485958

URS

December 1, 2000

US EPA Region VIII
Attn. Mr. Paul Peronard, 8EPR-EP
On-Scene Coordinator
999 18th Street, Suite 500
Denver, CO. 80202-2466

501 Mineral Avenue
Libby, MT 59923

Dear Mr. Peronard:

Progress Report for the Week of November 24 – November 30, 2000

The Weekly Progress Report for the period of November 17 – November 34, 2000 was submitted to the EPA and State on November 21, 2000.

At Export Plant

- An erosion inspection of the Export Plant site is conducted daily.
- Dust control measures continue to be utilized according to the Dust Control Plan (Appendix F).
- Soil removal activities have been completed at the west side of the site including minor excavation work around the rail spur that is to remain.
- Excavation has been completed to 18 inches in grids T,U,V,W,X,P, and E. Excavation is currently underway in grids N and O.
- Results of confirmation soil samples have been received for grids Z, Y, Q, R, H, I, G, AA, and AB.
- Addendum No. 11, to reduce the size of the exclusion zone at the eastern end of the Export Plant site, was approved on November 20, 2000.
- Currently two excavators and 11 trucks are participating in soil excavation and hauling.
- Through November 30, 2000, 375 truckloads (approximately 7,500 cubic yards) of back-fill material from the Plum Creek gravel pit have been delivered to the Export Plant site. Two track dozers are currently working to grade the area to the original grade.
- Site surveying continues as necessary, at the eastern end of the Export Plant site to determine material volume excavated.

At Millwork West

- The planer run by Millwork West personnel was completed.

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707 17th Street, Suite 3400
Denver, CO 80202
Tel: 303.292.0800
Fax: 303.292.5860

- A quarter page add indicating the Millwork West move continued in The Western News newspaper.
- A television add indicating the Millwork West move continued to run.

At Mine Disposal Site

- URS continues to dispose of soil excavated from the Export Plant at the area adjacent to the Glory Hole at the mine.

Problems and Issues

- Addendum No. 10 concerning back-fill source and specifications awaits formal approval.
- Addendum No. 11 to reduce the size of the exclusion zone at the eastern end of the Export Plant site was approved on November 20, 2000.
- URS has received a permit from MDEQ to locate the excavated oily soil (approximately 70 yards) to a new land farm at the mine.

Analytical Data Received

- No new TEM data has been received. PCM results for all perimeter, area, and personal samples are attached for November 20-21, 2000 and November 28-30, 2000.
- Results of confirmation soil samples have been received for grids Z, Y, Q, R, H, I, G, AA, and AB.

Material Movement and Disposal

- No debris was disposed of at the toe of the 12th level dump at the mine during the past week. To date 183 truckloads of debris have been disposed of at the mine site.
- 266 truckloads of soil excavated from the Export Plant site were disposed of at the area adjacent to the Glory Hole at the mine during the past week (including 74 truck loads from November 21, 2000). Through November 30, 2000 1,699 truckloads of soil have been disposed of at the mine site.
- Through November 30, 2000 approximately 7,500 cubic yards of material have been delivered to the Export Plant site from the Plum Creek gravel pit.

Health and Safety

- All visitors, workers, and contractors conducting activities within the mine site must adhere to level C PPE restrictions.
- Koch Environmental continues to collect perimeter and area air samples at the Export Plant. Personal air samples are also being collected from the truck drivers and from workers at the mine disposal areas.
- No accidents or injuries.

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Anticipated Developments Next Week

- Excavation activities will continue at the eastern-end of the Export Plant site.
- Soil confirmation samples will be collected as excavation within grids is completed.
- Back-filling the Export Plant will continue.
- Hand-excavation will be completed around the railroad spur that is to remain.

Planned Resolutions or Anticipated Problems

- URS has received a permit from MDEQ to locate the excavated oily soil (approximately 70 yards) to a new land farm at the mine.

Schedule

- It is anticipated that soil excavation activities at the Export Plant will be completed by December 6, 2000.
- It is anticipated that backfilling at the Export Plant will be completed by December 15, 2000.
- A building restoration plan will be completed by January 8, 2001.

Respectfully,

Jim Stout
Project Coordinator
Libby Asbestos Site

Attachments

URS Corporation
707 17th Street, Suite 3400
Denver, CO 80202
Tel: 303.292.0800
Fax: 303.292.5860

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT:	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/20/00	URS Rulison PROJECT #: 72 1051-001	Tim Eich	W.R. Grace Vermiculite Plant- Plant wide WORK AREA: Library, MT	Patrick McGowan ANALYSIS BY: P. McGowan

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ☑ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ ____ Method: ____	Rotameter ☑ ID ____ Other: ____	___ 0.8 um 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other .45 TEM	✓ MCE <0.45um 25mm ___ PC <0.45um 37mm Mfr. ____ Lot No. 15016	✓ 385 mm² ___ mm² ___ NA	✓ 0.00785 mm² ___ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ___F/cc ___other ___ppm ___mg/M³
—	~~Field Blank~~	—	—	—	—	—	—	—	—	—	—	—	—
—	~~Field Blank~~	—	—	—	—	—	—	—	—	—	—	—	—
P13	EX	Inside Truck - worn by - Doug Carr	Loading trucks with soil on the expect	0715	0743	32	2.00	2.00	2.00	64.00	0.042	1/100	<LOQ
P14	P	Inside Truck - worn by Fred McDougall	Plant is dumping them to the mine.	0727	1653	566	2.00	2.00	2.00	1132.00	0.002	12/100	0.005
P15	↓	Inside Truck - worn by - Luis Bauer	↓	0726	1641	555	2.00	0.50	1.25	693.75	0.004	14/100	0.010
P16	↓	Inside truck - worn by - Doug Carr	↓	0743	1643	540	2.00	2.00	2.00	1080.00	0.002	15/100	0.007
Blind Recount BA	Recount	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank

Key:

Sample Type:
- P = Personal
- Ex = Excursion
- IWA = Inside Work Area
- OWA = Outside Work Area
- BAK = Background
- A = Ambient Air
- HEX = HEPA Exhaust
- CL = Clearance Sample

Activity:
- PREP = Work Area Preparation
- REM - Removal
- GB - Glovebag
- FC - Final Cleaning
- BO = Bagout
- TD = Tear Down
- PP - Paint Prep

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Project No. 805169
File Code No. 4.5.5.2.245
Doc No. ____

KOCH ENVIRONMENTAL HEALTH, INC.
7342 South Moore Court
Littleton, CO 80127
Phone: (303) 932-8484 FAX: (303) 932-8585

CONTRACTOR PERSONNEL AIR SAMPLING SUMMARY

Client: URS Radian **Project:** 21001-001	**Project Contact:** Tim Gish	**Location:** WR Grace Vermiculite Plant Plant wide - Libby, MT	**KEH Rep:** Patrick McGurren **Analysis By:** Patrick McGurren

Date: 11/20/00	**Calibration:** ✓ Rotameter ____ ID ____ Other ____ ID	**Microscope Field Area:** ✓ 0.00785 sq mm ____ other ____ sq mm	**PCM Filter:** ✓ 0.8 um25mm Mft.____ ____ 0.8 um37mm Lot#____	**Other Media:** ____ Type Mft.____ ____ Type Mft.____

Name: Doug Carr **SSN:** 101265	**Name:** Fred McDougell **SSN:** 729-14-3207	**Name:** Luis Burrell **SSN:** 061138	**Name:** — **SSN:**

TOTAL				TOTAL				TOTAL				TOTAL			
Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc
P13	32	64.00	<LOQ	P14	566	1132.00	0.005	P15	555	693.75	0.010				
P16	540	1080.00	0.007												

TWA: 0.007 f/cc

Comments: 0.032 + 3.78/572
3.812/572

TWA: 0.005 f/cc

Comments: 2.83/566

TWA: 0.010 f/cc

Comments: 5.55/555

TWA: N/a

Comments:

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Project No. 805169
File Code No. 4.5.6.2.246
Doc No.

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE: 11/20/00	KEH PROJECT #: 21001-001	KEH REP: Patrick McGurren
	MICROSCOPE ID #: 1	ANALYST: Patrick McGurren

SAMPLE #	FIBER COUNT	F/N	F/N - B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
~~Field Blank~~	—	—	—	—	—	—	—	—
~~Field Blank~~	—	—	—	—	—	—	—	—
P13	1.0	1/100	1/100/.00785	1.27	64.00	0.042	<LOQ	—
P14	12.0	12/100	12/100/.00785	15.29	1132.00	0.002	0.005	—
P15	14.0	14/100	14/100/.00785	17.83	693.75	0.004	0.010	—
P16	15.0	15/100	15/100/.00785	19.11	1080.00	0.002	0.007	—
Blind Recount: B01	0	0/100	—	—	—	—	—	Field Blank

SAMPLING INFORMATION:

Effective Collection Area of Filter:	Microscope Field Area:	NIOSH 7400 Method A Rules ✓
✓ 385 mm², 25 mm filter	✓ 0.00785 mm²	
___ 855 mm², 37 mm filter	___ other (list)	Other Method ___

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ focus on samples

ANALYST INFORMATION:

DATE: 11/21/00 ANALYST: Patrick McGurren SIGNATURE: [signature]

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Project No. 805169
File Code No. 4.5.6.2.247
Doc No. ___

KEH97/FORMS/FIBERFRM

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT:	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/20/00	PROJECT #: 21001-001	Tim Gish	W.R. Grace, Vermiculite Plant - Plant wide WORK AREA: Libby, MT	Patrick McGowan ANALYSIS BY: P. McGowan

