

Wickham, Jerry, Env. Health

From: Wickham, Jerry, Env. Health
Sent: Thursday, November 10, 2011 9:20 AM
To: 'Peter Langtry'
Cc: nallen@sandis.net; Miller, Charles GSA - Technical Service Department
Subject: RE: Ashland Youth Center Import Source

Based on these results, I have no objection to use of the material for fill at the Ashland Youth Center site.

Regards,
Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
phone: 510-567-6791
jerry.wickham@acgov.org

From: Peter Langtry [<mailto:plangtry@cornerstoneearth.com>]
Sent: Thursday, November 10, 2011 9:15 AM
To: Wickham, Jerry, Env. Health
Cc: nallen@sandis.net; Miller, Charles GSA - Technical Service Department
Subject: RE: Ashland Youth Center Import Source

Hello Jerry, we received the asbestos result yesterday evening. The report is attached – no asbestos was detected above the 0.25 percent detection limit.

Sincerely,

Peter Langtry, P.G., C.E.G.
Principal Geologist



2737 North Main Street, Unit 10 | Walnut Creek, CA 94597
T 925-988-9500, Ext. 11 | F 925-988-9501
C 925.817.8814
E plangtry@cornerstoneearth.com

From: Wickham, Jerry, Env. Health [<mailto:jerry.wickham@acgov.org>]
Sent: Thursday, November 10, 2011 9:12 AM
To: Peter Langtry
Cc: nallen@sandis.net; Miller, Charles GSA - Technical Service Department
Subject: RE: Ashland Youth Center Import Source

Peter,

I concur that the samples material appears to be acceptable for use as fill at the Ashland Youth Center site based on the analytical results for metals, pending asbestos analysis results.

Regards,

Jerry Wickham

Alameda County Environmental Health

1131 Harbor Bay Parkway

Alameda, CA 94502-6577

phone: 510-567-6791

jerry.wickham@acgov.org

From: Peter Langtry [<mailto:plangtry@cornerstoneearth.com>]

Sent: Wednesday, November 09, 2011 9:12 AM

To: Wickham, Jerry, Env. Health

Cc: nallen@sandis.net; Miller, Charles GSA - Technical Service Department

Subject: Ashland Youth Center Import Source

Hello Jerry, the analytical results and a map showing the locations of the samples provided by the contractor are attached. The volume of material to be imported is approximately 5,800 cubic yards. We expect to receive the results of the asbestos analysis later today or tomorrow.

The analytical results are for samples collected September 2010, but the contractor reported that the soil planned for import to the Ashland Youth Center is from the same source that was sampled.

Because the soil is from virgin quarry material from a commercial source, the analytical results appear acceptable for use as fill at the Ashland site, pending results of the asbestos analysis.

Sincerely,

Peter Langtry, P.G., C.E.G.
Principal Geologist



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ASBESTOS TEM LABORATORIES, INC.

**CARB Method 435
Polarized Light Microscopy
Analytical Report**

Laboratory Job # 1355-00005

630 Bancroft Way
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429



ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866



NVLAP Lab Code: 101891-0
Berkeley, CA

Nov/09/2011

Sarah Kalika
Cornerstone Earth Group
2737 N. main St., Suite 10
Walnut Creek, CA 94597

RE: LABORATORY JOB # 1355-00005

Polarized light microscopy analytical results for 1 bulk sample(s).

Job Site: 165-11-1

Job No.: Ashland Youth Center

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

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.

Sample preparation follows a standard CARB 435 prep method. The entire sample is dried at 135-150 C and then crushed to ~3/8" gravel size using a Bico Chipmunk crusher. If the submitted sample is >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, is then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. If necessary, additional homogenization steps are undertaken using a 3/8" riffle splitter. Small aliquots are collected from throughout the pulverized material to create three separate microscope slide mounts containing the appropriate refractive index oil. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. If asbestos is identified and of less than 10% concentration by visual area estimate then an additional five sample mounts are prepared. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed to contain visible asbestos of less than 10% concentration, a point counting technique is used with 50 points counted on each of eight sample mounts for a total of 400 points. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

While the CARB 435 method has much to commend it, there are a number of situations where it fails to provide sufficient accuracy to make a definitive determination of the presence/absence of asbestos and/or an accurate count of the asbestos concentration present in a given sample. These problems include, but are not limited to, 1) statistical uncertainty with samples containing <1% asbestos when too few particles are counted, 2) definitive identification and discrimination between various fibrous amphibole minerals such as tremolite/actinolite/hornblende and the "Libby amphiboles" such as tremolite/winchite/richterite/arfvedsonite, and C) small asbestiform fibers which are near or below the resolution limit of the PLM microscope such as those found in various California coast range serpentine bodies. In these cases, further analysis by transmission electron microscopy is recommended to obtain a more accurate result.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, without the approval of the laboratory. ---

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With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431

POLARIZED LIGHT MICROSCOPY CARB 435 ANALYTICAL REPORT

| | | |
|--|---|---------------------------|
| Contact: Sarah Kalika | Samples Submitted: 1 | Report No. 305671 |
| Address: Cornerstone Earth Group 2737 N. main St., Suite 10 Walnut Creek, CA | Samples Analyzed: 1 | Date Submitted: Nov-04-11 |
| | Job Site / No. Ashland Youth Center 165-11-1 | Date Reported: Nov-09-11 |

| SAMPLE ID | POINTS COUNTED | ASBESTOS % | TYPE | LOCATION / DESCRIPTION |
|-------------------------|---------------------------|------------------|----------------------|--|
| 1 | | <0.25% | None Detected | Dumbarton Quarry proposed import. |
| Lab ID # 1355-00005-001 | 400 - Total Points | | | No Point Count Performed - ARB Exception I |
| Lab ID # | - Total Points | | | |
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| Lab ID # | - Total Points | | | |

