13 | 14 | F | 1 | 0.1 | 10 | | | Chrysotile | |
| C | 10 | B32 | AQ | 14 | 15 | F | 2 | 0.25 | 8.0 | | | Mg,Al,Si,Ca Tremolite | |
| D | 11 | B42 | | NSD | | | | | | | | | |
| D | 12 | B22 | | NSD | | | | | | | | | |
| D | 13 | B2 | | NSD | | | | | | | | | |
| D | 14 | C12 | CD | 15 | | MD1-0 | 10 | 5 | 2.0 | | | Chrysotile | |
| D | 14 | C12 | CD | | 16 | MF | 1.2 | 0.15 | 8.0 | | | Chrysotile | |
| D | 15 | C32 | | NSD | | | | | | | | | |
| D | 16 | C40 | CD | 16 | | MD1-0 | 5 | 5 | 1.0 | | | Chrysotile | |
| D | 16 | C40 | CD | | 17 | MF | 1 | 0.1 | 10 | | | Chrysotile | |
| D | 17 | C20 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SFBB-H2-1PG-100604 *Lab/Cor Sample No.:* B4950 S21 A1

*Descripiton:* Duplicate Analysis of L/C# 041188-97 - Reprepped Sample

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | 18 | B10 | AQ | 17 | | MD1-1 | 25 | 20 | 1.2 | | | Actinolite | |
| D | 18 | B10 | AQ | | 18 | MF | 7 | 1.2 | 5.8 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| D | 18 | B10 | CD | 18 | | MD1-0 | 17 | 17 | 1.0 | | | Chrysotile | |
| D | 18 | B10 | CD | | 19 | MF | 3 | 0.1 | 30 | | | Chrysotile | |
| D | 19 | B30 | CD | 19 | 20 | F | 0.75 | 0.1 | 7.5 | | | Chrysotile | |
| D | 20 | A41 | | NSD | | | | | | | | | |
| D | 21 | A21 | | NSD | | | | | | | | | |
| D | 22 | A1 | CD | 20 | 21 | F | 1 | 0.1 | 10 | | | Chrysotile | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SFBB-H2-1PG-100604 *Lab/Cor Sample No.:* B4950 S22 A1

*Descripiton:* Duplicate Analysis of L/C# 041188-97 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | B30 | CD | 1 | | MD1-0 | 2 | 2 | 1.0 | | | Chrysotile | |
| A | 1 | B30 | CD | | 1 | MF | 1 | 0.1 | 10 | | | Chrysotile | |
| A | 1 | B30 | CD | 2 | | MD1-0 | 5 | 5 | 1.0 | | | Chrysotile | |
| A | 1 | B30 | CD | | 2 | MF | 1.2 | 0.1 | 12 | | | Chrysotile | |
| A | 2 | B10 | | NSD | | | | | | | | | |
| A | 3 | A44 | AQ | 3 | | MD1-0 | 4 | 4 | 1.0 | | | Actinolite | |
| A | 3 | A44 | AQ | | 3 | MF | 1.8 | 0.25 | 7.2 | | | Actinolite | |
| A | 4 | A42 | CD | 4 | | MD2-0 | 7 | 7 | 1.0 | | | Chrysotile | |
| A | 4 | A42 | CD | | 4 | MF | 0.75 | 0.1 | 7.5 | | | Chrysotile | |
| A | 4 | A42 | CD | | 5 | MF | 0.75 | 0.1 | 7.5 | | | Chrysotile | |
| A | 5 | A4 | AQ | 5 | 6 | F | 6 | 1.2 | 5.0 | | | Actinolite | |
| A | 5 | A4 | CD | 6 | | MD1-0 | 20 | 20 | 1.0 | | | Chrysotile | |
| A | 5 | A4 | CD | | 7 | MF | 1 | 0.1 | 10 | | | Chrysotile | |
| A | 6 | D14 | CD | 7 | 8 | F | 1 | 0.1 | 10 | | | Chrysotile | |
| A | 6 | D14 | CD | 8 | | MD1-0 | 2.5 | 2.5 | 1.0 | | | Chrysotile | |
| A | 6 | D14 | CD | | 9 | MF | 1 | 0.1 | 10 | | | Chrysotile | |
| A | 7 | D34 | CD | 9 | | MD1-0 | 1.5 | 1.5 | 1.0 | | | Chrysotile | |
| A | 7 | D34 | CD | | 10 | MF | 1 | 0.1 | 10 | | | Chrysotile | |
| A | 8 | D12 | CD | 10 | 11 | F | 0.65 | 0.1 | 6.5 | | | Chrysotile | |
| A | 9 | A24 | AQ | 11 | 12 | F | 2 | 0.2 | 10 | | | Actinolite | |
| A | 10 | A22 | CD | 12 | 13 | F | 1.2 | 0.1 | 12 | | | Chrysotile | |
| A | 10 | A22 | CD | 13 | 14 | F | 2.5 | 0.1 | 25 | | | Chrysotile | |
| A | 10 | A22 | CD | 14 | 15 | F | 0.75 | 0.1 | 7.5 | | | Chrysotile | |
| A | 11 | A2 | CD | 15 | 16 | F | 1 | 0.1 | 10 | | | Chrysotile | |
| A | 11 | A2 | AQ | 16 | | MD1-1 | 7.5 | 7.5 | 1.0 | | | Actinolite | |
| A | 11 | A2 | AQ | | 17 | MF | 5.5 | 0.35 | 16 | | | Actinolite | |
| A | 12 | D32 | CD | 17 | 18 | F | 1 | 0.1 | 10 | | | Chrysotile | |
| A | 13 | D31 | | NSD | | | | | | | | | |
| A | 14 | D3 | | NSD | | | | | | | | | |
| A | 15 | A33 | | NSD | | | | | | | | | |
| A | 16 | A13 | CD | 18 | | MD1-1 | 12 | 10 | 1.2 | | | Chrysotile | |
| A | 16 | A13 | CD | | 19 | MB | 6 | 0.85 | 7.1 | | | Chrysotile | |
| A | 17 | D43 | | NSD | | | | | | | | | |
| A | 18 | A21 | CD | 19 | 20 | F | 0.75 | 0.1 | 7.5 | | | Chrysotile | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SFBB-H2-1PG-100604 *Lab/Cor Sample No.:* B4950 S22 A1

