NorBay Consulting

LOGICAL *ENVIRONMENTAL* *SOLUTIONS*

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January 18, 2021

Mr. Will McManus
c/o San Rafael City Schools
310 Nova Albion Way
San Rafael, CA 94903

SUBJECT: LIMITED ASBESTOS AND LEAD INSPECTION
SAN RAFAEL HIGH SCHOOL (AD BUILDING)
SAN RAFAEL, CALIFORNIA

Dear Mr. McManus:

NorBay Consulting is pleased to provide the analytical results from the limited pre-renovation asbestos and lead inspection conducted in the AD Building on the campus of San Rafael High School in San Rafael, California.

The inspection included the visual observation of suspect asbestos containing building materials within the path of construction of an upcoming renovation project, collection of suspect building materials to determine asbestos content, if any, laboratory analysis, the collection of lead in paint readings utilizing a RMD direct reading instrument and generation of a final report.

NorBay Consulting appreciates the opportunity to provide you with these services. If you have any questions regarding this report or if you require additional information please do not hesitate to contact me at (415) 507-9786.

Respectfully,
NORBAY CONSULTING

Bob Gerhold

Bob Gerhold
Certified Asbestos Consultant # 92-0157
CDPH Lead Inspector/Assessor LRC-1004

EXECUTIVE SUMMARY

NorBay Consulting conducted a limited pre-renovation asbestos and lead inspection of the AD Building on the campus of San Rafael High School in San Rafael, California. The inspection was limited to those areas and materials scheduled to be disturbed during an upcoming renovation project. Mr. Bob Gerhold, Cal-OSHA Certified Asbestos Consultant #92-0157 and CDPH Lead Inspector/Assessor LRC-1004 and Mr. Mike Gerhold, Cal-OSHA Certified Asbestos Consultant #19-6663 and CDPH Lead Sampling Technician LRC-6072 performed the inspection on January 8th & 12th, 2021.

This Executive Summary is provided solely for the purpose of overview. Any party who relies on this report must read the entire report. The Executive Summary may have omitted important details, anyone of which could be crucial to the proper understanding and risk assessment of the subject matter.

A total of thirty (39) samples of suspect asbestos containing building materials were collected during the inspection. Upon analysis by Polarized Light Microscopy (PLM) the following material(s) were found to contain varying percentages of asbestiform minerals or are materials known to contain asbestos.

- None.

A total of ninety-five (95) readings were collected of interior painted/coated surfaces during the inspection. In addition, six (6) calibration readings were also collected. For this report lead based paint includes readings ≥ 1.0 mg/cm2, lead-containing paint includes readings ≥ 0.1 to ≤ 1.0 mg/cm2 and no lead detected includes readings of 0.0 mg/cm2. It is extremely important to understand that XRF readings, which have a value of 0.0 mg/cm2, do not necessarily mean there is “no lead present” but rather the level is below what the instrument can read.

Lead based paint/glazing was located on the following components:

- None

A more detailed presentation of procedures and findings is presented in the body of this report. Also included is a discussion of recommendations and regulatory considerations.

ASBESTOS SURVEY PROCEDURES

Homogeneous areas of materials, which were suspected of containing asbestos were identified. A homogeneous area, for bulk sampling purposes, is one that seems by texture, color and wear to be uniform and applied during the same general time period. After the homogeneous areas had been identified, representative bulk sample(s) are collected for laboratory analysis. Because asbestos-containing building materials have compositional variability, it is possible to obtain different laboratory results for samples from the same homogeneous area. Therefore, a homogeneous area with at least one positive sample for will result in the entire homogeneous area being designated as an asbestos containing material.

The sampling strategy was partially based on guidelines established by the Environmental Protection Agency (EPA) for school buildings (40 CFR Part 763, AHERA) which require that

samples be collected from each homogeneous area of suspected ACM. Upon completion of the inspection and bulk sampling, the samples were delivered under chain of custody protocol to SGS Forensic Laboratories of Hayward, California for analysis by Polarized Light Microscopy (PLM).

