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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

February 24, 2006

MEMORANDUM

SUBJECT: April, 2005 El Dorado Asbestos in Soil Performance Evaluation Sample Study

FROM: Stephen Remaley
Chemist/Superfund Regional CLP Project Officer
Quality Assurance Office (PMD-3)

TO: Jere Johnson
Site Assessment Manager
States, Tribes, and Site Assessment Office (SFD 9-1)

The purpose of this memorandum is to address qualification comments in data validation reviews generated by Trillium Corp. for the April, 2005 asbestos in soil multi-laboratory performance evaluation studies for the El Dorado County site. Data validation comments in the subject data reviews suggested that sample results produced by EPA contracted laboratories may be biased high based on extrapolation of results for PE samples analyzed in the same time frame as the site samples where PE results were reported that were higher than the known or intended spike levels. A review of the PE results shows that this not true. A summary of performance evaluation sample (PE) results for the asbestos in soil multi-laboratory conducted in April, 2005 for the El Dorado County site along with acceptance windows is attached. Please note that EPA contracted laboratory PE results fall within the expected acceptance windows for the PE samples.

I have discussed the data review comments with Lisa Johnson with Ecology and Environment and learned that the data review comments were generated by reviews prior to receipt of the PE scoring results. The comments referring to high bias are invalid and should be disregarded. The PE ranges which were provided by the vendor of the PE samples, Research Triangle Institute (RTI) are typical ranges utilized for proficiency testing programs for NVLAP, AIHA, and the US Navy.

Please contact me at 415-972-3802 if you have any questions.

cc: Karen Ladd

Attachment

Asbestos in Soil
Performance Evaluation Sample
Multi-laboratory Study
April 2005
Revised October 11, 2005

Sample	Conc.	RTI International Originator of Samples		EMSL Original		EMSL Re-Analysis*		Asbestos TEM		EMS Laboratories		
		PLM LCL	PLM UCL	PLM	TEM Qualitative Confirmation Only	PLM	TEM Qualitative Confirmation Only	PLM	TEM Qualitative Confirmation Only	PLM Point Count	PLM Visual Count	TEM Qualitative Confirmation Only
EDH-ZP2	0.5% Chrysotile	.1%	4%	3% Chrysotile	Chrysotile	3% Chrysotile	NA	3% Chrysotile	Chrysotile	2% Chrysotile	2% Chrysotile	Chrysotile
	0.5% Tremolite	0.1%	5%	10% Wollastonite	None	5% Fibrous (Other)	Tremolite	2% Tremolite	Tremolite	3% Tremolite	3% Tremolite	None
EDH-ZP3	2% Chrysotile	>1	10%	5% Chrysotile	Chrysotile	5% Chrysotile	NA	8% Chrysotile	Chrysotile	4% Chrysotile	4.75% Chrysotile	Chrysotile
	2% Tremolite	>1	10%	10% Wollastonite	None	5% Fibrous (Other)	Tremolite	6% Tremolite	Tremolite	3% Tremolite	3.25% Tremolite	None

*Only amphiboles re-analyzed. EMSL also found "Libby Amphibole" in both samples at concentrations of 0.3936% and 0.3769% for ZP2 and ZP3 respectively.

TRILLIUM INC.
Consultants in Environmental Chemistry

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July 6, 2005

Via FedEx

Ms. Lisa M. Johnson
ecology and environment, inc.
350 Sansome Street, Suite 300
San Francisco, California 94104

Dear Lisa:

Please find enclosed the data validation reports and laboratory data packages for the samples analyzed by Asbestos TEM Laboratories from the El Dorado Hills Site. These include laboratory reports numbered 049351, 049352, 049487, and 049488. This shipment also includes the project QAPP, the Field Sampling Plan, and the data the laboratory provided for the proficiency testing.

If you have any questions please do not hesitate to contact me at (302) 992-9737.

Sincerely,

Denise Shepperd
QA Manager

DAS/hrs
Enclosures
Cc: Liz Dickinson, Trillium (w/o enclosures)

TRILLIUM INC.

Data Validation Report

TDD No.	09–04-01-0011
PAN:	001275.0440.01TA
Site:	El Dorado Hills, California
Laboratory:	Asbestos TEM Laboratories, Inc.
Reviewer:	Denise A. Shepperd, Trillium, Inc.
Date:	June 29, 2005

I. Case Summary

SAMPLE INFORMATION:

Samples IDs: NYB-S03-100804; NYB-SS04-100804; NYB-SS03-100804; NYB-SS02-100804; NYB-S104-100804; NYB-S10-100804; NYB-S09-100804; NYB-S08-100804; NYB-S07-100804; NYB-S06-100804; NYB-SS05-100804; NYB-S04-100804; NYB-SS104-100804; CPS-CS01-100804; CPS-S101-100804; CPS-S07-100804; CPS-S06-100804; CPS-S05-100804; CPS-S04-100804; CPS-S03-100804; CPS-S02-100804; NYB-S05-100804; NYT-SC1-100804; NYT-SF3-100804; NYT-SF2-100804; NYT-SF1-100804; NYT-S1E1-100804; NYT-SE3-100804; NYT-SE2-100804; NYT-SE1-100804; NYT-SD3-100804; NYT-SD2-100804; NYB-SS06-100804; NYT-SC3-100804; NYT-SG1-100804; NYT-SB2-100804; NYT-SB1-100804; NYT-SA3-100804; NYT-SA2-100804; NYT-SA1-100804; NYB-CSS01-100804; NYB-CS01-100804; NFB-SS06-100804; NYB-SS07-100804; NYT-SD1-100804; SFB-SS07-100804; CPS-S01-100804; NFB-S07-100804; NFB-S06-100804; NFB-S05-100804; NFB-S04-100804; NFB-S03-100804; NFB-S02-100804; NFB-S01-100804; NFB-SS07-100804; SFB-SS107-100804; NYB-S02-100804; SFB-SS06-100804

Matrix:	58 Soil Samples
Analysis:	Asbestos by Polarized Light Microscopy
Method:	NIOSH 9002
Collection Date:	October 8, 2004
Sample Receipt Date:	April 15, 2005
Analysis Dates:	April 20 through 22, 2005 and May 2, 2005

FIELD QC:

Trip Blanks (TB):	None
Field Blanks (FB):	None
Equipment Blanks (EB):	None
Background Samples (BG):	None
Field Duplicates :	NYB-S104-100804 and NYB-S04-100804; NYB-SS104-100804 and NYB-SS04-100804; NYT-S1E1-100804 and NYT-SE1-100804; CPS-S101-100804 and CPS-S01-100804; and SFB-SS107-100804 and SFB-SS07-100804

TABLES:

1A: Analytical Results with Qualifications
1B: Data Qualifier Definitions for Inorganic Data Review

SAMPLING ISSUES:

Three chain of custody records received by the laboratory with the delivery of the samples included all of the samples identified in this data set. According to these records, the samples were collected on 10/8/04 but were not relinquished until 12/7/04. No indication is made of the disposition of the samples during this period of time and from the documentation provided, the custodian of the samples during this time cannot be determined. A second set of "relinquished and received" signatures appear for "all/return" of the samples; samples were relinquished on 3/11/05 and received on 4/12/05. There is no indication of the disposition of the samples during the month between these dates. A third set of relinquished and received signatures appears, both for the date 4/15/05. There is no indication what this transfer represented on the COC records, however, the laboratory documentation indicates that the samples were received on 4/15/05 from FedEx. This would indicate that FedEx delivered the sample on the same day they were shipped. COC records should provide sufficient information (sampler initials, affiliations for all parties, and/or reasons for transfer). These documents should support every transfer of the samples from the day of collection to the day of return or disposal. The COC documents included with these samples do not fulfill this purpose.

VALIDATION PARAMETERS AND COMMENTS:

I. Holding Times, Preservation and Sample Integrity

This parameter is evaluated to ensure that sample custody is documented from collection through analysis, samples are analyzed within the recommended holding time, and that no alteration in sample content has occurred during sample shipment, handling, and storage.

There is no established holding time or storage condition for asbestos samples.

According to the laboratory log-in report, all samples were received in excellent condition from FedEx. No airbill number or copy of the applicable airbill was included in the data package.

II. Calibration

The analyses of materials of known content ensures that identification and quantitation of analytes will be accurate for all samples. Review of the documentation provided for appropriate calibration determines whether or not the analytical results reported by the laboratory are valid and supported by the data.

Asbestos TEM Laboratories, Inc., participates in NVLAP. Documentation of the laboratory's current certification for EPA Method 600/M4-82-020 and "relevant requirements of ISO 9002:1994," which include PLM analyses for solid materials, was included in the data package. The certificate is effective through the end of June, 2005. Should additional information regarding the laboratory's ability to accurately identify and quantify asbestos be desired, results and supporting data for samples from this PE program should be obtained from the laboratory.

Logbook pages including daily microscope checks for dates 4/25/05, 4/26/05, 4/27/05, 4/28/05, 5/3/05, and 5/4/05 were included. Analyses of the samples in this data set were performed on 4/21/05 through 4/22/05, and 5/2/05. Microscope checks, which are required on each day before samples are analyzed, were not documented for the days

on which the samples in this data set were analyzed. Monthly dispersive oil calibration documentation was provided on a separate logbook page. According to the documentation the applicable calibration was performed on 4/12/05.

Two performance evaluation samples, prepared for this project by RTI, were submitted to the laboratory. The PE samples were analyzed on 3/4/05. No documentation of microscope or other QC checks was included with the PE sample data. Two sets of raw data were included, representing identification and visual estimation performed by two different analysts. The two PE samples were generated by RTI at two different asbestos concentrations. The first sample contained tremolite and chrysotile asbestos, each at 0.5% (1% total asbestos). The second contained each of these two asbestos types at 2% (4% total asbestos). The laboratory's results for total asbestos for these two samples were 5% and 14%, respectively. These are the only reference materials presented with this data set. The results the laboratory reported for these PEs are greater than three to five times the prepared concentrations, indicating the potential for high bias in positive results. Results for all of the samples in this data set were qualified as estimated (J) on this basis.

III. Blanks

Sample matrices known to be devoid of the analytes of interest (method blanks) are prepared and analyzed with each analytical batch. Evaluation of this parameter ensures that contamination introduced during preparation and analyses is not attributed to the field samples. Other blanks may be generated in the field or laboratory to ensure that no contamination is introduced during sampling and/or storage.

A total of 16 laboratory blanks (all included in data set 049488) were prepared and analyzed with the sample batches associated with this data set (049351, 049352, 049487, and 049488)and represented both the drying and grinding steps of sample preparation. No asbestos structures were identified in any of these sixteen blanks. Two of these laboratory blanks, LAB-BL09-101104 and LAB-BL13-101104 were analyzed as laboratory duplicate pairs. Results for the duplicates in both cases were ND and <1%. Because results for all of the field samples were previously qualified as estimated based on the high bias observed in the reference material, no additional action was taken on the basis of blank results.

No field-generated blanks were included with this data set.

IV. Spiked Samples

The analytes of interest are added in known concentrations to like-matrix blanks or authentic field samples before preparation. This parameter is evaluated in order to assess the laboratory's ability to preserve and recover the compounds of interest.

See Section II for a discussion of the PE (spiked) samples submitted with this data set.

No other spiked analyses were performed with this sample set.

V. Duplicate/Replicate Samples

Results for duplicate/replicate samples are evaluated to assess the laboratory's precision for the analytes of interest in the applicable sample matrix.

Five field duplicate pairs (NYB-S104-100804 and NYB-S04-100804; NYB-SS104-100804 and NYB-SS04-100804; NYT-S1E1-100804 and NYT-SE1-100804; CPS-S101-100804 and CPS-S01-100804; and SFB-SS107-100804 and SFB-SS07-100804) were included with this data set. Results for two of the pairs (NYB-SS04-100804

and NYB-SS104-100804 and SFB-SS07-100804 and SFB-SS107-100804) showed excellent agreement. For the other three duplicate pairs one sample was reported to contain less than one percent (<1%) and the other was reported to contain one to five percent (1-5%). Results for these samples were previously qualified as estimated based on the high bias observed in the PE samples and no further action was taken by the validator on the basis of duplicate sample results.

The laboratory prepared and analyzed 14 laboratory duplicate sample pairs. Of these all but one pair had identical results. The remaining duplicate pair, SFB-SS06-100804 and its duplicate, had results of ND and < 1%. The laboratory reported the higher of the two results, which is appropriate for these analyses. No action was warranted by the validator.

VI. Identification

Identification of asbestos is dependent on sample preparation techniques, analyst training, instrument operation, and data interpretation. Comparison with results from known standards is used to evaluate the accuracy of the structure identification for field samples.

Chrysotile and tremolite asbestos were correctly identified in the PE samples (see Section II). Only actinolite was identified in the field samples. Identification was based on the various optical properties of the asbestos fibers and was correctly performed, based on review of the raw data. Values for the optical properties recorded by the laboratory on the PLM data sheets were identical for all samples in which this asbestos type was identified.

The laboratory passed the criteria for NVLAP, based on the documentation provided, however, no actual sample results or raw data for the analyses of NVLAP PE samples were provided.

Analysis of the project PE samples was performed by an analyst with the initials DV and a second whose signature was illegible. Analyses of the field samples were performed by analysts with the initials SF and MB. It is recommended that documentation be included in the data packages for each sample batch that support the correct identification of asbestos by the analysts who perform the analyses on the field samples.

VII. Visual Estimation and Reported Detection Limits

Raw data documentation is reviewed to ensure that all reported results and detection limits are correctly calculated, accurately reported, and supported by the raw data.

The laboratory's results for the two PE samples provided in association with this project were within the acceptance ranges suggested by RTI, however, a consistent tendency toward over estimation was observed. RTIs suggested range for the first PE (0.5% each of tremolite and chrysotile) were 0.1 to 5% and 0.1 to 4%, respectively. The laboratory found 2% tremolite and 3% chrysotile. If reported in the same manner as the field samples, this would result in a reported total asbestos content of 1-5%. RTI's suggested range for the second PE (2% each of tremolite and chrysotile) was >1 to10% for both asbestos types. The laboratory reported results of 6% tremolite and 8% chrysotile, a total asbestos content of 14%.

Field sample results for PLM analyses associated with this project were reported by the laboratory as ND (not detected), <1%, or 1-5% total asbestos by weight. None of the field samples were reported with concentrations higher than the range 1-5%. Both of the PE sample true concentrations fell within these ranges. In the case of both PE samples, the laboratory's reported values show high bias, exceeding the true values by factors of three to five. Based on the indications of high bias in the only reference material analyzed and professional judgement, the validator qualified all positive sample results as estimated (J). The data user is cautioned that these results are likely biased high.

VIII. System Performance

This parameter is evaluated to ensure that the laboratory analytical systems were functioning properly at the time of analyses and that methodology appropriate to the analyses were followed.

The analytical system appears to have been working satisfactorily at the time of these analyses, based on the documentation provided in this data package shipment.

IX. Documentation

Data and documentation completeness is critical in providing support for the reported results. Problems encountered with the nature or quality of the data package documentation are addressed.

The COC documentation included in the data package does not adequately support the custody of the samples in the data set.

Documentation of microscope checks should be included for every day on which samples are analyzed.

COMMENTS:

A. Based on the indications of high bias in the only reference material analyzed in association with this data set, and on professional judgement, the validator qualified all positive sample results for these samples as estimated (J). The data user is cautioned that these results are likely biased high.

This report was prepared according to the specifications of the analytical method, NIOSH 9002, Asbestos (bulk) by PLM, the document "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," 10/99, and Trillium, Inc.'s SOP No. 0497-06A, for Validation of Analytical Data: Inorganic Analytes.

ANALYTICAL RESULTS
TABLE 1A

TDD No. 09-04-01-0011
PAN: 001275.0440.01.TA
Site: El Dorado Hills, California
Lab: Asbestos TEM Laboratories, Inc.
Reviwer: Denise A. Shepperd, Trillium, Inc.
Date: June 29, 2005

Analysis Type: Soil Samples for Asbestos

Results as Percentage Asbestos

Station Location	NYB-S03-100804			D2 NYB-SS04-100804			NYB-SS03-100804			NYB-SS02-100804			D1 NYB-S104-100804		
Sample Lab I.D.	741-00023-001			741-00023-002			741-00023-003			741-00023-004			741-00023-005		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	1-5%	J	A	1-5%	J	A	1-5%	J	A	<1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	NYB-S10-100804			NYB-S09-100804			NYB-S08-100804			NYB-S07-100804			NYB-S06-100804		
Sample Lab I.D.	741-00023-006			741-00023-007			741-00023-008			741-00023-009			741-00023-010		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	1-5%	J	A	< 1%	J	A	< 1%	J	A	1-5%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	NYB-SS05-100804			D1 NYB-S04-100804			D2 NYB-SS104-100804			CPS-CS01-100804			D4 CPS-S101-100804		
Sample Lab I.D.	741-00023-011			741-00023-012			741-00023-013			741-00023-014			741-00023-015		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	1-5%	J	A	1-5%	J	A	1-5%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	CPS-S07-100804			CPS-S06-100804			CPS-S05-100804			CPS-S04-100804			CPS-S03-100804		
Sample Lab I.D.	741-00023-016			741-00023-017			741-00023-018			741-00023-019			741-00023-020		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	< 1%	J	A	< 1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Val-Validity Refer to Data Qualifiers in Table 1B.
Com-Comments Refer to the Corresponding Section in the Narrative for each letter.

D1, D2, etc. - Field Duplicate Pairs

ANALYTICAL RESULTS
TABLE 1A

TDD No. 09-04-01-0011
PAN: 001275.0440.01.TA
Site: El Dorado Hills, California
Lab: Asbestos TEM Laboratories, Inc.
Reviwer: Denise A. Shepperd, Trillium, Inc.
Date: June 29, 2005

Analysis Type: Soil Samples for Asbestos

Results as Percentage Asbestos

Station Location	CPS-S02-100804			NYB-S05-100804			NYT-SC1-100804			CPS-SF3-100804			NYT-SF2-100804		
Sample Lab I.D.	741-00023-021			741-00023-022			741-00023-023			741-00023-024			741-00023-025		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	1-5%	J	A	< 1%	J	A	1-5%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	NYT-SF1-100804			D3 NYT-S1E1-100804			NYT-SE3-100804			NYT-SE2-100804			D3 NYT-SE1-100804		
Sample Lab I.D.	741-00023-026			741-00023-027			741-00023-028			741-00023-029			741-00023-030		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	1-5%	J	A	< 1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	NYT-SD3-100804			NYT-SD2-100804			NYB-SS06-100804			NYT-SC3-100804			NYT-SG1-100804		
Sample Lab I.D.	741-00023-031			741-00023-032			741-00023-033			741-00023-034			741-00023-035		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	1-5%	J	A	1-5%	J	A	1-5%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	NYT-SB2-100804			NYT-SB1-100804			NYT-SA3-100804			NYT-SA2-100804			NYT-SA1-100804		
Sample Lab I.D.	741-00023-036			741-00023-037			741-00023-038			741-00023-039			741-00023-040		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	1-5%	J	A	1-5%	J	A	1-5%	J	A	1-5%	J	A	1-5%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Val-Validity Refer to Data Qualifiers in Table 1B.
Com-Comments Refer to the Corresponding Section in the Narrative for each letter.

D1, D2, etc. - Field Duplicate Pairs

ANALYTICAL RESULTS
TABLE 1A

TDD No. 09-04-01-0011
PAN: 001275.0440.01.TA
Site: El Dorado Hills, California
Lab: Asbestos TEM Laboratories, Inc.
Reviwer: Denise A. Shepperd, Trillium, Inc.
Date: June 29, 2005

Analysis Type: Soil Samples for Asbestos

Results as Percentage Asbestos

Station Location	NYB-CSS01-100804			NYB-CS01-100804			NYB-SS06-100804			NYT-SS07-100804			NYT-SD1-100804		
Sample Lab I.D.	741-00023-041			741-00023-042			741-00023-043			741-00023-044			741-00023-045		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	< 1%	J	A	1-5%	J	A	1-5%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	SFB-SS07-100804			D4 CPS-S01-100804			NFB-S07-100804			NFB-S06-100804			NFB-S05-100804		
Sample Lab I.D.	741-00023-046			741-00023-047			741-00023-048			741-00023-049			741-00023-050		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	1-5%	J	A	< 1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	NFB-S04-100804			NFB-S03-100804			NFB-S02-100804			NFB-S01-100804			D5 NFB-SS07-100804		
Sample Lab I.D.	741-00023-051			741-00023-052			741-00023-053			741-00023-054			741-00023-055		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	1-5%	J	A	1-5%	J	A	< 1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	D5 SFB-SS107-100804			NYB-S02-100804			SFB-SS06-100804								
Sample Lab I.D.	741-00023-056			741-00023-057			741-00023-058								
Date of Collection	10/8/04			10/8/04			10/8/04								
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	1-5%	J	A	< 1%	J	A						
Type	Actinolite			Actinolite			Actinolite								

Val-Validity Refer to Data Qualifiers in Table 1B.
Com-Comments Refer to the Corresponding Section in the Narrative for each letter.

D1, D2, etc. - Field Duplicate Pairs

TRILLIUM INC.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared in accordance with the document, "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," 2/94.

U The analyte was analyzed for, but was not detected above the level of the reported value. The reported value is either the sample quantitation limit or the sample detection limit.

L Indicates results which fall between the sample detection limit and the CRDL. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.

J The associated value is an estimated quantity. The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample.

R The data are unusable. The analyte was analyzed for, but the presence or absence of the analyte cannot be verified.

UJ A combination of the "U" and "J" qualifier. The analyte was analyzed for but was not detected. The reported value is an estimate and may be inaccurate or imprecise.

TRILLIUM INC.

Data Validation Report

TDD No.	09–04-01-0011
PAN:	001275.0440.01TA
Site:	El Dorado Hills, California
Laboratory:	Asbestos TEM Laboratories, Inc.
Reviewer:	Denise A. Shepperd, Trillium, Inc.
Date:	June 30, 2005

I. Case Summary

SAMPLE INFORMATION:

Samples IDs: SFB-SS05-100804; SFB-SS04-100804; SFB-SS03-100804; SFB-SS02-100804; SFB-SS01-100804; SFB-S02-100804; NYB-SS01-100804; NYB-S01-100804; SFB-CSS01-100804; SFB-CS01-100804; NYT-SC2-100804; NFB-SS05-100804; NFB-SS04-100804; NFB-SS03-100804; NFB-SS02-100804; NFB-SS01-100804; NFB-S110-100804; NFB-S10-100804; SFB-S10-100804; NFB-S08-100804; SFB-CS101-100804; NFB-S09-100804; SFB-S107-100804; SFB-S07-100804; SFB-S06-100804; SFB-S08-100804; SFB-S05-100804; SFB-S04-100804; SFB-S03-100804; SFB-S01-100804; NFB-CSS01-100804; SFB-S09-100804; NYT-S13-100804; NFB-CS01-100804; NYT-SJ2-100804; NYT-SJ1-100804; NYT-SI2-100804; NYT-SI1-100804; NYT-SIA2-100804; NYT-S1G2-100804; NYT-S104-100804; NYT-SB3-100804; NYT-CS02-100804; NYT-SH1-100804; NYT-SJ3-100804; NYT-CS101-100804; NYT-SG2-100804; NYT-SG3-100804; NYT-SH2-100804; NYT-SH3-100804; NYT-S01-100804; NYT-S02-100804; NYT-S03-100804; NYT-S04-100804; NYT-CS01-100804; SVB-S09-100904; DEM-S09-100904; DEM-S06-100904; DEM-S01-100904; and DEM-S02-100904

Matrix:	60 Soil Samples
Analysis:	Asbestos by Polarized Light Microscopy
Method:	NIOSH 9002
Collection Dates:	October 8 and 9, 2004
Sample Receipt Date:	April 15, 2005
Analysis Dates:	April 25 and 26, 2005 and May 2, 2005

FIELD QC:

Trip Blanks (TB):	None
Field Blanks (FB):	None
Equipment Blanks (EB):	None
Background Samples (BG):	None
Field Duplicates :	NFB-S10-100804 and NFB-S110-100804; SFB-CS01-100804 and SFB-CS101-100804; NYT-SG2-100804 and NYT-S1G2-100804; NYT-SA2-100804* (*in data set 049351) and NYT-S1A2-100804; NYT-S04-100804 and NYT-S104-100804; NYT-CS01-100804 and

NYT-CS101-100804; SFB-S07-100804 and SFB-S107-100804; and DEM-S06-100904 and DEM-S106-100904* (*in data set 049487)

TABLES:

1A: Analytical Results with Qualifications
1B: Data Qualifier Definitions for Inorganic Data Review

SAMPLING ISSUES:

Three chain of custody records received by the laboratory with the delivery of the samples included all of the samples identified in this data set. According to these records, the samples were collected on 10/8/04 and 10/9/04, but were not relinquished until 12/7/04. No indication is made of the disposition of the samples during this period of time and from the documentation provided, the custodian of the samples during this time cannot be determined. A second set of "relinquished and received" signatures appear for "all/return" of the samples; samples were relinquished on 3/11/05; no "received by" date or time were recorded for this transfer. A third set of relinquished and received signatures appears, for the dates 4/15/05 and 4/16/05, however, according to the dates recorded, the samples were received the day before they were relinquished. There is no indication what this transfer represented on the COC records, however, the laboratory documentation indicates that the samples were received on 4/15/05. COC records should provide sufficient information (sampler initials, affiliations for all parties, and/or reasons for transfer). These should support every transfer of the samples from the day of collection to the day of return or disposal. The COC documents included with these samples do not fulfill this purpose.

VALIDATION PARAMETERS AND COMMENTS:

I. Holding Times, Preservation and Sample Integrity

This parameter is evaluated to ensure that sample custody is documented from collection through analysis, samples are analyzed within the recommended holding time, and that no alteration in sample content has occurred during sample shipment, handling, and storage.

There is no established holding time or storage condition for asbestos samples.

According to the laboratory log-in report, all samples were received in excellent condition from "the client."

II. Calibration

The analyses of materials of known content ensures that identification and quantitation of analytes will be accurate for all samples. Review of the documentation provided for appropriate calibration determines whether or not the analytical results reported by the laboratory are valid and supported by the data.

Asbestos TEM Laboratories, Inc., participates in NVLAP. Documentation of the laboratory's current certification for EPA Method 600/M4-82-020 and "relevant requirements of ISO 9002:1994," which include PLM analyses for solid materials, was included in the data package. The certificate is effective through the end of June, 2005. Should additional information regarding the laboratory's ability to accurately identify and quantify asbestos be desired, results and supporting data for samples from this PE program should be obtained from the laboratory.

Logbook pages including daily microscope checks for dates 4/25/05, 4/26/05, 4/27/05, 4/28/05, 5/3/05, and 5/4/05 were included. Analyses of the samples in this data set were performed on 4/25/05 through 4/26/05 and 5/2/05. A microscope check, which is required on each day before samples are analyzed, was not documented for one of the days on which the samples in this data set were analyzed. Monthly dispersive oil calibration documentation

was provided on a separate logbook page. According to the documentation the applicable calibration was performed on 4/12/05.

Two performance evaluation samples, prepared for this project by RTI, were submitted to the laboratory. The PE samples were analyzed on 3/4/05. No documentation of microscope or other QC checks was included with the PE sample data. Two sets of raw data were included, representing identification and visual estimation performed by two different analysts. The two PE samples were generated by RTI at two different asbestos concentrations. The first sample contained tremolite and chrysotile asbestos, each at 0.5% (1% total asbestos). The second contained each of these two asbestos types at 2% (4% total asbestos). The laboratory's results for total asbestos for these two samples were 5% and 14%, respectively. These are the only reference materials presented with this data set. The results the laboratory reported for these PEs are greater than three to five times the prepared concentrations, indicating the potential for high bias in positive results. Results for all of the samples in this data set were qualified as estimated (J) on this basis.

III. Blanks

Sample matrices known to be devoid of the analytes of interest (method blanks) are prepared and analyzed with each analytical batch. Evaluation of this parameter ensures that contamination introduced during preparation and analyses is not attributed to the field samples. Other blanks may be generated in the field or laboratory to ensure that no contamination is introduced during sampling and/or storage.

A total of 16 laboratory blanks (all included in data set 049488) were prepared and analyzed with the sample batches associated with this data set (049351, 049352, 049487, and 049488)and represented both the drying and grinding steps of sample preparation. No asbestos structures were identified in any of these sixteen blanks. Two of these laboratory blanks, LAB-BL09-101104 and LAB-BL13-101104 were analyzed as laboratory duplicate pairs. Results for the duplicates in both cases were ND and <1%. Because results for all of the field samples were previously qualified as estimated based on the high bias observed in the reference material, no additional action was taken on the basis of laboratory blank results.

No field-generated blanks were included with this data set.

IV. Spiked Samples

The analytes of interest are added in known concentrations to like-matrix blanks or authentic field samples before preparation. This parameter is evaluated in order to assess the laboratory's ability to preserve and recover the compounds of interest.

See Section II for a discussion of the PE (spiked) samples submitted with this data set.

No other spiked analyses were performed with this sample set.

V. Duplicate/Replicate Samples

Results for duplicate/replicate samples are evaluated to assess the laboratory's precision for the analytes of interest in the applicable sample matrix.

Eight field duplicate pairs (NFB-S10-100804 and NFB-S110-100804; SFB-CS01-100804 and SFB-CS101-100804; NYT-SG2-100804 and NYT-S1G2-100804; NYT-SA2-100804* (*in data set 049351) and NYT-S1A2-100804; NYT-S04-100804 and NYT-S104-100804; NYT-CS01-100804 and NYT-CS101-100804; SFB-S07-100804 and SFB-S107-100804; and DEM-S06-100904 and DEM-S106-100904* (*in data set 049487) were

included with this data set. Results for five of the pairs (SFB-CS01-100804 and SFB-CS101-100804; NYT-SG2-100804 and NYT-S1G2-100804; NYT-SA2-100804 and NYT-S1A2-100804; NYT-CS01-100804 and NYT-CS101-100804; and SFB-S07-100804 and SFB-S107-100804) showed excellent agreement. For the other three duplicate pairs one sample was reported to contain less than one percent (<1%) and the other was reported to contain one to five percent (1-5%). Based on 95% confidence limits for a result of 1% and professional judgement, these results show acceptable agreement. No qualifiers were applied on the basis of agreement between field duplicates.

The laboratory prepared and analyzed 10 laboratory duplicate sample pairs. Of these, all but one pair had identical results. The remaining duplicate pair, NYT-S104-100804 and its duplicate, had results of < 1% and 1-5% total asbestos. The result for this sample was previously qualified as estimated based on high bias observed in the reference material; therefore, no further action was warranted.

VI. Identification

Identification of asbestos is dependent on sample preparation techniques, analyst training, instrument operation, and data interpretation. Comparison with results from known standards is used to evaluate the accuracy of the structure identification for field samples.

Chrysotile and tremolite asbestos were correctly identified in the PE samples (see Section II). Only actinolite was identified in the field samples. Identification was based on the various optical properties of the asbestos fibers and was correctly performed, based on review of the raw data. Values for the optical properties recorded by the laboratory on the PLM data sheets were identical for all samples in which this asbestos type was identified.

The laboratory passed the criteria for NVLAP, based on the documentation provided, however, no actual sample results or raw data for the analyses of NVLAP PE samples were provided.

Analysis of the project PE samples was performed by an analyst with the initials DV and a second whose signature was illegible. Analyses of the field samples were performed by analysts with the initials SF and MB. It is recommended that documentation be included in the data packages for each sample batch that support the correct identification of asbestos by the analysts who perform the analyses on the field samples.

VII. Visual Estimation and Reported Detection Limits

Raw data documentation is reviewed to ensure that all reported results and detection limits are correctly calculated, accurately reported, and supported by the raw data.

The laboratory's results for the two PE samples provided in association with this project were within the acceptance ranges suggested by RTI, however, a consistent tendency toward over estimation was observed . RTIs suggested range for the first PE (0.5% each of tremolite and chrysotile) were 0.1 to 5% and 0.1 to 4%, respectively. The laboratory found 2% tremolite and 3% chrysotile. If reported in the same manner as the field samples, this would result in a reported total asbestos content of 1-5%. RTI's suggested range for the second PE (2% each of tremolite and chrysotile) was >1 to10% for both asbestos types. The laboratory reported results of 6% tremolite and 8% chrysotile, a total asbestos content of 14%.

Field sample results for PLM analyses associated with this project were reported by the laboratory as ND (not detected), <1%, or 1-5% total asbestos by weight. None of the field samples were reported with concentrations higher than the range 1-5%. Both of the PE sample true concentrations fell within these ranges. In the case of both PE samples, the laboratory's reported values show high bias, exceeding the true values by factors of three to five. Based on the indications of high bias in the only reference material analyzed and professional judgement, the

validator qualified all positive sample results as estimated (J). The data user is cautioned that these results are likely biased high.

VIII. System Performance

This parameter is evaluated to ensure that the laboratory analytical systems were functioning properly at the time of analyses and that methodology appropriate to the analyses were followed.

The analytical system appears to have been working satisfactorily at the time of these analyses, based on the documentation provided in this data package shipment.

IX. Documentation

Data and documentation completeness is critical in providing support for the reported results. Problems encountered with the nature or quality of the data package documentation are addressed.

The COC documentation included in the data package does not adequately support the custody of the samples in the data set.

Documentation of microscope checks should be included for every day on which samples are analyzed.

COMMENTS:

A. Based on the indications of high bias in the only reference material analyzed in association with this data set, and on professional judgement, the validator qualified all positive sample results for these samples as estimated (J). The data user is cautioned that these results are likely biased high.

This report was prepared according to the specifications of the analytical method, NIOSH 9002, Asbestos (bulk) by PLM, the document "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," 10/99, and Trillium, Inc.'s SOP No. 0497-06A, for Validation of Analytical Data: Inorganic Analytes.