*Descripiton:* Duplicate Analysis of L/C# 041188-97 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 19 | A1 | | NSD | | | | | | | | | |
| A | 20 | D11 | CD | 20 | 21 | F | 1 | 0.1 | 10 | | | Chrysotile | |
| A | 21 | D23 | | NSD | | | | | | | | | |
| A | 22 | D41 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SFBB-H2-1PG-100604 *Lab/Cor Sample No.:* B4950 S23 A1

*Descripiton:* Duplicate Analysis of L/C# 041188-97 - Differnet Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | 1 | A24 | | NSD | | | | | | | | | |
| C | 2 | D4 | | NSD | | | | | | | | | |
| C | 3 | D24 | CDQ | 1 | | MD1-0 | 4.9 | 4.5 | 1.1 | | | Chrysotile | |
| C | 3 | D24 | CDQ | | 1 | MB | 3.8 | 0.3 | 13 | | | Mg, Si Chrysotile | |
| C | 4 | D44 | AQ | 2 | 2 | F | 1.3 | 0.25 | 5.2 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 5 | D42 | | NSD | | | | | | | | | |
| C | 6 | D22 | | NSD | | | | | | | | | |
| C | 7 | D2 | CDQ | 3 | 3 | B | 7.7 | 0.7 | 11 | | | Mg, Si Chrysotile | |
| C | 8 | A42 | | NSD | | | | | | | | | |
| C | 9 | A40 | CD | 4 | 4 | F | 0.7 | 0.05 | 14 | | | Chrysotile | |
| C | 10 | A20 | CD | 5 | 5 | F | 1.5 | 0.06 | 25 | | | Chrysotile | |
| C | 10 | A20 | CD | 6 | 6 | F | 1.6 | 0.05 | 32 | | | Chrysotile | |
| C | 11 | A10 | CD | 7 | 7 | F | 2.3 | 0.05 | 46 | | | Chrysotile | |
| C | 12 | D10 | | NSD | | | | | | | | | |
| C | 13 | D30 | AQ | 8 | 8 | F | 1.6 | 0.4 | 4.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 14 | D40 | CD | 9 | 9 | F | 1 | 0.05 | 20 | | | Chrysotile | |
| C | 15 | C41 | CD | 10 | | MD1-1 | 12.5 | 10 | 1.2 | | | Chrysotile | |
| C | 15 | C41 | CD | | 10 | MF | 12.5 | 0.05 | 250 | | | Chrysotile | |
| C | 16 | C21 | CD | 11 | 11 | F | 0.5 | 0.05 | 10 | | | Chrysotile | |
| C | 16 | C21 | CD | 12 | 12 | F | 0.6 | 0.05 | 12 | | | Chrysotile | |
| C | 16 | C21 | CD | 13 | 13 | B | 8 | 0.08 | 100 | | | Chrysotile | |
| C | 17 | B1 | | NSD | | | | | | | | | |
| C | 18 | B21 | | NSD | | | | | | | | | |
| C | 19 | B41 | | NSD | | | | | | | | | |
| C | 20 | B43 | AQ | 14 | 14 | F | 3.8 | 0.7 | 5.4 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 21 | C3 | | NSD | | | | | | | | | |
| C | 22 | C23 | AQ | 15 | 15 | F | 19 | 2.8 | 6.8 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| C | 22 | C23 | CD | 16 | 16 | F | 2.3 | 0.05 | 46 | | | Chrysotile | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SFBB-H2-3PG-100604 *Lab/Cor Sample No.:* B4950 S24 A1