SAMPLE ANALYSIS

Bulk samples were examined by Polarized Light Microscopy (PLM) in accordance with EPA Test Method 600/R-93/116, "Method for the Determination of Asbestos in Bulk Building Materials". The percentage of asbestos is determined by visual estimation. Laboratory results are reported based on the percentage of asbestiform minerals identified within each sample layer. The lower limit of reliable detection by PLM is 1% by volume. When asbestos or other minerals are observed in concentrations believed to be less than the reliable detection limit (less than 1%) the results are usually indicated as TRACE. Upon analysis the analytical results are compared to government agency standards. Currently, both the California Occupational Safety and Health Administration (Cal-OSHA) and the Environmental Protection Agency (EPA) define material with contains more than one percent asbestos to be an asbestos containing material (ACM). In addition, Cal-OSHA defines any manufactured construction material containing more than 0.1% by weight as asbestos containing construction materials (ACCM). Cal-OSHA also requires notification and registration of the contractor when disturbing materials with more than one-tenth of one percent and regulates worker protection whenever materials containing any detectable levels of asbestos are to be disturbed.

RESULTS

Analytical results can be found in the following table:

Sample ID	Material	Location	Results
SU-1-1	Gray sink undercoating	Room AD 242	No Asbestos Detected
SU-2-1	Gray sink undercoating	North wing, room AD 213	No Asbestos Detected
CG-1	Carpet glue/leveling compound	North wing, hallway	No Asbestos Detected
CG-2	Carpet glue/leveling compound	South wing, hallway	No Asbestos Detected
CG-3	Carpet glue/leveling compound	South wing, hallway	No Asbestos Detected
FC-1-&2	Maroon firestop putty (above ceiling)	North wing, hallway	No Asbestos Detected
VFT-1-1	12" vinyl floor tile (dark gray) and mastic	Room AD 236	No Asbestos Detected
VFT-1-2	12" vinyl floor tile (dark gray) and mastic	Room Ad 238	No Asbestos Detected
VFT-2-1	12" vinyl floor tile (dark gray) and mastic	North wing, room AD 221	No Asbestos Detected
VFT-2-2	12" vinyl floor tile (dark gray) and mastic	North wing, room AD 213	No Asbestos Detected
VFT-3-1	12" vinyl floor tile (dark gray) and mastic	South wing, room AD 226	No Asbestos Detected

Sample ID	Material	Location	Results
SVF-1-1	Sheet vinyl flooring, gray pebble pattern	North wing, restroom	No Asbestos Detected
SVF-1-2	Sheet vinyl flooring, gray pebble pattern	North wing, restroom	No Asbestos Detected
SVF-2-1	Sheet vinyl flooring, gray pebble pattern	South wing, men's restroom	No Asbestos Detected
SVF-2-2	Sheet vinyl flooring, gray pebble pattern	South wing, women's restroom	No Asbestos Detected
ACT-1-1	2'x 2' acoustical ceiling tile	Room AD 238	N Asbestos detected
ACT-1-2	2'x 2' acoustical ceiling tile	Room AD 242	No Asbestos Detected
ACT-1-3	2'x2' acoustical ceiling tile	North wing, room AD 207	No Asbestos Detected
ACT-1-4	2'x 2' acoustical ceiling tile	North wing, room AD 213	No Asbestos Detected
ACT-1-5	2'x 2' acoustical ceiling tile	South wing, room AD 218	No Asbestos Detected
DWTM-1-1	Drywall/taping mud	Room AD 242	No Asbestos Detected
DWTM-1-2	Drywall/taping mud	Room AD 238	No Asbestos Detected
DWTM-1-3	Drywall/taping mud	Room AD 236	No Asbestos Detected
DWTM-2-1	Drywall/taping mud	North wing, room AD 205	No Asbestos Detected
DWTM-2-2	Drywall/taping mud	North wing, room AD 211	No Asbestos Detected
DWTM-2-3	Drywall/taping mud	North wing, room AD 225	No Asbestos Detected
DWTM-3-1	Drywall/taping mud	South wing, room AD 218	No Asbestos Detected
DWTM-3-2	Drywall/taping mud	South wing, room AD 210	No Asbestos Detected
DWTM-3-3	Drywall/taping mud	South wing, room AD 200 (closet)	No Asbestos Detected
Roof-1	Roofing field	Exterior, roof, south	No Asbestos Detected
Roof-2	Roofing field	Exterior, roof. east	No Asbestos Detected
Roof-3	Roofing field	Exterior, roof, north	No Asbestos Detected
Roof-4	Flashing of equipment base with mastic	Exterior, roof, south	No Asbestos Detected
Roof-5	Flashing of equipment base with mastic	Exterior, roof, east	No Asbestos Detected
Roof-6	Flashing of equipment base with mastic	Exterior, roof, north	No Asbestos Detected
Roof-7	Gray sealant on HVAC ductwork	Exterior, roof, south	No Asbestos Detected