ANALYTICAL RESULTS
TABLE 1A

TDD No. 09-04-01-0011
PAN: 001275.0440.01.TA
Site: El Dorado Hills, California
Lab: Asbestos TEM Laboratories, Inc.
Reviwer: Denise A. Shepperd, Trillium, Inc.
Date: June 30, 2005

Analysis Type: Soil Samples for Asbestos

Results as Percentage Asbestos

Station Location Sample Lab I.D. Date of Collection	SFB-SS05-100804 741-00024-001 10/8/04			SFB-SS04-100804 741-00024-002 10/8/04			SFB-SS03-100804 741-00024-003 10/8/04			SFB-SS02-100804 741-00024-004 10/8/04			SFB-SS01-100804 741-00024-005 10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	1-5%	J	A	1-5%	J	A	1-5%	J	A	1-5%	J	A	<1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location Sample Lab I.D. Date of Collection	SFB-S02-100804 741-00024-006 10/8/04			NYB-SS01-100804 741-00024-007 10/8/04			NYB-S01-100804 741-00024-008 10/8/04			SFB-CSS01-100804 741-00024-009 10/8/04			D2 SFB-CS01-100804 741-00024-010 10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	1-5%	J	A	< 1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location Sample Lab I.D. Date of Collection	NYT-SC2-100804 741-000234011 10/8/04			NFB-SS05-100804 741-00024-012 10/8/04			NFB-SS04-100804 741-00024-013 10/8/04			NFB-SS03-100804 741-00024-014 10/8/04			NFB-SS02-100804 741-00024-015 10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	1-5%	J	A	1-5%	J	A	<1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location Sample Lab I.D. Date of Collection	NFB-SS01-100804 741-00024-016 10/8/04			D1 NFB-S110-100804 741-00024-017 10/8/04			D1 NFB-S10-100804 741-00024-018 10/8/04			SFB-S10-100804 741-00024-019 10/8/04			NFB-S08-100804 741-00024-020 10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	1-5%	J	A	< 1%	J	A	1-5%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Val-Validity Refer to Data Qualifiers in Table 1B.
Com-Comments Refer to the Corresponding Section in the Narrative for each letter.

D1, D2, etc. - Field Duplicate Pairs

ANALYTICAL RESULTS
TABLE 1A

TDD No. 09-04-01-0011
PAN: 001275.0440.01.TA
Site: El Dorado Hills, California
Lab: Asbestos TEM Laboratories, Inc.
Reviwer: Denise A. Shepperd, Trillium, Inc.
Date: June 30, 2005

Analysis Type: Soil Samples for Asbestos

Results as Percentage Asbestos

Station Location	D2						D7			D7					
Sample Lab I.D.	SFB-CS101-100804			NFB-S09-100804			SFB-S107-100804			SFB-S07-100804			SFB-S06-100804		
Date of Collection	741-00024-021			741-00024-022			741-00024-023			741-00024-024			741-00024-025		
	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	< 1%	J	A	<1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	SFB-S08-100804			SFB-S05-100804			SFB-S04-100804			SFB-S03-100804			SFB-S01-100804		
Sample Lab I.D.	741-00024-026			741-00024-027			741-00024-028			741-00024-029			741-00024-030		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	<1%	J	A	< 1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	NFB-CSS01-100804			SFB-S09-100804			NYT-S13-100804			NFB-CS01-100804			NYT-SJ2-100804		
Sample Lab I.D.	741-00024-031			741-00024-032			741-00024-033			741-00024-034			741-00024-035		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	<1%	J	A	<1%	J	A	<1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location										D4			D3		
Sample Lab I.D.	NYT-SJ1-100804			NYT-SI2-100804			NYT-SI1-100804			NYT-S1A2-100804			NYT-S1G2-100804		
Date of Collection	741-00024-036			741-00024-037			741-00024-038			741-00024-039			741-00024-040		
	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	<1%	J	A	<1%	J	A	1-5%	J	A	<1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Val-Validity Refer to Data Qualifiers in Table 1B.
Com-Comments Refer to the Corresponding Section in the Narrative for each letter.

D1, D2, etc. - Field Duplicate Pairs

ANALYTICAL RESULTS
TABLE 1A

TDD No. 09-04-01-0011
PAN: 001275.0440.01.TA
Site: El Dorado Hills, California
Lab: Asbestos TEM Laboratories, Inc.
Reviwer: Denise A. Shepperd, Trillium, Inc.
Date: June 30, 2005

Analysis Type: Soil Samples for Asbestos

Results as Percentage Asbestos

Station Location	D5														
Sample Lab I.D.	NYT-S104-100804			NYT-SB3-100804			NYT-CS02-100804			NYT-SH1-100804			NYT-SJ3-100804		
Date of Collection	741-00024-041			741-00024-042			741-00024-043			741-00024-044			741-00024-045		
	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	1-5%	J	A	< 1%	J	A	<1%	J	A	<1%	J	A	1-5%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	D6			D3											
Sample Lab I.D.	NYT-CS101-100804			NYT-SG2-100804			NYT-SG3-100804			NYT-SH2-100804			NYT-SH3-100804		
Date of Collection	741-00024-046			741-00024-047			741-00024-048			741-00024-049			741-00024-050		
	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	<1%	J	A	<1%	J	A	1-5%	J	A	1-5%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location										D5			D6		
Sample Lab I.D.	NYT-S01-100804			NYT-S02-100804			NYT-S03-100804			NYT-S04-100804			NYT-CS01-100804		
Date of Collection	741-00024-051			741-00024-052			741-00024-053			741-00024-054			741-00024-055		
	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	<1%	J	A	< 1%	J	A	<1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location							D8								
Sample Lab I.D.	SVB-S09-100904			DEM-S09-100904			DEM-S06-100904			DEM-S01-100904			DEM-S02-100904		
Date of Collection	741-00024-056			741-00024-057			741-00024-058			741-00024-059			741-00024-060		
	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	1-5%	J	A	< 1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Val-Validity Refer to Data Qualifiers in Table 1B.
Com-Comments Refer to the Corresponding Section in the Narrative for each letter.

D1, D2, etc. - Field Duplicate Pairs

TRILLIUM INC.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared in accordance with the document, "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," 2/94.

U The analyte was analyzed for, but was not detected above the level of the reported value. The reported value is either the sample quantitation limit or the sample detection limit.

L Indicates results which fall between the sample detection limit and the CRDL. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.

J The associated value is an estimated quantity. The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample.

R The data are unusable. The analyte was analyzed for, but the presence or absence of the analyte cannot be verified.

UJ A combination of the "U" and "J" qualifier. The analyte was analyzed for but was not detected. The reported value is an estimate and may be inaccurate or imprecise.

TRILLIUM INC.

Data Validation Report

TDD No.	09–04-01-0011
PAN:	001275.0440.01TA
Site:	El Dorado Hills, California
Laboratory:	Asbestos TEM Laboratories, Inc.
Reviewer:	Denise A. Shepperd, Trillium, Inc.
Date:	July 5, 2005

I. Case Summary

SAMPLE INFORMATION:

Sample IDs:	DEM-S03-100904; DEM-S04-100904; DEM-S05-100904; SVB-S10-100904; DEM-S07-100904; DEM-S106-100904; DEM-CS01-100904; DEM-S12-100904; DEM-S10-100904; DEM-S08-100904; SVB-S08-100904; SVB-S02-100904; DEM-S11-100904; RHS-S04-100904; RHS-S08-100904; DEM-S13-100904; RHS-S01-100904; SVB-S04-100904; RHS-S03-100904; SVB-CS01-100904; RHS-S05-100904; RHS-S06-100904; RHS-S106-100904; SVB-S07-100904; RHS-CS01-100904; SVB-S01-100904; SVB-S03-100904; SVB-S05-100904; SVB-S06-100904; SVB-S106-100904; RHS-S07-100904; RHS-S02-100904; JSG-S03-101004; JSG-S04-101004; JSG-S05-101004; JSG-S06-101004; JSG-S07-101004; JSG-S107-101004; JSG-S08-101004; and JSG-CS01-101004
Matrix:	40 Soil Samples
Analysis:	Asbestos by Polarized Light Microscopy
Method:	NIOSH 9002
Collection Dates:	October 9 and 10, 2004
Sample Receipt Date:	April 15, 2005
Analysis Dates:	April 27, 2005 and May 3, 2005

FIELD QC:

Trip Blanks (TB):	None
Field Blanks (FB):	None
Equipment Blanks (EB):	None
Background Samples (BG):	None
Field Duplicates :	DEM-S106-100904 and DEM-S06-100904* (*in data set 049352); RHS-S06-100904 and RHS-S106-100904; SVB-S06-100904 and SVB-S106-100904; and JSG-S07-101004 and JSG-S107-101004

TABLES:

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Inorganic Data Review

SAMPLING ISSUES:

Two chain of custody records received by the laboratory with the delivery of the samples included all of the samples identified in this data set. According to these records, the samples were collected on 10/9/04 and 10/10/04, but were not relinquished until 12/7/04. No indication is made of the disposition of the samples during this period of time and from the documentation provided, the custodian of the samples during this time cannot be determined. A second set of "relinquished and received" signatures appear for "all/return" of the samples; samples were relinquished on 3/11/05; no "received by" date or time were recorded for this transfer. A third set of relinquished and received signatures appears, both dated 4/15/05. There is no indication what this transfer represented on the COC records, however, the laboratory documentation indicates that the samples were received on 4/15/05 from FedEx. According to the documentation it would appear that the samples were sent and received on the same day via FedEx. COC records should provide sufficient information (sampler initials, affiliations for all parties, and/or reasons for transfer) to support every transfer of the samples from the day of collection to the day of return or disposal. The COC documents included with these samples do not fulfill this purpose.

VALIDATION PARAMETERS AND COMMENTS:

I. Holding Times, Preservation and Sample Integrity

This parameter is evaluated to ensure that sample custody is documented from collection through analysis, samples are analyzed within the recommended holding time, and that no alteration in sample content has occurred during sample shipment, handling, and storage.

There is no established holding time or storage condition for asbestos samples.

According to the laboratory log-in report, all samples were received in excellent condition from "the client."

II. Calibration

The analyses of materials of known content ensures that identification and quantitation of analytes will be accurate for all samples. Review of the documentation provided for appropriate calibration determines whether or not the analytical results reported by the laboratory are valid and supported by the data.

Asbestos TEM Laboratories, Inc., participates in NVLAP. Documentation of the laboratory's current certification for EPA Method 600/M4-82-020 and "relevant requirements of ISO 9002:1994," which include PLM analyses for solid materials, was included in the data package. The certificate is effective through the end of June, 2005. Should additional information regarding the laboratory's ability to accurately identify and quantify asbestos be desired, results and supporting data for samples from this PE program should be obtained from the laboratory.

Logbook pages including daily microscope checks for dates 4/25/05, 4/26/05, 4/27/05, 4/28/05, 5/3/05, and 5/4/05 were included. Analyses of the samples in this data set were performed on 4/27/05 and 5/3/05. Monthly dispersive oil calibration documentation was provided on a separate logbook page. According to the documentation the applicable calibration was performed on 4/12/05.

Two performance evaluation samples, prepared for this project by RTI, were submitted to the laboratory. The PE samples were analyzed on 3/4/05. No documentation of microscope or other QC checks was included with the PE sample data. Two sets of raw data were included, representing identification and visual estimation performed by two different analysts. The two PE samples were generated by RTI at two different asbestos concentrations. The first sample contained tremolite and chrysotile asbestos, each at 0.5% (1% total asbestos). The second contained each of these two asbestos types at 2% (4% total asbestos). The laboratory's results for total asbestos for these two

samples were 5% and 14%, respectively. These are the only reference materials presented with this data set. The results the laboratory reported for these PEs are greater than three to five times the prepared concentrations, indicating the potential for high bias in positive results. Results for all of the samples in this data set were qualified as estimated (J) on this basis.

III. Blanks

Sample matrices known to be devoid of the analytes of interest (method blanks) are prepared and analyzed with each analytical batch. Evaluation of this parameter ensures that contamination introduced during preparation and analyses is not attributed to the field samples. Other blanks may be generated in the field or laboratory to ensure that no contamination is introduced during sampling and/or storage.

A total of 16 laboratory blanks (all included in data set 049488) were prepared and analyzed with the sample batches associated with this data set (049351, 049352, 049487, and 049488) and represented both the drying and grinding steps of sample preparation. No asbestos structures were identified in any of these sixteen blanks. Two of these laboratory blanks, LAB-BL09-101104 and LAB-BL13-101104 were analyzed as laboratory duplicate pairs. Results for the duplicates in both cases were ND and <1%. Because results for all of the field samples were previously qualified as estimated based on the high bias observed in the reference material, no additional action was taken on the basis of laboratory blank results.

No field-generated blanks were included with this data set.

IV. Spiked Samples

The analytes of interest are added in known concentrations to like-matrix blanks or authentic field samples before preparation. This parameter is evaluated in order to assess the laboratory's ability to preserve and recover the compounds of interest.

See Section II for a discussion of the PE (spiked) samples submitted with this data set.

No other spiked analyses were performed with this sample set.

V. Duplicate/Replicate Samples

Results for duplicate/replicate samples are evaluated to assess the laboratory's precision for the analytes of interest in the applicable sample matrix.

Four field duplicate pairs (DEM-S106-100904 and DEM-S06-100904* [*in data set 049352]; RHS-S06-100904 and RHS-S106-100904; SVB-S06-100904 and SVB-S106-100904; and JSG-S07-101004 and JSG-S107-101004) were included with this data set. Results for three of the four pairs (RHS-S06-100904 and RHS-S106-100904; SVB-S06-100904 and SVB-S106-100904; and JSG-S07-101004 and JSG-S107-101004) showed excellent agreement. For the other duplicate pair one sample was reported to contain less than one percent (<1%) and the other was reported to contain one to five percent (1-5%). Based on 95% confidence limits for a result of 1% and professional judgement, these results show acceptable agreement. No qualifiers were applied on the basis of agreement between field duplicates.

The laboratory prepared and analyzed eight duplicate sample pairs. All eight of these duplicate pairs had identical results.

VI. Identification

Identification of asbestos is dependent on sample preparation techniques, analyst training, instrument operation, and data interpretation. Comparison with results from known standards is used to evaluate the accuracy of the structure identification for field samples.

Chrysotile and tremolite asbestos were correctly identified in the PE samples (see Section II). Only actinolite was identified in the field samples. Identification was based on the various optical properties of the asbestos fibers and was correctly performed, based on review of the raw data. Values for the optical properties recorded by the laboratory on the PLM data sheets were identical for all samples in which this asbestos type was identified.

The laboratory passed the criteria for NVLAP, based on the documentation provided, however, no actual sample results or raw data for the analyses of NVLAP PE samples were provided.

Analysis of the project PE samples was performed by an analyst with the initials DV and a second whose signature was illegible. Analyses of the field samples were performed by analysts with the initials SF and MB. It is recommended that documentation be included in the data packages for each sample batch that support the correct identification of asbestos by the analysts who perform the analyses on the field samples.

VII. Visual Estimation and Reported Detection Limits

Raw data documentation is reviewed to ensure that all reported results and detection limits are correctly calculated, accurately reported, and supported by the raw data.

The laboratory's results for the two PE samples provided in association with this project were within the acceptance ranges suggested by RTI. A consistent tendency toward over estimation was observed however. RTIs suggested range for the first PE (0.5% each of tremolite and chrysotile) were 0.1-5% and 0.1-4%, respectively. The laboratory found 2% tremolite and 3% chrysotile. If reported in the same manner as the field samples, this would result in a reported total asbestos content of 1-5%. RTI's suggested range for the second PE (2% each of tremolite and chrysotile) was >1-10% for both. The laboratory reported results of 6% tremolite and 8% chrysotile, a total asbestos content of 14%. Sample results were reported by the laboratory as containing <1 or 1-5% total asbestos by weight. In the case of both PE samples, the laboratory's reported values approached the high end of the suggested range, indicating a possible high bias. The validator did not qualify sample results on this basis, however, the data user is cautioned that the results reported by the laboratory are likely biased high.

Field sample results for PLM analyses associated with this project were reported by the laboratory as ND (not detected), <1%, or 1-5% total asbestos by weight. None of the field samples were reported with concentrations higher than the range 1-5%. Both of the PE sample true concentrations fell within these ranges. In the case of both PE samples, the laboratory's reported values show high bias, exceeding the true values by factors of three to five. Based on the indications of high bias in the only reference material analyzed and professional judgement, the validator qualified all positive sample results as estimated (J). The data user is cautioned that these results are likely biased high.

VIII. System Performance

This parameter is evaluated to ensure that the laboratory analytical systems were functioning properly at the time of analyses and that methodology appropriate to the analyses were followed.

The analytical system appears to have been working satisfactorily at the time of these analyses, based on the documentation provided in this data package shipment.

IX. Documentation

Data and documentation completeness is critical in providing support for the reported results. Problems encountered with the nature or quality of the data package documentation are addressed.

The COC documentation included in the data package does not adequately support the custody of the samples in the data set.

COMMENTS:

A. Based on the indications of high bias in the only reference material analyzed in association with this data set, and on professionai judgement, the validator qualified all positive sample results for these samples as estimated (J). The data user is cautioned that these results are likely biased high.

This report was prepared according to the specifications of the analytical method, NIOSH 9002, Asbestos (bulk) by PLM, the document "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," 10/99, and Trillium, Inc.'s SOP No. 0497-06A, for Validation of Analytical Data: Inorganic Analytes.

ANALYTICAL RESULTS
TABLE 1A

TDD No. 09-04-01-0011
PAN: 001275.0440.01.TA
Site: El Dorado Hills, California
Lab: Asbestos TEM Laboratories, Inc.
Reviwer: Denise A. Shepperd, Trillium, Inc.
Date: July 5, 2005

Analysis Type: Soil Samples for Asbestos

Results as Percentage Asbestos

Station Location	DEM-S03-100904			DEM-S04-100904			DEM-S05-100904			SVB-S10-100904			DEM-S07-100904		
Sample Lab I.D.	741-00025-001			741-00025-002			741-00025-003			741-00025-004			741-00025-005		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	1-5%	J	A	1-5%	J	A	<1%	J	A	<1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	D1 DEM-S106-100904			DEM-CS01-100904			DEM-S12-100904			DEM-S10-100904			DEM-S08-100904		
Sample Lab I.D.	741-00025-006			741-00025-007			741-00025-008			741-00025-009			741-00025-010		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	1-5%	J	A	<1%	J	A	< 1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	SVB-S08-100904			SVB-S02-100904			DEM-S11-100904			RHS-S04-100904			RHS-S08-100904		
Sample Lab I.D.	741-000234011			741-00025-012			741-00025-013			741-00025-014			741-00025-015		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	<1%	J	A	<1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	DEM-S13-100904			RHS-S01-100904			SVB-S04-100904			RHS-S03-100904			SVB-CS01-100904		
Sample Lab I.D.	741-00025-016			741-00025-017			741-00025-018			741-00025-019			741-00025-020		
Date of Collection	10/8/04			10/8/04			10/8/04			10/8/04			10/8/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	< 1%	J	A	<1%	J	A	<1%	J	A	<1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Val-Validity Refer to Data Qualifiers in Table 1B.
Com-Comments Refer to the Corresponding Section in the Narrative for each letter.
DL = Detection Limit
ND - Not detected

D1, D2, etc. - Field Duplicate Pairs

ANALYTICAL RESULTS
TABLE 1A

TDD No. 09-04-01-0011
PAN: 001275.0440.01.TA
Site: El Dorado Hills, California
Lab: Asbestos TEM Laboratories, Inc.
Reviwer: Denise A. Shepperd, Trillium, Inc.
Date: July 5, 2005

Analysis Type: Soil Samples for Asbestos

Results as Percentage Asbestos

Station Location	RHS-S05-100904			D2 RHS-S06-100904			D2 RHS-S106-100904			SVB-S07-100904			RHS-CS01-100904		
Sample Lab I.D.	741-00025-021			741-00025-022			741-00025-023			741-00025-024			741-00025-025		
Date of Collection	10/9/04			10/9/04			10/9/04			10/9/04			10/9/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	< 1%	J	A	<1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	SVB-S01-100904			SVB-S03-100904			SVB-S05-100904			D3 SVB-S06-100904			D3 SVB-S106-100904		
Sample Lab I.D.	741-00025-026			741-00025-027			741-00025-028			741-00025-029			741-00025-030		
Date of Collection	10/9/04			10/9/04			10/9/04			10/9/04			10/9/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	<1%	J	A	< 1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	RHS-S07-100904			RHS-S02-100904			JSG-S03-101004			JSG-S04-101004			JSG-S05-101004		
Sample Lab I.D.	741-00025-031			741-00025-032			741-00025-033			741-00025-034			741-00025-035		
Date of Collection	10/9/04			10/9/04			10/10/04			10/10/04			10/10/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	<1%	J	A	<1%	J	A	<1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	JSG-S06-101004			D4 JSG-S07-101004			D4 JSG-S107-101004			JSG-S08-101004			JSG-CS01-101004		
Sample Lab I.D.	741-00025-036			741-00025-037			741-00025-038			741-00025-039			741-00025-040		
Date of Collection	10/10/04			10/10/04			10/10/04			10/10/04			10/10/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	<1%	J	A	<1%	J	A	<1%	J	A	<1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Val-Validity Refer to Data Qualifiers in Table 1B.
Com-Comments Refer to the Corresponding Section in the Narrative for each letter.
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D1, D2, etc. - Field Duplicate Pairs

TRILLIUM INC.

TABLE 1B

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L Indicates results which fall between the sample detection limit and the CRDL. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.

J The associated value is an estimated quantity. The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample.

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TDD No.	09–04-01-0011
PAN:	001275.0440.01TA
Site:	El Dorado Hills, California
Laboratory:	Asbestos TEM Laboratories, Inc.
Reviewer:	Denise A. Shepperd, Trillium, Inc.
Date:	July 5, 2005

I. Case Summary

SAMPLE INFORMATION:

Sample IDs:	JSG-S02-101004; JSB-S05-101004; JSG-S09-101004; JSS-S01-101004; JSG-S01-101004; JSB-S07-101004; JSB-S01-101004; JSB-S101-101004; JSB-S02-101004; JSB-S03-101004; JSB-S04-101004; JSB-CS01-101004; JSS-S02-101004; JSS-S03-101004; JSS-S04-101004; JSS-S05-101004; JSS-S06-101004; JSS-S07-101004; JSS-CS01-101004; JSB-S06-101004; DPA-SA3-101104; DPA-S01-101104; DPA-SA1-101104; DPA-CS01-101104; DPA-SA2-101104; DPA-S1A3-101104
Laboratory Blanks:	LAB-BL01-101104; LAB-BL02-101104; LAB-BL02-101104; LAB-BL03-101104; LAB-BL05-101104; LAB-BL06-101104; LAB-BL07-101104; LAB-BL08-101104; LAB-BL09-101104; LAB-BL10-101104; LAB-BL11-101104; LAB-BL12-101104; LAB-BL13-101104; LAB-BL14-101104; LAB-BL15-101104; LAB-BL16-101104
Laboratory Preparation Duplicates:	LAB-DUP01-101104; LAB-DUP02-101104; LAB-DUP03-101104; LAB-DUP04-101104; LAB-DUP05-101104; LAB-DUP06-101104; LAB-DUP07-101104; LAB-DUP08-101104; LAB-DUP09-101104; LAB-DUP10-101104
Matrix:	26 Soil Samples; 16 Laboratory Preparation Blanks; 10 Laboratory Duplicates
Analysis:	Asbestos by Polarized Light Microscopy
Method:	NIOSH 9002
Collection Dates:	October 10 and 11, 2004
Sample Receipt Date:	April 15, 2005
Analysis Dates:	April 28, 2005 and May 3, 2005

FIELD QC:

Trip Blanks (TB):	None
Field Blanks (FB):	None
Equipment Blanks (EB):	None
Background Samples (BG):	None
Field Duplicates :	JSB-S01-101004 and JSB-S101-101004 and

TABLES:

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oil calibration documentation was provided on a separate logbook page. According to the documentation the applicable calibration was performed on 4/12/05.

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III. Blanks

Sample matrices known to be devoid of the analytes of interest (method blanks) are prepared and analyzed with each analytical batch. Evaluation of this parameter ensures that contamination introduced during preparation and analyses is not attributed to the field samples. Other blanks may be generated in the field or laboratory to ensure that no contamination is introduced during sampling and/or storage.

A total of 16 laboratory blanks (all included in this data set, 049488) were prepared and analyzed with the sample batches associated with this data set (049351, 049352, 049487, and 049488) and represented both the drying and grinding steps of sample preparation. No asbestos structures were identified in any of these sixteen blanks. Two of these laboratory blanks, LAB-BL09-101104 and LAB-BL13-101104 were analyzed as laboratory duplicate pairs. Results for the duplicates in both cases were ND and <1%. Because results for all of the field samples were previously qualified as estimated based on the high bias observed in the reference material, no additional action was taken on the basis of laboratory blank results.

No field-generated blanks were included with this data set.

IV. Spiked Samples

The analytes of interest are added in known concentrations to like-matrix blanks or authentic field samples before preparation. This parameter is evaluated in order to assess the laboratory's ability to preserve and recover the compounds of interest.

See Section II for a discussion of the PE (spiked) samples submitted with this data set.

No other spiked analyses were performed with this sample set.

V. Duplicate/Replicate Samples

Results for duplicate/replicate samples are evaluated to assess the laboratory's precision for the analytes of interest in the applicable sample matrix.

Two field duplicate pairs (JSB-S01-101004 and JSB-S101-101004 and DPA-SA3-101104 and DPA-S1A3-101104) were included with this data set. Results for both of the pairs showed excellent agreement.

The laboratory analyzed 10 laboratory duplicate sample pairs in this data set. Seven of the ten duplicate pairs had identical results. LAB-BL09-101104 and its lab duplicate and LAB-BL13-101104 and its lab duplicate both gave results of <1% and ND. The laboratory reported ND for both of these samples (laboratory drying blanks). LAB-DUP06-101104 and its lab duplicate gave results of < 1% and 1-5%. The laboratory reported a result of <1% for this sample. This sample (LAB-DUP06-101104) is also a laboratory preparation duplicate of DPA-SA3-101104, which was reported with a result of <1%. Because results for all of the field samples in this data set were previously qualified as estimated due to the high based observed in the reference material, no additional action was taken on the basis of these laboratory duplicate or blank results.

The soil preparation laboratory prepared and submitted 10 preparation duplicates for analysis. All 10 of these duplicate samples were submitted, analyzed, and reported with this data set (049488). Six of these 10 pairs gave identical results.. The remaining four duplicate pairs gave a result of <1% for one of the paired samples and 1-5% for the other. Because results for all of the field samples were previously qualified as estimated based on the high bias observed in the reference material, no additional action was taken on the basis of laboratory blank results.

VI. Identification

Identification of asbestos is dependent on sample preparation techniques, analyst training, instrument operation, and data interpretation. Comparison with results from known standards is used to evaluate the accuracy of the structure identification for field samples.

Chrysotile and tremolite asbestos were correctly identified in the PE samples (see Section II). Only actinolite was identified in the field samples. Identification was based on the various optical properties of the asbestos fibers and was correctly performed, based on review of the raw data. Values for the optical properties recorded by the laboratory on the PLM data sheets were identical for all samples in which this asbestos type was identified.

The laboratory passed the criteria for NVLAP, based on the documentation provided, however, no actual sample results or raw data for the analyses of NVLAP PE samples were provided.

Analysis of the project PE samples was performed by an analyst with the initials DV and a second whose signature was illegible. Analyses of the field samples were performed by analysts with the initials SF and MB. It is recommended that documentation be included in the data packages for each sample batch that support the correct identification of asbestos by the analysts who perform the analyses on the field samples.

VII. Visual Estimation and Reported Detection Limits

Raw data documentation is reviewed to ensure that all reported results and detection limits are correctly calculated, accurately reported, and supported by the raw data.

The laboratory's results for the two PE samples provided in association with this project were within the acceptance ranges suggested by RTI, however, a consistent tendency toward over estimation was observed . RTIs suggested range for the first PE (0.5% each of tremolite and chrysotile) were 0.1 to 5% and 0.1 to 4%, respectively. The laboratory found 2% tremolite and 3% chrysotile. If reported in the same manner as the field samples, this would result in a reported total asbestos content of 1-5%. RTI's suggested range for the second PE (2% each of tremolite and chrysotile) was >1 to10% for both asbestos types. The laboratory reported results of 6% tremolite and 8% chrysotile, a total asbestos content of 14%.

Field sample results for PLM analyses associated with this project were reported by the laboratory as ND (not detected), <1%, or 1-5% total asbestos by weight. None of the field samples were reported with concentrations higher than the range 1-5%. Both of the PE sample true concentrations fell within these ranges. In the case of both

PE samples, the laboratory's reported values show high bias, exceeding the true values by factors of three to five. Based on the indications of high bias in the only reference material analyzed and professional judgement, the validator qualified all positive sample results as estimated (J). The data user is cautioned that these results are likely biased high.

VIII. System Performance

This parameter is evaluated to ensure that the laboratory analytical systems were functioning properly at the time of analyses and that methodology appropriate to the analyses were followed.

The analytical system appears to have been working satisfactorily at the time of these analyses, based on the documentation provided in this data package shipment.

IX. Documentation

Data and documentation completeness is critical in providing support for the reported results. Problems encountered with the nature or quality of the data package documentation are addressed.

The COC documentation included in the data package does not adequately support the custody of the samples in the data set.

COMMENTS:

A. Based on the indications of high bias in the only reference material analyzed in association with this data set, and on professional judgement, the validator qualified all positive sample results for these samples as estimated (J). The data user is cautioned that these results are likely biased high.

This report was prepared according to the specifications of the analytical method, NIOSH 9002, Asbestos (bulk) by PLM, the document "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," 10/99, and Trillium, Inc.'s SOP No. 0497-06A, for Validation of Analytical Data: Inorganic Analytes.

ANALYTICAL RESULTS
TABLE 1A

TDD No. 09-04-01-0011
PAN: 001275.0440.01.TA
Site: El Dorado Hills, California
Lab: Asbestos TEM Laboratories, Inc.
Reviwer: Denise A. Shepperd, Trillium, Inc.
Date: July 5, 2005

Analysis Type: Soil Samples for Asbestos

Results as Percentage Asbestos

Station Location	JSG-S02-101004			JSB-S05-101004			JSG-S09-101004			JSS-S01-101004			JSG-S01-101004		
Sample Lab I.D.	741-00026-001			741-00026-002			741-00026-003			741-00026-004			741-00026-005		
Date of Collection	10/10/04			10/10/04			10/10/04			10/10/04			10/10/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	<1%	J	A	<1%	J	A	<1%	J	A	<1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	JSB-S07-101004			D1 JSB-S01-101004			D1 JSB-S101-101004			JSB-S02-101004			JSB-S03-101004		
Sample Lab I.D.	741-00026-006			741-00026-007			741-00026-008			741-00026-009			741-00026-010		
Date of Collection	10/10/04			10/10/04			10/10/04			10/10/04			10/10/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	<1%	J	A	< 1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	JSB-S04-101004			JSB-CS01-101004			JSS-S02-101004			JSS-S03-101004			JSS-S04-101004		
Sample Lab I.D.	741-000234011			741-00026-012			741-00026-013			741-00026-014			741-00026-015		
Date of Collection	10/10/04			10/10/04			10/10/04			10/10/04			10/10/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	<1%	J	A	<1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	JSS-S05-101004			JSS-S06-101004			JSS-S07-101004			JSS-CS01-101004			JSB-S06-101004		
Sample Lab I.D.	741-00026-016			741-00026-017			741-00026-018			741-00026-019			741-00026-020		
Date of Collection	10/10/04			10/10/04			10/10/04			10/10/04			10/10/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	< 1%	J	A	<1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Val-Validity Refer to Data Qualifiers in Table 1B.
Com-Comments Refer to the Corresponding Section in the Narrative for each letter.
DL = Detection Limit
ND - Not detected

D1, D2, etc. - Field Duplicate Pairs

ANALYTICAL RESULTS
TABLE 1A

TDD No. 09-04-01-0011
PAN: 001275.0440.01.TA
Site: El Dorado Hills, California
Lab: Asbestos TEM Laboratories, Inc.
Reviwer: Denise A. Shepperd, Trillium, Inc.
Date: July 5, 2005

Analysis Type: Soil Samples for Asbestos

Results as Percentage Asbestos

Station Location	D2														
Sample Lab I.D.	DPA-SA3-101104			DPA-S01-101104			DPA-SA1-101104			DPA-CS01-101104			DPA-SA2-101104		
Date of Collection	741-00026-021			741-00026-022			741-00026-023			741-00026-024			741-00026-025		
	10/11/04			10/11/04			10/11/04			10/11/04			10/11/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	< 1%	J	A	<1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	D2														
Sample Lab I.D.	DPA-S1A3-101104			LAB-BL01-101104			LAB-BL07-101104			LAB-DUP01-101104			LAB-DUP02-101104		
Date of Collection	741-00026-026			741-00026-027			741-00026-028			741-00026-029			741-00026-030		
	10/11/04			10/11/04			10/11/04			10/11/04			10/11/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	< 1%	J	A	<1%	J	A	< 1%	J	A	< 1%	J	A	< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	LAB-BL03-101104			LAB-BL02-101104			LAB-BL08-101104			LAB-BL04-101104			LAB-DUP03-101104		
Sample Lab I.D.	741-00026-031			741-00026-032			741-00026-033			741-00026-034			741-00026-035		
Date of Collection	10/11/04			10/11/04			10/11/04			10/11/04			10/11/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	ND			ND			ND			ND			< 1%	J	A
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	LAB-DUP04-101104			LAB-BL09-101104			LAB-DUP07-101104			LAB-BL06-101104			LAB-BL11-101104		
Sample Lab I.D.	741-00026-036			741-00026-037			741-00026-038			741-00026-039			741-00026-040		
Date of Collection	10/11/04			10/11/04			10/11/04			10/11/04			10/11/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	<1%	J	A	ND			1-5	J	A	ND			ND		
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Val-Validity Refer to Data Qualifiers in Table 1B.
Com-Comments Refer to the Corresponding Section in the Narrative for each letter.
DL = Detection Limit
ND - Not detected

D1, D2, etc. - Field Duplicate Pairs

ANALYTICAL RESULTS
TABLE 1A

TDD No. 09-04-01-0011
PAN: 001275.0440.01.TA
Site: El Dorado Hills, California
Lab: Asbestos TEM Laboratories, Inc.
Reviwer: Denise A. Shepperd, Trillium, Inc.
Date: July 5, 2005

Analysis Type: Soil/Rock Samples for Asbestos

Results as Percentage Asbestos

Station Location	LAB-BL10-101104			LAB-DUP05-101104			LAB-DUP06-101104			LAB-DUP08-101104			LAB-BL05-101104		
Sample Lab I.D.	741-00026-041			741-00026-042			741-00026-043			741-00026-044			741-00026-045		
Date of Collection	10/11/04			10/11/04			10/11/04			10/11/04			10/11/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	ND			<1%	J	A	<1%			<1%	J	A	ND		
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	LAB-DUP10-101104			LAB-DUP09-101104			LAB-BL15-101104			LAB-BL12-101104			LAB-BL13-101104		
Sample Lab I.D.	741-00026-046			741-00026-047			741-00026-048			741-00026-049			741-00026-050		
Date of Collection	10/11/04			10/11/04			10/11/04			10/11/04			10/11/04		
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	1-5%	J	A	<1%	J	A	ND			ND			ND		
Type	Actinolite			Actinolite			Actinolite			Actinolite			Actinolite		

Station Location	LAB-BL14-101104			LAB-BL16-101104			DL								
Sample Lab I.D.	741-00026-051			741-00026-052											
Date of Collection	10/11/04			10/11/04											
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos	ND			ND			1%								
Type															

Station Location															
Sample Lab I.D.															
Date of Collection															
Analyte	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Percent Asbestos															
Type															

Val-Validity Refer to Data Qualifiers in Table 1B.
Com-Comments Refer to the Corresponding Section in the Narrative for each letter.
DL = Detection Limit
ND - Not detected

D1, D2, etc. - Field Duplicate Pairs

TRILLIUM INC.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared in accordance with the document, "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," 2/94.