*Descripiton:* Duplicate Analysis of L/C# 041188-99 - Reprepped Sample

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A11 | AQ | 1 | 1 | F | 10 | 1.2 | 8.3 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 2 | B24 | AQ | 2 | | MD1-0 | 7.5 | 5 | 1.5 | | | Actinolite | |
| A | 2 | B24 | AQ | | 2 | MF | 3 | 0.25 | 12 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 3 | B4 | | NSD | | | | | | | | | |
| A | 4 | C14 | | NSD | | | | | | | | | |
| A | 5 | C34 | | NSD | | | | | | | | | |
| A | 6 | C42 | AQ | 3 | 3 | F | 2.5 | 0.75 | 3.3 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 7 | C22 | AQ | 4 | 4 | F | 15 | 2.5 | 6.0 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 8 | C2 | | NSD | | | | | | | | | |
| A | 9 | B12 | | NSD | | | | | | | | | |
| A | 10 | B32 | | NSD | | | | | | | | | |
| A | 11 | B40 | | NSD | | | | | | | | | |
| A | 12 | B20 | AQ | 5 | 5 | F | 2.75 | 0.75 | 3.7 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 13 | A41 | | NSD | | | | | | | | | |
| A | 14 | A21 | | NSD | | | | | | | | | |
| A | 15 | D42 | AQ | 6 | 6 | F | 6.5 | 0.5 | 13 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| B | 16 | A41 | | NSD | | | | | | | | | |
| B | 17 | A21 | | NSD | | | | | | | | | |
| B | 18 | A1 | | NSD | | | | | | | | | |
| B | 19 | D11 | | NSD | | | | | | | | | |
| B | 20 | D31 | | NSD | | | | | | | | | |
| B | 21 | D40 | | NSD | | | | | | | | | |
| B | 22 | D20 | AQ | 7 | 7 | F | 9 | 2.5 | 3.6 | | | Mg,Al,Si,Ca,Fe Actinolite | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SFBB-H2-3PG-100604 *Lab/Cor Sample No.:* B4950 S25 A1

*Descripiton:* Duplicate Analysis of L/C# 041188-99 - Reprepped Sample

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A33 | | NSD | | | | | | | | | |
| A | 2 | A13 | | NSD | | | | | | | | | |
| A | 3 | D13 | AQ | 1 | 1 | F | 3 | 1 | 3.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 3 | D13 | AQ | 2 | 2 | F | 2.4 | 0.5 | 4.8 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 4 | D30 | | NSD | | | | | | | | | |
| A | 5 | A20 | AQ | 3 | 3 | F | 4.8 | 1.6 | 3.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 6 | B41 | | NSD | | | | | | | | | |
| A | 7 | B11 | | NSD | | | | | | | | | |
| A | 8 | C1 | | NSD | | | | | | | | | |
| A | 9 | C31 | AQ | 4 | 4 | F | 4 | 0.5 | 8.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 10 | C33 | | NSD | | | | | | | | | |
| A | 11 | B3 | AQ | 5 | 5 | F | 2.7 | 0.5 | 5.4 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 12 | B33 | | NSD | | | | | | | | | |
| B | 13 | B13 | | NSD | | | | | | | | | |
| B | 14 | C3 | AQ | 6 | 6 | F | 20 | 3 | 6.7 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 14 | C3 | AQ | 7 | 7 | F | 1.7 | 0.5 | 3.4 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 15 | C33 | | NSD | | | | | | | | | |
| B | 16 | C40 | | NSD | | | | | | | | | |
| B | 17 | B10 | | NSD | | | | | | | | | |
| B | 18 | A41 | | NSD | | | | | | | | | |
| B | 19 | A11 | | NSD | | | | | | | | | |
| B | 20 | D11 | | NSD | | | | | | | | | |
| B | 21 | D31 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* LC-AAMS-D12-100804 *Lab/Cor Sample No.:* B4950 S26 A1

*Descripiton:* Duplicate Analysis of L/C# 041210-49 - Different Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | B43 | | NSD | | | | | | | | | |
| A | 2 | B3 | AQ | 1 | | MD2-2 | 20 | 20 | 1.0 | | | Actinolite | |
| A | 2 | B3 | AQ | | 1 | MF | 7 | 1.5 | 4.7 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 2 | B3 | AQ | | 2 | MF | 5.5 | 1.2 | 4.6 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| A | 3 | C43 | CD | 2 | 3 | F | 1.8 | 0.1 | 18 | | | Chrysotile | |
| A | 4 | B21 | | NSD | | | | | | | | | |
| A | 5 | B1 | CD | 3 | 4 | F | 1 | 0.05 | 20 | | | Chrysotile | |
| A | 6 | C11 | | NSD | | | | | | | | | |
| A | 7 | C31 | AQ | 4 | | MD1-0 | 6 | 5 | 1.2 | | | Tremolite | |
| A | 7 | C31 | AQ | | 5 | MF | 3.5 | 0.35 | 10 | | | Mg,Al,Si,Ca Tremolite | |
| B | 8 | B34 | | NSD | | | | | | | | | |
| B | 9 | B14 | CD | 5 | 6 | F | 1.5 | 0.05 | 30 | | | Chrysotile | |
| B | 10 | B14 | AQ | 6 | 7 | F | 3 | 0.5 | 6.0 | | | Mg,Al,Si,Ca,Fe Actinolite | |
| B | 11 | C14 | | NSD | | | | | | | | | |
| B | 12 | B41 | | NSD | | | | | | | | | |
| B | 13 | B21 | | NSD | | | | | | | | | |
| B | 14 | B1 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* LC-AAMS-D12-100804 *Lab/Cor Sample No.:* B4950 S27 A1