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ☒ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ _____ Method: _____	Rotameter ☑ ID _____ Other: _____	___ 0.8 um 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other .45 TEM	✓ MCE <0.45um 25mm ___ PC <0.45um 37mm Mfl. _____ Lot No. 1506	✓ 385 mm² _____ mm² ___ NA	✓ 0.00785 mm² _____ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ✓ F/cc ___ other ___ ppm ___ mg/M³
BO1	Field Blank	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank
BO2	Field Blank	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank
PM03	Perimeter	Location #1 - North of Pole Barn - on perimeter		0820	1555	458	5.00	5.00	5.00	2290.00	0.001	3/100	LOQ
PM04		Location #2 - NW of Planer building - on perimeter		0827	1602	455	5.00	5.00	5.00	2275.00	0.001	1/100	< LOQ
PM05		Location #3 - West of Planer Building - on perimeter		0830	1605	455	5.50	6.00	5.75	2616.25	0.001	2.5/100	< LOQ
PM06		Location #4 - SW of Planer Building - on perimeter		0837	1613	456	5.00	5.00	5.00	2280.00	0.001	3.5/100	LOQ
PM07		Location #5 - South of warehouse building - on perimeter		0840	1615	455	5.00	5.00	5.00	2275.00	0.001	1.5/100	< LOQ
PM08		Location #6 - NE of Lumber storage bldg. - on perimeter		0849	1619	450	5.00	5.50	5.25	2362.50	0.001	3/100	LOQ
PM09		Location #7 - NE corner of property - on stop sign - Highway 37		0851	1621	450	5.00	6.00	5.50	2475.00	0.001	5/100	LOQ
PM10		100' N. of NW corner of Pole Barn		0858	1549	471	5.00	5.00	5.00	2355.00	0.001	4/100	LOQ
~~Blind Recount~~ PM11		SW corner of Pole Barn		0900	1552	412	5.00	5.00	5.00	2060.00	0.001	4/100	LOQ
PM12		40' SW of Lumber Storage Building		0912	1539	387	5.00	5.00	5.00	1935.00	0.001	4.5/100	LOQ

Key:

Sample Type: P = Personal; Ex = Excursion; IWA = Inside Work Area; OWA = Outside Work Area; BAK = Background; A = Ambient Air; HEX = HEPA Exhaust; CL = Clearance Sample

Activity: PREP = Work Area Preparation; REM - Removal; GB - Glovebag; FC - Final Cleaning; BO = Bagout; TD = Tear Down; PP - Paint Prep

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Project No. 805169
File Code No. A.5.b.A.227
Doc No. _____

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE: 11/20/00	KEH PROJECT #: 21001-001	KEH REP: Patrick McGovern
	MICROSCOPE ID #: 1	ANALYST: Patrick McGovern

SAMPLE #	FIBER COUNT	F/N	F/N · B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
Field Blank B01	0	0/100	—	—	—	—	—	Field Blank
Field Blank B02	0	0/100	—	—	—	—	—	Field Blank
PM03	3.0	3/100	3/100/.00785	3.82	2290.00	0.001	LOQ	—
PM04	1.0	1/100	1/100/.00785	1.27	2275.00	0.001	<LOQ	—
PM05	2.5	2.5/100	2.5/100/.00785	3.18	2616.25	0.001	<LOQ	—
PM06	3.5	3.5/100	3.5/100/.00785	4.46	2280.00	0.001	LOQ	—
PM07	1.5	1.5/100	1.5/100/.00785	1.91	2275.00	0.001	<LOQ	—
PM08	3.0	3.0/100	3.0/100/.00785	3.82	2362.50	0.001	LOQ	—
PM09	5.0	5.0/100	5.0/100/.00785	6.37	2475.00	0.001	LOQ	—
PM10	4.0	4.0/100	4/100/.00785	5.10	2355.00	0.001	LOQ	—
~~Blind Recount~~ PM11	4.0	4/100	4/100/.00785	5.10	2060.00	0.001	LOQ	—
PM12	4.5	4.5/100	4.5/100/.00785	5.73	1935.00	0.001	LOQ	—

SAMPLING INFORMATION:

Effective Collection Area of Filter:	Microscope Field Area:	NIOSH 7400 Method A Rules ✓
✓ 385 mm², 25 mm filter	✓ 0.00785 mm²	
855 mm², 37 mm filter	other (list)	Other Method

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ focus on samples

ANALYST INFORMATION:

DATE: 11/21/00 ANALYST: Patrick McGovern SIGNATURE: [signature]

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Project No. 805169
File Code No. 4.5.6.4.228
Doc No.

KEH97/FORMS/FIBERFRM

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT:	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/21/00	URS Radian PROJECT #: 21001-001	Tim Gish	WR Grace Vermiculite Plant - Plant wide WORK AREA: Libby, MT	Patrick McGurren ANALYSIS BY: P. McGurren

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ☑ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ _____ Method: _____	Rotameter ☑ ID _____ Other: _____	___ 0.8 um 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other 45 TEM	___ MCE <0.45um 25mm ___ PC <0.45um 37mm Mfl. _____ Lot No. 15016	___ 385 mm² ___ mm² ___ NA	___ 0.00785 mm² ___ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ___ F/cc ___ other ___ ppm ___ mg/M³
—	~~Field Blank~~	—	—	—	—	—	—	—	—	—	—	—	—
—	~~Field Blank~~	—	—	—	—	—	—	—	—	—	—	—	—
P13	P	Inside Truck worn by - Bob Sanders	Loading trucks with soil @ export plant & dumping them @ mine.	0842	1518	396	2.00	2.00	2.00	792.00	0.003	5.0/100	< LOQ
P14	P	Inside truck - worn by - Ben Cook		0935	1521	406	2.00	1.50	1.75	710.50	0.004	100.0/58	0.118
P15	P	Inside truck - worn by - Wolfgang Jackson	↓	0845	1519	394	2.00	0.50	1.25	492.50	0.005	6.0/100	0.005
~~P16 Pump~~													
Blind Recount													

Key:

Sample Type:
- P = Personal
- Ex = Excursion
- IWA = Inside Work Area
- OWA = Outside Work Area
- BAK = Background
- A = Ambient Air
- HEX = HEPA Exhaust
- CL = Clearance Sample

Activity:
- PREP = Work Area Preparation
- REM - Removal
- GB - Glovebag
- FC - Final Cleaning
- BO = Bagout
- TD = Tear Down
- PP - Paint Prep

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Project No. 805169

File Code No. 4.5.6.2.248

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KOCH ENVIRONMENTAL HEALTH, INC.
7342 South Moore Court
Littleton, CO 80127
Phone: (303) 932-8484 FAX: (303) 932-8585

CONTRACTOR PERSONNEL AIR SAMPLING SUMMARY

Client: URS Radian **Project:** 21001-001	**Project Contact:** Tim Gish	**Location:** WR Grace Vermiculite Plant - Plant wide Libby - MT	**KEH Rep:** Patrick McGurran **Analysis By:** Patrick McGurran

Date:	**Calibration:**	**Microscope Field Area:**	**PCM Filter:**	**Other Media:**
11/21/00	✓ Rotameter ____ ID ____ Other ____ ID	✓ 0.00785 sq mm ____ other ____ sq mm	✓ 0.8 um25mm Mft.____ ____ 0.8 um37mm Lot#____	____ Type Mft.____ ____ Type Mft.____

Name: Bob Sanders **SSN:** 550-44-0403	**Name:** Ben Cook **SSN:** 544-40-9834	**Name:** Wolfgang Jackson **SSN:** 508-96-451	**Name:** — **SSN:**

TOTAL				TOTAL				TOTAL				TOTAL			
Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc
P13	396	792.00	<LOQ	P14	406	710.50	0.118	P15	394	492.50	0.005				

TWA: LOQ (0.001 f/cc)	TWA: 0.100 f/cc	TWA: 0.004 f/cc	TWA: N/a
Comments: 0.396/480	Comments: 47.908/480	Comments: 1.97/480	Comments:

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File Code No. 4.5.b.2.2489
Doc No.

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE:	KEH PROJECT #: 21001-001	KEH REP: Patrick McGurren
11/21/00	MICROSCOPE ID #: 1	ANALYST: Patrick McGurren

SAMPLE #	FIBER COUNT	F/N	F/N - B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
~~Field Blank~~	—	—	—	—	—	—	—	—
~~Field Blank~~	—	—	—	—	—	—	—	—
P13	5.0	5.0/100	7.0/100/.00785	5.10	792.00	0.003	<LOQ	—
P14	100.0	100/58	99.0/58/.00785	217.44	710.50	0.004	0.118	—
P15	6.0	6.0/100	5.0/100/.00785	6.37	492.50	0.005	0.005	—
~~Blind Recount~~	—	—	—	—	—	—	—	—

SAMPLING INFORMATION:

Effective Collection Area of Filter:	Microscope Field Area:	NIOSH 7400 Method A Rules ✓
✓ 385 mm², 25 mm filter	✓ 0.00785 mm²	
855 mm², 37 mm filter	other (list)	Other Method

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ focus on samples

ANALYST INFORMATION:

DATE: 11/28/00 ANALYST: Patrick McGurren SIGNATURE: [signature]

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Project No. 805169

File Code No. 4.5.5.2.250

Doc No.

