

**APPENDIX G - ASBESTOS INSPECTION REPORT/  
PHASE 1 SITE ASSESSMENT**



# ASBESTOS INSPECTION REPORT

AUGUST 3, 2020

BEM PROJECT NO. 20-44881

Site  
**Residential**  
**23450 Route 26**  
**Linden, CA 95236**

Prepared For  
**Mr. Aaron Riojas**  
**Stockton East Water District**  
**6767 East Main Street**  
**Stockton, CA**

Prepared By

**BOVEE ENVIRONMENTAL MANAGEMENT, INC.**  
1900 McHenry Ave., Ste 201, Escalon, CA 95320  
Escalon 209-847-3800 • Fresno 559-264-3800 • Bakersfield 661-246-2110 • Sacramento 916-564-3838

August 3, 2020

Mr. Aaron Riojas  
 Stockton East Water District  
 6767 East Main Street  
 Stockton, CA

Mr. Riojas:

Bovee Environmental Management, Inc. (BEM) is pleased to provide this Asbestos Survey Report regarding our asbestos inspection services at the Project Site summarized below.

**I. PROJECT SUMMARY TABLE**

| PROJECT SITE TYPE | PROJECT SITE LOCATION            | PROJECT SITE NOTE |
|-------------------|----------------------------------|-------------------|
| Residential       | 23450 Route 26, Linden, CA 95236 | Demolition        |

| INSPECTION TYPE | INSPECTED AREAS            | INSPECTION DATE |
|-----------------|----------------------------|-----------------|
| Asbestos Survey | House; Interior & Exterior | July 31, 2020   |

**II. INSPECTION SUMMARY**

Samples of building materials considered to be *suspect asbestos containing materials\** were identified and collected from the inspected areas referenced above to determine their asbestos content. Through proper chain-of-custody the collected samples are sent to BEM, Inc Laboratories for polarized light microscopy (PLM) analysis. A summary of all materials sampled and corresponding analytical results are listed below. Detailed information regarding sample number, actual sample location and analytical methods can be reviewed in attachments A and B.

**SAMPLE COLLECTION SUMMARY**

\*See definitions on page 2.

| #        | MATERIAL SAMPLED         | MATERIAL LOCATION                   | ASBESTOS       | CATEGORY    | SQ. FT. |
|----------|--------------------------|-------------------------------------|----------------|-------------|---------|
| 44881-01 | Concrete                 | Foundation                          | None Detected  | -           | -       |
| 44881-02 | 9" x 9" VFT              | Floors Throughout                   | 5% Chrysotile  | Category I* | 1,400   |
| 44881-03 | Mastic                   | Floors Throughout                   | 8% Chrysotile  | Category I* | ↑       |
| 44881-04 | Brock Mortar             | Various Walls Throughout            | None Detected  | -           | -       |
| 44881-05 | Brick Mortar             | Various Walls Throughout            | None Detected  | -           | -       |
| 44881-06 | Surface Texture          | Bathroom #2; Walls & Ceiling        | None Detected  | -           | -       |
| 44881-07 | Sheetrock/Joint Compound | Bathroom #2; Walls & Ceiling        | None Detected  | -           | -       |
| 44881-08 | Surface Texture          | Laundry/Bathroom #1; Walls/Ceilings | 2% Chrysotile  | RACM*       | 280     |
| 44881-09 | Sheetrock/Joint Compound | Laundry/Bathroom #1; Walls/Ceilings | <1% Chrysotile | -           | ↑       |
| 44881-10 | Paint                    | Exterior Overhang & Upper Walls     | None Detected  | -           | -       |
| 44881-11 | Penetration Mastic       | Roof Penetrations, Seams & Edges    | None Detected  | -           | -       |
| 44881-12 | Roofing Material         | Roof Top                            | None Detected  | -           | -       |

### III. DEFINITIONS (\*)

Suspect Asbestos Containing Material (ACM) - Local air quality management districts consider a material that is not wood, metal or glass, to be a suspect ACM. All suspect ACMs are assumed to contain asbestos until laboratory analysis confirms that a material has no asbestos content.