*Descripiton:* Replicate Analysis of L/C# 041210-49 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | B43 | | NSD | | | | | | | | | |
| A | 2 | B3 | AQ | 1 | 1 | F | 6.5 | 1.5 | 4.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 3 | C32 | CD | 2 | 2 | F | 1.25 | 0.1 | 12 | | | Chrysotile | |
| A | 4 | B21 | CD | 3 | 3 | F | 1 | 0.08 | 12 | | | Chrysotile | |
| A | 5 | B1 | | NSD | | | | | | | | | |
| A | 6 | C11 | | NSD | | | | | | | | | |
| A | 7 | C31 | CD | 4 | | MD1-0 | 10 | 2 | 5.0 | | | Chrysotile | |
| A | 7 | C31 | CD | | 4 | MF | 3.5 | 0.1 | 35 | | | Chrysotile | |
| A | 7 | C31 | AQ | 5 | | MD1-0 | 5.5 | 5 | 1.1 | | | Actinolite | |
| A | 7 | C31 | AQ | | 5 | MF | 2.8 | 0.38 | 7.4 | | | Mg, Al, Si, Ca Actinolite | |
| B | 8 | B34 | | NSD | | | | | | | | | |
| B | 9 | B14 | CD | 6 | 6 | F | 1 | 0.1 | 10 | | | Chrysotile | |
| B | 9 | B14 | AQ | 7 | 7 | F | 3 | 0.35 | 8.6 | | | Actinolite | |
| B | 10 | C14 | | NSD | | | | | | | | | |
| B | 11 | B41 | | NSD | | | | | | | | | |
| B | 12 | B21 | CD | 8 | 8 | F | 1 | 0.15 | 6.7 | | | Chrysotile | |
| B | 13 | B1 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.
*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* LC-AAMS-D12-100804 *Lab/Cor Sample No.:* B4950 S28 A1
*Descripiton:* Replicate Analysis of L/C# 041210-49 - Reprepped Sample

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A41 | | NSD | | | | | | | | | |
| A | 2 | A21 | | NSD | | | | | | | | | |
| A | 3 | A1 | AQ | 1 | 1 | F | 3.8 | 0.7 | 5.4 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 3 | A1 | AQ | 2 | 2 | F | 3.5 | 0.8 | 4.4 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 3 | A1 | AQ | 3 | 3 | F | 6 | 1.5 | 4.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 4 | B1 | CD | 4 | 4 | F | 1.5 | 0.1 | 15 | | | Chrysotile | |
| A | 5 | C1 | | NSD | | | | | | | | | |
| A | 6 | C21 | CD | 5 | 5 | F | 1 | 0.08 | 12 | | | Chrysotile | |
| A | 7 | C41 | | NSD | | | | | | | | | |
| B | 8 | B31 | | NSD | | | | | | | | | |
| B | 9 | B11 | | NSD | | | | | | | | | |
| B | 10 | C1 | CD | 6 | | MD1-0 | 7 | 4.5 | 1.6 | | | Chrysotile | |
| B | 10 | C1 | CD | | 6 | MF | 1.5 | 0.1 | 15 | | | Chrysotile | |
| B | 10 | C1 | CD | 7 | | MD1-0 | 10 | 6 | 1.7 | | | Chrysotile | |
| B | 10 | C1 | CD | | 7 | MF | 0.58 | 0.1 | 5.8 | | | Chrysotile | |
| B | 11 | A31 | | NSD | | | | | | | | | |
| B | 12 | A11 | AQ | 8 | 8 | F | 6.5 | 1 | 6.5 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 13 | D1 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.
*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* LC-AAMS-D15-101104 *Lab/Cor Sample No.:* B4950 S29 A1
*Descripiton:* Replicate Analysis of L/C# 041210-58 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A13 | | NSD | | | | | | | | | |
| A | 2 | D3 | CDQ | 1 | 1 | B | 1.8 | 0.35 | 5.1 | | | Mg, Si Chrysotile | |
| A | 3 | D23 | | NSD | | | | | | | | | |
| A | 4 | D43 | | NSD | | | | | | | | | |
| A | 5 | D11 | AQ | 2 | | MD1-0 | 4.5 | 4 | 1.1 | | | Actinolite | |
| A | 5 | D11 | AQ | | 2 | MF | 2 | 0.38 | 5.3 | | | Mg, Al, si, Ca, Fe Actinolite | |
| A | 6 | C31 | | NSD | | | | | | | | | |
| A | 7 | B14 | CD | 3 | 3 | F | 1 | 0.08 | 12 | | | Chrysotile | |
| B | 8 | A42 | CD | 4 | 4 | F | 1 | 0.08 | 12 | | | Chrysotile | |
| B | 9 | B41 | | NSD | | | | | | | | | |
| B | 10 | C23 | CD | 5 | | MD1-0 | 2.8 | 0.6 | 4.7 | | | Chrysotile | |
| B | 10 | C23 | CD | | 5 | MB | 1.8 | 0.15 | 12 | | | Chrysotile | |
| B | 11 | B44 | | NSD | | | | | | | | | |
| B | 12 | C43 | CD | 6 | 6 | F | 0.5 | 0.08 | 6.2 | | | Chrysotile 30% blown out | |
| B | 13 | C42 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.
*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* LC-AAMS-D15-101104 *Lab/Cor Sample No.:* B4950 S30 A1
*Descripiton:* Duplicate Analysis of L/C# 041210-58 - Same Grid Openings