KEH97/FORMS/FIBERFRM

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT:	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/21/00	URS Radian PROJECT #: 21001-001	Tim Gish	WR Grace Vermiculite Plant- Plant wide WORK AREA: Libby, MT	Patrick McGurren ANALYSIS BY: P. McGurren

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ☑ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ _____ Method: _____	Rotameter ☑ ID _____ Other: _____	___ 0.8 um 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other: .45 TEM	✓ MCE <0.45um 25mm ___ PC <0.45um 37mm Mfr. _____ Lot No. 1506	✓ 385 mm² ___ mm² ___ NA	✓ 0.00785 mm² ___ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ___ f/cc ___ other ___ ppm ___ mg/M³
BO1	Field Blank	—	—	—	—	—	—	—	—	—	—	0.5/100	Field Blank
BO2	Field Blank	—	—	—	—	—	—	—	—	—	—	1.5/100	Field Blank
PM03	Perimeter	Location #1 - North of Pole Barn - on perimeter	—	0822	1523	421	5.50	5.00	5.25	2210.25	0.001	6.0/100	0.001
PM04		Location #2 - NW of Planer building - on perimeter	—	0824	1527	423	5.00	5.00	5.00	2115.00	0.001	3.0/100	< LOQ
PM05		Location #3 - west of Planer building - on perimeter	—	0827	1528	421	6.00	6.00	6.00	2526.00	0.001	5.0/100	LOQ
PM06		Location #4 - SW of Planer building - on perimeter	—	0853	1546	~~475~~ 413	5.00	5.00	5.00	2065.00	0.001	2.0/100	< LOQ
PM07		Location #5 - South of warehouse building - on perimeter	—	0856	1549	413	5.00	5.00	5.00	2065.00	0.001	1.0/100	< LOQ
PM08		Location #6 - NE of Lumber storage building on perimeter	—	0900	1552	412	5.00	5.50	5.25	2163.00	0.001	2.0/100	< LOQ
PM09		Location #7 - NE corner of Property - on stop sign - Highway 37	—	0903	1554	411	5.00	6.00	5.50	2260.50	0.001	4.0/100	LOQ
PM10		100' N. of NW corner of Pole Barn - ~~on perimeter~~	—	0829	1531	422	5.00	5.50	5.25	2215.50	0.001	6.5/100	0.001
Blind Recount PM11		SW corner of Pole Barn	—	0832	1534	422	5.00	5.00	5.00	2110.00	0.001	1.5/100	< LOQ
PM12		40' SW of Lumber storage building	—	0915	1605	410	5.00	5.00	5.00	2050.00	0.001	[illegible]	[illegible]

Key:

Sample Type: P = Personal; Ex = Excursion; IWA = Inside Work Area; OWA = Outside Work Area; BAK = Background; A = Ambient Air; HEX = HEPA Exhaust; CL = Clearance Sample

Activity: PREP = Work Area Preparation; REM - Removal; GB - Glovebag; FC - Final Cleaning; BO = Bagout; TD = Tear Down; PP - Paint Prep

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Project No. 805169
File Code No. 4.5.b.4.229
Doc No. _____

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE: 11/21/00

KEH PROJECT #: 21001-001

MICROSCOPE ID #: 1

KEH REP: Patrick McGurren

ANALYST: Patrick McGurren

SAMPLE #	FIBER COUNT	F/N	F/N -B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
Field Blank B01	0.5	0.5/100	—	—	—	—	—	Field Blank
Field Blank B02	1.5	1.5/100	—	—	—	—	—	Field Blank
PM03	6.0	6.0/100	5.0/100/.00785	6.37	2210.25	0.001	0.001	—
PM04	3.0	3.0/100	2.0/100/.00785	2.55	2115.00	0.001	< LOQ	—
PM05	5.0	5.0/100	4.0/100/.00785	5.10	2526.00	0.001	LOQ	—
PM06	2.0	2.0/100	1.0/100/.00785	1.27	2065.00	0.001	< LOQ	—
PM07	1.0	1.0/100	0/100/.00785	Ø	2065.00	0.001	< LOQ	—
PM08	2.0	2.0/100	1.0/100/.00785	1.27	2163.00	0.001	< LOQ	—
PM09	4.0	4.0/100	3.0/100/.00785	3.82	2260.50	0.001	LOQ	—
PM10	6.5	6.5/100	5.5/100/.00785	7.01	2215.50	0.001	0.001	—
~~Blind Recount~~ PM11	1.5	1.5/100	0.5/100/.00785	0.64	2110.00	0.001	< LOQ	—
PM12	2.0	2.0/100	1.0/100/.00785	1.27	2050.00	0.001	< LOQ	—

SAMPLING INFORMATION:

Effective Collection Area of Filter:
- ✓ 385 mm², 25 mm filter
- ___ 855 mm², 37 mm filter

Microscope Field Area:
- ✓ 0.00785 mm²
- ___ other (list)

NIOSH 7400 Method A Rules ✓

Other Method ___

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ focus on samples

ANALYST INFORMATION:

DATE: 11/28/00 ANALYST: Patrick McGurren SIGNATURE: [signature]

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Project No. 805169

File Code No. 4.5.b.4.230

Doc No. ___

KEH97/FORMS/FIBERFRM

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT:	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/21/00	URS Radian PROJECT #: Z1001-001	Tim Gish	WR Grace Vermiculite Plant- WORK AREA: Libby, MT Plant wide	Patrick McGurren ANALYSIS BY: P. McGurren

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ☑ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ _____ Method: _____	Rotameter ☑ ID _____ Other: _____	~~0.8 um~~ Pin 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other .45 TEM	___ MCE <0.45um 25mm ___ PC <0.45um 37mm Mfr. _____ Lot No. 1506	~~385~~ mm² _____ mm² ___ NA	~~0.00785~~ mm² _____ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ~~F/cc~~ ___ other ___ ppm ___ mg/M³
—	~~Field Blank~~	—	—	—	—	—	—	—	—	—	—	—	—
—	~~Field Blank~~	—	—	—	—	—	—	—	—	—	—	—	—
PM16	Perimeter	Near the Fire Hydrant	Loading trucks with soil	1120	1610	290	5.00	5.00	5.00	1450.00	0.002	3.0/100	< LOQ
PM17	↓	Southwest corner of Warehouse building	↓	1050	1602	312	5.00	5.00	5.00	1560.00	0.002	1.0/100	< LOQ
PM18	↓	On fence between warehouse building & Lumber storage bldg.	↓	1110	1607	297	5.00	5.00	5.00	1485.00	0.002	3.0/100	< LOQ
Blind Recount PM4	P	Inside truck - worn by Ben Cook	Loading trucks w/ soil & dumping them @ mine	0935	1521	406	2.00	1.50	1.75	710.50	0.004	100.0/58	0.118

Key:

Sample Type:
- P = Personal
- Ex = Excursion
- IWA = Inside Work Area
- OWA = Outside Work Area
- BAK = Background
- A = Ambient Air
- HEX = HEPA Exhaust
- CL = Clearance Sample

Activity:
- PREP = Work Area Preparation
- REM - Removal
- GB - Glovebag
- FC - Final Cleaning
- BO = Bagout
- TD = Tear Down
- PP - Paint Prep

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Project No. 805169

File Code No. 4.5.b.4.231

Doc No. _____

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE: 11/21/00

KEH PROJECT #: 21001-001

MICROSCOPE ID #: 1

KEH REP: Patrick McGuiren

ANALYST: Patrick McGuiren

SAMPLE #	FIBER COUNT	F/N	F/N - B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
~~Field Blank~~ PM15	—	—	—	—	—	—	—	—
~~Field Blank~~	—	—	—	—	—	—	—	—
PM16	3.0	3.0/100	2.0/100/.00785	2.55	1450.00	0.002	<LOQ	—
PM17	1.0	1.0/100	0/100/.00785	0	1560.00	0.002	<LOQ	—
PM18	3.0	3.0/100	2.0/100/.00785	2.55	1485.00	0.002	<LOQ	—
Blind Recount PM4	100.0	100/58	100/58/.00785	217.44	710.50	0.004	0.118	—

SAMPLING INFORMATION:

Effective Collection Area of Filter:
- ✓ 385 mm², 25 mm filter
- 855 mm², 37 mm filter

Microscope Field Area:
- ✓ 0.00785 mm²
- other (list)

NIOSH 7400 Method A Rules ✓

Other Method

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ focus on samples

ANALYST INFORMATION:

DATE: 11/28/00 ANALYST: Patrick McGuiren SIGNATURE: [signature]

URS COPY

Project No. 805169

File Code No. 4.5.6.4.232

Doc No.

KEH97/FORMS/FIBERFRM

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT:	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/28/00	URS Radian PROJECT #: 2100 : -00 :	Tim Gish	WR Grace Vermiculite Plant - Plant wide WORK AREA: Libby, MT	Patrick McGuire ANALYSIS BY: P. McGuire

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ✓ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ _____ Method: _____	Rotameter ✓ ID _____ Other: _____	___ 0.8 um 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other: 45 TEM	✓ MCE <0.45um 25mm ___ PC <0.45um 37mm Mfr. _____ Lot No. 1506	✓ 385 mm² _____ mm² ___ NA	✓ 0.00785 mm² _____ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ✓ F/cc ___ other ___ ppm ___ m²/M³
B01	Field Blank	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank
B02	Field Blank	—	—	—	—	—	—	—	—	—	—	1/100	Field Blank
P03	P	Inside Truck worn by - Max Mancer	Loaded Trucks with soil @ except plant	0750	1609	499	2.0	2.0	2.00	998.00	0.003	1/100	< LOQ
P04	↓	Inside Truck worn by - Clemons Justin ~~Clemons~~	& dumped the trucks @ the mine	0742	1627	525	2.0	2.0	2.00	1050.00	0.003	31.5/100	0.014
P05	EX	Inside Truck worn by - Vernon Cunningham	↓	0747	0817	30	2.0	2.0	2.00	60.00	0.045	3/100	< LOQ
P06	P	Inside Truck worn by - Vernon Cunningham	↓	0817	1626	489	2.0	2.0	2.00	978.00	0.003	5/100	< LOQ
Blind Recount P04	P Recount	Inside Truck worn by Justin Clemons	Loading Trucks w/ soil & dumping @ the mine	0742	1627	525	2.0	2.0	2.00	1050.00	0.003	25/100	0.011

Key:

Sample Type:
- P = Personal
- Ex = Excursion
- IWA = Inside Work Area
- OWA = Outside Work Area
- BAK = Background
- A = Ambient Air
- HEX = HEPA Exhaust
- CL = Clearance Sample

Activity:
- PREP = Work Area Preparation
- REM - Removal
- GB - Glovebag
- FC - Final Cleaning
- BO = Bagout
- TD = Tear Down
- PP - Paint Prep

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Project No. 805169

File Code No. 4.5.b.2.251

Doc No. _____

KOCH ENVIRONMENTAL HEALTH, INC.
7342 South Moore Court
Littleton, CO 80127
Phone: (303) 932-8484 FAX: (303) 932-8585