U The analyte was analyzed for, but was not detected above the level of the reported value. The reported value is either the sample quantitation limit or the sample detection limit.

L Indicates results which fall between the sample detection limit and the CRDL. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.

J The associated value is an estimated quantity. The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample.

R The data are unusable. The analyte was analyzed for, but the presence or absence of the analyte cannot be verified.

UJ A combination of the "U" and "J" qualifier. The analyte was analyzed for but was not detected. The reported value is an estimate and may be inaccurate or imprecise.

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 60
Reg. Samples Analyzed: 60
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. 049352
Date Submitted: Apr-15-05
Date Reported: May-02-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
SFB-SS05-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-001			3)Oct-08-04 1140 4)Apr-25-05	Soil-Orange
SFB-SS04-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-002			3)Oct-08-04 1030 4)Apr-25-05	Soil-Black
SFB-SS03-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-003			3)Oct-08-04 1020 4)Apr-25-05	Soil-Black
SFB-SS02-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-004			3)Oct-08-04 1010 4)Apr-25-05	Soil-Black
SFB-SS01-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-005			3)Oct-08-04 1050 4)Apr-25-05	Soil-Beige
SFB-S02-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-006			3)Oct-08-04 1007 4)Apr-25-05	Soil-Brown
NYB-SS01-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-007			3)Oct-08-04 1250 4)Apr-25-05	Soil-Brown
NYB-S01-100804	<1%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-008			3)Oct-08-04 1157 4)Apr-25-05	Soil-Brown
SFB-CSS01-100804	<1%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-009			3)Oct-08-04 1310 4)Apr-25-05	Soil-Brown
* SFB-CS01-100804	<1%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-010			3)Oct-08-04 1925 4)Apr-25-05	Soil-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ Analyst _____

ASBESTOS TEM LABORATORIES, INC. 630 Bancroft Way, Berkeley CA 94710 (510) 704-8930
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 60
Reg. Samples Analyzed: 60
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. **049352**
Date Submitted: Apr-15-05
Date Reported: May-02-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
NYT-SC2-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-011			3)Oct-08-04 1615 4)Apr-25-05	Soil-Brown
NFB-SS05-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-012			3)Oct-08-04 1215 4)Apr-25-05	Soil-Brown
NFB-SS04-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-013			3)Oct-08-04 1115 4)May-02-05	Soil-Brown
NFB-SS03-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-014			3)Oct-08-04 1120 4)Apr-25-05	Soil-Brown
NFB-SS02-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-015			3)Oct-08-04 1105 4)May-02-05	Soil-Brown
NFB-SS01-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-016			3)Oct-08-04 1130 4)Apr-25-05	Soil-Brown
NFB-S110-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-017			3)Oct-08-04 1040 4)Apr-25-05	Soil-Brown
NFB-S10-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-018			3)Oct-08-04 1033 4)Apr-25-05	Soil-Brown
SFB-S10-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-019			3)Oct-08-04 0915 4)Apr-25-05	Soil-Brown
NFB-S08-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-020			3)Oct-08-04 1040 4)Apr-25-05	Soil-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC. **630 Bancroft Way, Berkeley CA 94710** **(510) 704-8930**
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 60
Reg. Samples Analyzed: 60
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. 049352
Date Submitted: Apr-15-05
Date Reported: May-02-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
SFB-CS101-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-021			3)Oct-08-04 1305 4)May-02-05	Soil-Orange
NFB-S09-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-022			3)Oct-08-04 1110 4)May-02-05	Soil-Brown
SFB-S107-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-023			3)Oct-08-04 1050 4)Apr-25-05	Soil-Brown
SFB-S07-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-024			3)Oct-08-04 0930 4)Apr-25-05	Soil-Brown
SFB-S06-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-025			3)Oct-08-04 1045 4)Apr-25-05	Soil-Brown
SFB-S08-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-026			3)Oct-08-04 0925 4)Apr-25-05	Soil-Brown
SFB-S05-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-027			3)Oct-08-04 1035 4)Apr-25-05	Soil-Brown
SFB-S04-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-028			3)Oct-08-04 1025 4)Apr-25-05	Soil-Beige
SFB-S03-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-029			3)Oct-08-04 1015 4)Apr-25-05	Soil-Beige
SFB-S01-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-030			3)Oct-08-04 1040 4)Apr-25-05	Soil-Beige

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ Analyst _____

ASBESTOS TEM LABORATORIES, INC. 630 Bancroft Way, Berkeley CA 94710 (510) 704-8930
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 60
Reg. Samples Analyzed: 60
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. 049352
Date Submitted: Apr-15-05
Date Reported: May-02-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
NFB-CSS01-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-031			3)Oct-08-04 1505 4)May-02-05	Soil-Beige
SFB-S09-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-032			3) Oct-08-04 0905 4) Apr-25-05	Soil-Brown
NYT-S13-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-033			3) Oct-08-04 1710 4)Apr-25-05	Soil-Brown
NFB-CS01-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-034			3) Oct-08-04 1500 4)Apr-25-05	Soil-Brown
NYT-SJ2-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-035			3) Oct-08-04 1528 4)May-02-05	Soil-Brown
NYT-SJ1-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-036			3) Oct-08-04 1720 4)Apr-25-05	Soil-Brown
NYT-SI2-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-037			3) Oct-08-04 1656 4)May-02-05	Soil-Brown
NYT-SI1-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-038			3) Oct-08-04 1646 4)Apr-25-05	Soil-Brown
* NYT-S1A2-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-039			3) Oct-08-04 1900 4)Apr-25-05	Soil-Brown
* NYT-S1G2-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-040			3) Oct-08-04 1740 4)Apr-25-05	Soil-Orange

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC. **630 Bancroft Way, Berkeley CA 94710** **(510) 704-8930**
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 60
Reg. Samples Analyzed: 60
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. **049352**
Date Submitted: Apr-15-05
Date Reported: May-02-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD / LAB
NYT-S104-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-041			3)Oct-08-04 1735 4) Apr-25-05	Soil-Brown
NYT-SB3-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-042			3) Oct-08-04 1612 4) May-02-05	Soil-Brown
NYT-CS02-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-043			3) Oct-08-04 1900 4) Apr-25-05	Soil-Brown
NYT-SH1-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-044			3) Oct-08-04 1622 4) Apr-25-05	Soil-Orange
NYT-SJ3-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-045			3) Oct-08-04 1740 4)Apr-25-05	Soil-Brown
NYT-CS101-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-046			3) Oct-08-04 1945 4) May-02-05	Soil-Brown
NYT-SG2-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-047			3) Oct-08-04 1740 4)May-02-05	Soil-Orange
NYT-SG3-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-048			3) Oct-08-04 1740 4)May-02-05	Soil-Brown
NYT-SH2-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-049			3) Oct-08-04 1625 4)Apr-26-05	Soil-Brown
NYT-SH3-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-050			3) Oct-08-04 1634 4)Apr-26-05	Soil-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC. **630 Bancroft Way, Berkeley CA 94710** **(510) 704-8930**
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 60
Reg. Samples Analyzed: 60
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. **049352**
Date Submitted: Apr-15-05
Date Reported: May-02-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD / LAB
NYT-S01-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-051			3)Oct-08-04 1718 4)Apr-26-05	Soil-Brown
NYT-S02-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-052			3)Oct-08-04 1601 4)Apr-26-05	Soil-Brown
NYT-S03-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-053			3)Oct-08-04 1650 4)Apr-26-05	Soil-Brown
NYT-S04-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-054			3)Oct-08-04 1735 4)May-02-05	Soil-Brown
NYT-CS01-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-055			3)Oct-08-04 1945 4)Apr-26-05	Soil-Brown
SVB-S09-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-056			3)Oct-09-04 1716 4)Apr-26-05	Soil-Brown
DEM-S09-100904	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-057			3)Oct-09-04 1510 4)Apr-26-05	Soil-Beige
DEM-S06-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-058			3)Oct-09-04 1437 4)May-02-05	Soil-Brown
DEM-S01-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-059			3)Oct-09-04 1350 4)Apr-26-05	Soil-Grey
DEM-S02-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00024-060			3)Oct-09-04 1356 4)May-02-05	Soil-Beige

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC. **630 Bancroft Way, Berkeley CA 94710** **(510) 704-8930**
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

0440124124

EDR Investigation SOIL

EPA Contract Work:
Ecology and Environment

CHAIN OF CUSTODY RECORD

Site #: 0440.01CP
Contact Name: Charles LaCerra
Contact Phone: (856) 858-4800

No: 0440.01CP-0021
Lab: EMSL Analytical
Lab_City: Westmont
Lab Phone: (856) 858-4800

Lab #	Sample #	Analyses — Per SOW	Matrix	Date Collected	Sample Time	Numb Cont	Priority
✓	SFB-SS05-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:40	1	BAG
✓	SFB-SS04-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:30	1	BAG
✓	SFB-SS03-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:20	1	BAG
✓	SFB-SS02-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:10	1	BAG
✓	SFB-SS01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:50	1	BAG
✓	SFB-S02-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:07	1	BAG
✓	NYB-SS01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	12:50	1	BAG
✓	NYB-S01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:57	1	BAG
X	SFB-CSS01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	13:10	1	BAG
X	SFB-CS01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	19:25	1	BAG
✓	NYT-SC2-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:15	1	BAG
✓	NFB-SS05-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	12:15	1	BAG
✓	NFB-SS04-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:15	1	BAG
✓	NFB-SS03-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:20	1	BAG
✓	NFB-SS02-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:05	1	BAG
✓	NFB-SS01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:30	1	BAG
✓	NFB-S110-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:40	1	BAG
✓	NFB-S10-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:33	1	BAG
✓	SFB-S10-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	09:15	1	BAG
✓	NFB-S09-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:40	1	BAG

Comments: Refer to C-OC Attachment A

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #
C440.01CP-0015

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	12/7/04	[illegible]	12/7/04	1126	All/Return	Charles LaCerra	3/11/05	[illegible]		
	[illegible]	4/16/05	CWU ATEM	4/15/05	4:28 pm						

040424124

EDH Investigation SOIL

EPA Contract Work:
Ecology and Environment

CHAIN OF CUSTODY RECORD
Site #: 0440.01CP
Contact Name: Charles LaCerra
Contact Phone: (856) 858-4800

No: 0440.01CP-0021
Lab: EMSL Analytical
Lab_City: Westmont
Lab Phone: (856) 858-4800

Lab #	Sample #	Analyses For SOW	Matrix	Date Collected	Sample Time	Numb Cont	Priority
X	SFB-CS101-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	13:05	1	BAG
✓	NFB-S09-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:10	1	BAG
✓	SFB-S107-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:50	1	BAG
✓	SFB-S07-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	09:30	1	BAG
✓	SFB-S06-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:45	1	BAG
✓	SFB-S08-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	09:25	1	BAG
✓	SFB-S05-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:35	1	BAG
✓	SFB-S04-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:25	1	BAG
✓	SFB-S03-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:15	1	BAG
✓	SFB-S01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:40	1	BAG
X	NFB-CSS01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	15:05	1	BAG
✓	SFB-S09-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	09:05	1	BAG
✓	NYT-SI3-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:10	1	BAG
X	NFB-CS01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	15:00	1	BAG
✓	NYT-SJ2-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	15:28	1	BAG
✓	NYT-SJ1-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:20	1	BAG
✓	NYT-SI2-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:56	1	BAG
✓	NYT-SI1-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:46	1	BAG
✓	NYT-S1A2-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	19:00	1	BAG
✓	NYT-S1G2-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:40	1	BAG

Comments: Refer to C-O-C Attachment A

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY # 0440 01CP-0015

Items/Reason	Relinquished By	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	12-7-04	[signature]	12/8/04	1:26	All/Return	Charles LaCerra	3/11/05	[signature]		
	[signature]	4-15-04	CWu ATEM	4/15/05	4:28 pm						

0440241 24

EDH Investigation SOIL

EPA Contract Work:
Ecology and Environment

CHAIN OF CUSTODY RECORD
Site #: 0440.01CP
Contact Name: Charles LaCerra
Contact Phone: (856) 858-4800

No: 0440.01CP-0021
Lab: EMSL Analytical
Lab_City: Westmont
Lab Phone: (856) 858-4800

Lab #	Sample #	Analyses – For SOW	Matrix	Date Collected	Sample Time	Numb Cont	Priority
	NYT-S104-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:35	1	BAG
	NYT-SB3-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:12	1	BAG
	NYT-CS02-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	19:00	1	BAG
	NYT-SH1-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:22	1	BAG
	NYT-SJ3-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:40	1	BAG
	NYT-CS101-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	19:45	1	BAG
	NYT-SG2-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:40	1	BAG
	NYT-SG3-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:40	1	BAG
	NYT-SH2-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:25	1	BAG
	NYT-SH3-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:34	1	BAG
	NYT-S01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:18	1	BAG
	NYT-S02-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:01	1	BAG
	NYT-S03-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:50	1	BAG
	NYT-S04-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:35	1	BAG
	NYT-CS01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	19:45	1	BAG
	SVB-S09-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	17:16	1	BAG
	DEM-S09-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	15:10	1	BAG
	DEM-S06-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	14:37	1	BAG
	DEM-S01-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	13:50	1	BAG
	DEM-S02-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	13:56	1	BAG

Comments: Refer to C-O-C Attachment A

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #
0440.01CP-0015

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	12-7-04	[illegible]	12/8/04	11:26	All/Return	Charles LaCerra	3/11/05	[illegible]		
	[illegible]	4-15-05	CWU ATEM	4/15/05	4:29 p						

ASBESTOS TEM LABORATORIES, INC.
PLM BULK SAMPLE LOGIN REPORT

LOG#: 049352

INVOICE #:

ANALYSIS REQUESTED: **PLM-STANDARD** URGENCY: **6-10 DAYS**

DATE / Apr-15-05
TIME IN: 4:30 pm

CLIENT NO: 741 LOT NO: 00024 Total Samples: 60

DATE /
TIME DUE:

JOB SITE: 0440.01CP

JOB NO: Logged by: ry CONTACT: Mr. Howard Edwards

SAMPLE CONDITIONS: EXCELLENT DELIVERED BY: Client

SPECIAL INSTRUCTIONS

☒ FAX 415-981-0801 ☒ E-MAIL hedwards@ene.com
See marketing screen for more info!!!

Invoice To:
LJohnson@ene.com

REVIEWED _____ E-MAILED _____

CL#-LOT-SAMP	CLIENT#	DESCRIPTION
741-00024-001	SFB-SS05-100804	Soil
741-00024-002	SFB-SS04-100804	Soil
741-00024-003	SFB-SS03-100804	Soil
741-00024-004	SFB-SS02-100804	Soil
741-00024-005	SFB-SS01-100804	Soil
741-00024-006	SFB-S02-100804	Soil
741-00024-007	NYB-SS01-100804	Soil
741-00024-008	NYB-S01-100804	Soil
741-00024-009	SFB-CSS01-100804	Soil
741-00024-010	SFB-CS01-100804	Soil
741-00024-011	NYT-SC2-100804	Soil
741-00024-012	NFB-SS05-100804	Soil
741-00024-013	NFB-SS04-100804	Soil
741-00024-014	NFB-SS03-100804	Soil
741-00024-015	NFB-SS02-100804	Soil
741-00024-016	NFB-SS01-100804	Soil
741-00024-017	NFB-S110-100804	Soil
741-00024-018	NFB-S10-100804	Soil
741-00024-019	SFB-S10-100804	Soil
741-00024-020	NFB-S08-100804	Soil
741-00024-021	SFB-CS101-100804	Soil
741-00024-022	NFB-S09-100804	Soil
741-00024-023	SFB-S107-100804	Soil
741-00024-024	SFB-S07-100804	Soil
741-00024-025	SFB-S06-100804	Soil

ASBESTOS TEM LABORATORIES, INC.
PLM BULK SAMPLE LOGIN REPORT

LOG#: 049352

INVOICE #:

ANALYSIS REQUESTED: **PLM-STANDARD** URGENCY: **6-10 DAYS**

DATE / **Apr-15-05**
TIME IN: **4:30 pm**

CLIENT NO: **741** LOT NO: **00024** Total Samples: **60**

DATE /
TIME DUE:

JOB SITE: **0440.01CP**

JOB NO: Logged by: **ry** CONTACT: **Mr. Howard Edwards**

SAMPLE CONDITIONS: **EXCELLENT** DELIVERED BY: **Client**

SPECIAL INSTRUCTIONS

☒ **FAX** 415-981-0801 ☒ **E-MAIL** hedwards@ene.com
See marketing screen for more info!!!

Invoice To: LJohnson@ene.com

REVIEWED _____ **E-MAILED** _____

CL#-LOT-SAMP	CLIENT#	DESCRIPTION
741-00024-026	SFB-S08-100804	Soil
741-00024-027	SFB-S05-100804	Soil
741-00024-028	SFB-S04-100804	Soil
741-00024-029	SFB-S03-100804	Soil
741-00024-030	SFB-S01-100804	Soil
741-00024-031	NFB-CSS01-100804	Soil
741-00024-032	SFB-S09-100804	Soil
741-00024-033	NYT-S13-100804	Soil
741-00024-034	NFB-CS01-100804	Soil
741-00024-035	NYT-SJ2-100804	Soil
741-00024-036	NYT-SJ1-100804	Soil
741-00024-037	NYT-SI2-100804	Soil
741-00024-038	NYT-SI1-100804	Soil
741-00024-039	NYT-S1A2-100804	Soil
741-00024-040	NYT-S1G2-100804	Soil
741-00024-041	NYT-S104-100804	Soil
741-00024-042	NYT-SB3-100804	Soil
741-00024-043	NYT-CS02-100804	Soil
741-00024-044	NYT-SH1-100804	Soil
741-00024-045	NYT-SJ3-100804	Soil
741-00024-046	NYT-CS101-100804	Soil
741-00024-047	NYT-SG2-100804	Soil
741-00024-048	NYT-SG3-100804	Soil
741-00024-049	NYT-SH2-100804	Soil
741-00024-050	NYT-SH3-100804	Soil

ASBESTOS TEM LABORATORIES, INC.
PLM BULK SAMPLE LOGIN REPORT

LOG#: 049352

INVOICE #:

ANALYSIS REQUESTED: **PLM-STANDARD** URGENCY: **6-10 DAYS**

DATE / **Apr-15-05**
TIME IN: **4:30 pm**

CLIENT NO: **741** LOT NO: **00024** Total Samples: **60**

DATE /
TIME DUE:

JOB SITE: **0440.01CP**

JOB NO: Logged by: **ry** CONTACT: **Mr. Howard Edwards**

SAMPLE CONDITIONS: **EXCELLENT** DELIVERED BY: **Client**

SPECIAL INSTRUCTIONS

☒ **FAX** 415-981-0801 ☒ **E-MAIL** hedwards@ene.com
See marketing screen for more Info!!!

Invoice To: LJohnson@ene.com

REVIEWED _____ **E-MAILED** _____

CL#-LOT-SAMP	CLIENT#	DESCRIPTION
741-00024-051	NYT-S01-100804	Soil
741-00024-052	NYT-S02-100804	Soil
741-00024-053	NYT-S03-100804	Soil
741-00024-054	NYT-S04-100804	Soil
741-00024-055	NYT-CS01-100804	Soil
741-00024-056	SVB-S09-100904	Soil
741-00024-057	DEM-S09-100904	Soil
741-00024-058	DEM-S06-100904	Soil
741-00024-059	DEM-S01-100904	Soil
741-00024-060	DEM-S02-100904	Soil

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-001 SFB-SS05-100804 Description: Soil T=21C
Color: Orange Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1140 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00024-002 SFB-SS04-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1030 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00024-003 SFB-SS03-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Calc, Fldsp
Notes Collection Date/Time: Oct-08-04 /1020 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00024-004 SFB-SS02-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1010 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00024-005 SFB-SS01-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1050 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-006 SFB-S02-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 1007 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-007 NB-SS01-10080_4 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 9-% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 1250 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00024-008 NB-S01-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 9-% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 1157 Anal Date: May-04-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-008O NB-S01-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 9-% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1157 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-009 SFB-CSS01-1008(Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 1310 Anal Date: May-04-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-009 SFB-CSS01-1008(Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Other m.p.
Notes Collection Date/Time: / Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-010 SFB-CS01-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 125 Anal Date: May-04-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-010O SFB-CS01-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 125 Anal Date: Apr-24-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-010Q SFB-CS01-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 125 Anal Date: May-02-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-04-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-011 NT-SC2-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 1615 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-012 NFB-SS05-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1215 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-013 NFB-SS04-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1115 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-014 NFB-SS03-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1120 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-015 NFB-SS02-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1105 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-016 NFB-SS01-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1130 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-017 NFB-S110-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1040 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-018 NFB-S10-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1033 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00024-019 SFB-S10-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /095 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-020 NFB-S08-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1040 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-021 SFB-CS101-10080 Description: Soil
Color: Orange Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1305 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-022 NFB-S09100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1110 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-022Q NFB-S09100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1110 Anal Date: Apr-25-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-023 SFB-S107-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1050 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-024 SFB-S07-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /090 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-025 SFB-S06-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1045 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-026 SFB-S08-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 / 095 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-027 SFB-S05-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 1035 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-028 SFB-S04-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 1025 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-028Q SFB-S04-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1025 Anal Date: Apr-25-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-029 SFB-S03-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 / 1015 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-030 SFB-S01-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1040 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-031 NFB-CSS01-1008(Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1505 Anal Date: May-02-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-032 SFB-S09100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /095 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-033 NY-S13-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1710 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-034 NFB-CS01-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1500 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-035 NYT-SJ2-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1528 Anal Date: May-02-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-036 NYT-SJ1-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1720 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-037 NYT-SI2-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1656 Anal Date: May-02-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-037Q NYT-SI2-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1656 Anal Date: May-02-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-038 NYT-SI1-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1646 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-039 NY-S1A2-10080_4 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /190 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

-039Q DShepard 6/13/05

741-00024-039Q NY-S1A2-10080_4 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /190 Anal Date: Apr-25-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-040 NY-S1G2-10080_4 Description: Soil
Color: Orange Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1740 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-041 NY-S104-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1735 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00024-041Q NY-S104-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Other m.p.
Notes Collection Date/Time: / Anal Date: May-02-05 Analyst: MB
Sample Prep Method(s): QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-042 NY-SB3-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1612 Anal Date: May-02-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-043 NY-CS02-10080_4 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /190 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-044 NY-SH-100804 Description: Soil
Color: Orange Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1622 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-045 NY-SJ3-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1740 Anal Date: Apr-25-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00024-045Q NY-SJ3-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1740 Anal Date: Apr-25-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-046 NY-CS101-1008_0 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 105 Anal Date: May-02-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-047 NY-SG2-100804 Description: Soil
Color: Orange Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 1740 Anal Date: May-02-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-048 NY-SG3-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 1740 Anal Date: May-02-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-049 NY-SB-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1625 Anal Date: Apr-26-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00024-050 NY-SB-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 / 1634 Anal Date: Apr-26-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-051 NY-S01-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1718 Anal Date: Apr-26-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-052 NY-S02-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1601 Anal Date: Apr-26-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-052Q NY-S02-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1601 Anal Date: Apr-26-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-053 NY-S03-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1650 Anal Date: Apr-26-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-054 NY-S04-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1735 Anal Date: May-02-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-055 NY-CS01-10080_4 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-08-04 /185 Anal Date: Apr-26-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-056 SB-S0010094 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-0004 /1716 Anal Date: Apr-26-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00024-057 DEM-S0010094 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1510 Anal Date: Apr-26-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00024-058 DEM-S06-10094 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1437 Anal Date: May-02-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00024-059 DEM-S01-10094 Description: Soil
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1350 Anal Date: Apr-26-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00024-060 DEM-S02-10094 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1356 Anal Date: May-02-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Description:
Color: Homogenity: Friability: Texture: MacroAsb%
Total Asbestos% Other fibers% Non-fibrous%
Notes Collection Date/Time: / Anal Date: Analyst:
Sample Prep Method(s): QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
											Talc
											Talc
											Cellulose
											Talc
											Cellulose

Description:
Color: Homogenity: Friability: Texture: MacroAsb%
Total Asbestos% Other fibers% Non-fibrous%
Notes Collection Date/Time: / Anal Date: Analyst:
Sample Prep Method(s): QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
											Talc
											Talc
											Cellulose
											Talc
											Cellulose

Description:
Color: Homogenity: Friability: Texture: MacroAsb%
Total Asbestos% Other fibers% Non-fibrous%
Notes Collection Date/Time: / Anal Date: Analyst:
Sample Prep Method(s): QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
											Talc
											Talc
											Cellulose
											Talc
											Cellulose

Description:
Color: Homogenity: Friability: Texture: MacroAsb%
Total Asbestos% Other fibers% Non-fibrous%
Notes Collection Date/Time: / Anal Date: Analyst:
Sample Prep Method(s): QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
											Talc
											Talc
											Cellulose
											Talc
											Cellulose

Date: May/21/2005

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 58
Reg. Samples Analyzed: 58
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. **049351**
Date Submitted: Apr-15-05
Date Reported: May-02-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
NYB-S03-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-001			3)Oct-08-04 1150 4)May-02-05	Soil-Brown
NYB-SS04-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-002			3)Oct-08-04 1320 4)Apr-20-05	Soil-Beige
NYB-SS03-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-003			3)Oct-08-04 1313 4)Apr-20-05	Soil-Beige
NYB-SS02-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-004			3)Oct-08-04 1255 4)Apr-20-05	Soil-Beige
NYB-S104-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-005			3)Oct-08-04 1208 4)Apr-20-05	Soil-Beige
NYB-S10-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-006			3)Oct-08-04 1210 4)Apr-20-05	Soil-Beige
NYB-S09-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-007			3)Oct-08-04 1155 4)Apr-20-05	Soil-Beige
NYB-S08-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-008			3)Oct-08-04 1209 4)Apr-21-05	Soil-Brown
NYB-S07-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-009			3)Oct-08-04 1212 4)Apr-21-05	Soil-Brown
NYB-S06-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-010			3)Oct-08-04 1204 4)Apr-21-05	Soil-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemlabs.com
630 Bancroft Way, Berkeley CA 94710 **(510) 704-8930**
With Offices in Reno, NV (775) 359-3377

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 58
Reg. Samples Analyzed: 58
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. **049351**
Date Submitted: Apr-15-05
Date Reported: May-02-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
NYB-SS05-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-011			3)Oct-08-04 1328 4) Apr-21-05	Soil-Brown
NYB-S04-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-012			3) Oct-08-04 1205 4) Apr-21-05	Soil-Brown
NYB-SS104-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-013			3) Oct-08-04 1320 4) Apr-21-05	Soil-Brown
CPS-CS01-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-014			3) Oct-08-04 1430 4)May-02-05	Soil-Brown
CPS-S101-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-015			3) Oct-08-04 1135 4)Apr-21-05	Soil-Brown
CPS-S07-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-016			3) Oct-08-04 1134 4) Apr-21-05	Soil-Brown
CPS-S06-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-017			3) Oct-08-04 1133 4)Apr-21-05	Soil-Brown
CPS-S05-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-018			3) Oct-08-04 1132 4)Apr-21-05	Soil-Brown
CPS-S04-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-019			3) Oct-08-04 1131 4)Apr-21-05	Soil-Brown
CPS-S03-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-020			3) Oct-08-04 1135 4)Apr-21-05	Soil-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC.
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630 Bancroft Way, Berkeley CA 94710 **(510) 704-8930**
With Offices in Reno, NV (775) 359-3377

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 58
Reg. Samples Analyzed: 58
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. **049351**
Date Submitted: Apr-15-05
Date Reported: May-02-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
CPS-S02-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-021			3)Oct-08-04 1133 4)Apr-21-05	Soil-Brown
NYB-S05-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-022			3)Oct-08-04 1200 4)Apr-21-05	Soil-Beige
NYT-SC1-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-023			3)Oct-08-04 1608 4)Apr-21-05	Soil-Brown
NYT-SF3-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-024			3)Oct-08-04 1730 4)Apr-21-05	Soil-Brown
NYT-SF2-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-025			3)Oct-08-04 1715 4)Apr-21-05	Soil-Brown
NYT-SF1-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-026			3)Oct-08-04 1711 4)Apr-21-05	Soil-Brown
NYT-S1E1-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-027			3)Oct-08-04 1900 4)Apr-21-05	Soil-Brown
NYT-SE3-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-028			3)Oct-08-04 1705 4)Apr-21-05	Soil-Beige
NYT-SE2-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-029			3)Oct-08-04 1703 4)Apr-21-05	Soil-Brown
NYT-SE1-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-030			3)Oct-08-04 1655 4)Apr-21-05	Soil-Beige

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 58
Reg. Samples Analyzed: 58
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. **049351**
Date Submitted: Apr-15-05
Date Reported: May-02-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
NYT-SD3-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-031			3)Oct-08-04 1645 4)Apr-21-05	Soil-Brown
NYT-SD2-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-032			3)Oct-08-04 1640 4)Apr-21-05	Soil-Brown
NYB-SS06-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-033			3)Oct-08-04 1335 4)Apr-21-05	Soil-Brown
NYT-SC3-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-034			3)Oct-08-04 1626 4)Apr-22-05	Soil-Orange
NYT-SG1-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-035			3)Oct-08-04 1732 4)Apr-22-05	Soil-Orange
NYT-SB2-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-036			3)Oct-08-04 1601 4)Apr-21-05	Soil-Brown
NYT-SB1-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-037			3)Oct-08-04 1553 4)Apr-21-05	Soil-Brown
NYT-SA3-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-038			3)Oct-08-04 1548 4)Apr-21-05	Soil-Brown
NYT-SA2-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-039			3)Oct-08-04 1526 4)Apr-21-05	Soil-Brown
NYT-SA1-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-040			3)Oct-08-04 1530 4)Apr-21-05	Soil-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 58
Reg. Samples Analyzed: 58
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. **049351**
Date Submitted: Apr-15-05
Date Reported: May-02-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
NYB-CSS01-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-041			3)Oct-08-04 1306 4)May-02-05	Soil-Brown
NYB-CS01-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-042			3)Oct-08-04 1305 4)Apr-22-05	Soil-Brown
NFB-SS06-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-043			3)Oct-08-04 1245 4)Apr-22-05	Soil-Brown
NYB-SS07-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-044			3)Oct-08-04 1325 4)Apr-22-05	Soil-Brown
NYT-SD1-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-045			3)Oct-08-04 1635 4)Apr-22-05	Soil-Brown
SFB-SS07-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-046			3)Oct-08-04 1055 4)Apr-22-05	Soil-Orange
CPS-S01-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-047			3)Oct-08-04 1130 4)Apr-22-05	Soil-Brown
NFB-S07-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-048			3)Oct-08-04 1102 4)Apr-22-05	Soil-Brown
NFB-S06-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-049			3)Oct-08-04 1112 4)Apr-22-05	Soil-Brown
NFB-S05-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-050			3)Oct-08-04 1102 4)Apr-22-05	Soil-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 58
Reg. Samples Analyzed: 58
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. **049351**
Date Submitted: Apr-15-05
Date Reported: May-02-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
NFB-S04-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-051			3)Oct-08-04 1030 4) Apr-22-05	Soil-Brown
NFB-S03-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-052			3) Oct-08-04 1058 4) Apr-22-05	Soil-Brown
NFB-S02-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-053			3) Oct-08-04 1100 4) Apr-22-05	Soil-Brown
NFB-S01-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-054			3) Oct-08-04 1045 4) Apr-22-05	Soil-Brown
NFB-SS07-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-055			3) Oct-08-04 1148 4)Apr-22-05	Soil-Beige
SFB-SS107-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-056			3) Oct-08-04 1600 4) Apr-22-05	Soil-Beige
NYB-S02-100804	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-057			3) Oct-08-04 1156 4)Apr-22-05	Soil-Brown
SFB-SS06-100804	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil
Lab ID # 741-00023-058			3) Oct-08-04 1050 4)Apr-22-05	Soil-Orange
			1) 2)	
Lab ID #			3) 4)	
			1) 2)	
Lab ID #			3) 4)	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