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A13 | | NSD | | | | | | | | | |
| A | 2 | D3 | AQ | 1 | 1 | F | 4 | 0.75 | 5.3 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| A | 2 | D3 | CD | 2 | 2 | B | 2 | 0.5 | 4.0 | | | Mg,Si Chrysotile | |
| A | 3 | D23 | CD | 3 | | MD1-0 | 1.5 | 1.5 | 1.0 | | | Chrysotile | |
| A | 3 | D23 | CD | | 3 | MF | 1 | 0.1 | 10 | | | Chrysotile | |
| A | 4 | D43 | | NSD | | | | | | | | | |
| A | 5 | D11 | | NSD | | | | | | | | | |
| A | 6 | C31 | | NSD | | | | | | | | | |
| A | 7 | B14 | CD | 4 | 4 | F | 1 | 0.1 | 10 | | | Chrysotile | |
| B | 8 | A42 | CD | 5 | | MD1-0 | 2 | 2 | 1.0 | | | Chrysotile | |
| B | 8 | A42 | CD | | 5 | MF | 1 | 0.1 | 10 | | | Chrysotile | |
| B | 9 | B41 | | NSD | | | | | | | | | |
| B | 10 | B44 | CD | 6 | | MD1-0 | 4 | 4 | 1.0 | | | Chrysotile | |
| B | 10 | B44 | CD | | 6 | MF | 2 | 0.05 | 40 | | | Chrysotile | |
| B | 11 | C23 | | NSD | | | | | | | | | |
| B | 12 | C43 | | NSD | | | | | | | | | |
| B | 13 | C42 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 050013R4

*Client:* Ecology and Environment, Inc.

*Project Name:* QC for Non Priority 041172 Samples

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* LC-AAMS-D15-101104 *Lab/Cor Sample No.:* B4950 S31 A1

*Descripiton:* Replicate Analysis of L/C# 041210-58 - Reprepped Sample

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A41 | CD | 1 | | MD1-0 | 2 | 0.6 | 3.3 | | | Chrysotile | |
| A | 1 | A41 | CD | | 1 | MF | 1.2 | 0.08 | 15 | | | Chrysotile | |
| A | 2 | A21 | | NSD | | | | | | | | | |
| A | 3 | A1 | | NSD | | | | | | | | | |
| A | 4 | D11 | CD | 2 | 2 | F | 2 | 0.1 | 20 | | | Chrysotile | |
| A | 5 | D31 | CDQ | 3 | 3 | B | 2 | 0.35 | 5.7 | | | Mg, Si Chrysotile | |
| A | 6 | C1 | CD | 4 | | MD3-0 | 7 | 4 | 1.8 | | | Chrysotile | |
| A | 6 | C1 | CD | | 4 | MB | 3.2 | 0.2 | 16 | | | Chrysotile | |
| A | 6 | C1 | CD | | 5 | MF | 2.2 | 0.1 | 22 | | | Chrysotile | |
| A | 6 | C1 | CD | | 6 | MB | 1.8 | 0.5 | 3.6 | | | Chrysotile | |
| A | 7 | C31 | | NSD | | | | | | | | | |
| B | 8 | A21 | | NSD | | | | | | | | | |
| B | 9 | A1 | | NSD | | | | | | | | | |
| B | 10 | D11 | CD | 5 | | MD1-0 | 8 | 5 | 1.6 | | | Chrysotile | |
| B | 10 | D11 | CD | | 7 | MF | 0.5 | 0.08 | 6.2 | | | Chrysotile | |
| B | 10 | D11 | AQ | 6 | 8 | F | 4.7 | 0.6 | 7.8 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 11 | D31 | | NSD | | | | | | | | | |
| B | 12 | B11 | CD | 7 | | MD1-0 | 4 | 3 | 1.3 | | | Chrysotile | |
| B | 12 | B11 | CD | | 9 | MF | 1 | 0.08 | 12 | | | Chrysotile | |
| B | 12 | B11 | AQ | 8 | 10 | F | 1.8 | 0.3 | 6.0 | | | Mg, Al, Si, Ca, Fe Actinolite | |
| B | 13 | C1 | | NSD | | | | | | | | | |