Category – ACM’s are classified as either “friable”, material that can be easily crushed or pulverized by normal hand pressure or as “non-friable”, material that cannot be easily crushed or pulverized by normal hand pressure. *Friable ACMs are considered a Regulated Asbestos Containing Material (RACM) requiring Class I work practices and engineering controls. Non-friable ACMs are considered either Category I or Category II Asbestos Containing Material requiring Class II work practices and engineering controls.*

Trace - Analytical result that is equal to or less than 1.0 percent asbestos by weight, but greater than 0.1 percent. Materials with a trace amount of asbestos have to be removed as asbestos containing construction material (ACCM) according to Cal-OSHA, but can be disposed as non-ACM upon point count analyses according to federal and state EPA regulations.

Homogeneous – Multiple samples collected of a suspect material that is similar in general appearance and from areas that appear to have been constructed at the same time are considered homogeneous. If multiple samples are collected from a similar material within a homogeneous area and only one of the multiple samples is found to contain asbestos, regulations mandate that the entirety of that material with the homogeneous area must be considered an ACM.

VFT – Vinyl Floor Tile    TBD – To be determined

### IV. ASBESTOS REGULATORY STANDARDS

#### California Occupational Safety and Health Administration (Cal-OSHA)

- Friable and Non-Friable ACCMs containing more than 0.1 percent asbestos by weight are regulated.
- Enforces regulations pertaining to workers performing ACCM removal and workers in close proximity.
- Contractors who disturb more than 100 square feet or 160 lineal feet of ACCM must be registered by the contractor’s state license board as an asbestos removal contractor.
- Contractors who disturb any amount of ACCM must ensure employee protection by providing accredited training, medical examinations, personal protective equipment and a negative exposure assessment.

#### United States Environmental Protection Agency (EPA)

- Friable and Non-Friable ACMs containing more than 1.0 percent asbestos by weight are regulated.
- Enforces regulations pertaining to protecting the environment, not workers.
- Abatement Contractors who disturb more than 160 square feet or 260 linear feet of ACM must comply with the National Emissions Standards for Hazardous Air Pollutants Asbestos Regulations (40 CFR 61, Subpart M) and all state and federal requirements regarding asbestos.

#### Local Air Quality Control Districts

- Friable and Non-Friable ACM’s containing more than 1.0 percent asbestos by weight are regulated.
- Enforces regulations pertaining to local air quality; “No Visible Air Emissions”.
- Require an asbestos survey prior to renovation or demolition.
- Abatement Contractors who disturb more than 160 square feet or 260 linear feet of ACM must comply with the National Emissions Standards for Hazardous Air Pollutants Asbestos Regulations (40 CFR 61, Subpart M).

### V. RECOMMENDATIONS

BEM recommends compliance with all federal, state and local regulations concerning asbestos.

**VI. WARRANTY**

Samples of suspect asbestos containing building materials, which could be disturbed during construction activities, are collected by BEM. Site inspections and sample collection methodologies are performed to meet regulatory standards and industry protocols. BEM warrants that the findings contained herein have been promulgated in general accordance with accepted professional practices at the time of its preparation as applied by professionals in the community. There is a possibility that conditions may exist in which suspect ACM's could not be identified within the scope of the survey or were not apparent or accessible during the site visit. All scheduled work should cease and additional samples should be collected if unidentified suspect ACM's are discovered during construction activities.

*If quantities of asbestos containing materials are stated in this report, they are supplied for budgetary and regulatory notification purposes only. They should not be relied on for abatement bidding purposes.*

**VII. CERTIFICATION**

Inspection services relative to the Subject Site were provided by BEM's Brett L. Bovee & Anthony J. Miller, California Certified Asbestos Consultants, Number 95-1643, expiration on 03/08/2021 & Number 19-6474, expiration on 04/17/2021.

BEM looks forward to assisting you in the near future. If you have any questions regarding this report or other BEM services, please do not hesitate to call us at (209) 847-3800 or (559) 264-3800.