QC Reviewer Melisa Grozman

Analyst Jo Ann Hunter



ASBESTOS TEM LABORATORIES CHAIN OF CUSTODY

CALIFORNIA: 630 Bancroft Way, Berkeley, CA 94710 Ph (510) 704-8930 Fax (510) 704-8429
NEVADA: 1350 Freeport Blvd. #104, Sparks, NV 89431 Ph (775) 359-3377 Fax (775) 359-2798

| Contact Information | | | Asbestos Bulk | Asbestos Soils | |
|---|------------------------------------|--------------------------------------|--|---|--|
| Company CORNERSTONE EARTH GROUP | | | <input type="checkbox"/> PLM Standard (EPA 600/R-93-116) | <input type="checkbox"/> CARB 435 P.ec Only | |
| Contact SARAH KALKA | | | <input type="checkbox"/> EPA 400 Point C1 <input type="checkbox"/> EPA 1000 Point C1 | <input checked="" type="checkbox"/> CARB 435 P_M 400 Point C1 | |
| Phone/Fax 925-988-9500 | | | <input type="checkbox"/> EPA 400 P.C. Grav. <input type="checkbox"/> EPA 1000 P.C. Grav. | <input type="checkbox"/> CARB 435 P_M 1000 Point C1 | |
| Email skalika@cornerstoneearth.com | | | <input type="checkbox"/> TEM EPA Qualitative | <input type="checkbox"/> EPA Soil Screening Qualitative | |
| Address 2737 N. Main St. Suite #10 | | | <input type="checkbox"/> TEM EPA Quantitative | <input type="checkbox"/> EPA Soil Screening Quantitative | |
| City Walnut Creek State CA Zip 94597 | | | <input type="checkbox"/> TEM Chetfield (Semi-Quantitative) | <input type="checkbox"/> TEM EPA/CARB Quantitative | |
| Country | | | <input type="checkbox"/> PLM Amphiboles Vermiculite Attic Insulation | <input type="checkbox"/> PLM SRC-Libby-03 <input type="checkbox"/> TEM SRC-Libby-07 | |
| Project Information | | | <input type="checkbox"/> XRD Qualitative <input type="checkbox"/> XRD Quantitative | Asbestos Dust | |
| Job Site ASHLAND Youth Center | | | Asbestos Air | <input type="checkbox"/> ASTM D-5755 Fiber Count | |
| Job No 165-11-1 | | | <input type="checkbox"/> PCM (N OSH 7400A) | <input type="checkbox"/> ASTM D-5756 Wt% | |
| P.O. No | | | <input type="checkbox"/> TEM AHERA | <input type="checkbox"/> ASTM D-5756 Mass | |
| * Contact lab to verify fastest turnaround time possible | | | <input type="checkbox"/> TEM CARB Mod. AHERA | <input type="checkbox"/> ASTM D-6840-99 Dust Wipe | |
| Reporting Methods | Billing Methods | Turnaround Time* | | <input type="checkbox"/> TEM EPA Yamato Level II | Asbestos Water |
| <input type="checkbox"/> Fax | <input type="checkbox"/> Fax | <input type="checkbox"/> 2 hrs | <input type="checkbox"/> 48 hrs | <input type="checkbox"/> TEM N OSH 7402, Issue 2 | <input type="checkbox"/> 100.2 Potable Drinking Water |
| <input type="checkbox"/> Phone | <input type="checkbox"/> Email | <input type="checkbox"/> 4 hrs | <input checked="" type="checkbox"/> 3 days | <input type="checkbox"/> ISO 10312 <input type="checkbox"/> ISO 13794 | <input type="checkbox"/> 100.2 Non Potable (Surface/Groundwater) |
| <input type="checkbox"/> Email | <input type="checkbox"/> Mail | <input type="checkbox"/> 6 hrs | <input type="checkbox"/> 4 days | Silica (NIOSH 7500 or OSHA 142) | <input type="checkbox"/> 100.2 Wastewater/Sludge |
| <input type="checkbox"/> Mail | <input type="checkbox"/> Pre-Paid | <input type="checkbox"/> 8 hrs | <input type="checkbox"/> 5 days | <input type="checkbox"/> XRD Qualitative | <input type="checkbox"/> Total Particulates |
| <input type="checkbox"/> Online | <input type="checkbox"/> 3rd Party | <input type="checkbox"/> 24 hrs | <input type="checkbox"/> 10 days | <input type="checkbox"/> XRD Quantitative | Lead |
| <input type="checkbox"/> EDD/State Form | | <input type="checkbox"/> Time due by | | Lead Waste Characterization | <input type="checkbox"/> Paint Chips |
| Special Instructions | | | <input type="checkbox"/> TTLC | <input type="checkbox"/> Dust Wipe | |
| | | | <input type="checkbox"/> STLC | <input type="checkbox"/> Air Cassette | |
| | | | <input type="checkbox"/> TC..P | <input type="checkbox"/> Soil | |
| Sample ID | Date Collected | Time (min) | Flow Rate (LPM) | Volume/ Area Sampled | Description |
| Dumbarton Quarry Proposed Import | 11/3/11 | | | | |
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| Submitted By [Signature] | | | Received By | | |
| Date/Time Submitted 11-04-11 10:05:08 AM | | | Date/Time Received 11-04-11 10:05:08 AM | | |
| Submitted By | | | Received By A TEM IRAP 28 | | |
| Date/Time Submitted | | | Date/Time Received | | |