NSD = No Structures Detected
PAS = Primary Asbestos Structures
TAS = Total Asbestos Structures
AS>5 = Asbestos Structures > 5um
AFB>5 = Asbestos Fibers and Bundles > 5um
PCMEF-US = PCM Equivalent Fibers-US
PCMES-US = PCM Equivalent Structures-US
PCMEF-ISO = PCM Equivalent Fibers-ISO
PCMES-ISO = PCM Equivalent Structures-ISO

CF = Cleavage Fragments
TS = Transitional Structures

PSAS 5-10 = PROTOCOL ASB STRUCS 5-10
PSAS >10 = PROTOCOL ASB STRUCS >10
PSAS TOT = PROTOCOL ASB STRUCS TOTAL
PSCH 5-10 = PROTOCOL CHRYS STRUCS 5-10
PSCH >10 = PROTOCOL CHRYS STRUCS >10
PSCH TOT = PROTOCOL CHRYS STRUCS TOTAL
PSAM 5-10 = PROTOCOL AMPH STRUCS 5-10
PSAM >10 = PROTOCOL AMPH STRUCS >10
PSAM TOT = PROTOCOL AMPH STRUCS TOTAL

PChS = Primary Chrysotile Structures
PAmS = Primary Amphibole Structures

TAS_AHRA = AHERA-like Total Strucs 3:1
AS>5_AHRA = AHERA-like Asb Strucs >5 and 3:1
AS5-10_AHRA = AHERA-like Asb Strucs 5 - 10 and 3:1
AS>10_AHRA = AHERA-like Asb Strucs >10 and 3:1
TOS_AHRA = Total Other Amphibole Strucs 3:1
OS>5_AHRA = Other Amphibole Struc >5 and 3:1
OS5-10_AHRA = Other Amphibole Struc 5 - 10 and 3:1
OS>10_AHRA = Other Amphibole Strucs >10 and 3:1

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 041172R6

*Client:* Ecology and Environment, Inc.

*Project Name:* Site# 0440.01CP, 0440.01CP-0001-FINAL RESULTS

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SVBA-H2-4FD-100204 *Lab/Cor Sample No.:* B4760 S77 A1

*Descripiton:*

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A32 | | NSD | | | | | | | | | |
| A | 2 | A12 | | NSD | | | | | | | | | |
| A | 3 | D2 | | NSD | | | | | | | | | |
| A | 4 | D22 | | NSD | | | | | | | | | |
| A | 5 | C40 | | NSD | | | | | | | | | |
| A | 6 | C20 | | NSD | | | | | | | | | |
| A | 7 | B10 | | NSD | | | | | | | | | |
| A | 8 | B30 | | NSD | | | | | | | | | |
| A | 9 | B22 | | NSD | | | | | | | | | |
| A | 10 | B2 | | NSD | | | | | | | | | |
| A | 11 | C12 | | NSD | | | | | | | | | |
| A | 12 | C32 | | NSD | | | | | | | | | |
| A | 13 | C42 | | NSD | | | | | | | | | |
| B | 14 | A33 | | NSD | | | | | | | | | |
| B | 15 | A13 | | NSD | | | | | | | | | |
| B | 16 | D3 | | NSD | | | | | | | | | |
| B | 17 | D23 | | NSD | | | | | | | | | |
| B | 18 | D43 | | NSD | | | | | | | | | |
| B | 19 | C40 | | NSD | | | | | | | | | |
| B | 20 | C20 | AZQ | 1 | 1 | F | 4.5 | 0.6 | 7.5 | 1169 | 857 | Mg,Al, Si, Ca, Fe Actinolite Zone Axis - [ 5 -1 2] KM | TAS_AHRA |
| B | 21 | B10 | ADQ | 2 | 2 | F | 7 | 1 | 7.0 | | | Mg,Al, Si, Ca, Fe Actinolite | AS>5, AFB>5, PCMEF-US, PCMES-US, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA |
| B | 22 | B30 | | NSD | | | | | | | | | |
| B | 23 | B12 | | NSD | | | | | | | | | |

# *Lab/Cor, Inc.*

*A Professional Service Corporation in the Northwest*

*Report #* 041172R6

*Client:* Ecology and Environment, Inc.