CONTRACTOR PERSONNEL AIR SAMPLING SUMMARY

Client: URS Radian **Project:** Z1001-001	**Project Contact:** Tim Gish	**Location:** WR Grace Vermiculite Plant - Plant Wide Libby MT	**KEH Rep:** Patrick McGowan **Analysis By:** Patrick McGowan

Date: 11/28/00	**Calibration:** ✓ Rotameter ____ ID; ____ Other ____ ID	**Microscope Field Area:** ✓ 0.00785 sq mm; ____ other ____ sq mm	**PCM Filter:** ✓ 0.8 um25mm Mft.____; ____ 0.8 um37mm Lot#____	**Other Media:** ____ Type Mft.____; ____ Type Mft.____

Name: Max Monroe **SSN:** 520-36-5145	**Name:** Justin ~~Clemens~~ Clemons **SSN:** 517-88-2847	**Name:** Vernon Cunningham **SSN:** 517-70-9213	**Name:** — **SSN:**

TOTAL				TOTAL				TOTAL				TOTAL			
Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc
P03	499	998.00	<LOQ	P04	525	1050.00	0.014	P05	30	60.00	<LOQ				
								P06	489	978.00	<LOQ				

TWA: 0.001 f/cc (LOQ)

Comments: 0.499/499

TWA: 0.014 f/cc

Comments: 7.35/525

TWA: 0.001 f/cc

Comments: 0.03 + 0.489/519
0.519/519

TWA: N/A

Comments:

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Project No. 80569
File Code No. 4.5.6.2.252
Doc No.

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE: 11/28/00	KEH PROJECT #: 21001-001 MICROSCOPE ID #: 1	KEH REP: Patrick McGuire ANALYST: Patrick McGuire

SAMPLE #	FIBER COUNT	F/N	F/N - B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
Field Blank B01	0	0/100	—	—	—	—	—	Field Blank
Field Blank B02	1.0	1.5/100	—	—	—	—	—	Field Blank
P03	1.0	1/100	0.5/100/.00785	0.64	998.00	0.003	<LOQ	—
P04	31.5	31.5/100	31/100/.00785	39.49	1050.00	0.003	0.014	—
P05	2.0	2/100	1.5/100/.00785	1.91	160.00	0.045	<LOQ	—
P06	5.0	5/100	4.5/100/.00785	5.73	978.00	0.003	<LOQ	—
Blind Recount P04	25.0	25.0/100	24.5/100/.00785	31.21	1050.00	0.003	0.011	—

SAMPLING INFORMATION:

Effective Collection Area of Filter:	Microscope Field Area:	NIOSH 7400 Method A Rules ✓
✓ 385 mm², 25 mm filter	✓ 0.00785 mm²	
855 mm², 37 mm filter	other (list)	Other Method

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ [illegible] samples

ANALYST INFORMATION:

DATE: 11/29/00 ANALYST: Patrick McGuire SIGNATURE: [signature]

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Project No. 805169
File Code No. 4.5.6.2.253
Doc No.

KEH97/FORMS/FIBERFRM

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT:	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/28/00	URS Radian PROJECT #: 21001-001	Tim Gish	WR Grace Vermiculite Plant - Plant wide WORK AREA: Libby, MT	Patrick M. Gorman ANALYSIS BY: P. M. Gorman

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ☑ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ _____ Method: _____	Rotameter ☑ ID _____ Other: _____	___ 0.8 um 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other .45 TEM	✓ MCE <0.45um 25mm ___ PC <0.45um 37mm MR. _____ Lot No. 15066	✓ 385 mm² _____ mm² ___ NA	✓ 0.00785 mm² _____ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ✓ f/cc ___ other ___ ppm ___ mg/M³
B01	Field Blank	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank
B02	Field Blank	—	—	—	—	—	—	—	—	—	—	1/100	Field Blank
PM03	Perimeter	Location #1 - North of Pole Barn - on Perimeter	—	0803	1538	455	5.00	5.00	5.00	2275.00	0.001	5/100	LOQ
PM04		Location #2 - NW of Planer Building - on perimeter	—	0807	1544	457	5.00	5.00	5.00	2285.00	0.001	8/100	0.002
PM05		Location #3 - West of Planer building - on Perimeter	—	0809	1546	457	5.50	6.00	5.75	2627.75	0.001	4/100	LOQ
PM06		Location #4 - SW of Planer building - on perimeter	—	0824	1553	449	5.00	5.00	5.00	2245.00	0.001	1.5/100	< LOQ
PM07		Location #5 - South of ~~Pole Barn~~ warehouse building - on perimeter	—	0827	1556	449	5.00	5.50	5.25	2357.25	0.001	2/100	< LOQ
PM08		Location #6 - NE of Lumber storage building on perimeter	—	0830	1603	453	5.00	5.00	5.00	2265.00	0.001	3/100	LOQ
PM09		Location #7 - NE corner of property - on stop sign - Highway 37	—	0833	1605	452	6.00	6.00	6.00	2712.00	0.001	6.5/100	0.001
PM10		Temporary west perimeter 100' N of NW corner of Pole Barn	—	0900	1616	436	5.00	5.00	5.00	2180.00	0.001	4.5/100	LOQ
Blind Recount PM06	Recount	Location #4 - SW of PB - on Perimeter	—	0824	1553	449	5.00	5.00	5.00	2245.00	0.001	2.0/100	< LOQ

Key:

Sample Type:
- P = Personal
- Ex = Excursion
- IWA = Inside Work Area
- OWA = Outside Work Area
- BAK = Background
- A = Ambient Air
- HEX = HEPA Exhaust
- CL = Clearance Sample

Activity:
- PREP = Work Area Preparation
- REM - Removal
- GB - Glovebag
- FC - Final Cleaning
- BO = Bagout
- TD = Tear Down
- PP - Paint Prep

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Project No. 80569
File Code No. 4.5.6.4.233
Doc No. _____

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE: 11/28/00	KEH PROJECT #: 21001-001 MICROSCOPE ID #: 1	KEH REP: Patrick McGurren ANALYST: Patrick McGurren

SAMPLE #	FIBER COUNT	F/N	F/N -B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
Field Blank B01	0	0/100	—	—	—	—	—	Field Blank
Field Blank B02	1.0	1/100	—	—	—	—	—	Field Blank
PM03	5.0	5/100	4.5/100/.00785	5.73	2275.00	0.001	LOQ	—
PM04	8.0	8/100	7.5/100/.00785	9.55	2285.00	0.001	0.002	—
PM05	4.0	4/100	3.5/100/.00785	4.46	2627.75	0.001	LOQ	—
PM06	1.5	1.5/100	1/100/.00785	1.27	2245.00	0.001	< LOQ	—
PM07	2.0	2/100	1.5/100/.00785	1.91	2357.25	0.001	< LOQ	—
PM08	3.0	3.0/100	2.5/100/.00785	3.18	2265.00	0.001	LOQ	—
PM09	6.5	6.5/100	6.0/100/.00785	7.64	2712.00	0.001	0.001	—
PM10	4.5	4.5/100	4.0/100/.00785	5.10	2180.00	0.001	LOQ	—
Blind Recount PM06	2.0	2/100	1.5/100/.00785	1.91	2245.00	0.001	< LOQ	—

SAMPLING INFORMATION:

Effective Collection Area of Filter:	Microscope Field Area:	NIOSH 7400 Method A Rules ✓
✓ 385 mm², 25 mm filter	✓ 0.00785 mm²	
855 mm², 37 mm filter	other (list)	Other Method

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ [illegible] samples

ANALYST INFORMATION:

DATE: 11/29/00 ANALYST: Patrick McGurren SIGNATURE: Patrick McGurren

URS COPY

Project No. 805169

File Code No. 4.5.b.4.23

Doc No.

KEH97/FORMS/FIBERFRM

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT:	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/28/00	URS Radian PROJECT #: 21001-001	Tim Gish	WR Grace Vermiculite Plant - Plant Wide WORK AREA: Libby, MT	Patrick McGivern ANALYSIS BY: P. McGivern

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ☑ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ _____ Method: _____	Rotameter ☑ ID _____ Other: _____	___ 0.8 um 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other .45 TEM	✓ MCE <0.45um 25mm ___ PC <0.45um 37mm MR. _____ Lot No. 1500	✓ 385 mm² _____ mm² ___ NA	✓ 0.00785 mm² _____ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ✓ F/cc ___ other ___ ppm ___ mg/M³
B01	Field Blank	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank
B02	Field Blank	—	—	—	—	—	—	—	—	—	—	1/100	Field Blank
PM11/A410	Perimeter	SW corner of Planer Building - Temp: South perimeter	Loading trucks with soil	0903	1621	438	5.00	5.50	5.25	2299.50	0.001	2.5/100	< LOQ
PM12/0788	↓	Temporary inside work area sample - 20 feet SW of Lumber Storage		0940	1644	424	5.00	5.00	5.00	2120.00	0.001	2.0/100	< LOQ
PM13/A89		Temporary inside sample adjacent to Fire Hydrant	↓	0927	1640	433	5.50	5.50	5.50	2381.50	0.001	1.5/100	< LOQ
PM14/0687		Temporary perimeter sample @ SW corner of warehouse		0946	1652	426	5.00	5.00	5.00	2130.00	0.001	0/100	< LOQ
PM15/01	↓	Temporary perimeter sample Between Lumber Storage & Warehouse Bldg.		0944	1650	426	5.50	5.50	5.50	2343.00	0.001	1.0/100	< LOQ
Blind Recount PM11	Recount	SW corner of Planer	Loading trucks w/ soil	0903	1621	438	5.00	5.50	5.25	2299.50	0.001	2.5/cc	< LOQ

Key:

Sample Type: P = Personal; Ex = Excursion; IWA = Inside Work Area; OWA = Outside Work Area; BAK = Background; A = Ambient Air; HEX = HEPA Exhaust; CL = Clearance Sample