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www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

04042424

EDH Investigation SOIL

EPA Contract Work:
Ecology and Environment

CHAIN OF CUSTODY RECORD
Site #: 0440.01CP
Contact Name: Charles LaCerra
Contact Phone: (856) 858-4800

No: 0440.01CP-0021
Lab: EMSL Analytical
Lab_City: Westmont
Lab Phone: (856) 858-4800

Lab #	Sample #	Analyses – Per SOW	Matrix	Date Collected	Sample Time	Numb Cont	Priority
X	EDH-ZP2-100704	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/7/2004	13:50	1	BAG
X	EDH-ZP3-100704	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/7/2004	13:50	1	BAG
✓	NYB-S03-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:50	1	BAG
✓	NYB-SS04-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	13:20	1	BAG
✓	NYB-SS03-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	13:13	1	BAG
✓	NYB-SS02-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	12:55	1	BAG
✓	NYB-S104-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	12:08	1	BAG
✓	NYB-S10-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	12:10	1	BAG
✓	NYB-S09-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:55	1	BAG
✓	NYB-S08-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	12:09	1	BAG
✓	NYB-S07-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	12:12	1	BAG
✓	NYB-S06-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	12:04	1	BAG
✓	NYB-SS05-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	13:28	1	BAG
✓	NYB-S04-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	12:05	1	BAG
✓	NYB-SS104-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	13:20	1	BAG
X	CPS-CS01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	14:30	1	BAG
✓	CPS-S101-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:35	1	BAG
✓	CPS-S07-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:34	1	BAG
✓	CPS-S06-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:33	1	BAG
✓	CPS-S05-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:32	1	BAG

Comments: Refer to C-O-C Attachment A

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #
0440.01CP-0015

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	12/7/04	[illegible]	12/7/04	1126	All/Return	Charles LaCerra	3/11/05	[illegible]	4/12/05	0940
	[illegible]	4/15/05	Carol Wh ATEM	4/15/05 4:27pm							

Note EDH-ZP2-100704 and EDH-ZP3-100704 sent to Owen Crankshaw with RTI per Steve Remaley's request on 04/12/05 Lisa M. Johnson

0440.01CP-0021

EDH Investigation SOIL

EPA Contract Work:
Ecology and Environment

CHAIN OF CUSTODY RECORD
Site #: 0440.01CP
Contact Name: Charles LaCerra
Contact Phone: (856) 858-4800

No: 0440.01CP-0021
Lab: EMSL Analytical
Lab_City: Westmont
Lab Phone: (856) 858-4800

Lab #	Sample #	Analyses — Per SOW	Matrix	Date Collected	Sample Time	Numb Cont	Priority
	CPS-S04-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:31	1	BAG
	CPS-S03-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:35	1	BAG
	CPS-S02-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:33	1	BAG
	NYB-S05-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	12:00	1	BAG
	NYT-SC1-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:08	1	BAG
	NYT-SF3-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:30	1	BAG
	NYT-SF2-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:15	1	BAG
	NYT-SF1-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:11	1	BAG
	NYT-S1E1-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	19:00	1	BAG
	NYT-SE3-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:05	1	BAG
	NYT-SE2-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:03	1	BAG
	NYT-SE1-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:55	1	BAG
	NYT-SD3-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:45	1	BAG
	NYT-SD2-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:40	1	BAG
	NYB-SS06-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	13:35	1	BAG
	NYT-SC3-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:26	1	BAG
	NYT-SG1-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	17:32	1	BAG
	NYT-SB2-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:01	1	BAG
	NYT-SB1-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	15:53	1	BAG
	NYT-SA3-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	15:48	1	BAG

Comments: Refer to C-O-C Attachment A

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #
C44C.01CP-0015

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	12/7/04	[illegible]	12/7/04	1126	All/Return	Charles LaCerra	3/11/05	[illegible]	4/12/05	
	[illegible]	4/15/05	CWu ATEM	4/15/05	4:27pm						

0440124124

EDH Investigation SOIL

EPA Contract Work:
Ecology and Environment

CHAIN OF CUSTODY RECORD
Site #: 0440.01CP
Contact Name: Charles LaCerra
Contact Phone: (856) 858-4800

No: 0440.01CP-0021
Lab: EMSL Analytical
Lab_City: Westmont
Lab Phone: (856) 858-4800

Lab #	Sample #	Analyses – Per SOW	Matrix	Date Collected	Sample Time	Numb Cont	Priority
	NYT-SA2-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	15:26	1	BAG
	NYT-SA1-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	15:30	1	BAG
	NYB-CSS01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	13:06	1	BAG
	NYB-CS01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	13:05	1	BAG
	NFB-SS06-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	12:45	1	BAG
	NYB-SS07-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	13:25	1	BAG
	NYT-SD1-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:35	1	BAG
	SFB-SS07-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:55	1	BAG
	CPS-S01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:30	1	BAG
	NFB-S07-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:02	1	BAG
	NFB-S06-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:12	1	BAG
	NFB-S05-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:02	1	BAG
	NFB-S04-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:30	1	BAG
	NFB-S03-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:58	1	BAG
	NFB-S02-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:00	1	BAG
	NFB-S01-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:45	1	BAG
	NFB-SS07-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:48	1	BAG
	SFB-SS107-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	16:00	1	BAG
	NYB-S02-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	11:56	1	BAG
	SFB-SS06-100804	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/8/2004	10:50	1	BAG

Comments: Refer to C-O-C Attachment A

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY # 0440.01CP-0015

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	12/7/04	[illegible]	12/7/04	1126	All/Return	Charles LaCerra	3/11/05	[illegible]		
	[illegible]	4/15/05	CWu ATEM	4/15/05	4:28						

ASBESTOS TEM LABORATORIES, INC.
PLM BULK SAMPLE LOGIN REPORT

LOG#: 049351

INVOICE #:

ANALYSIS REQUESTED: **PLM-STANDARD** URGENCY: **6-10 DAYS**

DATE / Apr-15-05
TIME IN: 4:30 pm

CLIENT NO: 741 LOT NO: 00023 Total Samples: 58

DATE /
TIME DUE:

JOB SITE: 0440.01CP

JOB NO: Logged by: ry CONTACT: Mr. Howard Edwards

SAMPLE CONDITIONS: EXCELLENT DELIVERED BY: FedEx S

SPECIAL INSTRUCTIONS

☒ FAX 415-981-0801 ☒ E-MAIL hedwards@ene.com
See marketing screen for more info!!!

Invoice To:
LJohnson@ene.com

REVIEWED _____ E-MAILED _____

CL#-LOT-SAMP	CLIENT#	DESCRIPTION
741-00023-001	NYB-S03-100804	Soil
741-00023-002	NYB-SS04-100804	Soil
741-00023-003	NYB-SS03-100804	Soil
741-00023-004	NYB-SS02-100804	Soil
741-00023-005	NYB-S104-100804	Soil
741-00023-006	NYB-S10-100804	Soil
741-00023-007	NYB-S09-100804	Soil
741-00023-008	NYB-S08-100804	Soil
741-00023-009	NYB-S07-100804	Soil
741-00023-010	NYB-S06-100804	Soil
741-00023-011	NYB-SS05-100804	Soil
741-00023-012	NYB-S04-100804	Soil
741-00023-013	NYB-SS104-100804	Soil
741-00023-014	CPS-CS01-100804	Soil
741-00023-015	CPS-S101-100804	Soil
741-00023-016	CPS-S07-100804	Soil
741-00023-017	CPS-S06-100804	Soil
741-00023-018	CPS-S05-100804	Soil
741-00023-019	CPS-S04-100804	Soil
741-00023-020	CPS-S03-100804	Soil
741-00023-021	CPS-S02-100804	Soil
741-00023-022	NYB-S05-100804	Soil
741-00023-023	NYT-SC1-100804	Soil
741-00023-024	NYT-SF3-100804	Soil
741-00023-025	NYT-SF2-100804	Soil

ASBESTOS TEM LABORATORIES, INC.
PLM BULK SAMPLE LOGIN REPORT

LOG#: 049351

INVOICE #:

ANALYSIS REQUESTED: **PLM-STANDARD** URGENCY: **6-10 DAYS**

DATE / **Apr-15-05**
TIME IN: **4:30 pm**

CLIENT NO: **741** LOT NO: **00023** Total Samples: **58**

DATE /
TIME DUE:

JOB SITE: **0440.01CP**

JOB NO: Logged by: **ry** CONTACT: **Mr. Howard Edwards**

SAMPLE CONDITIONS: **EXCELLENT** DELIVERED BY: **FedEx S**

SPECIAL INSTRUCTIONS

☒ **FAX** 415-981-0801 ☒ **E-MAIL** hedwards@ene.com
See marketing screen for more info!!!

Invoice To: LJohnson@ene.com

REVIEWED _____ **E-MAILED** _____

CL#-LOT-SAMP	CLIENT#	DESCRIPTION
741-00023-026	NYT-SF1-100804	Soil
741-00023-027	NYT-S1E1-100804	Soil
741-00023-028	NYT-SE3-100804	Soil
741-00023-029	NYT-SE2-100804	Soil
741-00023-030	NYT-SE1-100804	Soil
741-00023-031	NYT-SD3-100804	Soil
741-00023-032	NYT-SD2-100804	Soil
741-00023-033	NYB-SS06-100804	Soil
741-00023-034	NYT-SC3-100804	Soil
741-00023-035	NYT-SG1-100804	Soil
741-00023-036	NYT-SB2-100804	Soil
741-00023-037	NYT-SB1-100804	Soil
741-00023-038	NYT-SA3-100804	Soil
741-00023-039	NYT-SA2-100804	Soil
741-00023-040	NYT-SA1-100804	Soil
741-00023-041	NYB-CSS01-100804	Soil
741-00023-042	NYB-CS01-100804	Soil
741-00023-043	NFB-SS06-100804	Soil
741-00023-044	NYB-SS07-100804	Soil
741-00023-045	NYT-SD1-100804	Soil
741-00023-046	SFB-SS07-100804	Soil
741-00023-047	CPS-S01-100804	Soil
741-00023-048	NFB-S07-100804	Soil
741-00023-049	NFB-S06-100804	Soil
741-00023-050	NFB-S05-100804	Soil

ASBESTOS TEM LABORATORIES, INC.
PLM BULK SAMPLE LOGIN REPORT

LOG#: 049351

INVOICE #:

ANALYSIS REQUESTED: **PLM-STANDARD** URGENCY: **6-10 DAYS**

DATE / **Apr-15-05**
TIME IN: **4:30 pm**

CLIENT NO: **741** LOT NO: **00023** Total Samples: **58**

DATE /
TIME DUE:

JOB SITE: **0440.01CP**

JOB NO: Logged by: **ry** CONTACT: **Mr. Howard Edwards**

SAMPLE CONDITIONS: **EXCELLENT** DELIVERED BY: **FedEx S**

SPECIAL INSTRUCTIONS

☒ FAX **415-981-0801** ☒ E-MAIL **hedwards@ene.com**
See marketing screen for more info!!!

Invoice To:
LJohnson@ene.com

REVIEWED _____ **E-MAILED** _____

CL#-LOT-SAMP	CLIENT#	DESCRIPTION
741-00023-051	NFB-S04-100804	Soil
741-00023-052	NFB-S03-100804	Soil
741-00023-053	NFB-S02-100804	Soil
741-00023-054	NFB-S01-100804	Soil
741-00023-055	NFB-SS07-100804	Soil
741-00023-056	SFB-SS107-100804	Soil
741-00023-057	NYB-S02-100804	Soil
741-00023-058	SFB-SS06-100804	Soil

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-001 NYB-S03-100804 Description: Soil T=20C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1150 Anal Date: Apr-20-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-002 NYB-SS04-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 1320 Anal Date: Apr-20-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00023-003 NYB-SS03-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 / 1313 Anal Date: Apr-20-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-003Q NYB-SS03-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1313 Anal Date: Apr-20-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-004 NYB-SS02-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 / 1255 Anal Date: Apr-20-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-005 NYB-S104-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1208 Anal Date: Apr-20-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-006 NYB-S10-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1210 Anal Date: Apr-20-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-007 NYB-S09-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1155 Anal Date: Apr-20-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00023-008 NYB-S08-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1209 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-009 NYB-S07-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1212 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-009Q NYB-S07-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1212 Anal Date: Apr-21-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-010 NYB-S06-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1204 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00023-011 NYB-SS05-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1328 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-012 NYB-S04-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1205 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-013 NYB-SS104-1008(Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1320 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-014 CPS-CS01-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1430 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-015 CPS-S101-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1135 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-016 CPS-S07-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1134 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-017 CPS-S06-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1133 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-018 CPS-S05-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1132 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-019 CPS-S04-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1131 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-019Q CPS-S04-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1131 Anal Date: Apr-21-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-020 CPS-S03-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1135 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-021 CPS-S02-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1133 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00023-022 NB-S05-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1200 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

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ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-022Q NYB-S05-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1200 Anal Date: Apr-21-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-023 NYT-SC1-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1608 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00023-023Q NYT-SC1-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1608 Anal Date: Apr-21-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-024 NYT-SF3-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1730 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-025 NYT-SF2-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1715 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-026 NYT-SF1-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1711 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-027 NYT-S1E1-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1900 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00023-027Q NYT-S1E1-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1900 Anal Date: Apr-21-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-028 NYT-SE3-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1705 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-029 NYT-SE2-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1703 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

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ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-030 NYT-SE1-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1655 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-031 NYT-SD3-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1645 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-032 NYT-SD2-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1640 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00023-032Q NYT-SD2-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1640 Anal Date: Apr-21-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-033 NYB-SS06-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1335 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

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ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-034 NYT-SC3-100804 Description: Soil
Color: Orange Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1626 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00023-035 NYT-SG1-100804 Description: Soil
Color: Orange Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1732 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-036 NYT-SB2-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1601 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-037 NYT-SB1-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1553 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-037Q NYT-SB1-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1553 Anal Date: Apr-21-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

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ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-038 NYT-SA3-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1548 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-039 NYT-SA2-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1526 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-040 NYT-SA1-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1530 Anal Date: Apr-21-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-040Q NYT-SA1-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1530 Anal Date: Apr-21-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-041 NYB-CSS01-1008(Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 98-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1306 Anal Date: May-02-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

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ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-041Q NYB-CSS01-1008(Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Other m.p.
Notes Collection Date/Time: / Anal Date: May-02-05 Analyst: MB
Sample Prep Method(s): QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-042 NYB-CS01-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 1305 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-043 NFB-SS06-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 / 1245 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00023-044 NYB-SS07-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1325 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-044Q NYB-SS07-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 / 1325 Anal Date: Apr-22-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-045 NYT-SD1-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1635 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-046 SFB-SS07-100804 Description: Soil
Color: Orange Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1055 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-047 CPS-S01-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1130 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00023-048 NFB-S07-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1102 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-049 NFB-S06-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1112 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-049Q NFB-S06100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1112 Anal Date: Apr-22-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-050 NFB-S05-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1102 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-051 NFB-S04-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1030 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00023-052 NFB-S03-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1058 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-053 NFB-S02-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1100 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-054 NFB-S01-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /1045 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00023-055 NFB-SS07-100804 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1148 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-056 SFB-SS107-10080 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-08-04 /160 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

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741-00023-056Q SFB-SS107-10080 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Other m.p.
Notes Collection Date/Time: / Anal Date: Apr-22-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-02-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-057 NB-S02-100804 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1156 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00023-058 SFB-SS0610080_4 Description: Soil
Color: Orange Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-08-04 /1050 Anal Date: Apr-22-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00023-058Q SFB-SS0610080_4 Description: Soil
Color: Orange Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100%
Notes Collection Date/Time: / Anal Date: May-21-05 Analyst: SF
Sample Prep Method(s): QC Date: 5-21-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Description:
Color: Homogenity: Friability: Texture: MacroAsb%
Total Asbestos% Other fibers% Non-fibrous%
Notes Collection Date/Time: / Anal Date: Analyst:
Sample Prep Method(s): QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
											Talc
											Talc
											Cellulose
											Talc
											Cellulose

Description:
Color: Homogenity: Friability: Texture: MacroAsb%
Total Asbestos% Other fibers% Non-fibrous%
Notes Collection Date/Time: / Anal Date: Analyst:
Sample Prep Method(s): QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
											Talc
											Talc
											Cellulose
											Talc
											Cellulose

Description:
Color: Homogenity: Friability: Texture: MacroAsb%
Total Asbestos% Other fibers% Non-fibrous%
Notes Collection Date/Time: / Anal Date: Analyst:
Sample Prep Method(s): QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
											Talc
											Talc
											Cellulose
											Talc
											Cellulose

Date: May/21/2005

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 40
Reg. Samples Analyzed: 40
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. **049487**
Date Submitted: Apr-15-05
Date Reported: May-03-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD	DESCRIPTION LAB
DEM-S03-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil	
Lab ID # 741-00025-001			3)Oct-09-04 1403 4)May-03-05		Soil-Beige
DEM-S04-100904	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil	
Lab ID # 741-00025-002			3) Oct-09-04 1415 4) Apr-27-05		Soil-Brown
DEM-S05-100904	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil	
Lab ID # 741-00025-003			3) Oct-09-04 1427 4)Apr-27-05		Soil-Beige
SVB-S10-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil	
Lab ID # 741-00025-004			3) Oct-09-04 1720 4)May-03-05		Soil-Brown
DEM-S07-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil	
Lab ID # 741-00025-005			3) Oct-09-04 1450 4)May-03-05		Soil-Beige
DEM-S106-100904	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil	
Lab ID # 741-00025-006			3) Oct-09-04 1625 4)May-03-05		Soil-Beige
DEM-CS01-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Fldsp, Calc, Other m.p.	Soil	
Lab ID # 741-00025-007			3) Oct-09-04 1730 4)May-03-05		Soil-Beige
DEM-S12-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil	
Lab ID # 741-00025-008			3) Oct-09-04 1536 4)May-03-05		Soil-Beige
DEM-S10-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil	
Lab ID # 741-00025-009			3) Oct-09-04 1520 4)May-03-05		Soil-Beige
DEM-S08-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil	
Lab ID # 741-00025-010			3) Oct-09-04 1500 4)May-03-05		Soil-Beige

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC. **630 Bancroft Way, Berkeley CA 94710** **(510) 704-8930**
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 40
Reg. Samples Analyzed: 40
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. **049487**
Date Submitted: Apr-15-05
Date Reported: May-03-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
SVB-S08-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-011			3)Oct-09-04 1712 4) Apr-27-05	Soil-Beige
SVB-S02-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-012			3) Oct-09-04 1640 4) Apr-27-05	Soil-Brown
DEM-S11-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-013			3) Oct-09-04 1525 4)May-03-05	Soil-Beige
RHS-S04-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, GlassFrags, Calc	Soil
Lab ID # 741-00025-014			3) Oct-09-04 1824 4)May-03-05	Soil-Beige
RHS-S08-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, GlassFrags, Other m.p.	Soil
Lab ID # 741-00025-015			3) Oct-09-04 1850 4)Apr-27-05	Soil-Brown
DEM-S13-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-016			3) Oct-09-04 1540 4)Apr-27-05	Soil-Brown
RHS-S01-100904	<1%	Actinolite	1)None Detected 2)100-100% Opq, Qtz, Calc, Other m.p.	Soil
Lab ID # 741-00025-017			3) Oct-09-04 1808 4)Apr-27-05	Soil-Brown
SVB-S04-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-018			3) Oct-09-04 1650 4)Apr-27-05	Soil-Brown
RHS-S03-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-019			3) Oct-09-04 1817 4)Apr-27-05	Soil-Beige
SVB-CS01-100904	<1%	Actinolite	1)None Detected 2)100-100% Opq, Qtz, Calc, Other m.p.	Soil
Lab ID # 741-00025-020			3) Oct-09-04 1730 4)Apr-27-05	Soil-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC. **630 Bancroft Way, Berkeley CA 94710** **(510) 704-8930**
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 40
Reg. Samples Analyzed: 40
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. **049487**
Date Submitted: Apr-15-05
Date Reported: May-03-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
RHS-S05-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-021			3)Oct-09-04 1830 4)Apr-27-05	Soil-Grey
RHS-S06-100904	<1%	Actinolite	1)None Detected 2)	Soil
Lab ID # 741-00025-022			3) Oct-09-04 1836 4) Apr-27-05	Soil-Brown
RHS-S106-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-023			3) Oct-09-04 1425 4)Apr-27-05	Soil-Brown
SVB-S07-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, GlassFrags, Other m.p.	Soil
Lab ID # 741-00025-024			3) Oct-09-04 1707 4)Apr-27-05	Soil-Brown
RHS-CS01-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, GlassFrags, Other m.p.	Soil
Lab ID # 741-00025-025			3) Oct-09-04 1900 4)Apr-27-05	Soil-Brown
SVB-S01-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-026			3) Oct-09-04 1635 4)Apr-27-05	Soil-Brown
SVB-S03-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-027			3) Oct-09-04 1645 4)Apr-27-05	Soil-Brown
SVB-S05-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-028			3) Oct-09-04 1655 4)Apr-27-05	Soil-Brown
SVB-S06-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-029			3) Oct-09-04 1700 4)Apr-27-05	Soil-Brown
SVB-S106-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-030			3) Oct-09-04 1845 4)Apr-27-05	Soil-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

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POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 40
Reg. Samples Analyzed: 40
Split Layers Analyzed: 0

Job Site / No. 0440.01CP

Report No. 049487
Date Submitted: Apr-15-05
Date Reported: May-03-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD / LAB
RHS-S07-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, GlassFrags, Other m.p.	Soil
Lab ID # 741-00025-031			3)Oct-09-04 1845 4)Apr-27-05	Soil-Grey
RHS-S02-100904	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-032			3)Oct-09-04 1812 4)Apr-27-05	Soil-Beige
JSG-S03-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-033			3)Oct-10-04 1723 4)Apr-27-05	Soil-Brown
JSG-S04-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-034			3)Oct-10-04 1727 4)Apr-27-05	Soil-Brown
JSG-S05-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-035			3)Oct-10-04 1730 4)Apr-27-05	Soil-Brown
JSG-S06-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-036			3)Oct-10-04 1734 4)Apr-27-05	Soil-Brown
JSG-S07-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-037			3)Oct-10-04 1739 4)Apr-27-05	Soil-Brown
JSG-S107-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-038			3)Oct-10-04 1741 4)Apr-27-05	Soil-Brown
JSG-S08-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-039			3)Oct-10-04 1742 4)Apr-27-05	Soil-Grey
JSG-CS01-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00025-040			3)Oct-10-04 1715 4)Apr-27-05	Soil-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemlabs.com
630 Bancroft Way, Berkeley CA 94710 (510) 704-8930
With Offices in Reno, NV (775) 359-3377

0404241214

EDH Investigation SOIL

EPA Contract Work
Ecology and Environment

CHAIN OF CUSTODY RECORD
Site #: 0440.01CP
Contact Name: Charles LaCerra
Contact Phone: (856) 858-4800

No: 0440.01CP-0021
Lab: EMSL Analytical
Lab_City: Westmont
Lab Phone: (856) 858-4800

Lab #	Sample #	Analyses - Re- SOW	Matrix	Date Collected	Sample Time	Numb Cont	Priority
✓	DEM-S03-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	14:03	1	BAG
✓	DEM-S04-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	14:15	1	BAG
✓	DEM-S05-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	14:27	1	BAG
✓	SVB-S10-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	17:20	1	BAG
✓	DEM-S07-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	14:50	1	BAG
✓	DEM-S106-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	16:25	1	BAG
✓	DEM-CS01-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	17:30	1	BAG
✓	DEM-S12-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	15:36	1	BAG
✓	DEM-S10-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	15:20	1	BAG
NR	DEM-S08-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	15:00	1	BAG
✓	SVB-S08-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	17:12	1	BAG
✓	SVB-S02-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	16:40	1	BAG
✓	DEM-S11-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	15:25	1	BAG
✓	RHS-S04-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	18:24	1	BAG
✓	RHS-S08-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	18:50	1	BAG
✓	DEM-S13-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	15:40	1	BAG
✓	RHS-S01-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	18:08	1	BAG
✓	SVB-S04-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	16:50	1	BAG
✓	RHS-S03-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	18:17	1	BAG
✓	SVB-CS01-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	17:30	1	BAG

Comments: DEM-S08-100904 Not Received (NR)
Refer to C-O-C Attachment A.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #
0440.01CP-0015

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	12/7/04	[illegible]	12/8/04	1126	All/Return	Charles LaCerra	3/11/05	[illegible]		
	[illegible]	4/15/05	CMA ATEM	4/15/05	4:29 pm						

04W24124

EDH Investigation SOIL

EPA Contract Work:
Ecology and Environment

CHAIN OF CUSTODY RECORD
Site #: 0440.01CP
Contact Name: Charles LaCerra
Contact Phone: (856) 858-4800

No: 0440.01CP-0021
Lab: EMSL Analytical
Lab_City: Westmont
Lab Phone: (856) 858-4800

Lab #	Sample #	Analyses - Per SOW	Matrix	Date Collected	Sample Time	Numb Cont	Priority
	RHS-S05-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	18:30	1	BAG
	RHS-S06-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	18:36	1	BAG
	RHS-S106-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	14:25	1	BAG
	SVB-S07-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	17:07	1	BAG
	RHS-CS01-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	19:00	1	BAG
	SVB-S01-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	16:35	1	BAG
	SVB-S03-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	16:45	1	BAG
	SVB-S05-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	16:55	1	BAG
	SVB-S06-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	17:00	1	BAG
	SVB-S106-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	18:45	1	BAG
	RHS-S07-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	18:45	1	BAG
	RHS-S02-100904	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/9/2004	18:12	1	BAG
	JSG-S03-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	17:23	1	BAG
	JSG-S04-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	17:27	1	BAG
	JSG-S05-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	17:30	1	BAG
	JSG-S06-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	17:34	1	BAG
	JSG-S07-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	17:39	1	BAG
	JSG-S107-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	17:41	1	BAG
	JSG-S08-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	17:42	1	BAG
	JSG-CS01-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	17:15	1	BAG

Comments: Refer to C-O-C Attachment A

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #
C440.01CP-0015

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	12/17/04	[illegible]	12/17/04	1126	All/Return	Charles LaCerra	3/11/05	[illegible]		
	[illegible]	4/15/05	CWU ATEM	4/15/05	4:29 PM						

ASBESTOS TEM LABORATORIES, INC.
PLM BULK SAMPLE LOGIN REPORT

LOG#: 049487

INVOICE #:

ANALYSIS REQUESTED: **PLM-STANDARD** URGENCY: **6-10 DAYS**

DATE / **Apr-15-05**
TIME IN: **4:30 pm**

CLIENT NO: **741** LOT NO: **00025** Total Samples: **40**

DATE /
TIME DUE:

JOB SITE: **0440.01CP**

JOB NO: Logged by: **ry** CONTACT: **Mr. Howard Edwards**

SAMPLE CONDITIONS: **EXCELLENT** DELIVERED BY: **FedEx S**

SPECIAL INSTRUCTIONS

☒ **FAX** 415-981-0801 ☒ **E-MAIL** hedwards@ene.com
See marketing screen for more info!!!

Invoice To: LJohnson@ene.com

REVIEWED _____ **E-MAILED** _____

CL#-LOT-SAMP	CLIENT#	DESCRIPTION
741-00025-001	DEM-S03-100904	Soil
741-00025-002	DEM-S04-100904	Soil
741-00025-003	DEM-S05-100904	Soil
741-00025-004	SVB-S10-100904	Soil
741-00025-005	DEM-S07-100904	Soil
741-00025-006	DEM-S106-100904	Soil
741-00025-007	DEM-CS01-100904	Soil
741-00025-008	DEM-S12-100904	Soil
741-00025-009	DEM-S10-100904	Soil
741-00025-010	DEM-S08-100904	Soil
741-00025-011	SVB-S08-100904	Soil
741-00025-012	SVB-S02-100904	Soil
741-00025-013	DEM-S11-100904	Soil
741-00025-014	RHS-S04-100904	Soil
741-00025-015	RHS-S08-100904	Soil
741-00025-016	DEM-S13-100904	Soil
741-00025-017	RHS-S01-100904	Soil
741-00025-018	SVB-S04-100904	Soil
741-00025-019	RHS-S03-100904	Soil
741-00025-020	SVB-CS01-100904	Soil
741-00025-021	RHS-S05-100904	Soil
741-00025-022	RHS-S06-100904	Soil
741-00025-023	RHS-S106-100904	Soil
741-00025-024	SVB-S07-100904	Soil
741-00025-025	RHS-CS01-100904	Soil

ASBESTOS TEM LABORATORIES, INC.
PLM BULK SAMPLE LOGIN REPORT

LOG#: 049487

INVOICE #:

ANALYSIS REQUESTED: **PLM-STANDARD** URGENCY: **6-10 DAYS**

DATE / **Apr-15-05**
TIME IN: **4:30 pm**

CLIENT NO: **741** LOT NO: **00025** Total Samples: **40**

DATE /
TIME DUE:

JOB SITE: **0440.01CP**

JOB NO:

Logged by: **ry** CONTACT: **Mr. Howard Edwards**

SAMPLE CONDITIONS: **EXCELLENT** DELIVERED BY: **FedEx S**

SPECIAL INSTRUCTIONS

☒ **FAX** 415-981-0801 ☒ **E-MAIL** hedwards@ene.com
See marketing screen for more info!!!