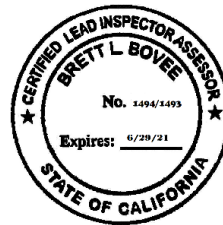
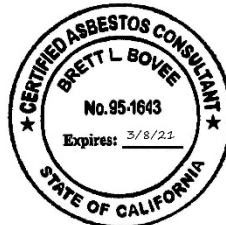
Regards,

*Anthony J. Miller*

Anthony J. Miller  
Certified Asbestos Consultant  
No: 19-6474

*Brett L. Bovee*

Brett L. Bovee, CAC, CMC, CDPH  
Certified Asbestos Consultant No. 95-1643  
California DPH Inspector/Assessor, ID# 1494/1493



**ATTACHMENT A**

**BEM**

**SAMPLE FIELD SHEET**



**Bovee Environmental Management, Inc.**  
1900 McHenry Ave, Ste 201, Escalon, CA 95320

North Valley: 209-847-3800 • South Valley: 559-264-3800  
Email: bem@boveeinc.com • Facsimile: 209-847-3830

**CHAIN OF CUSTODY**

|               |          |   |
|---------------|----------|---|
| BEM PROJECT # | 20-44881 | TURN-AROUND TIME  |
| SAMPLE DATE:  | 7/31/20  | <input type="radio"/> SAME DAY <input checked="" type="radio"/> 24HOURS |
| SURVEY TYPE:  | Demo     | <input type="radio"/>   |

| Project Name:    |  | Residential                    |         |     |           | Point Count Trace Results  |     |     |            |        |     |     |
|------------------|--|--------------------------------|---------|-----|-----------|--|-----|-----|------------|--------|-----|-----|
| Address:         |  | 23450 Route 26 Linden CA 95236 |         |     |           | <input checked="" type="radio"/> YES-400 <input type="radio"/> YES-1000 <input type="radio"/> NO |     |     |            |        |     |     |
| Type of Loss:    |  | ASB Demo                       |         |     |           |  |     |     |            |        |     |     |
| Areas Inspected: |  | entire interior & exterior     |         |     |           |  |     |     |            |        |     |     |
| Sample#          | Sample Description   | Surface                        | T. Time | LPM | Vol./Qua. | PLM  | XRF | PCM | DIRECT-101 | E-COLI | TEM | AAS |
| 44881-01         | Mat. Desc.: Concrete<br>Mat. Loc.: foundation T10                          | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
| -02              | Mat. Desc.: 9x9 VFT<br>Mat. Loc.: T10                                      | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
| -03              | Mat. Desc.: mastic<br>Mat. Loc.: " "                                       | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
| -04              | Mat. Desc.: Brick mortar<br>Mat. Loc.: various T10                         | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
| -05              | Mat. Desc.:<br>Mat. Loc.: ↓  | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
| -06              | Mat. Desc.: ST<br>Mat. Loc.: Bath 2  | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
| -07              | Mat. Desc.: srisc<br>Mat. Loc.: " "  | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
| -08              | Mat. Desc.: ST<br>Mat. Loc.: laundry Rm & Bath 1                           | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
| -09              | Mat. Desc.: srisc<br>Mat. Loc.: " "  | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
| -10              | Mat. Desc.: paint<br>Mat. Loc.: ext. overhang & upper walls                | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
| -11              | Mat. Desc.: Penetration mastic<br>Mat. Loc.: penetrations, seams, & edges. | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
| -12              | Mat. Desc.: R.M.<br>Mat. Loc.: rooftop                                     | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
|                  | Mat. Desc.:<br>Mat. Loc.:  | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
|                  | Mat. Desc.:<br>Mat. Loc.:  | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
|                  | Mat. Desc.:<br>Mat. Loc.:  | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
|                  | Mat. Desc.:<br>Mat. Loc.:  | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |
|                  | Mat. Desc.:<br>Mat. Loc.:  | W C FL<br>○○○                  |         |     |           | ○  | ○   | ○   | ○          | ○      | ○   | ○   |

|                          |                             |                  |              |
|--------------------------|-----------------------------|------------------|--------------|
| Relinquished by: B BOVEE | Received by: Anthony Miller | Relinquished by: | Received by: |
| <i>[Signature]</i>       | <i>[Signature]</i>          | X                | X            |
| Time/Date: 7/31/20       | Time/Date: 7/31/20          | Time/Date:       | Time/Date:   |

**ATTACHMENT B**

**LABORATORY  
ANALYTICAL REPORT**





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July 31, 2020

Bovee Environmental Management, Inc.  
1900 McHenry Avenue, #201  
Escalon, CA 95320