Activity: PREP = Work Area Preparation; REM - Removal; GB - Glovebag; FC - Final Cleaning; BO = Bagout; TD = Tear Down; PP - Paint Prep

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Project No. 805169

File Code No. 4.5.6.4.23 4/5

Doc No. _____

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE: 11/28/00	KEH PROJECT #: 21001-001	KEH REP: Patrick McGurren
	MICROSCOPE ID #: 1	ANALYST: Patrick McGurren

SAMPLE #	FIBER COUNT	F/N	F/N · B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
Field Blank B01	0	0/100	—	—	—	—	—	Field Blank
Field Blank B02	1.0	1.0/100	—	—	—	—	—	Field Blank
PM11	2.5	2.5/100	2/100/.00785	2.55	2299.50	0.001	< LOQ	—
PM12	2.0	2.0/100	1.5/100/.00785	1.91	2120.00	0.001	< LOQ	—
PM13	1.5	1.5/100	1/100/.00785	1.27	2381.50	0.001	< LOQ	—
PM14	0	0/100	0/100/.00785	0	2130.00	0.001	< LOQ	—
PM15	1.0	1/100	0.5/100/.00785	0.64	2313.00	0.001	< LOQ	—
Blind Recount PM11	2.0	2.0/100	1.5/100/.00785	1.91	2299.50	0.001	< LOQ	—

SAMPLING INFORMATION:

Effective Collection Area of Filter:	Microscope Field Area:	NIOSH 7400 Method A Rules ✓
✓ 385 mm², 25 mm filter	✓ 0.00785 mm²	
855 mm², 37 mm filter	other (list)	Other Method

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ focus on samples

ANALYST INFORMATION:

DATE: 11/29/00 ANALYST: Patrick McGurren SIGNATURE: [signature]

URS COPY

Project No. 805169
File Code No. 4.5.6.4.236
Doc No.

KEH97/FORMS/FIBERFRM

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT:	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/29/00	URS Radian PROJECT #: 21001-001	Tim Gish	WR Grace Vermiculite Plant - Plant wide WORK AREA: Libby, MT	Patrick McGuire ANALYSIS BY: P. McGuire

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ☑ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ _____ Method: _____	Rotameter ☑ ID _____ Other: _____	___ 0.8 um 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other: 45 TEM	✓ MCE <0.45um 25mm ___ PC <0.45um 37mm Mfl. _____ Lot No. 1506	✓ 785 mm² _____ mm² ___ NA	✓ 0.00785 mm² _____ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ___ f/cc ___ other ___ ppm ___ mg/M³
B01	Field Blank	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank
B02	Field Blank	—	—	—	—	—	—	—	—	—	—	1/100	Field Blank
P03	P	Inside truck - worn by Fred McDougall	Loading trucks with soil @ export plant	0732	1545	493	2.0	2.0	2.00	986.00	0.003	13/100	0.006
P04	EX	Inside truck worn by Bob Sanders	& dumping them @ the mine	0727	0747	20	2.0	2.0	2.00	40.00	0.067	2/100	<LOQ
P05	P	Inside truck worn by Jerry Regh	↓	0734	1447	433	2.0	2.0	2.00	866.00	0.003	30/100	0.017
P06	P	Inside truck worn by Bob Sanders		0747	1350	363	2.0	2.0	2.00	726.00	0.004	6.5/100	0.004
Blind Recount B01	Recount	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank

Key:

Sample Type:
- P = Personal
- Ex = Excursion
- IWA = Inside Work Area
- OWA = Outside Work Area
- BAK = Background
- A = Ambient Air
- HEX = HEPA Exhaust
- CL = Clearance Sample

Activity:
- PREP = Work Area Preparation
- REM - Removal
- GB - Glovebag
- FC - Final Cleaning
- BO = Bagout
- TD = Tear Down
- PP - Paint Prep

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Project No. 805169
File Code No. 4.5.6.2.254
Doc No. _____

KOCH ENVIRONMENTAL HEALTH, INC.
7342 South Moore Court
Littleton, CO 80127
Phone: (303) 932-8484 FAX: (303) 932-8585

CONTRACTOR PERSONNEL AIR SAMPLING SUMMARY

Client: URS Radian **Project:** 21001-001	**Project Contact:** Tim Gish	**Location:** WR Grace Vermiculite Plant - Plant wide Libby, MT	**KEH Rep:** Patrick McGovern **Analysis By:** P. McGovern

Date:	**Calibration:**	**Microscope Field Area:**	**PCM Filter:**	**Other Media:**
11/29/00	✓ Rotameter ____ ID ____ Other ____ ID	✓ 0.00785 sq mm ____ other ____ sq mm	✓ 0.8 um25mm Mft. ____ ____ 0.8 um37mm Lot# ____	____ Type Mft. ____ ____ Type Mft. ____

Name: Fred McDougall **SSN:** 728-14-3207	**Name:** Bob Sanders **SSN:** 550-44-0403	**Name:** Jerry Regh **SSN:** 516-78-0088	**Name:** ____ **SSN:**

TOTAL				TOTAL				TOTAL				TOTAL			
Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc
P03	493	986.00	0.006	P04	20	40.00	<LOQ	P05	433	866.00	0.017				
				P06	363	726.00	0.004								

TWA: 0.006 f/cc

Comments: 2.958/493

TWA: 0.003 f/cc

Comments: 0.02 + 1.452/480

1.472/480

TWA: 0.015 f/cc

Comments: 7.361/480

TWA: N/a

Comments:

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Project No. 805169
~~File Code No.~~
Doc No. 4.5.6 2.255

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE:	KEH PROJECT #: 21001-001	KEH REP: Patrick McGurren
11/29/00	MICROSCOPE ID #: 1	ANALYST: Patrick McGurren

SAMPLE #	FIBER COUNT	F/N	F/N - B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
Field Blank B01	0	0/100	—	—	—	—	—	Field Blank
Field Blank B02	1.0	1/100	—	—	—	—	—	Field Blank
P03	13.0	13/100	12.5/100/.00785	~~3.18~~ 15.92	986.00	0.003	~~0.006~~ 0.006	0.006
P04	2.0	2/100	1.5/100/.00785	1.91	40.00	0.067	<LOQ	—
P05	30.0	30/100	29.5/100/.00785	37.58	866.00	0.003	~~<LOQ~~	0.017
P06	6.5	6.5/100	6.0/100/.00785	7.64	726.00	0.004	~~<LOQ~~	0.004
Blind Recount B01	0	0/100	—	—	—	—	—	Field Blank

SAMPLING INFORMATION:

Effective Collection Area of Filter:	Microscope Field Area:	NIOSH 7400 Method A Rules ✓
✓ 385 mm², 25 mm filter	✓ 0.00785 mm²	
855 mm², 37 mm filter	other (list)	Other Method

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ focus on samples

ANALYST INFORMATION:

DATE: 11/30/00 ANALYST: Patrick McGurren SIGNATURE: [signature]

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Project No. 805169
File Code No. 4.5.6.2.256
Doc No.

KEH97/FORMS/FIBERFRM

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT:	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/29/00	URS Radian PROJECT #: 21001-001	Tim Gish	W.R. Grace Vermiculite Plant - Plant Wide WORK AREA: Libby, MT	Patrick McGowen ANALYSIS BY: P. McGowen

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ☑ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ _____ Method: _____	Rotameter ☑ ID _____ Other: _____	___ 0.8 um 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other .45 TEM	✓ MCE <0.45um 25mm ___ PC <0.45um 37mm Mfl. _____ Lot No. 1506	✓ 385 mm² _____ mm² ____ NA	✓ 0.00785 mm² _____ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ✓ F/cc ___ other ___ ppm ___ mg/M³
B01	Field Blank	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank
B02	Field Blank	—	—	—	—	—	—	—	—	—	—	1/100	Field Blank
PM03	Perimeter	Location #1 - North of Pole Barn - on perimeter	—	0755	1223	268	5.00	5.00	5.00	1340.00	0.002	3/100	< LOQ
PM04		Location #2 - NW of planer building - on perimeter	—	0805	1227	~~278~~ 262	5.50	5.50	5.50	1441.00	0.002	2/100	< LOQ
PM05		Location #3 - West of planer building - on perimeter	—	0809	1230	261	5.50	5.50	5.50	1435.50	0.002	0/100	< LOQ
PM06		Location #4 - SW of planer building - on perimeter	—	0817	1239	262	5.00	5.00	5.00	1310.00	0.002	1.5/100	< LOQ
PM07		Location #5 - South of warehouse building - on perimeter	—	0820	1243	263	5.00	5.00	5.00	1315.00	0.002	0/100	< LOQ
PM08		Location #6 - NE of Lumber storage building on perimeter	—	0825	1252	267	5.00	5.00	5.00	1335.00	0.002	1.5/100	< LOQ
PM09		Location #7 - NE corner of property - on strip south - Highway 37	—	0827	1258	271	5.00	5.00	5.00	1355.00	0.002	5/100	pm ~~4~~ LOQ
PM10		100' N of NW corner of Pole Barn - Temporary west perimeter	—	0836	1309	273 ~~267~~	5.00	5.00	5.00	1365.00	0.002	2.5/100	< LOQ
Blind Recount PM06	Recount	Location #4	—	0817	1239	262	5.00	5.00	5.00	1310.00	0.002	2/100	< LOQ

Key:

Sample Type:			Activity:		
	P = Personal	BAK = Background		PREP = Work Area Preparation	BO = Bagout
	Ex = Excursion	A = Ambient Air		REM - Removal	TD = Tear Down
	IWA = Inside Work Area	HEX = HEPA Exhaust		GB - Glovebag	PP - Paint Prep
	OWA = Outside Work Area	CL = Clearance Sample		FC - Final Cleaning	

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Project No. 805169

File Code No. 4.5.6.4.237

Doc. No.