Invoice To:
LJohnson@ene.com

REVIEWED _____ **E-MAILED** _____

CL#-LOT-SAMP	CLIENT#	DESCRIPTION
741-00025-026	SVB-S01-100904	Soil
741-00025-027	SVB-S03-100904	Soil
741-00025-028	SVB-S05-100904	Soil
741-00025-029	SVB-S06-100904	Soil
741-00025-030	SVB-S106-100904	Soil
741-00025-031	RHS-S07-100904	Soil
741-00025-032	RHS-S02-100904	Soil
741-00025-033	JSG-S03-101004	Soil
741-00025-034	JSG-S04-101004	Soil
741-00025-035	JSG-S05-101004	Soil
741-00025-036	JSG-S06-101004	Soil
741-00025-037	JSG-S07-101004	Soil
741-00025-038	JSG-S107-101004	Soil
741-00025-039	JSG-S08-101004	Soil
741-00025-040	JSG-CS01-101004	Soil

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00025-001 DEM-S03-10094 Description: Soil T=22C
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0904 /1403 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-002 DEM-S04-10094 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0904 /1415 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00025-003 DEM-S05-10094 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0904 /1427 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00025-003Q DEM-S05-10094 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0904 /1427 Anal Date: Apr-27-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-004 SB-S10-10094 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0904 /1720 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00025-005 DEM-S07-10094 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0904 /1450 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-006 DEM-S106-1009 4 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0904 /1625 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00025-006Q DEM-S106-1009 4 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0904 /1625 Anal Date: May-03-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-007 DEM-CS01-1009 4 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Fldsp, Calc, Other m.p.
Notes Collection Date/Time: Oct-0904 /1730 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-008 DEM-S12-10094 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0904 /1536 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00025-009 DEM-S10-10004 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1520 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

-009Q [illegible] 6/13/05

741-00025-009Q DEM-S10-10004 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1520 Anal Date: May-03-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-010 DEM-S08-10004 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1500 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-011 SB-S08-10004 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1712 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-012 SB-S02-10004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1640 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00025-013 DEM-S11-10004 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1525 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-014 RB-S04-10004 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, GlassFrags, Calc
Notes Collection Date/Time: Oct-0004 /1824 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-015 RB-S08-10004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, GlassFrags, Other m.p.
Notes Collection Date/Time: Oct-0004 /1850 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-015Q RB-S08-10004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, GlassFrags, Other m.p.
Notes Collection Date/Time: Oct-0004 /1850 Anal Date: Apr-27-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-016 DEM-S13-10004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1540 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00025-017 RE-S01-10004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% OpqQtz, Calc, Other m.p.
Notes Collection Date/Time: Oct-0004 /1808 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-018 SE-S04-10004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1650 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-019 RE-S03-10004 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1817 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-020 SE-CS01-1000 4 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% OpqQtz, Calc, Other m.p.
Notes Collection Date/Time: Oct-0004 /1730 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-021 RE-S05-10004 Description: Soil
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1830 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00025-021Q RB-S05-10004 Description: Soil
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1830 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-022 RB-S06-10004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous%
Notes Collection Date/Time: Oct-0004 /1836 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-023 RB-S106-1009 4 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-0004 /1425 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-024 SB-S07-10004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, GlassFrags, Other m.p.
Notes Collection Date/Time: Oct-0004 /1707 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-025 RB-CS01-1009 4 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, GlassFrags, Other m.p.
Notes Collection Date/Time: Oct-0004 /190 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00025-026 SVB-S01-100904 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-09-04 /1635 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-027 SVB-S03-100904 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-09-04 /1645 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-028 SVB-S05-100904 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-09-04 /1655 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-029 SVB-S06-100904 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-09-04 /1700 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-029Q SVB-S06-100904 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: / Anal Date: Apr-27-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00025-030 SB-S106-10004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-0004 /1845 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-031 RB-S07-10004 Description: Soil
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, GlassFrags, Other m.p.
Notes Collection Date/Time: Oct-0004 /1845 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-032 RB-S02-10004 Description: Soil
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-0004 /1812 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-033 JSG-S03-101004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 /1723 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-034 JSG-S04-101004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 /1727 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00025-034Q JSG-S04-101004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 /1727 Anal Date: Apr-27-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-035 JSG-S05-101004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 /1730 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-036 JSG-S06-101004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 /1734 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-037 JSG-S07-101004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 /1739 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-038 JSG-S107-101004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 /1741 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00025-039 JSG-S08-101004 Description: Soil
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 / 1742 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00025-040 JSG-CS01-101004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 / 1715 Anal Date: Apr-27-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00025-040Q JSG-CS01-101004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 / 1715 Anal Date: Apr-27-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Description:
Color: Homogenity: Friability: Texture: MacroAsb%
Total Asbestos% Other fibers% Non-fibrous%
Notes Collection Date/Time: / Anal Date: Analyst:
Sample Prep Method(s): QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
											Talc
											Talc
											Cellulose
											Talc
											Cellulose

Description:
Color: Homogenity: Friability: Texture: MacroAsb%
Total Asbestos% Other fibers% Non-fibrous%
Notes Collection Date/Time: / Anal Date: Analyst:
Sample Prep Method(s): QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
											Talc
											Talc
											Cellulose
											Talc
											Cellulose

Date: May/21/2005

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 52
Reg. Samples Analyzed: 52
Split Layers Analyzed: 0

Job Site / No.
0440.01CP

Report No. **049488**
Date Submitted: Apr-15-05
Date Reported: May-03-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
JSG-S02-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-001			3)Oct-10-04 1720 4)Apr-28-05	Soil-Brown
JSB-S05-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-002			3) Oct-10-04 4)Apr-28-05	Soil-Brown
JSG-S09-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-003			3) Oct-10-04 1747 4)Apr-28-05	Soil-Brown
JSS-S01-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-004			3) Oct-10-04 1600 4)Apr-28-05	Soil-Brown
JSG-S01-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-005			3) Oct-10-04 1715 4)Apr-28-05	Soil-Brown
JSB-S07-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-006			3) Oct-10-04 1435 4)Apr-28-05	Soil-Brown
JSB-S01-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-007			3) Oct-10-04 1253 4)Apr-28-05	Soil-Brown
JSB-S101-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-008			3) Oct-10-04 1610 4)Apr-28-05	Soil-Brown
JSB-S02-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-009			3) Oct-10-04 1400 4)May-03-05	Soil-Brown
JSB-S03-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-010			3) Oct-10-04 1015 4)May-03-05	Soil-Beige

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC. **630 Bancroft Way, Berkeley CA 94710** **(510) 704-8930**
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 52
Reg. Samples Analyzed: 52
Split Layers Analyzed: 0

Job Site / No.
0440.01CP

Report No. **049488**
Date Submitted: Apr-15-05
Date Reported: May-03-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
JSB-S04-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-011			3)Oct-10-04 1100 4)May-03-05	Soil-Brown
JSB-CS01-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-012			3)Oct-10-04 1704 4)May-03-05	Soil-Brown
JSS-S02-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-013			3)Oct-10-04 1610 4)Apr-28-05	Soil-Beige
JSS-S03-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-014			3)Oct-10-04 1616 4)Apr-28-05	Soil-Grey
JSS-S04-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-015			3)Oct-10-04 1628 4)Apr-28-05	Soil-Beige
JSS-S05-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-016			3)Oct-10-04 1635 4)Apr-28-05	Soil-Grey
JSS-S06-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-017			3)Oct-10-04 1645 4)May-03-05	Soil-Brown
JSS-S07-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-018			3)Oct-10-04 1655 4)Apr-28-05	Soil-Beige
JSS-CS01-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-019			3)Oct-10-04 1600 4)Apr-28-05	Soil-Beige
JSB-S06-101004	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-020			3)Oct-10-04 1500 4)Apr-28-05	Soil-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 52
Reg. Samples Analyzed: 52
Split Layers Analyzed: 0

Job Site / No.
0440.01CP

Report No. **049488**
Date Submitted: Apr-15-05
Date Reported: May-03-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
DPA-SA3-101104	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-021			3)Oct-11-04 1045 4)May-03-05	Soil-Brown
DPA-S01-101104	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-022			3)Oct-11-04 1055 4)May-03-05	Soil-Brown
DPA-SA1-101104	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-023			3)Oct-11-04 1028 4)May-03-05	Soil-Brown
DPA-CS01-101104	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-024			3)Oct-11-04 1135 4)May-03-05	Soil-Brown
DPA-SA2-101104	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-025			3)Oct-11-04 1035 4)Apr-28-05	Soil-Beige
DPA-S1A3-101104	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-026			3)Oct-11-04 1046 4)May-03-05	Soil-Brown
LAB-BL01-101104		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-027			3)Oct-15-04 4)Apr-28-05	Soil-Grey
LAB-BL07-101104		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-028			3)Oct-15-04 4)Apr-28-05	Soil-Grey
LAB-DUP01-101104	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-029			3)Oct-15-04 4)Apr-28-05	Soil-Brown
LAB-DUP02-101104	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-030			3)Oct-16-04 4)Apr-28-05	Soil-Brown

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC. **630 Bancroft Way, Berkeley CA 94710** **(510) 704-8930**
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 52
Reg. Samples Analyzed: 52
Split Layers Analyzed: 0

Job Site / No.
0440.01CP

Report No. **049488**
Date Submitted: Apr-15-05
Date Reported: May-03-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
LAB-BL03-101104		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-031			3)Oct-16-04 4)May-03-05	Soil-Grey
LAB-BL02-1011-4		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-032			3) Oct-16-04 4) May-03-05	Soil-Grey
LAB-BL08-101104		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-033			3) Oct-17-04 4)May-03-05	Soil-Grey
LAB-BL04-101104		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-034			3) Oct-17-04 4)Apr-28-05	Soil-Grey
LAB-DUP03-101104	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-035			3) Oct-17-04 4)Apr-28-05	Soil-Brown
LAB-DUP04-101104	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-036			3) Oct-17-04 4)May-03-05	Soil-Orange
LAB-BL09-101104		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-037			3) Oct-17-04 4)Apr-28-05	Soil-Grey
LAB-DUP07-101104	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-038			3) Oct-18-04 4)Apr-28-05	Soil-Brown
LAB-BL06-101104		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-039			3) Oct-18-04 4)May-03-05	Soil-Grey
LAB-BL11-101104		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-040			3) Oct-18-04 4)May-03-05	Soil-Grey

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC. **630 Bancroft Way, Berkeley CA 94710** **(510) 704-8930**
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 52
Reg. Samples Analyzed: 52
Split Layers Analyzed: 0

Job Site / No.
0440.01CP

Report No. **049488**
Date Submitted: Apr-15-05
Date Reported: May-03-05

SAMPLE ID	ASBESTOS %	ASBESTOS TYPE	OTHER DATA (1) Non-Asbestos Fibers (2) Matrix Materials (3) Date/Time Collected (4) Date Analyzed	DESCRIPTION FIELD / LAB
LAB-BL10-101104		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-041			3)Oct-18-04 4)May-03-05	Soil-Grey
LAB-DUP05-101104	<1%	Actinolite	1)None Detected 2)100-100% Opq, Calc, Qtz	Soil
Lab ID # 741-00026-042			3) Oct-18-04 4) Apr-28-05	Soil-Brown
LAB-DUP06-101104	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-043			3) Oct-19-04 4)May-03-05	Soil-Brown
LAB-DUP08-101104	<1%	Actinolite	1)None Detected 2)100-100% Opq, Calc, Qtz	Soil
Lab ID # 741-00026-044			3) Oct-19-04 4)May-03-05	Soil-Brown
LAB-BL05-101104		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-045			3) Oct-20-04 4)May-03-05	Soil-Grey
LAB-DUP10-101104	1-5%	Actinolite	1)None Detected 2)95-99% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-046			3) Oct-20-04 4)Apr-28-05	Soil-Brown
LAB-DUP09-101104	<1%	Actinolite	1)None Detected 2)100-100% Qtz, Calc, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-047			3) Oct-20-04 4)Apr-28-05	Soil-Brown
LAB-BL15-101104		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-048			3) Oct-21-04 4)May-03-05	Soil-Grey
LAB-BL12-101104		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-049			3) Oct-22-04 4)May-03-05	Soil-Grey
LAB-BL13-101104		None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-050			3) Oct-22-04 4)May-03-05	Soil-Grey

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC. **630 Bancroft Way, Berkeley CA 94710** **(510) 704-8930**
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

POLARIZED LIGHT MICROSCOPY
ANALYTICAL REPORT

Analyzed by NIOSH 9002 Method

Contact: Mr. Howard Edwards

Address: Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Samples Indicated: 52
Reg. Samples Analyzed: 52
Split Layers Analyzed: 0

Job Site / No.
0440.01CP

Report No. **049488**
Date Submitted: Apr-15-05
Date Reported: May-03-05

SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD / LAB
LAB-BL14-101104	None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-051		3)Oct-22-04 4) Apr-28-05	Soil-Grey
LAB-BL16-101104	None Detected	1)None Detected 2)99-100% Qtz, Fldsp, Other m.p.	Soil
Lab ID # 741-00026-052		3) Oct-23-04 4) Apr-28-05	Soil-Grey
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	
		1) 2)	
Lab ID #		3) 4)	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Lab QC Reviewer _____ **Analyst** _____

ASBESTOS TEM LABORATORIES, INC. **630 Bancroft Way, Berkeley CA 94710** **(510) 704-8930**
www.asbestostemlabs.com *With Offices in Reno, NV (775) 359-3377*

04042424

EDH Investigation SOIL

EPA Contract Work:
Ecology and Environment

CHAIN OF CUSTODY RECORD
Site #: 0440.01CP
Contact Name: Charles LaCerra
Contact Phone: (856) 858-4800

No: 0440.01CP-0021
Lab: EMSL Analytical
Lab_City: Westmont
Lab Phone: (856) 858-4800

Lab #	Sample #	Analyses Per SOW	Matrix	Date Collected	Sample Time	Numb Cont	Priority
	JSG-S02-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	17:20	1	BAG
	JSB-S05-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	10:36	1	BAG
	JSG-S09-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	17:47	1	BAG
	JSS-S01-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	16:00	1	BAG
	JSG-S01-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	17:15	1	BAG
	JSB-S07-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	14:35	1	BAG
	JSB-S01-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	12:53	1	BAG
	JSB-S101-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	16:10	1	BAG
	JSB-S02-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	14:00	1	BAG
	JSB-S03-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	10:15	1	BAG
	JSB-S04-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	11:00	1	BAG
	JSB-CS01-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	17:04	1	BAG
	JSS-S02-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	16:10	1	BAG
	JSS-S03-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	16:16	1	BAG
	JSS-S04-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	16:28	1	BAG
	JSS-S05-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	16:35	1	BAG
	JSS-S06-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	16:45	1	BAG
	JSS-S07-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	16:55	1	BAG
	JSS-CS01-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	16:00	1	BAG
	JSB-S06-101004	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/10/2004	15:00	1	BAG

Comments: Refer to C-O-C Attachment A

SAMPLES TRANSFERRED FROM:
CHAIN OF CUSTODY #: 0440.01CP-0015

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	12/7/04	[illegible]	12/8/04	1126	All/Return	[illegible]	3/1/05	[illegible]		
	[illegible]	4/14/05	C Wu ATEM	4/15/05	4:30pm						

04042424

EDH Investigation SOIL

EPA Contract Work:
Ecology and Environment

CHAIN OF CUSTODY RECORD
Site #: 0440.01CP
Contact Name: Charles LaCerra
Contact Phone: (856) 858-4800

No: 0440.01CP-0021
Lab: EMSL Analytical
Lab_City: Westmont
Lab Phone: (856) 858-4800

Lab #	Sample #	Analyses Re: SOW	Matrix	Date Collected	Sample Time	Numb Cont	Priority
	DPA-SA3-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/11/2004	10:45	1	BAG
	DPA-S01-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/11/2004	10:55	1	BAG
	DPA-SA1-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/11/2004	10:28	1	BAG
	DPA-CS01-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/11/2004	11:35	1	BAG
	DPA-SA2-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/11/2004	10:35	1	BAG
	DPA-S1A3-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/11/2004	10:46	1	BAG
	LAB-BL01-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/15/2004		1	BAG
	LAB-BL07-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/15/2004		1	BAG
	LAB-DUP01-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/15/2004		1	BAG
	LAB-DUP02-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/16/2004		1	BAG
	LAB-BL03-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/16/2004		1	BAG
	LAB-BL02-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/16/2004		1	BAG
	LAB-BL08-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/17/2004		1	BAG
	LAB-BL04-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/17/2004		1	BAG
	LAB-DUP03-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/17/2004		1	BAG
	LAB-DUP04-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/17/2004		1	BAG
	LAB-BL09-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/17/2004		1	BAG
	LAB-DUP07-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/18/2004		1	BAG
	LAB-BL06-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/18/2004		1	BAG
	LAB-BL11-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/18/2004		1	BAG

Comments: Refer to C-O-C Attachment A

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #
C440.01CP-0015

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	12-7-04	[illegible]	12/7/04	1126	All/Return	Charles LaCerra	3/11/05	[illegible]		
	[illegible]	4/14/05	CWu ATEM	4/15/05	4:30 pm						

0404.24104

EDH Investigation SOIL

EPA Contract Work:
Ecology and Environment

CHAIN OF CUSTODY RECORD
Site #: 0440.01CP
Contact Name: Charles LaCerra
Contact Phone: (856) 858-4800

No: 0440.01CP-0021
Lab: EMSL Analytical
Lab_City: Westmont
Lab Phone: (856) 858-4800

Lab #	Sample #	Analyses Per SOW	Matrix	Date Collected	Sample Time	Numb Cont	Priority
✓	LAB-BL10-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/18/2004		1	BAG
✓	LAB-DUP05-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/18/2004		1	BAG
✓	LAB-DUP06-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/19/2004		1	BAG
✓	LAB-DUP08-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/19/2004		1	BAG
✓	LAB-BL05-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/20/2004		1	BAG
✓	LAB-DUP10-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/20/2004		1	BAG
✓	LAB-DUP09-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/20/2004		1	BAG
✓	LAB-BL15-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/21/2004		1	BAG
✓	LAB-BL12-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/22/2004		1	BAG
✓	LAB-BL13-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/22/2004		1	BAG
✓	LAB-BL14-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/22/2004		1	BAG
✓	LAB-BL16-101104	NIOSH 9002 and/or EPA 600-R93-116	Soil	10/23/2004		1	BAG

Comments: Refer to COC attachment A

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #
0440.01CP-0015

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	12-7-04	[illegible]	12/7/04	1126	All/Return	[illegible]	3/14/05	[illegible]		
	[illegible]	4/6/05	C Wu ATEM	4/15/05	4:30 pm						

ASBESTOS TEM LABORATORIES, INC.
PLM BULK SAMPLE LOGIN REPORT

LOG#: 049488

INVOICE #:

ANALYSIS REQUESTED: **PLM-STANDARD** URGENCY: **3-5 DAYS**

DATE / **Apr-15-05**
TIME IN: **4:30 pm**

CLIENT NO: **741** LOT NO: **00026** Total Samples: **52**

DATE /
TIME DUE:

JOB SITE:

JOB NO: **0440.01CP** Logged by: **ry** CONTACT: **Mr. Howard Edwards**

SAMPLE CONDITIONS: **EXCELLENT** DELIVERED BY: **FedEx S**

SPECIAL INSTRUCTIONS

☒ **FAX** 415-981-0801 ☒ **E-MAIL** hedwards@ene.com
See marketing screen for more info!!!

Invoice To: LJohnson@ene.com

REVIEWED _____ **E-MAILED** _____

CL#-LOT-SAMP	CLIENT#	DESCRIPTION
741-00026-001	JSG-S02-101004	Soil
741-00026-002	JSB-S05-101004	Soil
741-00026-003	JSG-S09-101004	Soil
741-00026-004	JSS-S01-101004	Soil
741-00026-005	JSG-S01-101004	Soil
741-00026-006	JSB-S07-101004	Soil
741-00026-007	JSB-S01-101004	Soil
741-00026-008	JSB-S101-101004	Soil
741-00026-009	JSB-S02-101004	Soil
741-00026-010	JSB-S03-101004	Soil
741-00026-011	JSB-S04-101004	Soil
741-00026-012	JSB-CS01-101004	Soil
741-00026-013	JSS-S02-101004	Soil
741-00026-014	JSS-S03-101004	Soil
741-00026-015	JSS-S04-101004	Soil
741-00026-016	JSS-S05-101004	Soil
741-00026-017	JSS-S06-101004	Soil
741-00026-018	JSS-S07-101004	Soil
741-00026-019	JSS-CS01-101004	Soil
741-00026-020	JSB-S06-101004	Soil
741-00026-021	DPA-SA3-101104	Soil
741-00026-022	DPA-S01-101104	Soil
741-00026-023	DPA-SA1-101104	Soil
741-00026-024	DPA-CS01-101104	Soil
741-00026-025	DPA-SA2-101104	Soil

ASBESTOS TEM LABORATORIES, INC.
PLM BULK SAMPLE LOGIN REPORT

LOG#: 049488

INVOICE #:

ANALYSIS REQUESTED: **PLM-STANDARD** URGENCY: **3-5 DAYS**

DATE / **Apr-15-05**
TIME IN: **4:30 pm**

CLIENT NO: **741** LOT NO: **00026** Total Samples: **52**

DATE /
TIME DUE:

JOB SITE:

JOB NO: **0440.01CP** Logged by: **ry** CONTACT: **Mr. Howard Edwards**

SAMPLE CONDITIONS: **EXCELLENT** DELIVERED BY: **FedEx S**

SPECIAL INSTRUCTIONS

☒ **FAX** 415-981-0801 ☒ **E-MAIL** hedwards@ene.com
See marketing screen for more info!!!

Invoice To: LJohnson@ene.com

REVIEWED _____ **E-MAILED** _____

CL#-LOT-SAMP	CLIENT#	DESCRIPTION
741-00026-026	DPA-S1A3-101104	Soil
741-00026-027	LAB-BL01-101104	Soil
741-00026-028	LAB-BL07-101104	Soil
741-00026-029	LAB-DUP01-101104	Soil
741-00026-030	LAB-DUP02-101104	Soil
741-00026-031	LAB-BL03-101104	Soil
741-00026-032	LAB-BL02-1011-4	Soil
741-00026-033	LAB-BL08-101104	Soil
741-00026-034	LAB-BL04-101104	Soil
741-00026-035	LAB-DUP03-101104	Soil
741-00026-036	LAB-DUP04-101104	Soil
741-00026-037	LAB-BL09-101104	Soil
741-00026-038	LAB-DUP07-101104	Soil
741-00026-039	LAB-BL06-101104	Soil
741-00026-040	LAB-BL11-101104	Soil
741-00026-041	LAB-BL10-101104	Soil
741-00026-042	LAB-DUP05-101104	Soil
741-00026-043	LAB-DUP06-101104	Soil
741-00026-044	LAB-DUP08-101104	Soil
741-00026-045	LAB-BL05-101104	Soil
741-00026-046	LAB-DUP10-101104	Soil
741-00026-047	LAB-DUP09-101104	Soil
741-00026-048	LAB-BL15-101104	Soil
741-00026-049	LAB-BL12-101104	Soil
741-00026-050	LAB-BL13-101104	Soil

ASBESTOS TEM LABORATORIES, INC.
PLM BULK SAMPLE LOGIN REPORT

LOG#: 049488

INVOICE #:

ANALYSIS REQUESTED: **PLM-STANDARD** URGENCY: **3-5 DAYS**

DATE / **Apr-15-05**
TIME IN: **4:30 pm**

CLIENT NO: **741** LOT NO: **00026** Total Samples: **52**

DATE /
TIME DUE:

JOB SITE:

JOB NO: **0440.01CP** Logged by: **ry** CONTACT: **Mr. Howard Edwards**

SAMPLE CONDITIONS: **EXCELLENT** DELIVERED BY: **FedEx S**

SPECIAL INSTRUCTIONS

☒ **FAX** 415-981-0801 ☒ **E-MAIL** hedwards@ene.com
See marketing screen for more info!!!

Invoice To: LJohnson@ene.com

REVIEWED _____ **E-MAILED** _____

CL#-LOT-SAMP	CLIENT#	DESCRIPTION
741-00026-051	LAB-BL14-101104	Soil
741-00026-052	LAB-BL16-101104	Soil

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00026-001 JSG-S02-101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 /1720 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-002 JSB-S05-101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 / Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-003 JSG-S09101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 / 1747 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-004 JSS-S01-101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 /1600 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-005 JSG-S01-101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 / 1715 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00026-006 JSB-S07-101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 /1435 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-007 JSB-S01-101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 /1253 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-008 JSB-S101-101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 /1610 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-009 JSB-S02-101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 /1400 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

-009Q [signature] 6/13/05

741-00026-009Q JSB-S02-101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 /1400 Anal Date: May-03-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00026-010 JSB-S03-101004 Description: Soil T=21C
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 /1015 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-011 JSB-S04-101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 /1100 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-012 JSB-CS01-101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 /1704 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-013 JSS-S02-101004 Description: Soil T=21C
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 /1610 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-014 JSS-S03-101004 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 /1616 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00026-014Q JSS-S03-101004 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Other m.p.
Notes Collection Date/Time: / Anal Date: Apr-28-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-015 JSS-S04-101004 Description: Soil T=21C
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 / 1628 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-016 JSS-S05-101004 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 / 1635 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-017 JSS-S06-101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 /1645 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-018 JSS-S07-101004 Description: Soil T=21C
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 / 1655 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00026-019 JSS-CS01-101004 Description: Soil T=21C
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-10-04 /1600 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-020 JSB-S06-101004 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Fib.Op.Prop. Same as in Previous Sp. Collection Date/Time: Oct-10-04 / 1500 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-021 DPA-SA3-101104 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-11-04 / 1045 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-021Q DPA-SA3-101104 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-11-04 /1045 Anal Date: May-03-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-022 DPA-S01-101104 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-11-04 / 1055 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00026-023 DPA-SA1-101104 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-11-04 /1028 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-024 DPA-CS01-101104 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-11-04 /1135 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-025 DPA-SA2-101104 Description: Soil T=21C
Color: Beige Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-11-04 /1035 Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-026 DPA-S1A3-101104 Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-11-04 /1046 Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-026Q DPA-S1A3-101104 Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Other m.p.
Notes Collection Date/Time: / Anal Date: May-03-05 Analyst: MB
Sample Prep Method(s): QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00026-027 LAB-BL01-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-15-04 / Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-028 LAB-BL07-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-15-04 / Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-029 LAB-DUP01-1011(Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-15-04 / Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-030 LAB-DUP02-1011(Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-16-04 / Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-030Q LAB-DUP02-1011(Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Other m.p.
Notes Collection Date/Time: / Anal Date: Apr-28-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00026-031 LAB-BL03-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-16-04 / Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-032 LAB-BL02-1011-4 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-16-04 / Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-033 LAB-BL08-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-17-04 / Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-034 LAB-BL04-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-17-04 / Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-035 LAB-DUP03-1011(Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-17-04 / Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00026-035Q LAB-DUP03-1011(Description: Soil
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Other m.p.
Notes Collection Date/Time: / Anal Date: Apr-28-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 4-28-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-036 LAB-DUP04-1011(Description: Soil T=21C
Color: Orange Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-17-04 / Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-037 LAB-BL09-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-17-04 / Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-037Q LAB-BL09-101104 Description: Soil
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Other m.p.
Notes Collection Date/Time: / Anal Date: Apr-28-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-038 LAB-DUP07-1011(Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-18-04 / Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00026-039 LAB-BL06-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-18-04 / Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-040 LAB-BL11-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-18-04 / Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-041 LAB-BL10-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-18-04 / Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-042 LAB-DUP05-1011(Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Opq, Calc, Qtz
Notes Collection Date/Time: Oct-18-04 / Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-043 LAB-DUP06-1011(Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-19-04 / Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00026-043Q LAB-DUP06-1011(Description: Soil
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Other m.p.
Notes Collection Date/Time: / Anal Date: Apr-28-05 Analyst: MB
Sample Prep Method(s): QC Date: 4-28-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00026-044 LAB-DUP08-1011(Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Opq, Calc, Qtz
Notes Collection Date/Time: Oct-19-04 / Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

741-00026-045 LAB-BL05-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-20-04 / Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-046 LAB-DUP10-1011(Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% 1-5% Other fibers% None Detected Non-fibrous% 95-99% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-20-04 / Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	1	5	Actinolite

741-00026-047 LAB-DUP09-1011(Description: Soil T=21C
Color: Brown Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Qtz, Calc, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-20-04 / Anal Date: Apr-28-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00026-048 LAB-BL15-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-21-04 / Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-049 LAB-BL12-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-22-04 / Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-049Q LAB-BL12-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-22-04 / Anal Date: May-03-05 Analyst: MB
Sample Prep Method(s): Ground QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-050 LAB-BL13-101104 Description: Soil T=21C
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% ND Other fibers% None Detected Non-fibrous% 99-100% Qtz, Fldsp, Other m.p.
Notes Collection Date/Time: Oct-22-04 / Anal Date: May-03-05 Analyst: SF
Sample Prep Method(s): Ground QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-050Q LAB-BL13-101104 Description: Soil
Color: Grey Homogenity: Good Friability: Friable Texture: Powdery MacroAsb%
Total Asbestos% <1% Other fibers% None Detected Non-fibrous% 100-100% Other m.p.
Notes Collection Date/Time: / Anal Date: Apr-28-05 Analyst: MB
Sample Prep Method(s): QC Date: 5-03-05

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite
DS	Needles	Green	Grn/DrkG	1.672	1.652	M	+	12	0	<1	Actinolite

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.
POLARIZED LIGHT MICROSCOPY DATA SHEET

741-00026-051 LAB-BL14-101104 Description: **Soil** **T=21C**

Color: **Grey** Homogenity: **Good** Friability: **Friable** Texture: **Powdery** MacroAsb%

Total Asbestos% **ND** Other fibers% **None Detected** Non-fibrous% **99-100% Qtz, Fldsp, Other m.p.**

Notes Collection Date/Time: **Oct-22-04** / Anal Date: **Apr-28-05** Analyst: **SF**

Sample Prep Method(s): **Ground** QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

741-00026-052 LAB-BL16-101104 Description: **Soil** **T=21C**

Color: **Grey** Homogenity: **Good** Friability: **Friable** Texture: **Powdery** MacroAsb%

Total Asbestos% **ND** Other fibers% **None Detected** Non-fibrous% **99-100% Qtz, Fldsp, Other m.p.**

Notes Collection Date/Time: **Oct-23-04** / Anal Date: **Apr-28-05** Analyst: **SF**

Sample Prep Method(s): **Ground** QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type

Description:

Color: Homogenity: Friability: Texture: MacroAsb%

Total Asbestos% Other fibers% Non-fibrous%

Notes Collection Date/Time: / Anal Date: Analyst:

Sample Prep Method(s): QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
											Talc
											Talc
											Cellulose
											Talc
											Cellulose

Description:

Color: Homogenity: Friability: Texture: MacroAsb%

Total Asbestos% Other fibers% Non-fibrous%

Notes Collection Date/Time: / Anal Date: Analyst:

Sample Prep Method(s): QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
											Talc
											Talc
											Cellulose
											Talc
											Cellulose

Description:

Color: Homogenity: Friability: Texture: MacroAsb%

Total Asbestos% Other fibers% Non-fibrous%

Notes Collection Date/Time: / Anal Date: Analyst:

Sample Prep Method(s): QC Date:

Method	Morphology	Color	Pleoch	RI Par	RI Prp	Biref	Sign	ExtAn	%	%	Fibers Type
											Talc
											Talc
											Cellulose
											Talc
											Cellulose

Date: May/21/2005

ASBESTOS TEM LABORATORIES, INC.

NIOSH 9002 Method
Polarized Light Microscopy

Final Report

Laboratory Job #: 741-00021

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Berkeley, CA 94710
(510) 528-0108 Phone
(510) 528-0109 Fax
www.asbestostemlabs.com

ASBESTOS TEM LABORATORIES, INC.

Accredited by
U.S. Dept. of Commerce
NVLAP
CA DOHS ELAP

Mar-09-05

Mr. Howard Edwards
Ecology and Environment, Inc.
350 Sansome Street, Suite 300
San Francisco, CA 94104

Re: LABORATORY JOB # 741-00021
2 Polarized light microscopy analytical results for bulk sample(s).
Job Site: El Dorado Hills

Enclosed please find the bulk material analytical results for two samples submitted for asbestos analysis. The analyses were Performed in accordance with NIOSH 9002 for the determination of asbestos content of bulk materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on bulk samples, it needs to be aware that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood and analyzed following the NIOSH 9002 method. The analytical data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

Sincerely Yours,

Yanxia Xie
Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

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ASBESTOS TEM LABORATORIES, INC.

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U.S. Dept. of Commerce
NVLAP
CA DOHS ELAP

Polarized Light Microscopy
Analytical Report

Client Sample ID	Lab Sample ID	Description	Analysis Method	% Chrysotile Asbestos	% amphibole asbestos	% Fiberous non-asbestos	% non-fiberous non-asbestos	Detection Limit	Analyst Initials	Analysis Date	QC	
											Analyst Initials	Date
EDH-ZP2-022305	741-00021-001	Soil - Brown	NIOSH 9002	1-5% (3%)	1-5% (2%) Tremolite	<1%	90-98% (95%)	1%	SK	03/04/2005	DV	03/04/2004
EDH-ZP2-022305	741-00021-002	Soil - Brown	NIOSH 9002	5-10% (8%)	5-10% (6%) Tremolite	0	80-90% (86%)	1%	SK	03/04/2005	DV	03/04/2005

Lab QC Reviewer: _____

Analyst: _____

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ASBESTOS TEM LABORATORIES, INC.
PLM BULK SAMPLE LOGIN REPORT

LOG#: 048659

INVOICE #: 70032

ANALYSIS REQUESTED: **PLM-STANDARD** URGENCY: **6-10 DAYS**

DATE / **Feb-24-05**
TIME IN: **10:15 am**

CLIENT NO: **741** LOT NO: **00021** Total Samples: **2**

DATE / **Mar-10-05**
TIME DUE:

JOB SITE: **El Dorado Hills**

JOB NO: Logged by: **ry** CONTACT: **Mr. Howard Edwards**

SAMPLE CONDITIONS: **EXCELLENT** DELIVERED BY: **FedEx S**

SPECIAL INSTRUCTIONS

☒ **FAX** 415-981-0801 ~~☒ E-MAIL~~ ~~hedwards@ene.com~~ See marketing screen for more info!!! Invoice To: ~~LJohnson@ene.com~~

REVIEWED YX E-MAILED Mailed

CL#-LOT-SAMP	CLIENT#	DESCRIPTION
741-00021-001	EDH-ZP2-022305	
741-00021-002	EDH-ZP3-022305	

POLARIZED LIGHT MICROSCOPY: DATA SHEET

ASBESTOS TEM LABORATORIES

MACROSCOPIC PROPERTIES:

Homogeneity: Low ☐ Mod. ☑ High ☐

Friable: ☑ Non-friable: ☐

Lab I.D. #: 741-21-1

Job Site: EL DORADO HILL

Client I.D. #: EDH-ZP2-022305

Location:

Texture: Powdery

Description:

Color: BEIGE

Macroscopic est. of % asbestos: 5-10%

Optical Properties Of Fibrous Constituents:

Morphology	Color	Pleochroism	Ref. Index Perp./Parall.	Birefr.	Ext. Angle	Sign of Elong.	Other Properties	%	Non-Asbestos	%	Asbestos
Wavy fibers and bundles with splayed ends. A.Ratio >10:1	clear	None	γ=1.554 α=1.548	L	P	+	Dis. Stain. Color γ=Blue α=Red-purple			1-5 (3)	Chrysotile
Straight blades and needles	clear	None	γ=1.627 α=1.619	H	I 0-10	+	D.S.C γ=Blue/Orange α=Yellow			1-5 (2)	Tremolite

Non-fibrous material I.D.: Quartz, Opaque, Other m.p.

5-10	% ASBESTOS
	% NON-ASBESTOS, FIBROUS
90-95	% NON-FIBROUS

Comments:

Signature: [signature]

Date: 03/04/05

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POLARIZED LIGHT MICROSCOPY: DATA SHEET

ASBESTOS TEM LABORATORIES

Lab I.D. #: 741-21-2 Job Site: El DORADO HILLS

Client I.D. #: EDH-ZP3-022305 Location:

Description: Color: Beige

MACROSCOPIC PROPERTIES:

Homogeneity: Low ☐ Mod. ☑ High ☐

Friable: ☑ Non-friable: ☐

Texture: Powdery

Macroscopic est. of % asbestos: 10-20%

Optical Properties Of Fibrous Constituents:

Morphology	Color	Pleochroism	Ref. Index Perp./Parall.	Birefr.	Ext. Angle	Sign of Elong.	Other Properties	%	Non-Asbestos	%	Asbestos
Wavy fibers and bundles	Clear	None	γ=1.554 α=1.548	L	P	+	D.S.C γ=blue α=red purple			5-10 (8)	Chrysotile
Straight fibers and needles	Clear	None	γ=1.627 α=1.619	H	I to	+	D.S.C γ=Blue, Orange α=Yellow			5-10 (6)	Tremolite

Non-fibrous material I.D.: Quartz, opaque, Other m.p.