**Client Project:** 20-44881  
**Report ID:** 20-AE1346

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on **July 31, 2020**. The samples were analyzed for asbestos using polarizing light microscopy (PLM) under EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Kind Regards,

*Anthony Miller*

Anthony Miller  
Laboratory Director



# ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

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Prepared for

**Bovee Environmental Management, Inc.**

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**CLIENT PROJECT:** 20-44881  
**REPORT ID:** 20-AE1346  
**TEST METHOD:** EPA 600/R93/116 and EPA 600/M4-82/020  
**REPORT DATE:** 07-31-20

**TOTAL SAMPLES ANALYZED:** 12

**# SAMPLES >1% ASBESTOS:** 3



# ASBESTOS REPORT SUMMARY

By: POLARIZED LIGHT MICROSCOPY

Client Project: 20-44881

Report ID: 20-AE1346

Methodology: EPA 600/R-93/116 and EPA 600/M4-82/020

| Client ID | Layer | Lab ID   | Color | Sample Description       | % Asbestos               |
|-----------|-------|----------|-------|--------------------------|--------------------------|
| 44881-01  |       | AE-11913 | Gray  | Concrete                 | None Detected            |
| 44881-02  |       | AE-11914 | Brown | 9x9 VFT                  | <b>5% Chrysotile</b>     |
| 44881-03  |       | AE-11915 | Black | Mastic                   | <b>8% Chrysotile</b>     |
| 44881-04  |       | AE-11916 | Tan   | Brick Mortar             | None Detected            |
| 44881-05  |       | AE-11917 | Tan   | Brick Mortar             | None Detected            |
| 44881-06  |       | AE-11918 | White | Surface Texture          | None Detected            |
| 44881-07  |       | AE-11919 | White | Sheetrock/Joint Compound | None Detected            |
| 44881-08  |       | AE-11920 | Beige | Surface Texture          | <b>2% Chrysotile</b>     |
| 44881-09  |       | AE-11921 | Beige | Sheetrock/Joint Compound | <b>&lt;1% Chrysotile</b> |
| 44881-10  |       | AE-11922 | White | Paint                    | None Detected            |
| 44881-11  |       | AE-11923 | Black | Penetration Mastic       | None Detected            |
| 44881-12  |       | AE-11924 | Black | Roofing Material         | None Detected            |



# ASBESTOS BULK ANALYSIS

By: POLARIZED LIGHT MICROSCOPY

Report ID: 20-AE1346  
 Date Received: 07-31-20  
 Date Analyzed: 07-31-20  
 Date Reported: 07-31-20

Client Project: 20-44881

Methodology: EPA 600/R-93/116 and EPA 600/M4-82/020

| Client ID<br>Sample ID | Lab<br>Description           | Lab<br>Attributes                                     | NON-ASBESTOS COMPONENTS |             |     |                               | ASBESTOS<br>% |
|------------------------|------------------------------|---|-------------------------|-------------|-----|-------------------------------|---------------|
|                        |                              |   | Fibrous                 | Non-Fibrous |     |                               |               |
| 44881-01<br>AE-11913   | Concrete                     | Heterogeneous<br>Gray<br>Non-Fibrous<br>Tightly Bound | 40%                     | Gravel      | 35% | Silicates                     | None Detected |
| 44881-02<br>AE-11914   | 9x9 VFT                      | Heterogeneous<br>Brown<br>Fibrous<br>Bound            | 40%                     | Vinyl       | 30% | Silicates                     | 5% Chrysotile |
| 44881-03<br>AE-11915   | Mastic                       | Homogeneous<br>Black<br>Non-Fibrous<br>Bound          | 92%                     | Mastic      |     |                               | 8% Chrysotile |
| 44881-04<br>AE-11916   | Brick Mortar                 | Heterogeneous<br>Tan<br>Non-Fibrous<br>Tightly Bound  | 45%                     | Silicates   | 55% | Binder                        | None Detected |
| 44881-05<br>AE-11917   | Brick Mortar                 | Heterogeneous<br>Tan<br>Non-Fibrous<br>Tightly Bound  | 45%                     | Silicates   | 55% | Binder                        | None Detected |
| 44881-06<br>AE-11918   | Surface Texture              | Heterogeneous<br>White<br>Fibrous<br>Bound            | 15%                     | Cellulose   | 25% | Calc Carb<br>Binder           | None Detected |
| 44881-07<br>AE-11919   | Sheetrock/<br>Joint Compound | Heterogeneous<br>White<br>Fibrous<br>Bound            | 30%                     | Cellulose   | 35% | Gypsum<br>Calc Carb<br>Binder | None Detected |
| 44881-08<br>AE-11920   | Surface Texture              | Heterogeneous<br>Beige<br>Non-Fibrous<br>Bound        | 10%                     | Cellulose   | 40% | Calc Carb<br>Binder           | 2% Chrysotile |