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE: 11/29/00	KEH PROJECT #: 21001-001 MICROSCOPE ID #: 1	KEH REP: Patrick McGurran ANALYST: Patrick McGurran

SAMPLE #	FIBER COUNT	F/N	F/N - B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
Field Blank B01	0	0/100	—	—	—	—	—	Field Blank
Field Blank B02	1	1/100	—	—	—	—	—	Field Blank
PM03	3	3/100	2.5/100/.00785	3.18	1340.00	0.002	< LOQ	—
PM04	2	2/100	1.5/100/.00785	1.91	1441.00	0.002	< LOQ	—
PM05	0	0/100	0/100/.00785	0	1435.50	0.002	< LOQ	—
PM06	1.5	1.5/100	1/100/.00785	1.27	1310.00	0.002	< LOQ	—
PM07	0	0/100	0/100/.00785	0	1315.00	0.002	< LOQ	—
PM08	1.5	1.5/100	1/100/.00785	1.27	1335.00	0.002	< LOQ	—
PM09	5.0	5/100	4.5/100/.00785	5.73	1355.00	0.002	LOQ	—
PM10	2.5	2.5/100	2/100/.00785	2.55	1365.00	0.002	< LOQ	—
Blind Recount PM06	2.0	2/100	1.5/100/.00785	1.91	1310.00	0.002	< LOQ	—

SAMPLING INFORMATION:

Effective Collection Area of Filter:	Microscope Field Area:	NIOSH 7400 Method A Rules ✓
✓ 385 mm², 25 mm filter	✓ 0.00785 mm²	
855 mm², 37 mm filter	other (list)	Other Method

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ focus on samples

ANALYST INFORMATION:

DATE: 11/30/00 ANALYST: Patrick McGurran SIGNATURE: [signature]

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Project No. 805169
File Code No. 4.5.6.4.238
Doc No.

KEH97/FORMS/FIBERFRM

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT:	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/29/00	URS Radian PROJECT #: 21001-001	Tim Gish	W.R. Grace Vermiculite Plant - Plant wide WORK AREA: Libby, MT	Patrick McGowan ANALYSIS BY: P. McGowan

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ☑ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ _____ Method: _____	Rotameter ☑ ID _____ Other: _____	___ 0.8 um 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other .45 TEM	✓ MCE <0.45um 25mm ___ PC <0.45um 37mm Mfl. _____ Lot No. 15066	✓ 385 mm² _____ mm² ___ NA	✓ 0.00785 mm² _____ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ✓ F/cc ___ other ___ ppm mg/M³
B01	Field Blank	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank
B02	Field Blank	—	—	—	—	—	—	—	—	—	—	1/100	Field Blank
PM11/A010	Perimeter	SW corner of Pole Barn - Temporary South perimeter	Loading trucks with soil	0840	1312	272	5.50	5.50	5.50	1496.00	0.002	1/100	< LOQ
PM12/A89		Temporary inside work area ~~at~~ sample @ Fire Hydrant		0903 ~~0840~~	1330	267	5.50	5.00	5.25	1401.75	0.002	7/100	0.002
PM13/307		Temporary inside work area sample - SW of Lumber storage building		0921	1344	263	2.00	2.00	2.00	526.00	0.005	1.5/100	< LOQ
PM14/01		Temporary inside perimeter sample - between Lumber storage & warehouse buildings		0909	1334	265	5.0	5.0	5.00	1325.00	0.002	0/100	< LOQ
PM15/0687		Temporary inside work area sample @ SW corner of Warehouse		0912	1342	270	5.0	5.0	5.00	1350.00	0.002	3/100	< LOQ
Blind Recount													

Key:

Sample Type:
- P = Personal
- Ex = Excursion
- IWA = Inside Work Area
- OWA = Outside Work Area
- BAK = Background
- A = Ambient Air
- HEX = HEPA Exhaust
- CL = Clearance Sample

Activity:
- PREP = Work Area Preparation
- REM - Removal
- GB - Glovebag
- FC - Final Cleaning
- BO = Bagout
- TD = Tear Down
- PP - Paint Prep

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Project No. 805169
File Code No. 4.5.5.4.239
Doc No. _____

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE:	KEH PROJECT #: Z1001-001	KEH REP: Patrick McGuirn
11/29/00	MICROSCOPE ID #:	ANALYST: Patrick McGuirn

SAMPLE #	FIBER COUNT	F/N	F/N · B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
Field Blank B01	0	0/100	—	—	—	—	—	Field Blank
Field Blank B02	1.0	1/100	—	—	—	—	—	Field Blank
PM11	1.0	1/100	0.5/100/.00785	0.64	1496.00	0.002	< LOQ	—
PM12	7.0	7/100	6.5/100/.00785	8.28	1401.75	0.002	0.002	—
PM13	1.5	1.5/100	1/100/.00785	1.27	526.00	0.005	< LOQ	—
PM14	0	0/100	0/100/.00785	0	1325.00	0.002	< LOQ	—
PM15	3.0	3/100	2.5/100/.00785	3.18	1350.00	0.002	< LOQ	—
Blind Recount PM11	0	0/100	0/100/.00785	0	1496.00	0.002	< LOQ	—

SAMPLING INFORMATION:

Effective Collection Area of Filter:	Microscope Field Area:	NIOSH 7400 Method A Rules ✓
✓ 385 mm², 25 mm filter	✓ 0.00785 mm²	
855 mm², 37 mm filter	other (list)	Other Method

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ focus on samples

ANALYST INFORMATION:

DATE: 11/30/00 ANALYST: Patrick McGuirn SIGNATURE: [signature]

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Project No. 805169
File Code No. 4.5.6.4.240
Doc No.

KEH97/FORMS/FIBERFRM

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT: URS Radian	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/30/00	PROJECT #: 21001-001	Tim Gish	WR Grace Vermiculite Plant - Plant site WORK AREA: Libby, MT	Patrick McGuire ANALYSIS BY: P. McGuire

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ☑ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ _____ Method: _____	Rotameter ☑ ID _____ Other: _____	___ 0.8 um 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other .45 TEM	✓ MCE <0.45um 25mm ___ PC <0.45um 37mm Mfl. _____ Lot No. 15006	✓ 385 mm² _____ mm² ___ NA	✓ 0.00785 mm² _____ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ✓ F/cc ___ other ___ ppm mg/M³
B01	Field Blank	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank
B02	Field Blank	—	—	—	—	—	—	—	—	—	—	3/100	Field Blank
P03	P	Inside Truck - worn by - Max Moncur	Loading trucks with soil @ export	0725	1530	485	2.00	2.00	2.00	970.00	0.003	4.5/100	< LOQ
P04	P	Inside Truck - worn by - Justin Clemons	Plant & dumping them @ the mine	0729	1540	491	2.00	0.50	1.25	613.75	0.004	13/100	0.010
P05	EX	Inside Truck - worn by Doug Carr	↓	0723	0745	22	2.00	2.00	2.00	44.00	0.061	2/100	< LOQ
P06	P	Inside Truck worn by - Doug Carr	↓	0745	1538	473	2.00	0.75	1.38	652.74	0.004	1/100	< LOQ
Blind Recount B02	Recount/ Blank	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank

Key:

Sample Type:
- P = Personal
- Ex = Excursion
- IWA = Inside Work Area
- OWA = Outside Work Area
- BAK = Background
- A = Ambient Air
- HEX = HEPA Exhaust
- CL = Clearance Sample

Activity:
- PREP = Work Area Preparation
- REM - Removal
- GB - Glovebag
- FC - Final Cleaning
- BO = Bagout
- TD = Tear Down
- PP - Paint Prep

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Project No. 805169
File Code No. 4.5.6.2.257
Doc No. _____

KOCH ENVIRONMENTAL HEALTH, INC.
7342 South Moore Court
Littleton, CO 80127
Phone: (303) 932-8484 FAX: (303) 932-8585

CONTRACTOR PERSONNEL AIR SAMPLING SUMMARY

Client: URS Radian **Project:** 21001-001	**Project Contact:** Tim Gish	**Location:** WR Grace Vermiculite Plant Libby, MT Plant Wide	**KEH Rep:** Patrick McGuire **Analysis By:** Patrick McGuire

Date: 11/30/00	**Calibration:** ✓ Rotameter ____ ID ____ Other ____ ID	**Microscope Field Area:** ✓ 0.00785 sq mm ____ other ____ sq mm	**PCM Filter:** ✓ 0.8 um25mm Mft. ____ ____ 0.8 um37mm Lot# ____	**Other Media:** ____ Type Mft. ____ ____ Type Mft. ____

Name: Max Moncur **SSN:** 520-36-5145	**Name:** Justin Clemons **SSN:** 517-88-2847	**Name:** Doug Carr **SSN:** 101265	**Name:** — **SSN:**

TOTAL				TOTAL				TOTAL				TOTAL			
Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc	Sample #	Minutes	Volume	F/cc
P03	485	970.00	<LOQ	P04	491	613.75	0.010	P05	22	44.00	<LOQ				
								P06	473	652.74	<LOQ				

TWA: 0.001 f/cc (LOQ)	TWA: 0.010 f/cc	TWA: 0.001 f/cc (LOQ)	TWA: N/a
Comments: 0.485/485	Comments: 4.91/491	Comments: 0.022+0.473/495 0.495/495	Comments:

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File Code No. 4.5.6.2.258
Doc No.