Comments:

10-20	% ASBESTOS
	% NON-ASBESTOS, FIBROUS
80-90	% NON-FIBROUS

Signature: [signature]

Date: 03/04/05

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POLARIZED LIGHT MICROSCOPY: DATA SHEET

ASBESTOS TEM LABORATORIES

MACROSCOPIC PROPERTIES:

Homogeneity: Low ☐ Mod. ☑ High ☐

Friable: ☑ Non-friable: ☐

Lab I.D. #: 741-21-1

Job Site: El Dorado Hills

Client I.D. #: EDH-ZP2-OLL305

Location:

Texture: Powdery - Grainy

Description: composite material

Color: Beige

Macroscopic est. of % asbestos:

Optical Properties Of Fibrous Constituents:

Morphology	Color	Pleochroism	Ref. Index Perp./Parall.	Birefr.	Ext. Angle	Sign of Elong.	Other Properties	%	Non-Asbestos	%	Asbestos
wavy fibers	colorless	None	n∥γ: 1.554 n⊥α: 1.549	Mod	//	+				1-5% 3%	chrysotile
needles straight thin fibers	pink to colorless	None	n∥γ: 1.637 n⊥α: 1.618	M	oblique 1-10%	+				1-5% 2%	Tremolite

Non-fibrous material I.D.: Qtz, Misc frags, Amph, Opq

2-10%	% ASBESTOS
	% NON-ASBESTOS, FIBROUS
90-98%	% NON-FIBROUS

Comments:

Signature: Diego J Vasquez C

Date: 3-04-05

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POLARIZED LIGHT MICROSCOPY: DATA SHEET

ASBESTOS TEM LABORATORIES

MACROSCOPIC PROPERTIES:

Homogeneity: Low ☐ Mod. ☑ High ☐

Friable: ☑ Non-friable: ☐

Texture: grainy - powd

Lab I.D. #: 741-21-2

Job Site: El Dorado Hills

Client I.D. #: EDH-EP2-022305

Location:

Description: composite

Color: Beige

Macroscopic est. of % asbestos:

Optical Properties Of Fibrous Constituents:

Morphology	Color	Pleochroism	Ref. Index Perp./Parall.	Birefr.	Ext. Angle	Sign of Elong.	Other Properties	%	Non-Asbestos	%	Asbestos
wavy fibers bundles	colorless	None	n∥: 1.554 n⊥: 1.549	M	∥	+				5-10 8%	chrysotile
needles straight thin fibers	colorless	None	n∥: 1.627 n⊥: 1.618	M	oblique 0-11°	+				5-10% 8%	Tremolite

Non-fibrous material I.D.: Misc. frags, Qtz, Cpx, Amph

Comments:

10-20%	% ASBESTOS
	% NON-ASBESTOS, FIBROUS
80-90%	% NON-FIBROUS

Signature: Diego Vásquez C

Date: 3-4-05

h:\excel\datashts\pimdata.xls

ASBESTOS TEM LABORATORIES, INC.

1409 Fifth Street, Suite C
Berkeley, California 94710
(510) 528-0108 Phone
(510) 528-0109 Fax

Attachments

1. Client COC form
2. Laboratory Sample Login Sheet
3. Analyst Raw Data Sheets
4. QC Analyst Raw Data Sheets

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 9
75 Hawthorne Street
San Francisco, California 94105

CHAIN OF CUSTODY RECORD

PROJ. NO.

PROJECT NAME: El Dorado Hills

SAMPLERS: (Signature) Howard Edwards

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Asbestos by PLM	Asbestos by TEM					REMARKS
	02/23/05	1345		✓	EDH-ZP2-022305	1	✓	✓					Analysis performed per Scope of work
	02/23/05	1400		✓	EDH-ZP3-022305	1	✓	✓					

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Howard J Edwards	2/23/05 1421				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	2/24/05 10:15AM	ATEM/[illegible]			
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

9 28915

ecology and environment, inc.
350 SANSOME STREET, SUITE 300, SAN FRANCISCO, CALIFORNIA 94104, TEL. (415) 981-2811
International Specialists in the Environment

SCOPE OF WORK
Region IX START

El Dorado Hills Naturally Occurring Asbestos Project

Performance Evaluation Soil Analysis by PLM and TEM

PAN: 001275.0440.01TA
TDD Number: 09-04-0-0011

1.0 GENERAL

Ecology and Environment, Inc., (E & E), with a business office located at 350 Sansome Street, Suite 300, San Francisco, California 94104, has entered into a contract (Contract No. 68-W-01-012) with the U.S. Environmental Protection Agency (US EPA) to procure as needed various analytical services.

The US EPA has directed E & E to analyze two soil performance evaluation (PE) samples. The performance evaluation samples were developed by a contractor for the US EPA Region 9 Quality Assurance Office.

2.0 ANALYTICAL REQUIREMENT

2.1 PURPOSE OF ANALYSIS

E & E will submit the (PE) samples for analysis . The specific analysis parameters required are indicated in sections 2.2, 2.3, 2.4, 3.0 and 4.0. The data will be used by the US EPA as part of a PE study of asbestos in soil.

2.2 SPECIFIC PROJECT REQUIREMENTS

All laboratory services will be provided by the E & E contracted laboratory with no sub-contracting of analyses allowed. Air samples will be initially analyzed for asbestos fibers following NIOSH 9002, *Asbestos by Polarized Light Microscopy.* If asbestos is not detected

sample at a concentration of greater or equal to 1 percent by area following NIOSH 9002, then the sample will be further analyzed by Transmission Electron Microscopy following *EPA 600/R-93/116, Method for the Determination of Asbestos in Bulk Building Materials Method.*

Specific project requirements and specifications for the method are listed in Table 2-1, Table 2-2 and Table 2-3. Other required specification are described in sections 3 through 5 of this SOW.

To insure quality for the analytical project the following measures are required:

- All analyses will be conducted by a NVLAP-certified laboratory for the analysis of asbestos fibers.
- The laboratory must provide documentation of successful proficiency in detection of "Libby amphibole" asbestos.
- The laboratory must conduct zone axis patterns measurement and quantitative EDS chemistries for identification.
- The laboratory will have previous experience in the determination of chrysotile, regulated amphibole asbestos fibers in soil by the specified NIOSH and EPA methodologies.
- The laboratory will have previous experience in the determination and reporting of non-regulated amphibole by PLM and TEM.
- The laboratory will have previous experience with providing detailed analytical documentation of analysis to support US EPA projects.
- Analytical precision will be documented with duplicate and replicate analyses.
- The laboratory must willing and able to provide technical assistance to START project management regarding analysis prior to and after generation of data.

2.3 TURNAROUND TIME

Sample data turnaround for PLM and TEM data is10 days from sample receipt. The report turnaround requirements for samples are specified in Table 2-2. Turnaround times for Data packages is also specified in Table 2-2.

2.4 ANALYTICAL PROTOCOL REQUIRED

Samples for PLM analysis are to be analyzed, documented, and reported as specified in the NIOSH 9002 and this SOW. Samples for TEM analysis are to be analyzed, documented, and reported as specified in the *EPA 600/R-93/116* method and this SOW. Any modifications to these protocols should be specified and approved prior to acceptance of project. Protocol, procedures and parameters not discussed in the method or specified in this SOW should be addressed in the laboratory Standard Operating Procedure (SOP) for PLM analysis NIOSH 9002 and by TEM analysis by *EPA 600/R-93/116.*

Table 2-1 Summary of Samples to be Collected		
Method:	NIOSH 9002, *Asbestos by Polarized Light Microscopy*	*EPA 600/R-93/116, Method for the Determination of Asbestos in Bulk Building Materials Method.*
Sample Container:	Prepared sample mass ranging from 5 to 10 grams.	
	Number of Samples	**Number of Samples**
	2 PE Samples	2 PE Samples

Table 2-2 Analytical Requirements for El Dorado Hills Naturally Occurring Asbestos		
Each samples will be dried, milled, sieved and packaged in a seal bag with custody documentation. **Sample collection dates: October 2004** **Sample delivery date: February 2005**		
Method	**Specification**	**Turnaround Times**
NIOSH 9002, *Asbestos by Polarized Light Microscopy*	-Detection Limit: 1 % -Screening level: 1 %	**Final Data Report:** **Samples**: Within 10 working days of receipt. **Data Package:** **All Samples:** Within 10 working days of final report.
EPA 600/R-93/116, Method for the Determination of Asbestos in Bulk Building Materials Method.	-Preparation and analysis of samples that have PLM concentration less than 1%. -Detection Limit: 0.0025% by weight -Aspect Ratio: All asbestos structures with an aspect ratio greater than or equal to 3:1 will be counted irrespective of length. -Identification of fibers.	**Final Data Report:** **Samples:** Within 10 working days of receipt. **Data Package:** **All Samples:** Within 10 working days of final report.

Table 2-3 For TEM Analysis only Analytical Requirements per Each Sample for El Dorado Hills Naturally Occurring Asbestos
Mineral Identification of Representative Structures - Identification of asbestiforms shall include the following: Regulated - tremolite, anthophyllite, actinolite, crocidolite, amosite and chrysotile Other amphibole asbestiforms - winchite, richterite, ferro-edenite , magnesio-arfvedsonite, and magnesio-reibeckite Non-Asbestos Material- all other mineralogy
Structure Classification for Each Structure
Dimensions for Each Structure
Counting ***(All structures with aspect ratio of greater than or equal to 3:1)*** Counted structure shall include the following: Regulated - tremolite, anthophyllite, actinolite, crocidolite, amosite and chrysotile Other amphibole asbestiforms - winchite, richterite, ferro-edenite , magnesio-arfvedsonite, and magnesio-reibeckite Primary Structure Counts (Irrespective of Length). Structures with Lengths Greater than 5 μm. Fibers and Bundles with Lengths Greater than 5 μm.
Calculations Counted structure shall include the following: Regulated - tremolite, anthophyllite, actinolite, crocidolite, amosite and chrysotile Other amphibole asbestiforms - winchite, richterite, ferro-edenite , magnesio-arfvedsonite, and magnesio-reibeckite Asbestos Structures Per Square Millimeter 95 % Confidence Interval for Each Reported Concentration
Parameters Analytical Sensitivity Grids Opened Area of Filter Analyzed Total Filter Area

3.0 QUALITY ASSURANCE/QUALITY CONTROL REQUIREMENTS

Method-specific quality assurance/quality control (QA/QC) requirements specified in the PLM and TEM methods are to be followed with the following specifications.

The following replicate and duplicate analyses are required for all samples analyzed by TEM:

Replicate Analysis:	New grids counted by same analyst:	% 5
Replicate Analysis:	New preparation by same analyst:	% 5
Duplicate Analysis:	Same grids recounted by different analyst:	% 5
Duplicate Analysis:	New grid counted by different analyst:	% 5
Duplicate Analysis:	New preparation by different analyst:	% 5

Other QA/QC requirements should include analysis of a laboratory control standard, process blanks and filter blank with each group of samples. A determination of a blind internal laboratory control sample by the analyst during the analysis phase of this project is recommended. However, if this is not practical, documentation of the primary analyst performance results from the most recent quarterly inter-laboratory performance verification may be substituted in lieu of a laboratory control sample. The quality assurance limits used to evaluate the QA/QC samples must be indicated with quality assurance data reporting.

The laboratory is expected to adhere to standard laboratory practices when analyzing samples and documenting results. Questions concerning specific sample analyses should be addressed prior to analysis of samples. If the laboratory has any questions or problems concerning the analysis of received samples, E & E should be notified immediately by phone, followed by a letter in hard copy that discusses the problem(s) and associated resolution(s). All correspondence between the laboratory and E & E should be documented in the data package. **If established QC limits are exceeded, appropriate actions must be taken to correct or address the problem. Re-analysis of the affected samples is required for all non-matrix related problems.**

4.0 DELIVERABLES REQUIREMENTS

Samples analyzed by the laboratory for this project will require the following deliverables:

- Final data report
- Complete data package

4.1 FINAL DATA REPORT

The final data report may be reported either in a summary table or on individual sample sheets. Reports must be signed and should either be hard copies sent by mail or image files sent by e-mail or mail. The data should be clearly identified as being final. All QC summary information must be included.

The following data is required in the final report for PLM analyses:

Narrative on conditions of sample, method, counting rule, and summary of any quality assurance or quality control problems encountered during analysis.

For each PLM sample and all PLM QC samples include client sample name, laboratory identification number, appearance, % fiberous non-asbestos, % non-fiberous non-asbestos, % chrysotile asbestos, % amphibole asbestos, analytical sensitivity, analyst, and analysis date.

The following data is required in the final report for TEM analyses:

For each TEM sample and all TEM QC samples, include client sample name, laboratory identification number, analytical sensitivity, grids opened, filter area, area analyzed, analyst, and analysis date.

For each regulated asbestiform include the following: primary structures in weight percent, primary structures > than 5 μm in length in weight percent, asbestos fiber and bundles > 5 μm in length in weight percent, 95 % confidence interval.

For each other amphibole asbestiforms include the following: primary structures in weight percent, primary structures > than 5 μm in length in weight percent, asbestos fiber and bundles > 5 μm in length in weight percent, 95 % confidence interval.

For each sample and all QC samples, include the TEM Asbestos Fiber Count-Raw data information table. This table should include for each grid, the grid number, grid coordinates, primary and total structures, lengths, width, structure type, and asbestos type.

4.2 COMPLETE PROJECT DATA PACKAGE

The final data package may be reported either as a compilation of printed data or as a compact disk-read only memory (CD-ROM) with image files that are a facsimile of the printed data package. The image file should be in portable document format (pdf).

The data package shall include all copies of the original documentation generated in support of a method performed under the contracted Statement of Work. The data packages will be used to demonstrate and document that all requirements of the method have been met. The data packages will be used to support US EPA decisions and cost recovery efforts. Data and data packages may be used to support US EPA civil enforcement activities. The documentation includes, but is not limited to, sample tags, custody records, shipping information, standard preparation records, sample preparation/extraction records, and sample analysis record including printouts and copies of log pages or copies of log sheets. The laboratory must maintain all original information and documentation required in the data package for five years. All related method records in permanently bound notebooks and all related computer files must also be maintained for five years. Otherwise, the laboratory must provide original documents and files in the data package rather than copies.

The following deliverables are required in the data package. The following data requirements are included to specify and emphasize general documentation requirements and are not intended to supercede or change the requirements of each method.

- Raw data (to support all summary data) should include the following:
  1. Copies of all analysis preparation sheets.
  2. Copies of all analyst count sheets.
  3 Copies of all information necessary to calculate data reported in the final data report.

- Pages within the final data report and data validation package will be numbered sequentially.

- A copy of the laboratory's certification for TEM analysis must be included with data validation package.

5.0 ADDITIONAL REQUIREMENTS

All samples and prepared materials related to the samples must be held for six months. Prior to disposal of any sample, E & E must be notified and may require that the samples be returned to E & E, at E & E cost.

Disposal of samples and sample containers must be in compliance with local, state, and federal regulations and will be the responsibility of the laboratory. **Disposal cost must be included in the price of analysis.**

The data package will be independently validated within two months of package receipt. The laboratory will likely be contacted during the validation process to clarify any discrepancies or problems. The laboratory will perform corrective action as required. **All post sampling costs related to validation and corrective actions must be included in the price of analysis.**

All hard and electronic data generated in relation to E & E projects must be archived for five years.

Audits may be performed by E & E or the US EPA Quality Assurance Office. Performance Evaluation samples may be submitted to the laboratory at any time.

All work must be performed by the contract specified laboratories.

Howard Edwards
Ecology and Environment, Inc.
350 Sansome, Suite 300
San Francisco, CA 94104
(415) 981-2811
(415) 981-0801 FAX
Hedwards@ene.com

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

FACSIMILE

Mark Bailey
Laboratory Director
Asbestos TEM Laboratory
Berkeley, California

Dear Mr. Bailey:

I am writing to provide formal notification of results of two recent asbestos containing performance evaluation (PE) samples analyzed by PLM and TEM by Asbestos TEM Laboratory, and reported on March 9, 2005. The PE samples contained Chrysotile, and Tremolite in soil at approximately 0.5% in one PE and approximately 2% in the second PE.

Asbestos TEM performed well on the analyses. The fibers were correctly identified. There is some consistent overestimation, however, the results are considered to be within an acceptable range.

Please contact me 415-972-3802 if you have any questions.

Sincerely,

Stephen E. Remaley
Chemist/Regional Contract Lab Program Project Officer
415-972-3802

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL # of pages ▶

To Lisa Johnson	From Remaley
Dept./Agency EPA	Phone # 415-972-3802
Fax #	Fax #

NSN 7540-01-317-7368 5099-101 GENERAL SERVICES ADMINISTRATION

Preparation of Soil Samples Quantitatively Mixed with Tremolite and Chrysotile Asbestos

Equipment and Materials

- NIST SRM Tremolite Asbestos
- NIST SRM Chrysotile Asbestos
- Local soil from Chatham County, NC
- Multi-speed blender
- Stirring utensils
- Metal drying pans
- Ultraviolet drying lamps
- Hot plate

Two batches of asbestos in soil were created; one batch contained 0.5% each of chrysotile and tremolite, and the other contained 2% each of chrysotile and tremolite. A total of one hundred grams was the target weight for each of the two sample batches. For the sample concentration of 0.5%, 99 grams of dried soil was weighed, and 0.5 grams of each asbestos SRM was weighed for mixing. In the case of the 2.0% concentration sample, 96.0 grams of dried soil was used and 2.0 grams each of the two asbestos types were weighed for mixing.

Once all components were weighed, 8 oz. of distilled water was poured into the blender jar and the two asbestos types were mixed on the highest setting for 30 seconds, the soil was then added and the components were blended together for another 45 seconds for the 0.5% concentration and another 60 seconds of blending for the 2.0% sample. Each of these wet mixtures was then poured into a drying pan and labeled as to their asbestos concentration and dried under heat lamps and on hot plates until completely dry.

The materials were then packaged into plastic vials and labeled according to their concentration. Aliquots from each vial were used to make quantitation slides for visual estimates and for point count slides. The results of quantitation are shown below.

Quantitation of Asbestos/Soil Mixtures		
Concentration	Visual Estimate Result	Point Count Result
0.5% Chrysotile + 0.5% Tremolite	0.47% Chrysotile 0.59% Tremolite	1.4% Chrysotile 1.2% Tremolite
2% Chrysotile + 2% Tremolite	1.85% Chrysotile 2.92% Tremolite	4.7% Chrysotile 3.9% Tremolite

Thickness differences between the soil matrix particles and the asbestos bundles are speculated to have caused the biased high results on the point counts.

Production date: October 6, 2004
Produced for: Steve Remaly, Region 9 USEPA, telephone 415-972-3802, email Remaley.Steve@epamail.epa.gov
Produced by: Owen Crankshaw, RTI International, P.O. Box 12194, Research Triangle Park, NC, 27709, telephone 919-541-7470, email osc@rti.org

Johnson, Lisa

From: Mark Bailey [MBailey@AsbestosTEMLabs.com]
Sent: Tuesday, June 07, 2005 4:22 PM
To: Johnson, Lisa
Subject: Asbestos TEM Labs - Additional Data for El Dorado QC
Attachments: E&E El Dorado Data.pdf

Hi Lisa,

Here is the additional data you requested including microscope check log, RI index oil log & analyst notes.

Thanks,

Mark Bailey, RG
President
Asbestos TEM Laboratories, Inc.

741-23 ...

point counts: sample 004

2 preps: 13/107 pts.

Try again - skip extra fines: 8/104

again: 6/107 → 2/100, 4/105

in 1.605 oil — both indices higher

using 1.640 & 1.680 oils — actin. ~1.652, 1.672

(#18 - indices seem close to 1.645, 1.66)

(#25 - both << 1.68 in 1.64 oil: very close. blue disp. color. sg ~ 1.638 another ‖ is >1.64)

003: 2/102 pts

002: 3/100

001 brn ~1% ←

002 ~3%? } - check

003 ~2% }

004 revising downward to ~3%

5 <1% actin. needles? (check: 1/97, 0/73)

6 <1%

7 (2/74) ... ←

8 <1%

9 <1% ← MB ≤1%

10 ~1-2% ? (3/113)

11 brn 1-3% est.

12 1-2%

13 2-3% ? (4/136) ✓

14 brn ~1% ← ←

15 lots of cell, & lg grn., <1% ✓

16 <1%

17 trace

18 – traces

19 – brn <1% MB ✓ <1

20 " "

21 " perhaps 2%

22 beige <1% MB ✓ <1

23 brn ~2-3% MB 2% ✓

24 " <1%

25 ~1%? (check: 1/107) MB <1%

26 brn <1%

27 brn ~1-2% MB ✓ 1-2%

28 beige <1%

29 brn <1%

30 beige <1%

31 brn <1%

32 – ~~~1%?~~ ~2% (2/104 pts) MB ~2%

33 brn ~3%? (3/118 pts)

34 red-brn 1-2%

35 " " <1%

36 brn ~2-4%

37 " ~1-2% MB ✓ 1-2%

38 " ~2-4%

39 brn ~1-2%

40 " " MB 1-2% ✓

41 " ~1-2% (3/117 pts) MB <1%

42 " <1%

43 " ~1%

44 " ~2% MB 1-2% ✓

45 " <1% (<<1%)

46	beige or orng brn	<1 oz	
47	dk brn	~1-2 oz	
48	brn	<1 oz	
49	"	<1 oz	MB <1 oz ✓
50	"	<1 oz	
51	"	~2 (-3) oz, w/ Hb!	
52	"	~2 oz	
53	"	<1 oz	
54	"	<1 oz	
55	beige	<1 oz	
56	"	<1 oz	MB <1 oz ✓
57	brn	~1 oz (≥1)	
58	orng-brn	<1 oz	

741-23 ...

point counts: sample 004

2 preps: 13/107 pts -

Try again - ship extra fines: 8/104

again: 6/107 → 2/100, 4/105

in 1.605 oil — both indices higher

using 1.640 & 1.680 oils — action. ~1.652, 1.672

(#18 - indices seem close to 1.645, 1.66)

(#25 - both << 1.68 in 1.64 oil: ↑ ↓ ↔ very close. blue disp. color. sg ~ 1.638 Another ‖ is (>1.64))

003: 2/102 pts

002: 3/100

---

001 brn ~1% ←

002 ~3%? } - check

003 ~2% }

004 ruining downward to ~3%

5 <1% action needles? (check: 1/97, 0/73)

6 <1%

7 (2/74) ... ←

8 <1%

9 <1% Tr <1%

10 ~1-2% ? (3/113)

11 brn 1-3% ext.

12 1-2%

13 2-3% ? (4/136) ✓

14 brn ~1% ← ←

15 lots of cell, & ly grn., <1% ✓

16 <1%

17 trace

18	– trace		
19	– brn	<1%	Tr < 1%
20	"	"	
21	"	perhaps 2%	
22	beige	<1%	<1%
23	brn	~2-3%	~2%
24	"	<1%	
25	~1%?	(check – 1/107)	<1%
26	brn	<1%	
27	brn	~1-2%	1-2%
28	beige	<1%	
29	brn	<1%	
30	beige	<1%	
31	brn	<1%	
32	– ~~~1%?~~ ~2%	(2/104 pts)	~2%
33	brn	~3%? (3/118 pts)	
34	red-brn	1-2%	
35	" "	<1%	
36	brn	~2-4%	
37	"	~1-2%	1-2%
38	"	~2-4%	
39	brn	~1-2%	
40	"	"	1-2%
41	"	~1-2% (3/117 pts)	<1%
42	"	<1%	
43	"	~1%	
44	"	~2%	1-2%
45	"	<1% (<<1%)	

46 beige or orng brn <1%

47 lt brn ~1-2%

48 brn <1%

49 " <1%

50 " <1%

51 " ~2(-3)%, w/ Hbl

52 " ~2%

53 " <1%

54 " <1%

55 beige <1%

56 " <1%

57 brn ~1% (≥1)

58 orng-brn <1%

<1%

741-00024 —

				27	brn	<1%
001	orange	~7-3%		28	beige!	<1%	Tv<1%
002	beige	~1-2%		29	"	<1%
3	"	1-2%		30	"	<1%
4	"	"		31	"	~1% (1-2%)
5	"	<1%		32	brn	<1%
6	brn	<1%		33	"	<1%
7	"	1-3%		34	brn	<1%
8	"	<1%		35	"	(≥1%)
9	"	<1%		36	✓	<1% (close to)
<1%Tv 10	"	<1%		37	✓	1-2% Tv<1%
11	"	1-(2)%		38	✓	<1%
12	"	1-2%		39	✓	~2-3% 3-5%
13	"	~1% (>1%)		40	org	<1% (close to)
14	"	~1% (<1%)		41	brn	~3%?
15	"	~1% (>1%)		42	"	≥1% (~1%)
16	"	1-2%		43	"	<1%
17	"	<1%		44	org	<1%
18	brn	~2%		45	brn	2-3% 2-3%
19	"	~1% (<1%)		46	"	~1% (≥1%)
20	"	" "		47	org	~1% (")
21	org	~1% (≥1%)		48	brn	" (")
Tv<% 22	brn	~1% (>1%)		49	brn	1-2% +chaya?
23	brn	<1%		50	brn	1-2%
24	"	<1%		51	"	<1% lots of wood?
25	"	<1%		52	"	<1% (close) <1%
26	"	<1%		53	"	<1%

741-00024-

54 brn ≥1%
55 " <1%
56 " <1%
57 beige ~2%
58 brn ≥1%
59 grey <1%
60 beige ≥1%

531-01143 Log #49479
~~[illegible]~~ off-white acoustic ceiling w/ paint
friable - fibers visible macro.
pulled, chopped, heated.

cc
binder paint

49403 - soils
w/ opaques, cc, qtz, fsp other
-1 no chrys., ~~actin~~ <1% extin ~15°
trem 1.625 ||
1.60 ⊥

Sed cont — 741-00025 —

(all in 1.640 ...)

001	bge	~1% (≥1) ←	
2	brn	1-2%	
3	bge	2-3%	3-5%
4	brn	≥1%	
5	bge	>1%	
6	bge	(>1%)	→ 2%
7	bge	>1%	
8	bge	>1%	
9	bge	≥1%	⇒ Tr. <1%
10	bge	≥1%	
11	bge	<1%	
12	brn	<1%	
13	bge	>1% ←	
14	bge	~1% (≥) ← glass (glass fin, ...)	
15	brn	<1% w/ glass	~1%
16	brn	<1% (close)	
17	brn	<1% w/ opq's (1)	
18	brn	<1%	
19	bge	<1%	
20	brn	<1% opq's (1)	
21	grey	<1%	Tr. <1
22	brn	<1% glass #3	
23	brn	<1% " "	
24	brn	<1% "	
25	brn	<1% glass #3	

25 - 26 brn <<1%
27 brn <1%
28 brn <1%
29 brn <1%
30 brn <1%
31 grey <1% glass #3
32 beige <1%
33 brn <1%
34 brn <1%
35 brn <1%
36 brn <1%
37 brn <1%
38 brn <1%
39 grey <1%
40 brn <1%

Tr. <1%

Tr. <1%

Tr. <1%

191-000 26 — in 1640 oil

-001 brn <1%	-11 brn ≥1%
-2 brn <1%	-12 brn ≥1%?
3 brn <1%	-13 beige <1
4 brn <1%	-14 grey <1
26 - 5 brn <1%	-15 beige ≤1%
6 brn <1%	-16 grey <1
7 brn <1% (~1%)	-17 brn ~1% (≥1)
8 brn <1%	-18 beige <1
9 brn ~1% (≥1)	-19 beige <1
10 beige " "	-20 brn <1

Tr. <1%

<1 Tr.

26 cont'd

MPS

21 brn ≥1% — <1%
22 brn ≥1%
23 brn ≥1%
24 brn ≥1 — ≥
25 beige <1
26 brn ≥1%
27 grey ND qtz, fsp, other mp
28 grey " " "
29 brn <1% — <1%
30 brn <1
31 grey <1 (trace) q, fsp, other mp
32 grey " " ...
ND 33 grey trace ...
34 grey ND
35 brn <1%
36 orng ~1% (≥1)
37 grey ND qtz, f, other — ND
38 brn ≥1%
39 grey trace (<1) qtz, f, other — ND
40 grey " " ... — ND

Tr 41 grey <1% (but > trace) q, fsp, other
42 brn <1 → opq, cs, qtz
43 brn ≥1
44 brn ≥1 → opq, cs, qtz
ND 45 grey trace → qtz, fsp, other
46 brn 2(-3)%
47 brn <1% (close)
48 grey <1% q, f, other
49 grey ND ... — ND
50 grey ND ... — ND
51 grey ND ...
52 grey ND ...

Asbestos TEM Laboratories, Inc.

Daily PLM Microscope Calibration Sheet

Date	Analyst	Polarizer and analyzer are oriented at 90 degrees to one another?	Ocular cross-hairs coincide with privileged directions?	Objectives are centered to prevent grains from leaving the field of view during substage rotation?	Substage condenser and iris diaphragm are centered in the optic axis?	Substage condenser is positioned such that the image of the condenser aperture is in focus?	Other adjustments
4/25	SF	✓	✓	✓	✓	✓	—
4/26	SF	✓	✓	✓	✓	✓	
4/27	SF	✓	✓	✓	✓	✓	
4/28	SF	✓	✓	✓	✓	✓	
4/29	SF	✓	✓	✓	✓	✓	✓
5/2	SF	✓	✓	✓	✓	✓	✓
5/3	SF	✓	✓	✓	✓	✓	
5/4	SF	✓	✓	✓	✓	✓	
5/5	SF	✓	✓	✓	✓	✓	✓
5/6	SF	✓	✓	✓	✓	✓	✓
5/9	SF	✓	✓	✓	✓	✓	
5/10	SF	✓	✓	✓	✓	✓	
5/11	SF	✓	✓	✓	✓	✓	
5/12	SF	✓	✓	✓	✓	✓	✓
5/13	SF	✓	✓	✓	✓	✓	✓
5/16	SF	✓	✓	✓	✓	✓	✓
5/17	SF	✓	✓	✓	✓	✓	
5/18	SF	✓	✓	✓	✓	✓	✓
5/19	SF	✓	✓	✓	✓	✓	
5/20	SF	✓	✓	✓	✓	✓	✓
5/23	SF	✓	✓	✓	✓	✓	
5/24	SF	✓	✓	✓	✓	✓	
5/25	SF	✓	✓	✓	✓	✓	
5/26	SF	✓	✓	✓	✓	✓	✓
5/27	SF	✓	✓	✓	✓	✓	✓
5/31	SF	✓	✓	✓	✓	✓	✓

Asbestos TEM Laboratories, Inc.

Monthly Refractive Index Oil Calibration Sheet

Date	Analyst	Nominal or Labeled $n_D^{25°C}$/Series	Cargille Glass		Central Stop DS Observation		Liquid or Room Temperature (°C)	Actual or Calibrated $n_D^{25°C}$	Difference between Calibrated $n_D^{25°C}$ and Labeled $n_D^{25°C}$	Accept (A) or Reject (R)
			Nominal or Labeled R.I.	Lot No.	Predominant DS Color	Corresponding Ti λ_0 chart				
01/06/05	Sandar	1.55/E	1.55	C	Purple	560	24	1.5486 (T4)	0.0014	A
01/07/05	Sandar	1.605/E	1.60	B	Blue	610	22	1.6015 (T5)	0.0035	A
01/07/05	Sandar	1.68/B	1.68	C	Blue-green	660	22	1.6837 (T7)	0.0037	A
01/07/05	Sandar	1.70/B	1.70	C	Blue-purple	570	22	1.6984 (T8)	(0.0016–0.0005) 0.0011	A
02/18/05	SK	1.55/E	1.55	C	Purple	570	22	1.5485	0.0015	A
02/18/05	SK	1.605/E	1.60	B	Blue	630	22	1.6013	0.0037	A
02/18/05	SK	1.68/B	1.68	C	Blue-green	660	22	1.6837	0.0037	A
03/10/05	SK	1.55/E	1.55	C	purple	570	22	1.5485	0.0015	A
03/10/05	SK	1.605/E	1.60	B	blue	610	22	1.6015	0.0035	A
03/10/05	SK	1.68/B	1.68	C	blue-green	660	22	1.6837	0.0037	A
4/12/05	DV	1.55/E	1.55	C	purple	570	22	1.5485	.0015	A
4/12/05	DV	1.605/E	1.60	B	blue	610	22	1.6013	.0037	A
4/12/05	DV	1.68/B	1.68	C	blue-green	660	22	1.6837	.0037	A

UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899

June 16, 2004

Mr. R. Mark Bailey
Asbestos TEM Laboratories, Inc.
1409 Fifth Street, Suite C
Berkeley, CA 94710

NVLAP Lab Code: 101891-0

Dear Mr. Bailey:

I am pleased to inform you that continuing accreditation for specific test methods in Bulk Asbestos Fiber Analysis (PLM) is granted to your organization under the National Voluntary Laboratory Accreditation Program (NVLAP). This accreditation is effective until June 30, 2005, provided that your organization continues to comply with accreditation requirements contained in the NVLAP Procedures.

Your Certificate of Accreditation is enclosed along with a statement of your Scope of Accreditation. You may reproduce these documents in their entirety and announce your organization's accreditation status using the NVLAP logo in business publications, the trade press, and other business-oriented literature. Accreditation does not relieve your organization from observing and complying with any applicable existing laws and/or regulations.

We are pleased to have you participate in NVLAP and look forward to your continued association with this program. If you have any questions concerning your NVLAP accreditation, please direct them to Thomas R. Davis, Sr. Program Manager, Laboratory Accreditation Program, National Institute of Standards and Technology, 100 Bureau Dr. Stop 2140, Gaithersburg, MD 20899-2140; (301) 975-4016.

Sincerely,

Warren R. Merkel, Chief
Laboratory Accreditation Program

Enclosure(s)

NIST

National Institute of Standards and Technology

NVLAP®

National Voluntary Laboratory Accreditation Program

ISO/IEC 17025:1999
ISO 9002:1994

Scope of Accreditation

BULK ASBESTOS FIBER ANALYSIS **NVLAP LAB CODE 101891-0**

ASBESTOS TEM LABORATORIES, INC.
1409 Fifth Street, Suite C
Berkeley, CA 94710
Mr. R. Mark Bailey
Phone: 510-528-0108 Fax: 510-528-0109
E-Mail: mark@asbestostemlabs.com
URL: http://www.asbestostemlabs.com

NVLAP Code	*Designation*
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

June 30, 2005

Effective through

For the National Institute of Standards and Technology

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC 17025:1999
ISO 9002:1994

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

ASBESTOS TEM LABORATORIES, INC.