*Project Name:* Site# 0440.01CP, 0440.01CP-0001-FINAL RESULTS

## TEM ASBESTOS STRUCTURE COUNT - RAW DATA

*Sample No.:* SVBA-H2-5FD-100204 *Lab/Cor Sample No.:* B4760 S78 A1

*Descripiton:*

| Gr | No. | Loc. | ID | Prim | Tot | Class | Len | Wid | Asp | Neg# | EDS# | Comment | Count Categories |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | A42 | AZQ | 1 | | MD1-1 | 5.7 | 1 | 5.7 | | | Actinolite | AS>5, PCMES-US, TAS_AHRA, AS>5_AHRA, AS5-10_AHRA |
| A | 1 | A42 | AZQ | | 1 | MF | 5.7 | 0.3 | 19 | 1171 | 15564 | Mg,Al, Si, Ca, Fe Actinolite Zone Axis - [ 3 -1 -10] KM | AFB>5, PCMEF-US, PSAS 5-10, PSAS TOT, PSAM 5-10, PSAM TOT |
| A | 2 | A22 | | NSD | | | | | | | | | |
| A | 3 | A2 | | NSD | | | | | | | | | |
| A | 4 | D12 | | NSD | | | | | | | | | |
| A | 5 | D32 | | NSD | | | | | | | | | |
| A | 6 | C41 | | NSD | | | | | | | | | |
| A | 7 | C21 | | NSD | | | | | | | | | |
| A | 8 | C1 | | NSD | | | | | | | | | |
| A | 9 | B11 | | NSD | | | | | | | | | |
| A | 10 | B31 | | NSD | | | | | | | | | |
| A | 11 | B43 | ADQ | 2 | 2 | F | 4 | 1 | 4.0 | | | Mg,Al, Si, Ca, Fe Actinolite | TAS_AHRA |
| A | 12 | B23 | | NSD | | | | | | | | | |
| B | 13 | B43 | | NSD | | | | | | | | | |
| B | 14 | B23 | | NSD | | | | | | | | | |
| B | 15 | B3 | | NSD | | | | | | | | | |
| B | 16 | C13 | | NSD | | | | | | | | | |
| B | 17 | C33 | | NSD | | | | | | | | | |
| B | 18 | B41 | ADQ | 3 | 3 | F | 1.3 | 0.3 | 4.3 | | | Mg, Al, Si, Ca, Fe Actinolite | TAS_AHRA |
| B | 19 | B21 | | NSD | | | | | | | | | |
| B | 20 | B1 | | NSD | | | | | | | | | |
| B | 21 | C11 | | NSD | | | | | | | | | |
| B | 22 | C31 | | NSD | | | | | | | | | |
| B | 23 | D1 | | NSD | | | | | | | | | |

## QC Summary Sheet

**Project:** El Dorado - Non Priority
**LC Job No.:** 041172, 041174, 041188, 041191, 041210
**Total Samples:** 123
**Total QC Samples:** 31
**Average GO Area:** 0.01449

| QC Type | Tally |
|---|---|
| Replicate - Same GO's | 7 |
| Replicate - Reprep | 6 |
| Duplicate - Same GO's | 7 |
| Duplicate - Different Grids | 5 |
| Duplicate - Reprep | 6 |
| Total | 31 |