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE: 11/30/00	KEH PROJECT #: Z1001-001	KEH REP: Patrick McGurren
	MICROSCOPE ID #: 1	ANALYST: Patrick McGurren

SAMPLE #	FIBER COUNT	F/N	F/N - B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
Field Blank B01	0	0/100	—	—	—	—	—	Field Blank
Field Blank B02	~~2~~ 2.0	2/100	—	—	—	—	—	Field Blank
P03	4.5	4.5/100	35/100/.00785	4.46	970.00	0.003	< LOQ	—
P04	13.0	13/100	12/100/.00785	15.29	613.75	0.004	0.010	—
P05	2.0	2/100	1/100/.00785	1.27	44.00	0.061	~~0.011~~ < LOQ	—
P06	1.0	1/100	0/100/.00785	0	652.74	0.004	< LOQ	—
Blind Recount B02	0	0/100	—	—	—	—	—	Field Blank

SAMPLING INFORMATION:

Effective Collection Area of Filter:	Microscope Field Area:	NIOSH 7400 Method A Rules ✓
✓ 385 mm², 25 mm filter	✓ 0.00785 mm²	
855 mm², 37 mm filter	other (list)	Other Method

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ focus on samples

ANALYST INFORMATION:

DATE: 12/1/00 ANALYST: Patrick McGurren SIGNATURE: [signature]

URS COPY

Project No. 805169
File Code No. 4.5.6.2.259
Doc No.

KEH97/FORMS/FIBERFRM

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT:	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/30/00	PROJECT #: 21001-001	Tim Gish	W.R. Grace Vermiculite Plant - Plant wide WORK AREA: Libby, MT	Patrick McGowan ANALYSIS BY: P. McGowan

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ☑ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ _____ Method: _____	Rotameter ☑ ID _____ Other: _____	___ 0.8 um 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other: 45 TEM	✓ MCE <0.45um 25mm ___ PC <0.45um 37mm Mfl. _____ Lot No. 15066	✓ 385 mm² _____ mm² ___ NA	✓ 0.00785 mm² _____ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ✓ F/cc ___ other ___ ppm ___ mg/M³
B01	Field Blank	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank
B02	Field Blank	—	—	—	—	—	—	—	—	—	—	3/100	Field Blank
PM03	Perimeter	Location #1 - N. of Pole Barn - on perimeter	—	0809	1651	522	5.00	5.00	5.00	2610.00	0.001	2/100	< LOQ
PM04	↓	Location #2 - NW of Planer building - on perimeter	—	0816	1654	518	5.00	5.00	5.00	2590.00	0.001	1/100	< LOQ
PM05	↓	Location #3 - West of Planer Building - on perimeter	—	0821	1657	516	5.50	5.50	5.50	2838.00	0.001	7/100	0.001
PM06	↓	Location #4 - SW of Planer building - on perimeter	—	0832	1705	513	5.00	5.00	5.00	2565.00	0.001	3/100	< LOQ
PM07	↓	Location #5 - South of warehouse building on perimeter	—	0835	1703	508	5.00	5.50	5.25	2667.00	0.001	2.5/100	< LOQ
PM08	↓	Location #6 - NE of Lumber storage bldg on perimeter	—	0846	1709	503	5.00	5.00	5.00	2515.00	0.001	1/100	< LOQ
PM09	↓	Location #7 - NE corner of property - on stop sign - Highway 37	—	0851	1719	508	5.50	5.50	5.50	2794.00	0.001	2/100	< LOQ
PM10	↓	100' N. of NW corner of Pole Barn - temporary West perimeter	—	0856	1634	458	5.50	5.50	5.50	2519.00	0.001	0/100	< LOQ
Blind Recount PM09	Recount/ perimeter	Location #7	—	0851	1719	508	5.50	5.50	5.50	2794.00	0.001	2/100	< LOQ

Key:

Sample Type:
- P = Personal
- Ex = Excursion
- IWA = Inside Work Area
- OWA = Outside Work Area
- BAK = Background
- A = Ambient Air
- HEX = HEPA Exhaust
- CL = Clearance Sample

Activity:
- PREP = Work Area Preparation
- REM - Removal
- GB - Glovebag
- FC - Final Cleaning
- BO = Bagout
- TD = Tear Down
- PP - Paint Prep

URS COPY

Project No. 805169
File Code No. 4.5.6.4.241
Doc No. _____

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE: 11/30/00	KEH PROJECT #: 21001-001 MICROSCOPE ID #: 1	KEH REP: Patrick McGuiven ANALYST: Patrick McGuiven

SAMPLE #	FIBER COUNT	F/N	F/N-B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
Field Blank B01	0	0/100	—	—	—	—	—	Field Blank
Field Blank B02	2.0	2/100	—	—	—	—	—	Field Blank
PM03	2.0	2/100	1/100/.00785	1.27	2610.00	0.001	< LOQ	—
PM04	1.0	1/100	0/100/.00785	0	2590.00	0.001	< LOQ	—
PM05	7.0	7/100	6/100/.00785	7.64	2838.00	0.001	0.001	—
PM06	3.0	3/100	2/100/.00785	2.55	2565.00	0.001	< LOQ	—
PM07	2.5	2.5/100	1.5/100/.00785	3.18	2667.00	0.001	< LOQ	—
PM08	1.0	1/100	0/100/.00785	0	2515.00	0.001	< LOQ	—
PM09	2.0	2/100	1/100/.00785	1.27	2794.00	0.001	< LOQ	—
PM10	0	0/100	0/100/.00785	0	2519.00	0.001	< LOQ	—
Blind Recount PM09	2.0	2/100	1/100/.00785	1.27	2794.00	0.001	< LOQ	—

SAMPLING INFORMATION:

Effective Collection Area of Filter:	Microscope Field Area:	NIOSH 7400 Method A Rules ✓
✓ 385 mm², 25 mm filter	✓ 0.00785 mm²	
855 mm², 37 mm filter	other (list)	Other Method

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ focus on samples

ANALYST INFORMATION:

DATE: 12/1/00 ANALYST: Patrick McGuiven SIGNATURE: [signature]

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Project No. 805169
File Code No. 4.5.6.4.242
Doc No.

KEH97/FORMS/FIBERFRM

KOCH ENVIRONMENTAL HEALTH, INC.
AIR CONTAMINANT SAMPLING FORM

DATE:	CLIENT:	PROJECT CONTACT:	PROJECT LOCATION:	SAMPLING REP:
11/30/00	URS Radian PROJECT #: 21001-001	Tim Gish	W.R. Grace Vermiculite Plant - Plant wide WORK AREA: Libby, MT	Patrick McGowan ANALYSIS BY: P. McGowan

SAMPLE TYPE:	PUMP CALIBRATION:	FILTER TYPE:	TEM FILTER:	FILTER FCA:	MICROSCOPE FIELD AREA:
Asbestos ☑ (NIOSH 7400) Lead ☐ (NIOSH 7082) Other ☐ _____ Method: _____	Rotameter ☑ ID _____ Other: _____	___ 0.8 um 25 mm MCE ___ charcoal tubes ___ Silica Gel ___ Other .45 TEM	✓ MCE <0.45um 25mm ___ PC <0.45um 37mm Mfl. _____ Lot No. 1506	✓ 385 mm² _____ mm² ___ NA	✓ 0.00785 mm² _____ mm² ___ NA

SAMPLE NUMBER/ PUMP NUMBER	SAMPLE TYPE	SAMPLE DESCRIPTION, LOCATION	ACTIVITY	TIME (24 HOUR CLOCK) Start	Stop	Total	FLOW RATE (L/MIN) Start	Stop	Avg.	AIR VOLUME (L)	DETECT. LIMIT OR LOQ	FIBERS/ PER FIELD	CONCENTRATION ✓ F/cc ___ other ___ ppm mg/M³
B01	Field Blank	—	—	—	—	—	—	—	—	—	—	0/100	Field Blank
B02	Field Blank	—	—	—	—	—	—	—	—	—	—	3/100	Field Blank
PM11/A010	Perimeter	SW corner of Pole Barn - temporary South perimeter	Loading trucks with soil	0900	1630	450	5.50	5.00	5.25	2362.50 ~~2310.00~~	0.001	3/100	< LOQ
PM12/A29	↓	50' SW of Lumber Storage building - temporary IWA sample	↓	0937	1616	399	2.00	2.00	2.00	798.00	0.003	0/100	< LOQ
PM13/A89		adjacent to Fire Hydrant - temporary IWA sample		0934	1613	399	5.00	5.00	5.00	1995.00	0.001	5.5/100	LOQ
PM14/A01		Between Lumber Storage building & Warehouse bldg - temp perimeter		0940	1621	401	5.50	5.50	5.50	2205.50	0.001	1/100	< LOQ
PM15/A037		SW corner of Warehouse building - temporary Perimeter sample		0943	1625	402	5.00	5.00	5.00	2010.00	0.001	3/100	< LOQ
Blind Recount PM12	Recount/ perimeter	50' SW of LSB temp IWA perimeter sample		0937	1614	399	2.00	2.00	2.00	798.00	0.003	2.0/100	< LOQ

Key:

Sample Type: P = Personal; Ex = Excursion; IWA = Inside Work Area; OWA = Outside Work Area; BAK = Background; A = Ambient Air; HEX = HEPA Exhaust; CL = Clearance Sample

Activity: PREP = Work Area Preparation; REM - Removal; GB - Glovebag; FC - Final Cleaning; BO = Bagout; TD = Tear Down; PP - Paint Prep

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Project No. 805169
File Code No. 4.5.b.4.243
Doc No. _____

KOCH ENVIRONMENTAL HEALTH, INC.
ASBESTOS FIBER COUNT WORKSHEET

DATE: 11/30/00	KEH PROJECT #: 21001-001 MICROSCOPE ID #: 1	KEH REP: Patrick McGurren ANALYST: Patrick McGurren

SAMPLE #	FIBER COUNT	F/N	F/N - B/NB / 100	FIBERS/MM²	SAMPLE VOL. (L)	LOQ (fibers/cc)	FIBERS/CC	COMMENTS
Field Blank B01	0	0/100	—	—	—	—	—	Field Blank
Field Blank B02	2.0	2/100	—	—	—	—	—	Field Blank
PM11	3.0	3/100	3/100/.00785	2.55	2362.50	0.001	< LOQ	—
PM12	0	0/100	0/100/.00785	0	798.00	0.003	< LOQ	—
PM13	5.5	5.5/100	4.5/100/.00785	5.73	1995.00	0.001	LOQ	—
PM14	1.0	1/100	0/100/.00785	0	2205.50	0.001	< LOQ	—
PM15	3.0	3/100	3/100/.00785	2.55	2010.00	0.001	< LOQ	—
Blind Recount PM12	2.0	2/100	1/100/.00785	1.27	798.00	0.003	< LOQ	—

SAMPLING INFORMATION:

Effective Collection Area of Filter:	Microscope Field Area:	NIOSH 7400 Method A Rules ✓
✓ 385 mm², 25 mm filter	✓ 0.00785 mm²	
855 mm², 37 mm filter	other (list)	Other Method

ANALYTICAL INFORMATION:

MICROSCOPE ADJUSTMENTS: ✓ phase test ✓ micrometer ✓ adjust field iris ✓ adjust phase rings ✓ focus on samples

ANALYST INFORMATION:

DATE: 12/1/00 ANALYST: Patrick McGurren SIGNATURE: [signature]

URS COPY

Project No. 805169
File Code No. 4.5.6.4.244
Doc No.