BERKELEY, CA

is recognized by the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria set forth in NIST Handbook 150:2001, all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994. Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

June 30, 2005

Effective through

For the National Institute of Standards and Technology

NVLAP Lab Code: 101891-0

NVLAP-01-C (06-01)

ASBESTOS TEM LABORATORIES, INC.

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Sample Preparation Log Sheet

Prep Batch ID: 1

(TECHNICAL STANDART OPERATION PROCEDURE, SOIL SAMPLE PREPARATION – Revision Number 4)

Sheet No. 1

Index Identification Name	Notes: Original Sample Identification or other descriptor as appropriate.	Batch Number	Dry Batch ID	Archive Sample Splitting	Duplicate Sample Splitting	Sieving			Sample Grinding		Sample Splitting					QC
						Sample Mass (g)	Sample Mass (g)	Initials and Date	Initials and Date	Grinder #	Sample Mass (g)				Initials and Date	Initial and Date
				Initials and Date	Initials and Date	Fraction >1/4"	Fraction <1/4"				FG1	FG2	FG3	FG4		
741-00019-001	CPS-CS01-100804	1	1	MW 10-15-04	--	6.0 g	287.4 g	MW 10-15-04	ML 10-15-04	1	61.4 g	59.0 g	72.0 g	61.5 g	MW 10-20-04	SAS 10-21-04
741-00019-002	CPS-S01-100804	1	1	DO 10-15-04	--	0.0 g	98.8 g	DO 10-15-04	ML 10-15-04	1	43.1 g	20.9 g	14.2 g	6.9 g	MW 10-20-04	SAS 10-21-04
741-00019-003	CPS-S02-100804	1	1	MW 10-15-04	--	3.0 g	196.5 g	MW 10-15-04	ML 10-15-04	1	45.6 g	43.1 g	38.8 g	45.4 g	MW 10-20-04	SAS 10-21-04
741-00019-004	CPS-S03-100804	1	1	PB 10-15-04	--	0.9 g	73.9 g	MW 10-15-04	ML 10-15-04	1	16.3 g	16.7 g	14.3 g	14.6 g	MW 10-20-04	SAS 10-21-04
741-00019-005	CPS-S04-100804	1	1	PB 10-15-04	--	2.5 g	233.5 g	MW 10-15-04	ML 10-15-04	1	60.2 g	40.7 g	52.5 g	53.0 g	DO 10-21-04	SAS 10-22-04
741-00019-006	CPS-S05-100804	1	1	PB 10-15-04	--	0.0 g	228.5 g	MW 10-15-04	ML 10-15-04	1	47.6 g	49.8 g	52.7 g	51.4 g	DO 10-21-04	SAS 10-22-04
741-00019-007	CPS-S06-100804	1	1	PB 10-15-04	--	0.7 g	171.7 g	MW 10-15-04	ML 10-15-04	1	36.0 g	36.2 g	38.6 g	39.8 g	DO 10-21-04	SAS 10-22-04
741-00019-008	CPS-S07-100804	1	1	PB 10-15-04	--	1.5 g	164.4 g	MW 10-15-04	ML 10-15-04	1	28.0 g	43.7 g	38.6 g	38.4 g	DO 10-21-04	SAS 10-22-04
741-00019-009	CPS-S101-100804	1	1	PB 10-15-04	--	1.0 g	143.5 g	MW 10-15-04	ML 10-15-04	1	32.0 g	27.9 g	31.6 g	32.1 g	DO 10-21-04	SAS 10-22-04
741-00019-010	NFB-CS01-100804	1	1	PB 10-15-04	--	2.7 g	449.4 g	MW 10-15-04	ML 10-15-04	1	101.1 g	109.3 g	93.8 g	96.5 g	DO 10-21-04	SAS 10-22-04
741-00019-011	NFB-CSS01-100804	1	1	PB 10-15-04	--	109.4 g	427.1 g	MW 10-15-04	ML 10-15-04	1	105.0 g	80.0 g	94.1 g	97.5 g	DO 10-21-04	SAS 10-22-04
741-00019-012	NFB-S01-100804	1	1	PB 10-15-04	--	0.6 g	215.6 g	MW 10-15-04	ML 10-15-04	1	60.0 g	39.6 g	27.9 g	40.1 g	DO 10-21-04	SAS 10-22-04
741-00019-013	NFB-S02-100804	1	1	PB 10-15-04	--	0.0 g	177.1 g	MW 10-15-04	ML 10-15-04	1	39.6 g	42.1 g	22.8 g	52.3 g	DO 10-21-04	SAS 10-22-04
741-00019-014	NFB-S03-100804	1	1	PB 10-15-04	--	1.1 g	284.5 g	MW 10-15-04	ML 10-15-04	1	67.2 g	66.6 g	62.9 g	62.1 g	DO 10-21-04	SAS 10-22-04
741-00019-015	NFB-S04-100804	1	1	PB 10-15-04	--	0.0 g	137.4 g	MW 10-15-04	ML 10-15-04	1	36.5 g	25.9 g	29.8 g	31.0 g	DO 10-21-04	SAS 10-22-04
741-00019-016	NFB-S05-100804	1	1	PB 10-15-04	--	0.0 g	305.0 g	MW 10-15-04	ML 10-15-04	1	77.9 g	56.8 g	69.2 g	68.4 g	DO 10-21-04	SAS 10-22-04
741-00019-017	NFB-S06-100804	1	1	PB 10-15-04	--	0.0 g	355.6 g	MW 10-15-04	ML 10-15-04	1	83.5 g	79.8 g	80.4 g	80.3 g	DO 10-21-04	SAS 10-22-04
741-00019-018	NFB-S07-100804	1	1	PB 10-15-04	--	0.0 g	313.7 g	MW 10-15-04	ML 10-15-04	1	71.4 g	73.9 g	72.5 g	70.9 g	DO 10-21-04	SAS 10-22-04
741-00019-019	NFB-S08-100804	1	1	PB 10-15-04	--	0.0 g	412.6 g	MW 10-15-04	ML 10-15-04	1	93.9 g	92.6 g	94.1 g	98.2 g	DO 10-21-04	SAS 10-22-04
741-00019-020	NFB-S09-100804	1	1	PB 10-15-04	--	0.0 g	298.4 g	MW 10-15-04	ML 10-15-04	1	55.5 g	71.7 g	73.6 g	72.9 g	DO 10-21-04	SAS 10-22-04
741-00019-215	LAB-DUP01-101104 Duplicate of NFB-S09-100804	1	1	--	PB 10-15-04	0.0 g	149.9 g	MW 10-15-04	ML 10-15-04	1	23.5 g	34.2 g	39.5 g	40.7 g	DO 10-21-04	SAS 10-22-04
741-00019-021	NFB-S10-100804	1	1	PB 10-15-04	--	1.7 g	123.4 g	MW 10-15-04	ML 10-15-04	1	32.9 g	22.5 g	27.9 g	29.9 g	DO 10-21-04	SAS 10-22-04
741-00019-022	NFB-S110-100804	1	1	PB 10-15-04	--	0.8 g	81.4 g	MW 10-15-04	ML 10-15-04	1	20.2 g	15.6 g	18.7 g	19.1 g	DO 10-21-04	SAS 10-22-04
741-00019-023	NFB-SS01-100804	1	1	PB 10-15-04	--	201.6 g	209.6 g	MW 10-15-04	ML 10-15-04	1	46.4 g	48.0 g	49.5 g	48.2 g	DO 10-21-04	SAS 10-22-04

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Sample Preparation Log Sheet

Prep Batch ID: 1

(TECHNICAL STANDART OPERATION PROCEDURE, SOIL SAMPLE PREPARATION – Revision Number 4)

Sheet No. 2

Index Identification Name	Notes: Original Sample Identification or other descriptor as appropriate.	Batch Number	Dry Batch ID	Archive Sample Splitting	Duplicate Sample Splitting	Sieving			Sample Grinding		Sample Splitting					QC
						Sample Mass (g)	Sample Mass (g)	Initials and Date	Initials and Date	Grinder #	Sample Mass (g)				Initials and Date	Initial and Date
				Initials and Date	Initials and Date	Fraction >1/4"	Fraction <1/4"				FG1	FG2	FG3	FG4		
741-00019-024	NFB-SS02-100804	1	1	PB 10-15-04	--	33.1 g	330.1 g	MW 10-15-04	ML 10-15-04	1	79.3 g	76.7 g	72.6 g	71.9 g	DO 10-21-04	SAS 10-22-04
741-00019-025	NFB-SS03-100804	1	1	PB 10-15-04	--	117.5 g	389.8 g	MW 10-15-04	ML 10-15-04	1	80.4 g	79.1 g	103.5 g	92.3 g	DO 10-21-04	SAS 10-22-04
741-00019-026	NFB-SS04-100804	1	1	PB 10-15-04	--	15.8 g	335.4 g	MW 10-15-04	ML 10-15-04	1	80.7 g	74.6 g	74.0 g	78.2 g	DO 10-21-04	SAS 10-22-04
741-00019-027	NFB-SS05-100804	1	1	PB 10-15-04	--	33.5 g	138.5 g	MW 10-15-04	ML 10-15-04	1	34.1 g	29.5 g	31.1 g	31.8 g	DO 10-21-04	SAS 10-22-04
741-00019-028	NFB-SS06-100804	1	1	PB 10-15-04	--	55.0 g	251.7 g	MW 10-15-04	ML 10-15-04	1	58.9 g	60.1 g	56.8 g	55.9 g	DO 10-21-04	SAS 10-22-04
741-00019-029	NFB-SS07-100804	1	1	PB 10-15-04	--	15.2 g	148.1 g	MW 10-15-04	ML 10-15-04	1	33.4 g	35.5 g	33.4 g	33.1 g	DO 10-21-04	SAS 10-22-04
741-00019-030	NYB-CS01-100804	1	1	PB 10-15-04	--	0.8 g	419.0 g	MW 10-15-04	ML 10-15-04	1	84.6 g	102.7 g	91.8 g	104.2 g	DO 10-21-04	SAS 10-22-04
741-00019-031	NYB-CSS01-100804	1	1	DO 10-17-04	--	83.0 g	404.2 g	DO 10-17-04	ML 10-17-04	1	91.6 g	86.6 g	89.8 g	118.2 g	DV 10-21-04	SAS 10-22-04
741-00019-032	NYB-S01-100804	1	2	DO 10-17-04	--	0.0 g	287.9 g	DO 10-17-04	ML 10-17-04	1	67.7 g	66.8 g	74.7 g	64.3 g	DV 10-21-04	SAS 10-22-04
741-00019-033	NYB-S02-100804	1	2	DO 10-17-04	--	0.0 g	348.1 g	DO 10-17-04	ML 10-17-04	1	91.0 g	87.8 g	74.3 g	80.0 g	DV 10-21-04	SAS 10-22-04
741-00019-034	NYB-S03-100804	1	2	DO 10-17-04	--	0.0 g	260.7 g	DO 10-17-04	ML 10-17-04	1	64.1 g	63.0 g	57.4 g	62.2 g	DV 10-21-04	SAS 10-22-04
741-00019-035	NYB-S04-100804	1	2	DO 10-17-04	--	0.0 g	133.4 g	DO 10-17-04	ML 10-17-04	1	27.8 g	33.6 g	30.4 g	29.8 g	DV 10-21-04	SAS 10-22-04
741-00019-036	NYB-S05-100804	1	2	DO 10-17-04	--	0.0 g	408.4 g	DO 10-17-04	ML 10-17-04	1	105.6 g	94.1 g	105.0 g	81.9 g	DV 10-21-04	SAS 10-22-04
741-00019-037	NYB-S06-100804	1	2	DO 10-17-04	--	0.0 g	233.7 g	DO 10-17-04	ML 10-17-04	1	55.4 g	54.7 g	57.8 g	52.8 g	DV 10-21-04	SAS 10-22-04
741-00019-038	NYB-S07-100804	1	2	DO 10-17-04	--	0.0 g	230.1 g	DO 10-17-04	ML 10-17-04	1	52.6 g	58.9 g	51.0 g	52.3 g	DV 10-21-04	SAS 10-22-04
741-00019-039	NYB-S08-100804	1	2	DO 10-17-04	--	0.0 g	348.8 g	DO 10-17-04	ML 10-17-04	1	82.2 g	83.7 g	95.7 g	64.4 g	DV 10-21-04	SAS 10-22-04
741-00019-040	NYB-S09-100804	1	2	DO 10-17-04	--	0.0 g	331.9 g	DO 10-17-04	ML 10-17-04	1	77.8 g	78.4 g	77.8 g	80.8 g	DV 10-21-04	SAS 10-22-04
741-00019-217	LAB-DUP03-101104 Duplicate of NYB-S09-100804	1	2	--	DO 10-17-04	0.0 g	169.9 g	DO 10-17-04	ML 10-17-04	1	39.7 g	38.2 g	40.4 g	40.1 g	DV 10-21-04	SAS 10-22-04
741-00019-041	NYB-S10-100804	1	2	PB 10-16-04	--	10.7 g	295.6 g	DO 10-16-04	ML 10-16-04	1	67.3 g	68.5 g	64.6 g	76.5 g	DO 10-24-04	SAS 10-25-04
741-00019-042	NYB-S104-100804	1	2	DO 10-16-04	--	0.0 g	62.9 g	DO 10-16-04	ML 10-16-04	1	17.9 g	10.9 g	12.9 g	13.4 g	DO 10-24-04	SAS 10-25-04
741-00019-043	NYB-SS01-100804	1	2	DO 10-16-04	--	106.4 g	391.9 g	DO 10-16-04	ML 10-16-04	1	78.9 g	100.3 g	93.9 g	86.5 g	DO 10-24-04	SAS 10-25-04
741-00019-044	NYB-SS02-100804	1	2	DO 10-16-04	--	72.8 g	227.6 g	DO 10-16-04	ML 10-16-04	1	53.8 g	50.2 g	51.8 g	51.5 g	DO 10-24-04	SAS 10-25-04
741-00019-045	NYB-SS03-100804	1	2	DO 10-16-04	--	34.9 g	237.5 g	DO 10-16-04	ML 10-16-04	1	50.8 g	55.9 g	57.3 g	53.6 g	DO 10-24-04	SAS 10-25-04
741-00019-046	NYB-SS04-100804	1	2	DO 10-16-04	--	49.2 g	232.9 g	DO 10-16-04	ML 10-16-04	1	52.4 g	55.9 g	49.5 g	52.0 g	DO 10-24-04	SAS 10-25-04

ASBESTOS TEM LABORATORIES, INC.

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Sample Preparation Log Sheet

Prep Batch ID: 1

(TECHNICAL STANDART OPERATION PROCEDURE, SOIL SAMPLE PREPARATION – Revision Number 4)

Sheet No. 3

Index Identification Name	Notes: Original Sample Identification or other descriptor as appropriate.	Batch Number	Dry Batch ID	Archive Sample Splitting	Duplicate Sample Splitting	Sieving			Sample Grinding		Sample Splitting					QC
						Sample Mass (g)	Sample Mass (g)	Initials and Date	Initials and Date	Grinder #	Sample Mass (g)				Initials and Date	Initial and Date
				Initials and Date	Initials and Date	Fraction >1/4"	Fraction <1/4"				FG1	FG2	FG3	FG4		
741-00019-047	NYB-SS05-100804	1	2	DO 10-16-04	--	157.9 g	273.2 g	DO 10-16-04	ML 10-16-04	1	57.9 g	66.6 g	63.2 g	62.0 g	DO 10-24-04	SAS 10-25-04
741-00019-048	NYB-SS06-100804	1	2	DO 10-16-04	--	19.8 g	141.9 g	DO 10-16-04	ML 10-16-04	1	38.2 g	23.6 g	32.2 g	32.3 g	DO 10-24-04	SAS 10-25-04
741-00019-049	NYB-SS07-100804	1	2	DO 10-16-04	--	47.1 g	165.0 g	DO 10-16-04	ML 10-16-04	1	29.7 g	42.8 g	36.7 g	38.2 g	DO 10-24-04	SAS 10-25-04
741-00019-050	NYB-SS104-100804	1	2	DO 10-16-04	--	25.6 g	177.6 g	DO 10-16-04	ML 10-16-04	1	42.2 g	35.1 g	40.6 g	41.1 g	DO 10-24-04	SAS 10-25-04
741-00019-051	NYT-CS01-100804	1	2	DO 10-16-04	--	37.1 g	143.2 g	DO 10-16-04	ML 10-16-04	1	40.8 g	23.2 g	33.4 g	31.7 g	DO 10-24-04	SAS 10-25-04
741-00019-052	NYT-CS02-100804	1	2	DO 10-16-04	--	36.4 g	381.9 g	DO 10-16-04	ML 10-16-04	1	89.6 g	88.1 g	86.8 g	86.5 g	DO 10-24-04	SAS 10-25-04
741-00019-053	NYT-CS101-100804	1	2	DO 10-16-04	--	15.1 g	112.7 g	DO 10-16-04	ML 10-16-04	1	23.3 g	28.0 g	24.3 g	23.5 g	DO 10-24-04	SAS 10-25-04
741-00019-054	NYT-S01-100804	1	2	DO 10-16-04	--	10.6 g	153.2 g	DO 10-16-04	ML 10-16-04	1	25.6 g	35.8 g	36.7 g	36.2 g	DO 10-24-04	SAS 10-25-04
741-00019-055	NYT-S02-100804	1	2	DO 10-16-04	--	11.7 g	262.4 g	DO 10-16-04	ML 10-16-04	1	55.2 g	67.3 g	57.2 g	59.3 g	DO 10-24-04	SAS 10-25-04
741-00019-056	NYT-S03-100804	1	2	DO 10-16-04	--	33.1 g	321.7 g	DO 10-16-04	ML 10-16-04	1	85.5 g	69.3 g	73.1 g	71.7 g	DO 10-24-04	SAS 10-25-04
741-00019-057	NYT-S04-100804	1	2	DO 10-16-04	--	11.6 g	184.9 g	DO 10-16-04	ML 10-16-04	1	49.4 g	38.8 g	44.3 g	44.1 g	DO 10-24-04	SAS 10-25-04
741-00019-058	NYT-S104-100804	1	2	DO 10-16-04	--	14.5 g	146.5 g	DO 10-16-04	ML 10-16-04	1	38.1 g	30.5 g	35.5 g	33.8 g	DO 10-24-04	SAS 10-25-04
741-00019-059	NYT-S1A2-100804	1	2	DO 10-16-04	--	22.1 g	165.1 g	DO 10-16-04	ML 10-16-04	1	46.7 g	30.1 g	39.1 g	37.2 g	DO 10-24-04	SAS 10-25-04
741-00019-060	NYT-S1E1-100804	1	2	DO 10-16-04	--	20.8 g	163.1 g	DO 10-16-04	ML 10-16-04	1	31.7 g	43.4 g	37.1 g	39.2 g	DO 10-24-04	SAS 10-25-04
741-00019-216	LAB-DUP02-101104 Duplicate of NYT-S1E1-100804	1	2	--	DO 10-16-04	18.9 g	81.5 g	DO 10-16-04	ML 10-16-04	1	20.1 g	21.1 g	17.7 g	16.4 g	DV 10-26-04	SAS 10-27-04
741-00019-061	NYT-S1G2-100804	1	2	DO 10-16-04	--	9.1 g	243.6 g	DO 10-16-04	ML 10-16-04	1	61.8 g	56.4 g	53.5 g	52.9 g	DO 10-25-04	SAS 10-26-04
741-00019-062	NYT-SA1-100804	1	2	DO 10-16-04	--	2.7 g	177.3 g	DO 10-16-04	ML 10-16-04	1	37.1 g	45.2 g	39.8 g	43.9 g	DO 10-25-04	SAS 10-26-04
741-00019-063	NYT-SA2-100804	1	2	DO 10-16-04	--	5.7 g	119.8 g	DO 10-16-04	ML 10-16-04	1	28.0 g	30.7 g	25.6 g	27.6 g	DO 10-25-04	SAS 10-26-04
741-00019-064	NYT-SA3-100804	1	2	DO 10-16-04	--	7.0 g	175.3 g	DO 10-16-04	ML 10-16-04	1	42.6 g	37.5 g	37.1 g	38.7 g	DO 10-25-04	SAS 10-26-04
741-00019-065	NYT-SB1-100804	1	2	DO 10-16-04	--	8.1 g	107.8 g	DO 10-16-04	ML 10-16-04	1	40.3 g	10.0 g	23.7 g	23.8 g	DO 10-25-04	SAS 10-26-04
741-00019-066	NYT-SB2-100804	1	2	DO 10-16-04	--	16.9 g	178.5 g	DO 10-16-04	ML 10-16-04	1	27.0 g	44.3 g	45.0 g	46.5 g	DO 10-25-04	SAS 10-26-04
741-00019-067	NYT-SB3-100804	1	2	DO 10-16-04	--	19.5 g	235.5 g	DO 10-16-04	ML 10-16-04	1	54.1 g	61.3 g	48.1 g	54.8 g	DO 10-25-04	SAS 10-26-04
741-00019-068	NYT-SC1-100804	1	2	DO 10-16-04	--	5.9 g	281.8 g	DO 10-16-04	ML 10-16-04	1	62.7 g	56.6 g	69.4 g	69.6 g	DO 10-25-04	SAS 10-26-04
741-00019-069	NYT-SC2-100804	1	2	DO 10-16-04	--	9.1 g	142.9 g	DO 10-16-04	ML 10-16-04	1	34.6 g	24.3 g	36.1 g	36.1 g	DO 10-25-04	SAS 10-26-04

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Sample Preparation Log Sheet

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(TECHNICAL STANDART OPERATION PROCEDURE, SOIL SAMPLE PREPARATION – Revision Number 4)

Sheet No. 4

Index Identification Name	Notes: Original Sample Identification or other descriptor as appropriate.	Batch Number	Dry Batch ID	Archive Sample Splitting	Duplicate Sample Splitting	Sieving			Sample Grinding		Sample Splitting					QC
						Sample Mass (g)	Sample Mass (g)	Initials and Date	Initials and Date	Grinder #	Sample Mass (g)				Initials and Date	Initial and Date
				Initials and Date	Initials and Date	Fraction >1/4"	Fraction <1/4"				FG1	FG2	FG3	FG4		
741-00019-070	NYT-SC3-100804	1	2	DO 10-16-04	--	27.9 g	247.6 g	DO 10-16-04	ML 10-16-04	1	59.2 g	55.1 g	59.4 g	56.0 g	DO 10-25-04	SAS 10-26-04
741-00019-071	NYT-SD1-100804	1	2	DO 10-17-04	--	7.0 g	110.9 g	DO 10-17-04	ML 10-17-04	1	24.2 g	25.6 g	25.6 g	25.2 g	DV 10-21-04	SAS 10-22-04
741-00019-072	NYT-SD2-100804	1	2	DO 10-17-04	--	2.1 g	54.2 g	DO 10-17-04	ML 10-17-04	1	13.5 g	6.5 g	13.0 g	11.7 g	DV 10-21-04	SAS 10-22-04
741-00019-073	NYT-SD3-100804	1	2	DO 10-17-04	--	5.6 g	192.4 g	DO 10-17-04	ML 10-17-04	1	47.1 g	43.2 g	43.8 g	42.0 g	DV 10-21-04	SAS 10-22-04
741-00019-074	NYT-SE1-100804	1	2	DO 10-17-04	--	28.3 g	172.4 g	DO 10-17-04	ML 10-17-04	1	40.8 g	41.6 g	39.4 g	36.8 g	DV 10-21-04	SAS 10-22-04
741-00019-075	NYT-SE2-100804	1	2	DO 10-17-04	--	4.9 g	87.5 g	DO 10-17-04	ML 10-17-04	1	20.3 g	13.9 g	19.7 g	23.5 g	DV 10-21-04	SAS 10-22-04
741-00019-076	NYT-SE3-100804	1	2	DO 10-17-04	--	10.9 g	208.9 g	DO 10-17-04	ML 10-17-04	1	51.0 g	52.9 g	39.2 g	51.9 g	DV 10-21-04	SAS 10-22-04
741-00019-077	NYT-SF1-100804	1	2	DO 10-17-04	--	3.3 g	209.1 g	DO 10-17-04	ML 10-17-04	1	46.5 g	50.3 g	45.2 g	47.7 g	DV 10-22-04	SAS 10-25-04
741-00019-078	NYT-SF2-100804	1	2	DO 10-17-04	--	3.3 g	125.3 g	DO 10-17-04	ML 10-17-04	1	27.3 g	25.9 g	25.6 g	29.3 g	DV 10-22-04	SAS 10-25-04
741-00019-079	NYT-SF3-100804	1	2	DO 10-17-04	--	43.7 g	104.9 g	DO 10-17-04	ML 10-17-04	1	20.9 g	22.8 g	24.4 g	23.4 g	DV 10-22-04	SAS 10-25-04
741-00019-080	NYT-SG1-100804	1	2	DO 10-17-04	--	22.7 g	172.9 g	DO 10-17-04	ML 10-17-04	1	37.5 g	42.8 g	40.1 g	38.8 g	DV 10-22-04	SAS 10-25-04
741-00019-218	LAB-DUP04-101104 Duplicate of NYT-SG1-100804	1	2	--	DO 10-17-04	8.8 g	53.7 g	DO 10-17-04	ML 10-17-04	1	11.8 g	11.6 g	12.2 g	10.1 g	DV 10-22-04	SAS 10-25-04
741-00019-081	NYT-SG2-100804	1	2	DO 10-17-04	--	6.3 g	143.0 g	DO 10-17-04	ML 10-17-04	1	32.9 g	32.8 g	35.6 g	30.9 g	DV 10-22-04	SAS 10-25-04
741-00019-082	NYT-SG3-100804	1	2	DO 10-17-04	--	18.5 g	125.7 g	DO 10-17-04	ML 10-17-04	1	26.5 g	30.7 g	31.2 g	27.9 g	DV 10-22-04	SAS 10-25-04
741-00019-083	NYT-SH1-100804	1	2	DO 10-17-04	--	15.9 g	251.5 g	DO 10-17-04	ML 10-17-04	1	56.0 g	56.8 g	63.3 g	65.6 g	DV 10-22-04	SAS 10-25-04
741-00019-084	NYT-SH2-100804	1	2	DO 10-17-04	--	0.0 g	227.2 g	DO 10-17-04	ML 10-17-04	1	53.7 g	59.7 g	52.3 g	52.2 g	DV 10-22-04	SAS 10-25-04
741-00019-085	NYT-SH3-100804	1	2	DO 10-17-04	--	10.7 g	166.6 g	DO 10-17-04	ML 10-17-04	1	40.2 g	40.6 g	38.5 g	39.3 g	DV 10-22-04	SAS 10-25-04
741-00019-086	NYT-SI1-100804	1	2	DO 10-17-04	--	84.0 g	398.9 g	DO 10-17-04	ML 10-17-04	1	103.3 g	106.6 g	77.9 g	93.2 g	DV 10-22-04	SAS 10-25-04
741-00019-087	NYT-SI2-100804	1	2	DO 10-17-04	--	15.2 g	180.2 g	DO 10-17-04	ML 10-17-04	1	40.6 g	44.1 g	43.1 g	43.4 g	DV 10-22-04	SAS 10-25-04
741-00019-088	NYT-SI3-100804	1	2	DO 10-17-04	--	20.1 g	284.5 g	DO 10-17-04	ML 10-17-04	1	66.6 g	63.7 g	75.7 g	69.3 g	DO 10-24-04	SAS 10-25-04
741-00019-089	NYT-SJ1-100804	1	2	DO 10-17-04	--	13.1 g	224.5 g	DO 10-17-04	ML 10-17-04	1	44.8 g	58.6 g	57.9 g	55.3 g	DO 10-24-04	SAS 10-25-04
741-00019-090	NYT-SJ2-100804	1	2	DO 10-17-04	--	9.3 g	285.3 g	DO 10-17-04	ML 10-17-04	1	62.9 g	68.4 g	68.1 g	73.4 g	DO 10-24-04	SAS 10-25-04
741-00019-091	NYT-SJ3-100804	1	2	PB 10-18-04	--	59.4 g	286.9 g	DV 10-18-04	ML 10-18-04	1	67.4 g	64.2 g	63.4 g	64.7 g	MW 10-25-04	SAS 10-26-04
741-00019-092	SFB-CS01-100804	1	2	PB 10-18-04	--	0.0 g	221.3 g	DV 10-18-04	ML 10-18-04	1	48.7 g	52.1 g	56.3 g	50.1 g	MW 10-25-04	SAS 10-26-04

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(TECHNICAL STANDART OPERATION PROCEDURE, SOIL SAMPLE PREPARATION – Revision Number 4)

Sheet No. 5

Index Identification Name	Notes: Original Sample Identification or other descriptor as appropriate.	Batch Number	Dry Batch ID	Archive Sample Splitting	Duplicate Sample Splitting	Sieving			Sample Grinding		Sample Splitting					QC
						Sample Mass (g)	Sample Mass (g)	Initials and Date	Initials and Date	Grinder #	Sample Mass (g)				Initials and Date	Initial and Date
				Initials and Date	Initials and Date	Fraction >1/4"	Fraction <1/4"				FG1	FG2	FG3	FG4		
741-00019-093	SFB-CS101-100804	1	3	PB 10-18-04	--	36.0 g	461.8 g	DV 10-18-04	ML 10-18-04	1	108.1 g	95.8 g	111.6 g	104.5 g	MW 10-25-04	SAS 10-26-04
741-00019-094	SFB-CSS01-100804	1	3	PB 10-18-04	--	0.0 g	206.3 g	DV 10-18-04	ML 10-18-04	1	47.3 g	48.2 g	50.7 g	46.4 g	MW 10-25-04	SAS 10-26-04
741-00019-095	SFB-S01-100804	1	3	PB 10-18-04	--	0.0 g	338.3 g	DV 10-18-04	ML 10-18-04	1	65.8 g	78.2 g	95.3 g	76.6 g	MW 10-25-04	SAS 10-26-04
741-00019-096	SFB-S02-100804	1	3	PB 10-18-04	--	0.0 g	333.5 g	DV 10-18-04	ML 10-18-04	1	76.6 g	92.0 g	75.5 g	66.4 g	MW 10-25-04	SAS 10-26-04
741-00019-097	SFB-S03-100804	1	3	PB 10-18-04	--	0.0 g	371.2 g	DV 10-18-04	ML 10-18-04	1	90.7 g	82.6 g	92.9 g	82.2 g	MW 10-25-04	SAS 10-26-04
741-00019-098	SFB-S04-100804	1	3	PB 10-18-04	--	1.1 g	242.9 g	DV 10-18-04	ML 10-18-04	1	61.4 g	57.4 g	59.2 g	50.5 g	MW 10-25-04	SAS 10-26-04
741-00019-099	SFB-S05-100804	1	3	PB 10-18-04	--	0.0 g	189.4 g	DV 10-18-04	ML 10-18-04	1	43.5 g	46.3 g	47.8 g	39.0 g	MW 10-25-04	SAS 10-26-04
741-00019-100	SFB-S06-100804	1	3	PB 10-18-04	--	0.0 g	211.2 g	DV 10-18-04	ML 10-18-04	1	68.9 g	31.7 g	44.5 g	50.8 g	MW 10-25-04	SAS 10-26-04
741-00019-219	LAB-DUP05-101104 Duplicate of SFB-S06-100804	1	3	--	PB 10-18-04	0.0 g	99.1 g	DV 10-18-04	ML 10-18-04	1	22.8 g	20.7 g	23.6 g	24.2 g	MW 10-25-04	SAS 10-26-04
741-00019-101	SFB-S07-100804	1	3	PB 10-18-04	--	0.6 g	264.4 g	DV 10-18-04	ML 10-18-04	1	56.4 g	63.4 g	70.0 g	61.1 g	MW 10-25-04	SAS 10-26-04
741-00019-102	SFB-S08-100804	1	3	PB 10-18-04	--	1.0 g	486.3 g	DV 10-18-04	ML 10-18-04	1	108.4 g	112.3 g	126.7 g	104.5 g	MW 10-25-04	SAS 10-26-04
741-00019-103	SFB-S09-100804	1	3	PB 10-18-04	--	0.0 g	389.6 g	DV 10-18-04	ML 10-18-04	1	87.6 g	87.8 g	89.6 g	96.6 g	DV 10-25-04	SAS 10-26-04
741-00019-104	SFB-S10-100804	1	3	PB 10-18-04	--	6.9 g	436.5 g	DV 10-18-04	ML 10-18-04	1	118.2 g	99.8 g	99.5 g	91.9 g	DV 10-25-04	SAS 10-26-04
741-00019-105	SFB-S107-100804	1	3	PB 10-18-04	--	0.0 g	413.8 g	DV 10-18-04	ML 10-18-04	1	97.6 g	102.3 g	92.8 g	97.1 g	DV 10-25-04	SAS 10-26-04
741-00019-106	SFB-SS01-100804	1	3	PB 10-18-04	--	95.4 g	440.8 g	DV 10-18-04	ML 10-18-04	1	101.6 g	108.0 g	102.9 g	101.2 g	DV 10-25-04	SAS 10-26-04
741-00019-107	SFB-SS02-100804	1	3	PB 10-18-04	--	123.2 g	580.4 g	DV 10-18-04	ML 10-18-04	1	126.7 g	117.8 g	149.2 g	144.5 g	DV 10-25-04	SAS 10-26-04
741-00019-108	SFB-SS03-100804	1	3	PB 10-18-04	--	89.3 g	408.0 g	DV 10-18-04	ML 10-18-04	1	89.5 g	91.9 g	93.4 g	107.2 g	DV 10-25-04	SAS 10-26-04
741-00019-109	SFB-SS04-100804	1	3	PB 10-18-04	--	64.6 g	345.6 g	DV 10-18-04	ML 10-18-04	1	88.4 g	82.6 g	71.3 g	76.6 g	DV 10-25-04	SAS 10-26-04
741-00019-110	SFB-SS05-100804	1	3	PB 10-18-04	--	43.2 g	500.8 g	DV 10-18-04	ML 10-18-04	1	99.1 g	126.1 g	114.0 g	129.2 g	DV 10-25-04	SAS 10-26-04
741-00019-111	SFB-SS06-100804	1	3	PB 10-18-04	--	111.0 g	446.6 g	DV 10-18-04	ML 10-20-04	1	97.4 g	118.1 g	88.3 g	112.7 g	DV 10-25-04	SAS 10-26-04
741-00019-112	SFB-SS07-100804	1	3	PB 10-18-04	--	37.7 g	226.0 g	DV 10-18-04	ML 10-20-04	1	50.5 g	56.7 g	48.3 g	55.5 g	DV 10-25-04	SAS 10-26-04
741-00019-113	SFB-SS107-100804	1	3	PB 10-18-04	--	151.5 g	634.1 g	DV 10-18-04	ML 10-20-04	1	147.5 g	143.4 g	140.7 g	153.7 g	DV 10-25-04	SAS 10-26-04
741-00019-114	DEM-CS01-100904	1	3	PB 10-18-04	--	54.4 g	276.8 g	DV 10-18-04	ML 10-20-04	1	65.7 g	69.3 g	53.8 g	68.7 g	DV 10-25-04	SAS 10-26-04
741-00019-115	DEM-S01-100904	1	3	PB 10-18-04	--	0.3 g	342.8 g	DV 10-18-04	ML 10-20-04	1	79.1 g	77.7 g	79.3 g	80.3 g	DV 10-25-04	SAS 10-26-04