# ASBESTOS BULK ANALYSIS

By: POLARIZED LIGHT MICROSCOPY

Report ID: 20-AE1346  
 Date Received: 07-31-20  
 Date Analyzed: 07-31-20  
 Date Reported: 07-31-20

Client Project: 20-44881

Methodology: EPA 600/R-93/116 and EPA 600/M4-82/020

| Client ID<br>Sample ID   | Lab<br>Description           | Lab<br>Attributes                            | NON-ASBESTOS COMPONENTS |           |             |   | ASBESTOS<br>%  |
|--|------------------------------|--|-------------------------|-----------|-------------|---|----------------|
|  |                              |  | Fibrous                 |           | Non-Fibrous |   |                |
| 44881-09<br>AE-11921   | Sheetrock/<br>Joint Compound | Heterogeneous<br>Beige<br>Fibrous<br>Bound   | 30%                     | Cellulose | 25%         | Gypsum<br>20%<br>Calc Carb<br>15%<br>Binder | <1% Chrysotile |
| <b>Lab Notes:</b> Joint Compound Contains 2% Chrysotile: <1% Composite |                              |  |                         |           |             |   |                |
| 44881-10<br>AE-11922   | Paint                        | Homogeneous<br>White<br>Non-Fibrous<br>Bound |                         |           | 100%        | Paint                                       | None Detected  |
| 44881-11<br>AE-11923   | Penetration Mastic           | Heterogeneous<br>Black<br>Fibrous<br>Bound   | 15%                     | Cellulose | 85%         | Mastic                                      | None Detected  |
| 44881-12<br>AE-11924   | Roofing Material             | Heterogeneous<br>Black<br>Fibrous<br>Bound   | 50%                     | Cellulose | 30%         | Gravel<br>20%<br>Tar                        | None Detected  |



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**LEGEND:**      Non-Anth      = Non-Asbestiform Anthophyllite  
                  Non-Trem      = Non-Asbestiform Tremolite  
                  Calc Carb      = Calcium Carbonate

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**METHOD:** EPA 600/R-93/116 and EPA 600/M4-82/020

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**REPORTING LIMIT:** <1% by Visual Estimation

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**REPORTING LIMIT FOR POINT COUNTS:** 0.25% by 400 Points or 0.1% by 1,000 Points

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**REGULATORY LIMIT:** >1% by Weight

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Samples were received in acceptable condition unless otherwise noted. All samples are received from the client; therefore, BEM Laboratories is not responsible for any of the sampling procedures.

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOB's) such as vinyl floor tiles can be difficult to analyze via polarized light microscope (PLM). EPA recommends that all NOB's analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM).

BEM is accredited with the Environmental Laboratory Accreditation Program (ELAP) under Certificate Number 3013.

BEM successfully participates in the American Industrial Hygiene Association's (AIHA) Bulk Asbestos Proficiency Analytical Testing Program (BAPAT) under Laboratory Identification Number 221538 and the National Voluntary Laboratory Accreditation Program's (NVLAP) Bulk Asbestos Proficiency Test under Lab Code 901038.

This report applies to the standards and/or procedures identified and to the sample (s) tested. The test results are not indicative or representative of the lot from which the sample was taken or apparently identical or similar products. These reports are for the exclusive use of the addressed client and are released on the condition that they will not be reproduced without special written permission; therefore, BEM laboratories can provide assurance that no parts of the report are taken out of context. Samples not destroyed during testing are retained for a maximum of thirty days. All analyses are derived from calibrated visual estimate unless otherwise noted.

Laboratory Director: Anthony Miller  
Anthony Miller

Analyst: Anthony Miller  
Anthony Miller

**ATTACHMENT C**

**SITE DRAWING**

# 20-44881 Site diagram