KEH97/FORMS/FIBERFRM

RJ Lee *Group*, Inc.

350 Hochberg Road
Monroeville, PA 15146
Tel: (724) 325-1776
Fax: (724) 733-1799

The Materials Characterization Specialists

Mr. James Stout
URS Corporation
317 Mineral Avenue
Libby, MT 59923

November 28, 2000

RE: Soil samples from Libby, MT
RJ Lee Group Project LBH010518

Dear Mr. Stout:

RJ Lee Group has completed our analysis on the three samples of soil, identified as Grid R, Grid H, and Grid I. The samples were received at RJ Lee Group on November 21, 2000 and assigned our sample numbers as follows 3026635, 3026636, and 3026637.

The samples were analyzed for fibrous asbestos (asbestiform) content using polarized light microscopy (PLM) following the point count method outlined in EPA/600/R-93/116, Method for the Determination of Asbestos in Bulk Building Materials. The results are presented in the following table:

Location	Sample	Analysis
Libby, MT Grid excavating	Grid R (3026635)	0.0% No Asbestos Detected
Libby, MT Grid excavating	Grid H (3026636)	Trace Actinolite/Tremolite
Libby, MT Grid excavating	Grid I (3026637)	0.0% No Asbestos Detected

RJ Lee Group is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP, #101208-00) for asbestos fiber analysis. This report may not be used to claim product endorsement by NVLAP or any agency of the US government.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the sample for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples.

If you have any questions on this report or if we can be of further assistance, please feel free to call me.

Sincerely,

Drew R Van Orden

Drew R. Van Orden, PE
Senior Scientist

URS COPY
Project No. 805167
File Code No. 10.3.a.3.25
Doc No. 9 of 12

RJ LeeGroup, Inc.

F192095

Request for Laboratory Services

For RJ Lee Group Use Only	Page
Project No.	
Date Logged	By

Report Results To

Name Jim Stout / Pete Rendreds Title Project Manager
Company URS Corporation
Mailing Address 317 Mineral Avenue
City Libby State MT Zip 59923
Telephone 406-293-3934 Fax (406)293-3749

Purchase Order No. 537421 Client Job No. 805169

Send Invoice To

Name Heather Sewing
Company URS Corporation
Address 707 Seventeenth St., Ste. 3100
City Denver State CO Zip 80202

Date Results Required | Rush Charges Authorized? Yes ☐ No ☐ | Phone Results ☐

(Complete if applicable) ☐ Drinking Water State Where Collected ____

Special Instructions: (Method, limit of detection, etc.)

*Explanation of Preservative:

ANALYSIS REQUESTED
(Enter analysis type and check the box to indicate request; Enter a 'P' if Preservative added.)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	ASBESTOS	FOR LAB USE ONLY
GRID - Z	11-20-00	SOIL		1	✓	
GRID - Y				1	✓	
GRID - Q				1	✓	
GRID - R				1	✓	
GRID - H				1	✓	
GRID - I	11-20-00	SOIL		1	✓	

Chain of Custody

Relinquished by: [signature]	Date: 11-20-00 Time: 1600	Received by: [signature]	Date: 11-22-00 Time: 9:30AM
Relinquished by:	Date: Time:	Received at Lab by:	Date: Time:
Method of Shipment:	Date: Time:	Sample Condition Upon Receipt: ☐ Acceptable	☐ Other (explain on reverse

Please return completed form to one of RJ Lee Group's Laboratories:

350 Hochberg Road
Monroeville, PA 15146-1516
(724) 325-1776

530 McCormick Street
San Leandro, CA 94577
(510) 567-0480
(510) 567-0488 - Fax

10501 Battleview Parkway
Manassas, VA 20109
(703) 368-7880
(703) 368-7761 - Fax

Confirmation soil samples (results 10.3.a.3.25)

RS

Project No. 805169
Area Code No. 10.3.a.3.23
Phase No.

RJ Lee *Group*, Inc.

350 Hochberg Road
Monroeville, PA 15146
Tel: (724) 325-1776
Fax: (724) 733-1799

The Materials Characterization Specialists

Mr. James Stout
URS Corporation
317 Mineral Avenue
Libby, MT 59923

November 28, 2000

RE: Soil samples from Libby, MT
RJ Lee Group Project LBH010518

Dear Mr. Stout:

RJ Lee Group has completed our analysis on the three samples of soil, identified as Grid Z, Grid Y, and Grid Q. The samples were received at RJ Lee Group on November 21, 2000 and assigned our sample numbers as follows 3026632, 3026633, and 3026634.

The samples were analyzed for fibrous asbestos (asbestiform) content using polarized light microscopy (PLM) following the point count method outlined in EPA/600/R-93/116, Method for the Determination of Asbestos in Bulk Building Materials. The results are presented in the following table:

Location	Sample	Analysis
Libby, MT Grid excavating	Grid Z (3026632)	0.0% No Asbestos Detected
Libby, MT Grid excavating	Grid Y (3026633)	Trace Actinolite/Tremolite
Libby, MT Grid excavating	Grid Q (3026634)	0.0% No Asbestos Detected

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the sample for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples.

If you have any questions on this report or if we can be of further assistance, please feel free to call me.

Sincerely,

Drew R Van Orden

Drew R. Van Orden, PE
Senior Scientist

URS COPY
Project No. 805169
File Code No. 10.3.9.3.25
Doc No. 1/2

RJ Lee *Group*, Inc.

350 Hochberg Road
Monroeville, PA 15146
Tel: (724) 325-1776
Fax: (724) 733-1799

The Materials Characterization Specialists

Mr. James Stout
URS Corporation
317 Mineral Avenue
Libby, MT 59923

November 28, 2000

RE: Soil samples from Libby, MT
RJ Lee Group Project LBH010518

Dear Mr. Stout:

RJ Lee Group has completed our analysis on the three samples of soil, identified as Grid G, Grid AA, and Grid AB. The samples were received at RJ Lee Group on November 21, 2000 and assigned our sample numbers as follows 3026629, 3026630, and 3026631.

The samples were analyzed for fibrous asbestos (asbestiform) content using polarized light microscopy (PLM) following the point count method outlined in EPA/600/R-93/116, Method for the Determination of Asbestos in Bulk Building Materials. The results are presented in the following table:

Location	Sample	Analysis
Libby, MT Grid excavating	Grid G (3026629)	0.00% No Asbestos Detected
Libby, MT Grid excavating	Grid AA (3026630)	0.0% No Asbestos Detected
Libby, MT Grid excavating	Grid AB (3026631)	0.0% No Asbestos Detected

RJ Lee Group is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP, #101208-00) for asbestos fiber analysis. This report may not be used to claim product endorsement by NVLAP or any agency of the US government.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the sample for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples.

If you have any questions on this report or if we can be of further assistance, please feel free to call me.

Sincerely,

Drew R Van Orden

Drew R. Van Orden, PE
Senior Scientist

URS COPY
Project No. 805169
File Code No. 10.3.a.3.26
Doc No.

RJ LeeGroup, Inc.

F192095

Request for Laboratory Services

For RJ Lee Group Use Only	Page
Project No.	
Date Logged	By

Report Results To

Name: Jim Stout / Pete Rendrick Title: Project Manager
Company: URS Corporation
Mailing Address: 317 Mineral Avenue
City: Libby State: MT Zip: 59923
Telephone: Fax:

Purchase Order No.: 537421 Client Job No.: 805169

Send Invoice To

Name: Heather Sewing
Company: URS Corporation
Address: 707 Seventeenth St., Ste. 3400
City: Denver State: CO Zip: 80202

Date Results Required: Rush Charges Authorized? Yes ☐ No ☐ Phone Results ☐

(Complete if applicable) ☐ Drinking Water State Where Collected: ____

Special Instructions: (Method, limit of detection, etc.)

*Explanation of Preservative:

ANALYSIS REQUESTED
(Enter analysis type and check the box to indicate request; Enter a 'P' if Preservative added.)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	ASBESTOS									FOR LAB USE ONLY
GRID G	11-21-00	Soil		1	✓									
GRID AA	11-21-00	Soil		1	✓									
GRID AB	11-21-00	Soil		1	✓									

Chain of Custody

Relinquished by: [signature]	Date: 11-21-00	Time: 0400	Received by: [signature]
Relinquished by:	Date:	Time:	Received at Lab by:
Method of Shipment:	Date:	Time:	Sample Condition Upon Receipt: ☐ Acceptable ☐ Other (explain on reverse)

Received by: Date: 11-22-00 Time: 9:30AM
Received at Lab by: Date: Time:

Please return completed form to RJ Lee Group's Laboratories:

350 Hochberg Road, Monroeville, PA 15146-1516, (412) 325-1776
530 McCormick Street, San Leandro, CA 94577, (510) 567-0180
10503 Battleview Parkway, Manassas, VA 20109, (703) 368-7880, (703) 368-7761 - Fax

Confirmation soil samples (results 10.3.a.3.26)

805169
10.3.a.3.24