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Sheet No. 6

Index Identification Name	Notes: Original Sample Identification or other descriptor as appropriate.	Batch Number	Dry Batch ID	Archive Sample Splitting	Duplicate Sample Splitting	Sieving			Sample Grinding		Sample Splitting					QC
						Sample Mass (g)	Sample Mass (g)	Initials and Date	Initials and Date	Grinder #	Sample Mass (g)				Initials and Date	Initial and Date
				Initials and Date	Initials and Date	Fraction >1/4"	Fraction <1/4"				FG1	FG2	FG3	FG4		
741-00019-116	DEM-S02-100904	1	3	PB 10-18-04	--	14.6 g	642.4 g	DV 10-18-04	ML 10-20-04	1	142.6 g	153.7 g	142.3 g	153.9 g	DV 10-25-04	SAS 10-26-04
741-00019-117	DEM-S03-100904	1	3	PB 10-18-04	--	66.9 g	357.8 g	DV 10-18-04	ML 10-20-04	1	79.9 g	85.4 g	84.7 g	80.5 g	DV 10-25-04	SAS 10-26-04
741-00019-118	DEM-S04-100904	1	3	PB 10-18-04	--	56.7 g	303.3 g	DV 10-18-04	ML 10-20-04	1	66.5 g	71.6 g	74.3 g	62.9 g	DV 10-25-04	SAS 10-26-04
741-00019-119	DEM-S05-100904	1	3	PB 10-18-04	--	43.4 g	388.3 g	DV 10-18-04	ML 10-20-04	1	83.4 g	87.4 g	95.2 g	95.5 g	DV 10-25-04	SAS 10-26-04
741-00019-120	DEM-S06-100904	1	3	PB 10-18-04	--	56.0 g	231.1 g	DV 10-18-04	ML 10-20-04	1	48.4 g	54.2 g	58.3 g	51.8 g	DV 10-25-04	SAS 10-26-04
741-00019-221	LAB-DUP07-101104 Duplicate of DEM-S06-100904	1	3	--	PB 10-18-04	24.0 g	102.9 g	DV 10-18-04	ML 10-20-04	1	23.6 g	23.1 g	24.6 g	23.6 g	DV 10-25-04	SAS 10-26-04
741-00019-121	DEM-S07-100904	1	3	DO 10-19-04	--	39.7 g	285.7 g	DO 10-19-04	ML 10-20-04	1	86.4 g	67.7 g	57.2 g	56.3 g	DO 10-26-04	SAS 10-27-04
741-00019-122	DEM-S08-100904	1	3	DO 10-19-04	--	76.3 g	275.4 g	DO 10-19-04	ML 10-20-04	1	62.8 g	59.9 g	62.9 g	71.6 g	DO 10-26-04	SAS 10-27-04
741-00019-123	DEM-S09-100904	1	3	DO 10-19-04	--	31.6 g	163.5 g	DO 10-19-04	ML 10-20-04	1	34.5 g	39.7 g	38.5 g	39.1 g	DO 10-26-04	SAS 10-27-04
741-00019-124	DEM-S10-100904	1	3	DO 10-19-04	--	70.3 g	240.4 g	DO 10-19-04	ML 10-20-04	1	66.7 g	49.5 g	52.5 g	53.9 g	DO 10-26-04	SAS 10-27-04
741-00019-125	DEM-S106-100904	1	3	DO 10-19-04	--	58.2 g	290.4 g	DO 10-19-04	ML 10-20-04	1	57.0 g	74.0 g	68.8 g	71.4 g	DO 10-26-04	SAS 10-27-04
741-00019-126	DEM-S11-100904	1	3	DO 10-19-04	--	89.0 g	149.0 g	DO 10-19-04	ML 10-20-04	1	28.6 g	36.5 g	37.1 g	36.7 g	DO 10-26-04	SAS 10-27-04
741-00019-127	DEM-S12-100904	1	3	DO 10-19-04	--	25.9 g	240.2 g	DO 10-19-04	ML 10-20-04	1	60.0 g	49.2 g	54.6 g	58.6 g	DO 10-26-04	SAS 10-27-04
741-00019-128	DEM-S13-100904	1	3	DO 10-19-04	--	25.3 g	301.7 g	DO 10-19-04	ML 10-20-04	1	65.4 g	74.9 g	69.8 g	73.2 g	DO 10-26-04	SAS 10-27-04
741-00019-129	RHS-CS01-100904	1	3	DO 10-19-04	--	30.3 g	293.9 g	DO 10-19-04	ML 10-20-04	1	76.1 g	45.5 g	68.6 g	79.0 g	DO 10-26-04	SAS 10-27-04
741-00019-130	RHS-S01-100904	1	3	DO 10-19-04	--	2.0 g	84.0 g	DO 10-19-04	ML 10-20-04	1	19.2 g	16.0 g	19.7 g	19.7 g	DO 10-26-04	SAS 10-27-04
741-00019-131	RHS-S02-100904	1	3	DO 10-19-04	--	4.2 g	254.2 g	DO 10-19-04	ML 10-21-04	1	53.4 g	59.5 g	62.6 g	64.1 g	DO 10-26-04	SAS 10-27-04
741-00019-132	RHS-S03-100904	1	3	DO 10-19-04	--	5.4 g	76.3 g	DO 10-19-04	ML 10-21-04	1	20.0 g	12.9 g	18.2 g	20.4 g	DO 10-26-04	SAS 10-27-04
741-00019-133	RHS-S04-100904	1	3	DO 10-19-04	--	9.1 g	147.5 g	DO 10-19-04	ML 10-21-04	1	32.3 g	39.5 g	31.6 g	32.1 g	DO 10-26-04	SAS 10-27-04
741-00019-134	RHS-S05-100904	1	3	DO 10-19-04	--	12.2 g	86.2 g	DO 10-19-04	ML 10-21-04	1	13.5 g	21.3 g	22.3 g	24.8 g	DO 10-26-04	SAS 10-27-04
741-00019-135	RHS-S06-100904	1	3	DO 10-19-04	--	6.8 g	82.2 g	DO 10-19-04	ML 10-21-04	1	19.3 g	18.1 g	18.1 g	19.4 g	DO 10-26-04	SAS 10-27-04
741-00019-136	RHS-S07-100904	1	3	DO 10-19-04	--	3.0 g	78.1 g	DO 10-19-04	ML 10-21-04	1	12.3 g	21.7 g	17.3 g	17.7 g	DO 10-26-04	SAS 10-27-04
741-00019-137	RHS-S08-100904	1	3	DO 10-19-04	--	15.6 g	104.4 g	DO 10-19-04	ML 10-21-04	1	25.1 g	21.5 g	24.2 g	24.4 g	DO 10-26-04	SAS 10-27-04
741-00019-138	RHS-S106-100904	1	3	DO 10-19-04	--	3.1 g	32.7 g	DO 10-19-04	ML 10-21-04	1	4.7 g	8.9 g	7.7 g	7.7 g	DO 10-26-04	SAS 10-27-04

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Sample Preparation Log Sheet

Prep Batch ID: 1

(TECHNICAL STANDART OPERATION PROCEDURE, SOIL SAMPLE PREPARATION – Revision Number 4)

Sheet No. 7

Index Identification Name	Notes: Original Sample Identification or other descriptor as appropriate.	Batch Number	Dry Batch ID	Archive Sample Splitting	Duplicate Sample Splitting	Sieving			Sample Grinding		Sample Splitting					QC
						Sample Mass (g)	Sample Mass (g)	Initials and Date	Initials and Date	Grinder #	Sample Mass (g)				Initials and Date	Initial and Date
				Initials and Date	Initials and Date	Fraction >1/4"	Fraction <1/4"				FG1	FG2	FG3	FG4		
741-00019-139	SVB-CS01-100904	1	3	DO 10-19-04	--	4.8 g	223.7 g	DO 10-19-04	ML 10-21-04	1	50.1 g	50.6 g	55.2 g	56.4 g	DO 10-26-04	SAS 10-27-04
741-00019-140	SVB-S01-100904	1	3	DO 10-19-04	--	1.7 g	239.5 g	DO 10-19-04	ML 10-21-04	1	64.5 g	51.6 g	52.1 g	58.6 g	DO 10-26-04	SAS 10-27-04
741-00019-222	LAB-DUP08-101104 Duplicate of SVB-S01-100904	1	3	--	DO 10-19-04	0.0 g	133.1 g	DO 10-19-04	ML 10-18-04	1	33.0 g	30.4 g	31.8 g	26.1 g	DV 10-26-04	SAS 10-27-04
741-00019-141	SVB-S02-100904	1	3	DO 10-19-04	--	0.0 g	218.7 g	DO 10-19-04	ML 10-21-04	1	50.6 g	54.0 g	53.8 g	45.6 g	DV 10-26-04	SAS 10-27-04
741-00019-142	SVB-S03-100904	1	3	DO 10-19-04	--	0.0 g	246.4 g	DO 10-19-04	ML 10-21-04	1	55.5 g	57.8 g	51.6 g	64.1 g	DV 10-26-04	SAS 10-27-04
741-00019-143	SVB-S04-100904	1	3	DO 10-19-04	--	0.0 g	312.2 g	DO 10-19-04	ML 10-21-04	1	76.3 g	73.1 g	78.1 g	68.1 g	DV 10-26-04	SAS 10-27-04
741-00019-144	SVB-S05-100904	1	3	DO 10-19-04	--	0.0 g	373.9 g	DO 10-19-04	ML 10-21-04	1	82.2 g	99.7 g	82.6 g	83.0 g	DV 10-26-04	SAS 10-27-04
741-00019-145	SVB-S06-100904	1	3	DO 10-19-04	--	4.6 g	176.5 g	DO 10-19-04	ML 10-21-04	1	39.0 g	39.4 g	34.9 g	46.9 g	DV 10-26-04	SAS 10-27-04
741-00019-146	SVB-S07-100904	1	3	DO 10-19-04	--	1.8 g	310.3 g	DO 10-19-04	ML 10-21-04	1	73.5 g	62.1 g	77.1 g	74.6 g	DV 10-26-04	SAS 10-27-04
741-00019-147	SVB-S08-100904	1	3	DO 10-19-04	--	1.0 g	282.9 g	DO 10-19-04	ML 10-21-04	1	65.8 g	67.8 g	69.7 g	65.6 g	DV 10-26-04	SAS 10-27-04
741-00019-148	SVB-S09-100904	1	3	DO 10-19-04	--	0.0 g	370.5 g	DO 10-19-04	ML 10-21-04	1	91.4 g	92.1 g	73.3 g	93.8 g	DV 10-26-04	SAS 10-27-04
741-00019-149	SVB-S10-100904	1	3	DO 10-19-04	--	0.0 g	432.3 g	DO 10-19-04	ML 10-21-04	1	102.2 g	102.2 g	101.7 g	105.8 g	DV 10-26-04	SAS 10-27-04
741-00019-150	SVB-S106-100904	1	3	DO 10-19-04	--	5.7 g	154.1 g	DO 10-19-04	ML 10-21-04	1	35.7 g	39.2 g	34.9 g	34.8 g	DV 10-26-04	SAS 10-27-04
741-00019-151	JSB-CS01-101004	1	4	PB 10-20-04	--	21.2 g	326.7 g	DV 10-20-04	ML 10-22-04	1	75.0 g	73.2 g	75.3 g	78.7 g	DV 10-27-04	SAS 10-28-04
741-00019-152	JSB-S01-101004	1	4	PB 10-20-04	--	24.3 g	131.4 g	DV 10-20-04	ML 10-22-04	1	27.6 g	31.3 g	28.0 g	30.8 g	DV 10-27-04	SAS 10-28-04
741-00019-153	JSB-S02-101004	1	4	PB 10-20-04	--	2.7 g	292.1 g	DV 10-20-04	ML 10-22-04	1	66.7 g	61.4 g	66.3 g	74.6 g	DV 10-27-04	SAS 10-28-04
741-00019-154	JSB-S03-101004	1	4	PB 10-20-04	--	54.4 g	198.4 g	DV 10-20-04	ML 10-22-04	1	41.3 g	49.1 g	46.0 g	45.7 g	DV 10-27-04	SAS 10-28-04
741-00019-155	JSB-S04-101004	1	4	PB 10-20-04	--	11.9 g	345.6 g	DV 10-20-04	ML 10-22-04	1	70.3 g	66.6 g	82.2 g	93.3 g	DV 10-27-04	SAS 10-28-04
741-00019-156	JSB-S05-101004	1	4	PB 10-20-04	--	9.6 g	378.3 g	DV 10-20-04	ML 10-22-04	1	85.0 g	82.7 g	86.4 g	81.6 g	DV 10-27-04	SAS 10-28-04
741-00019-157	JSB-S06-101004	1	4	PB 10-20-04	--	19.0 g	308.5 g	DV 10-20-04	ML 10-22-04	1	71.2 g	74.5 g	66.3 g	70.8 g	DV 10-27-04	SAS 10-28-04
741-00019-158	JSB-S07-101004	1	4	PB 10-20-04	--	37.2 g	343.8 g	DV 10-20-04	ML 10-22-04	1	77.6 g	74.8 g	74.7 g	87.9 g	DV 10-27-04	SAS 10-28-04
741-00019-159	JSB-S101-101004	1	4	PB 10-20-04	--	16.7 g	176.7 g	DV 10-20-04	ML 10-22-04	1	44.6 g	41.0 g	36.4 g	41.8 g	DV 10-27-04	SAS 10-28-04
741-00019-160	JSG-CS01-101004	1	4	PB 10-20-04	--	47.2 g	285.9 g	DV 10-20-04	ML 10-22-04	1	54.7 g	61.8 g	71.2 g	68.4 g	DV 10-27-04	SAS 10-28-04

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Sample Preparation Log Sheet

Prep Batch ID: 1

(TECHNICAL STANDART OPERATION PROCEDURE, SOIL SAMPLE PREPARATION – Revision Number 4)

Sheet No. 8

Index Identification Name	Notes: Original Sample Identification or other descriptor as appropriate.	Batch Number	Dry Batch ID	Archive Sample Splitting	Duplicate Sample Splitting	Sieving			Sample Grinding		Sample Splitting					QC
						Sample Mass (g)	Sample Mass (g)	Initials and Date	Initials and Date	Grinder #	Sample Mass (g)				Initials and Date	Initial and Date
				Initials and Date	Initials and Date	Fraction >1/4"	Fraction <1/4"				FG1	FG2	FG3	FG4		
741-00019-223	LAB-DUP09-101104 Duplicate of JSG-CS01-101004	1	4	--	PB 10-20-04	20.5 g	171.5 g	DV 10-20-04	ML 10-22-04	1	38.7 g	41.2 g	46.0 g	32.7 g	DV 10-27-04	SAS 10-28-04
741-00019-161	JSG-S01-101004	1	4	PB 10-20-04	--	11.1 g	239.6 g	DV 10-20-04	ML 10-22-04	1	56.8 g	55.6 g	61.7 g	52.6 g	DV 10-26-04	SAS 10-27-04
741-00019-162	JSG-S02-101004	1	4	PB 10-20-04	--	74.2 g	221.3 g	DV 10-20-04	ML 10-22-04	1	54.2 g	51.5 g	47.2 g	52.1 g	DV 10-26-04	SAS 10-27-04
741-00019-163	JSG-S03-101004	1	4	PB 10-20-04	--	26.2 g	197.8 g	DV 10-20-04	ML 10-22-04	1	47.1 g	46.1 g	49.1 g	42.6 g	DV 10-26-04	SAS 10-27-04
741-00019-164	JSG-S04-101004	1	4	PB 10-20-04	--	58.8 g	220.0 g	DV 10-20-04	ML 10-22-04	1	52.7 g	50.6 g	56.1 g	48.3 g	DV 10-26-04	SAS 10-27-04
741-00019-165	JSG-S05-101004	1	4	PB 10-20-04	--	0.0 g	372.9 g	DV 10-20-04	ML 10-22-04	1	77.2 g	81.8 g	99.2 g	91.8 g	DV 10-26-04	SAS 10-27-04
741-00019-166	JSG-S06-101004	1	4	PB 10-20-04	--	8.0 g	160.5 g	DV 10-20-04	ML 10-22-04	1	40.0 g	37.1 g	34.2 g	39.4 g	DV 10-26-04	SAS 10-27-04
741-00019-167	JSG-S07-101004	1	4	PB 10-20-04	--	64.2 g	184.1 g	DV 10-20-04	ML 10-22-04	1	44.0 g	41.6 g	38.3 g	53.4 g	DV 10-26-04	SAS 10-27-04
741-00019-168	JSG-S08-101004	1	4	PB 10-20-04	--	6.0 g	164.8 g	DV 10-20-04	ML 10-22-04	1	41.8 g	42.8 g	40.1 g	33.1 g	DV 10-26-04	SAS 10-27-04
741-00019-169	JSG-S09-101004	1	4	PB 10-20-04	--	4.1 g	204.0 g	MW 10-20-04	ML 10-22-04	1	49.4 g	46.5 g	48.3 g	49.8 g	DV 10-26-04	SAS 10-27-04
741-00019-170	JSG-S107-101004	1	4	PB 10-20-04	--	95.5 g	219.4 g	MW 10-20-04	ML 10-22-04	1	57.7 g	43.8 g	59.1 g	45.5 g	DV 10-26-04	SAS 10-27-04
741-00019-171	JSS-CS01-101004	1	4	PB 10-20-04	--	1.9 g	278.2 g	MW 10-20-04	ML 10-23-04	1	59.7 g	61.7 g	69.1 g	69.1 g	DV 10-26-04	SAS 10-27-04
741-00019-172	JSS-S01-101004	1	4	PB 10-20-04	--	0.8 g	268.1 g	MW 10-20-04	ML 10-23-04	1	69.1 g	57.6 g	59.7 g	59.6 g	DV 10-26-04	SAS 10-27-04
741-00019-173	JSS-S02-101004	1	4	PB 10-20-04	--	0.0 g	210.6 g	MW 10-20-04	ML 10-23-04	1	51.6 g	47.4 g	45.7 g	47.3 g	DV 10-26-04	SAS 10-27-04
741-00019-174	JSS-S03-101004	1	4	PB 10-20-04	--	0.0 g	224.3 g	MW 10-20-04	ML 10-23-04	1	50.8 g	61.4 g	52.2 g	45.3 g	DV 10-26-04	SAS 10-27-04
741-00019-175	JSS-S04-101004	1	4	PB 10-20-04	--	0.0 g	114.6 g	MW 10-20-04	ML 10-23-04	1	27.4 g	31.3 g	27.8 g	20.8 g	DV 10-26-04	SAS 10-27-04
741-00019-176	JSS-S05-101004	1	4	PB 10-20-04	--	0.0 g	186.6 g	MW 10-20-04	ML 10-23-04	1	43.8 g	41.2 g	41.1 g	41.8 g	DV 10-27-04	SAS 10-28-04
741-00019-177	JSS-S06-101004	1	4	PB 10-20-04	--	3.1 g	221.8 g	MW 10-20-04	ML 10-23-04	1	49.5 g	56.6 g	50.4 g	46.2 g	DV 10-27-04	SAS 10-28-04
741-00019-178	JSS-S07-101004	1	4	PB 10-20-04	--	0.2 g	251.0 g	MW 10-20-04	ML 10-23-04	1	57.0 g	57.0 g	56.5 g	56.5 g	DV 10-27-04	SAS 10-28-04
741-00019-179	DPA-CS01-101104	1	4	PB 10-20-04	--	36.5 g	262.7 g	MW 10-20-04	ML 10-23-04	1	51.1 g	51.4 g	66.8 g	61.8 g	DV 10-27-04	SAS 10-28-04
741-00019-180	DPA-S01-101104	1	4	PB 10-20-04	--	61.4 g	267.0 g	MW 10-20-04	ML 10-23-04	1	59.4 g	58.3 g	61.4 g	60.2 g	DV 10-27-04	SAS 10-28-04
741-00019-224	LAB-DUP10-101104 Duplicate of DPA-S01-101104	1	4	--	PB 10-20-04	38.8 g	126.3 g	MW 10-20-04	ML 10-23-04	1	26.9 g	27.2 g	29.0 g	28.7 g	DV 10-27-04	SAS 10-28-04
741-00019-181	DPA-S1A3-101104	1	4	PB 10-20-04	--	39.0 g	229.0 g	MW 10-20-04	ML 10-23-04	1	49.9 g	53.7 g	51.2 g	48.3 g	DV 10-27-04	SAS 10-28-04

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Sample Preparation Log Sheet

Prep Batch ID: 1

(TECHNICAL STANDART OPERATION PROCEDURE, SOIL SAMPLE PREPARATION – Revision Number 4)

Sheet No. 9

Index Identification Name	Notes: Original Sample Identification or other descriptor as appropriate.	Batch Number	Dry Batch ID	Archive Sample Splitting	Duplicate Sample Splitting	Sieving			Sample Grinding		Sample Splitting					QC
						Sample Mass (g)	Sample Mass (g)	Initials and Date	Initials and Date	Grinder #	Sample Mass (g)				Initials and Date	Initial and Date
				Initials and Date	Initials and Date	Fraction >1/4"	Fraction <1/4"				FG1	FG2	FG3	FG4		
741-00019-182	DPA-SA1-101104	1	4	PB 10-20-04	--	74.6 g	336.7 g	MW 10-20-04	ML 10-23-04	1	68.3 g	69.1 g	67.3 g	80.3 g	DV 10-27-04	SAS 10-28-04
741-00019-183	DPA-SA2-101104	1	4	PB 10-20-04	--	24.2 g	379.3 g	MW 10-20-04	ML 10-23-04	1	84.4 g	89.0 g	81.9 g	86.8 g	DV 10-27-04	SAS 10-28-04
741-00019-184	DPA-SA3-101104	1	4	PB 10-20-04	--	23.1 g	201.0 g	MW 10-20-04	ML 10-23-04	1	40.1 g	43.7 g	43.3 g	47.8 g	DV 10-27-04	SAS 10-28-04
741-00019-220	LAB-DUP06-101104 Duplicate of DPA-SA3-101104	1	4	--	PB 10-20-04	22.7 g	77.0 g	MW 10-20-04	ML 10-23-04	1	17.2 g	16.9 g	12.7 g	18.9 g	DV 10-27-04	SAS 10-28-04
741-00019-185	LAB-BL01-101104 (Drying blank)	--	1	--	--	0.0 g	100.5 g	PB 10-15-04	ML 10-15-04	1	24.6 g	19.2 g	22.6 g	22.5 g	MW 10-20-04	SAS 10-21-04
741-00019-186	LAB-BL02-101104 (Grinding blank)	--	--	--	--	--	--	--	ML 10-16-04	1	40.2 g	40.5 g	37.1 g	42.4 g	DV 10-26-04	SAS 10-27-04
741-00019-187	LAB-BL03-101104 (Grinding blank)	--	--	--	--	--	--	--	ML 10-16-04	1	35.5 g	40.5 g	37.5 g	41.5 g	DV 10-26-04	SAS 10-27-04
741-00019-188	LAB-BL04-101104 (Grinding blank)	--	--	--	--	--	--	--	ML 10-17-04	1	43.4 g	45.2 g	32.5 g	34.9 g	MW 10-25-04	SAS 10-26-04
741-00019-189	LAB-BL05-101104 (Grinding blank)	--	--	--	--	--	--	--	ML 10-20-04	1	46.1 g	32.2 g	29.3 g	50.7 g	DV 10-27-04	SAS 10-28-04
741-00019-190	LAB-BL06-101104 (Grinding blank)	--	--	--	--	--	--	--	ML 10-18-04	1	38.9 g	38.7 g	34.5 g	45.8 g	DV 10-25-04	SAS 10-26-04
741-00019-191	LAB-BL07-101104 (Grinding blank)	--	--	--	--	--	--	--	ML 10-15-04	1	61.8 g	17.4 g	40.8 g	40.8 g	DO 10-21-04	SAS 10-22-04
741-00019-192	LAB-BL08-101104 (Drying blank)	--	2	--	--	0.0 g	85.4 g	DO 10-17-04	ML 10-17-04	1	16.8 g	21.0 g	21.3 g	20.4 g	MW 10-25-04	SAS 10-26-04
741-00019-193	LAB-BL09-101104 (Drying blank)	--	2	--	--	0.0 g	99.6 g	DO 10-17-04	ML 10-17-04	1	24.0 g	21.6 g	24.6 g	22.4 g	MW 10-25-04	SAS 10-26-04
741-00019-194	LAB-BL10-101104 (Drying blank)	--	3	--	--	0.0 g	97.6 g	DV 10-18-04	ML 10-18-04	1	21.3 g	24.4 g	23.4 g	21.2 g	MW 10-25-04	SAS 10-26-04
741-00019-195	LAB-BL11-101104 (Drying blank)	--	3	--	--	0.0 g	92.3 g	DV 10-18-04	ML 10-18-04	1	25.4 g	21.8 g	18.5 g	19.5 g	MW 10-25-04	SAS 10-26-04
741-00019-196	LAB-BL12-101104 (Drying blank)	--	4	--	--	0.0 g	84.7 g	DV 10-20-04	ML 10-22-04	1	14.4 g	19.2 g	21.9 g	23.3 g	DV 10-27-04	SAS 10-28-04
741-00019-197	LAB-BL13-101104 (Drying blank)	--	4	--	--	0.0 g	92.6 g	DV 10-20-04	ML 10-22-04	1	22.2 g	20.5 g	21.9 g	21.5 g	DV 10-27-04	SAS 10-28-04
741-00019-198	LAB-BL14-101104 (Grinding blank)	--	--	--	--	--	--	--	ML 10-22-04	1	43.5 g	38.8 g	41.2 g	48.2 g	DV 10-27-04	SAS 10-28-04
741-00019-199	LAB-BL15-101104 (Grinding blank)	--	--	--	--	--	--	--	ML 10-21-04	1	45.0 g	41.4 g	46.9 g	43.0 g	DV 10-26-04	SAS 10-27-04
741-00019-200	LAB-BL16-101104 (Grinding blank)	--	--	--	--	--	--	--	ML 10-23-04	1	45.6 g	45.4 g	39.9 g	52.6 g	DV 10-27-04	SAS 10-28-04

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Preparation of Soil Samples Quantitatively Mixed with Tremolite and Chrysotile Asbestos

Equipment and Materials

- NIST SRM Tremolite Asbestos
- NIST SRM Chrysotile Asbestos
- Local soil from Chatham County, NC
- Multi-speed blender
- Stirring utensils
- Metal drying pans
- Ultraviolet drying lamps
- Hot plate

Two batches of asbestos in soil were created; one batch contained 0.5% each of chrysotile and tremolite, and the other contained 2% each of chrysotile and tremolite. A total of one hundred grams was the target weight for each of the two sample batches. For the sample concentration of 0.5%, 99 grams of dried soil was weighed, and 0.5 grams of each asbestos SRM was weighed for mixing. In the case of the 2.0% concentration sample, 96.0 grams of dried soil was used and 2.0 grams each of the two asbestos types were weighed for mixing.

Once all components were weighed, 8 oz. of distilled water was poured into the blender jar and the two asbestos types were mixed on the highest setting for 30 seconds, the soil was then added and the components were blended together for another 45 seconds for the 0.5% concentration and another 60 seconds of blending for the 2.0% sample. Each of these wet mixtures was then poured into a drying pan and labeled as to their asbestos concentration and dried under heat lamps and on hot plates until completely dry.

The materials were then packaged into plastic vials and labeled according to their concentration. Aliquots from each vial were used to make quantitation slides for visual estimates and for point count slides. The results of quantitation are shown below.

Quantitation of Asbestos/Soil Mixtures		
Concentration	Visual Estimate Result	Point Count Result
0.5% Chrysotile + 0.5% Tremolite	0.47% Chrysotile 0.59% Tremolite	1.4% Chrysotile 1.2% Tremolite
2% Chrysotile + 2% Tremolite	1.85% Chrysotile 2.92% Tremolite	4.7% Chrysotile 3.9% Tremolite

Thickness differences between the soil matrix particles and the asbestos bundles are speculated to have caused the biased high results on the point counts.

Production date: October 6, 2004
Produced for: Steve Remaly, Region 9 USEPA, telephone 415-972-3802, email Remaley.Steve@epamail.epa.gov
Produced by: Owen Crankshaw, RTI International, P.O. Box 12194, Research Triangle Park, NC, 27709, telephone 919-541-7470, email osc@rti.org

	First filter		Mid filter		Last filter		All filters	
	Chrys.		Chrys.		Chrys.		Chrys.	
	5		4		6		5	
	4		4		4		4	
	3		4		4		3	
	4		4		5		4	
	2		3		6		2	
	3		7		3		3	
	1		5		7		1	
	3		3		1		3	
	6		7		2		6	
	2		1		4		2	
	5		7		5		5	
	4		6		4		4	
	8		4		6		8	
	5		2		4		5	
	1		3		3		1	
	5		8		8		5	
	2		4		2		2	
	8		1		7		8	
	7		6		4		7	
	5		5		5		5	
							4	
Total	83		88		90		4	
Average structures/g.o.	4.15		4.4		4.5		4	
Std. Dev. structures/g.o.	2.1		2.0		1.8		4	
95 CI low structures/g.o.	0.0		0.4		0.9		3	
95 CI high structures/g.o.	8.3		8.4		8.1		7	
Ave. structures/mm2	446		473		483		5	
95 CI low structures/mm2	0		46		92		3	
95 CI high structures/mm2	894		899		875		7	
							1	
							7	
							6	
	By grid (n=6)						4	
	Chr						2	
	33						3	
	50						8	
	42						4	
	46						1	
	42						6	
	48						5	
Total	261						6	
Ave. structures/10 g.o.	43.5						4	
Std dev. Structures/10 g.o.	6.1						4	
95 CI low structures/10 g.o.	31.4						5	
95 CI high structures/10 g.o.	55.6						6	
							3	
							7	
							1	
							2	
							4	
							5	
							4	
							6	
							4	
							3	
							8	
							2	
							7	
							4	
							5	
							261	Total
							4.35	Average structures/g.o.
							1.94	Std. Dev. structures/g.o.
							0.5	95 CI low structures/g.o.
							8.2	95 CI high structures/g.o.
							467	Ave. structures/mm2
							51	95 CI low structures/mm2
							884	95 CI high structures/mm2

	First filter		Mid filter		Last filter		All filters	
	Trem.		Trem.		Trem.		Trem.	
	6		2		1		6	
	1		1		3		1	
	3		5		3		3	
	4		2		2		4	
	5		3		2		5	
	5		2		1		5	
	3		3		5		3	
	6		2		2		6	
	2		3		3		2	
	1		3		3		1	
	2		6		2		2	
	9		5		3		9	
	3		9		4		3	
	4		3		1		4	
	4		3		5		4	
	5		5		2		5	
	2		3		3		2	
	3		3		3		3	
	3		3		4		3	
	1		3		3		1	
							2	
Total	72		69		55		1	
Average structures/g.o.	3.6		3.45		2.75		5	
Std. Dev. structures/g.o.	2.0		1.8		1.2		2	
95 CI low structures/g.o.	0.0		0.0		0.4		3	
95 CI high structures/g.o.	7.6		7.0		5.1		2	
Ave. structures/mm2	387		371		295		3	
95 CI low structures/mm2	0		0		45		2	
95 CI high structures/mm2	819		755		545		3	
							3	
							6	
							5	
	By grid (n=6)						9	
	Trem						3	
	36						3	
	36						5	
	26						3	
	43						3	
	25						3	
	30						3	
Total	196						1	
Ave. structures/10 g.o.	32.7						3	
Std dev. Structures/10 g.o.	6.9						3	
95 CI low structures/10 g.o.	18.8						2	
95 CI high structures/10 g.o.	46.5						2	
							1	
							5	
							2	
							3	
							3	
							2	
							3	
							4	
							1	
							5	
							2	
							3	
							3	
							4	
							3	
							196	Total
							3.27	Average structures/g.o.
							1.71	Std. Dev. structures/g.o.
							0.0	95 CI low structures/g.o.
							6.7	95 CI high structures/g.o.
							351	Ave. structures/mm2
							0	95 CI low structures/mm2
							717	95 CI high structures/mm2