| Original Analyst | Original LC Number | Original Client Number | Reference LC Num | QC Analyst | QC Type | Primary Structures: Original Counts Total | Original Counts No. GO's | Test Counts Total | Test Counts No. GO's | 95% Poisson Confidence Limits: Lower Total | Upper Total | QC Result |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KM | 041172-55 | CC2-H8-2CT-100304 | 050013-01 | DW | Duplicate - Same GO's | 11 | 25 | 6 | 25 | 5.49 | 19.68 | PASS |
| JH | 041172-77 | SVBA-H2-4FD-100204 | 050013-02 | JH | Replicate - Same GO's | 2 | 23 | 2 | 23 | 0.24 | 7.23 | PASS |
| JH | 041172-77 | SVBA-H2-4FD-100204 | 050013-03 | KM | Duplicate - Same GO's | 2 | 23 | 3 | 23 | 0.24 | 7.23 | PASS |
| JH | 041172-77 | SVBA-H2-4FD-100204 | 050013-04 | DW | Duplicate - Reprep | 2 | 23 | 3 | 23 | 0.24 | 7.23 | PASS |
| JH | 041172-77 | SVBA-H2-4FD-100204 | 050013-05 | TM | Duplicate - Different Grids | 2 | 23 | 6 | 23 | 0.24 | 7.23 | PASS |
| KM | 041172-78 | SVBA-H2-5FD-100204 | 050013-06 | KM | Replicate - Same GO's | 3 | 23 | 2 | 23 | 0.62 | 8.77 | PASS |
| KM | 041172-78 | SVBA-H2-5FD-100204 | 050013-07 | KM | Replicate - Reprep | 3 | 23 | 3 | 23 | 0.62 | 8.77 | PASS |
| KM | 041172-78 | SVBA-H2-5FD-100204 | 050013-08 | JH | Duplicate - Same GO's | 3 | 23 | 3 | 23 | 0.62 | 8.77 | PASS |
| KM | 041172-78 | SVBA-H2-5FD-100204 | 050013-09 | DW | Duplicate - Reprep | 3 | 23 | 5 | 22 | 0.62 | 8.77 | PASS |
| KM | 041174-23 | AAMS-D04-093005 | 050013-10 | KM | Replicate - Same GO's | 12 | 15 | 8 | 15 | 6.20 | 20.96 | PASS |
| KM | 041174-23 | AAMS-D04-093005 | 050013-11 | KM | Replicate - Reprep | 12 | 15 | 7 | 15 | 6.20 | 20.96 | PASS |
| JH | 041174-27 | AAMS-D107-100304 | 050013-12 | JH | Replicate - Same GO's | 12 | 12 | 9 | 12 | 6.20 | 20.96 | PASS |
| JH | 041174-27 | AAMS-D107-100304 | 050013-13 | JH | Replicate - Reprep | 12 | 12 | 7 | 12 | 6.20 | 20.96 | PASS |
| KM | 041188-54 | BIK-H2-4TR-100504 | 050013-14 | JH | Duplicate - Different Grids | 11 | 23 | 10 | 23 | 5.49 | 19.68 | PASS |
| DW | 041188-65 | JOGA-H2-1TR-100604 | 050013-15 | DW | Replicate - Same GO's | 15 | 22 | 14 | 22 | 8.40 | 24.74 | PASS |
| DW | 041188-65 | JOGA-H2-1TR-100604 | 050013-16 | DW | Replicate - Reprep | 15 | 22 | 10 | 22 | 8.40 | 24.74 | PASS |
| DW | 041188-65 | JOGA-H2-1TR-100604 | 050013-17 | KM | Duplicate - Same GO's | 15 | 22 | 14 | 22 | 8.40 | 24.74 | PASS |
| DW | 041188-65 | JOGA-H2-1TR-100604 | 050013-18 | JH | Duplicate - Reprep | 15 | 22 | 11 | 22 | 8.40 | 24.74 | PASS |
| DW | 041188-65 | JOGA-H2-1TR-100604 | 050013-19 | JH | Duplicate - Different Grids | 15 | 22 | 13 | 22 | 8.40 | 24.74 | PASS |
| JH | 041188-78 | NFB-H2-3PG-100504 | 050013-20 | KM | Duplicate - Same GO's | 6 | 22 | 7 | 22 | 2.20 | 13.06 | PASS |
| KM | 041188-97 | SFBB-H2-1PG-100604 | 050013-21 | DW | Duplicate - Reprep | 16 | 22 | 20 | 22 | 9.15 | 25.98 | PASS |
| KM | 041188-97 | SFBB-H2-1PG-100604 | 050013-22 | DW | Duplicate - Same GO's | 16 | 22 | 20 | 22 | 9.15 | 25.98 | PASS |
| KM | 041188-97 | SFBB-H2-1PG-100604 | 050013-23 | JH | Duplicate - Different Grids | 16 | 22 | 16 | 22 | 9.15 | 25.98 | PASS |
| KM | 041188-99 | SFBB-H2-3PG-100604 | 050013-24 | DW | Duplicate - Reprep | 12 | 22 | 7 | 22 | 6.20 | 20.96 | PASS |
| KM | 041188-99 | SFBB-H2-3PG-100604 | 050013-25 | JH | Duplicate - Reprep | 12 | 22 | 7 | 21 | 6.20 | 20.96 | PASS |
| KM | 041210-49 | LC-AAMS-D12-100804 | 050013-26 | DW | Duplicate - Different Grids | 10 | 13 | 6 | 14 | 4.80 | 18.39 | PASS |
| KM | 041210-49 | LC-AAMS-D12-100804 | 050013-27 | KM | Replicate - Reprep | 10 | 13 | 8 | 13 | 4.80 | 18.39 | PASS |
| KM | 041210-49 | LC-AAMS-D12-100804 | 050013-28 | KM | Replicate - Same GO's | 10 | 13 | 8 | 13 | 4.80 | 18.39 | PASS |
| KM | 041210-58 | LC-AAMS-D15-101104 | 050013-29 | KM | Replicate - Same GO's | 9 | 13 | 6 | 13 | 4.12 | 17.09 | PASS |
| KM | 041210-58 | LC-AAMS-D15-101104 | 050013-30 | DW | Duplicate - Same GO's | 9 | 13 | 6 | 13 | 4.12 | 17.09 | PASS |
| KM | 041210-58 | LC-AAMS-D15-101104 | 050013-31 | KM | Replicate - Reprep | 9 | 13 | 8 | 13 | 4.12 | 17.09 | PASS |

**QC Parameters**
**Pass** - Test value (s/mm2) between reference upper and lower 95% confidence limits, inclusive
**Fail** - Test value (s/mm2) outside reference upper and lower 95% confidence limits, exclusive

The hard copy of the additional information for this data package including:

-QC Summary
-NVLAP Certification
-Representative Chrysotile Images
-Nov 2004 Batta Round Robin Results
-QC Package (microscope logs and calibrations)

can be found in the file for Data Package 041172R6.

The information can also be found on the CD under

From Lab\Data Package\QC and Additional Information