Sample ID	Material	Location	Results
Roof-8	Gray sealant on equipment	Exterior, roof, east	No Asbestos Detected
Roof-9	Gray sealant on air handler	Exterior, roof, north	No Asbestos Detected

REGULATORY CONSIDERATIONS

Current EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations require that most ACM be removed prior to demolition or renovation activities. Other regulations apply to construction activities and notification requirements for projects involving ACM/ACCM. At both the federal and state levels, these include, but are not limited to Federal OSHA regulation 29 CFR 1910 and 1926, the California Health Code, California OSHA 8 CCR 1529 and Proposition 65 which requires the posting of notifications when a facility is known to contain toxic substances found on the governors list. As previously mentioned in this report both the California Occupational Safety and Health Administration (Cal-OSHA) and the Environmental Protection Agency (EPA) define material which contains more than one percent asbestos to be an asbestos containing material (ACM). However, Cal-OSHA has an additional classification for manufactured materials found to contain asbestos in quantities between 0.1% to 1%. This classification is referred to as Asbestos Containing Construction Materials (ACCM).

Analytical results indicated that the none of the materials sampled within the path of construction contains asbestos, thus there appears to be no asbestos impacts involved with this portion of the project.

LEAD IN PAINT XRF SURVEY PROCEDURES

The sampling strategy employed by NorBay Consulting was performed as outlined in Title 17, California Code of Regulations, Division 1, Chapter 8 and in accordance with those survey procedures listed in the "Guidelines for the Evaluation and Control of Lead Based Paint Hazards in Housing", June 1995 by the U.S. Department of Housing and Urban Development (HUD). Our investigation included the collection of readings on similar painted surfaces (not every component in every room as dictated by HUD guidelines.)

Prior to data collection, painted/coated surfaces were categorized into distinct area of homogeneity, substrate material, building material and/or distinct paint type. After the items have been identified, a representative reading of the painted/coated surface is collected. Because painted/coated have compositional variability due to one or more paint layers, it is possible to obtain different readings for samples from the same homogeneous area. Therefore, a homogeneous area with at least one XRF reading of 1.0 mg/cm2 or greater will result in the entire homogeneous material, substrate and/or distinct paint type being designated as lead based paint. Each XRF reading along with the location, component, substrate, color and condition of the painted/coated surface are included in the XRF readings table located at the end of this report.

SAMPLE ANALYSIS

The XRF testing was performed in accordance with the aforementioned criteria, using an RMD-LPA-1 XRF Analyzer. Exposure times are internally determined by the instrument and are based-

on a number of factors including lead content, substrate and source strength. The instrument is calibrated to the manufacturer's specifications and was periodically verified against known lead standards produced by the National Institute of Standards and Testing. HUD defines action level as the hazard level or which a corrective response action will be required.

Currently, the most widely used levels for determining lead-based paint (LBP) is 1.0 mg/cm2 (as measured by an XRF) established by HUD and adopted by the U.S. Environmental Protection Agency. The action level is 5000 parts per million (pip) or 0.5% by weight when collected paint chip samples are analyzed using atomic absorption spectroscopy (AAS).

HUD guidelines consider XRF findings of 1.0 mg/cm2 or greater, as lead based paint, which may be a potential hazard. It is extremely important to understand that XRF readings, which have a value of 0.0 mg/cm2, do not necessarily mean there is no lead present but are below what the instrument can detect. Positive results can be used to indicate that detectable levels of lead are present, but negative results can not be interpreted as conclusively demonstrating the absence of low levels of lead.

RESULTS

During our investigation, a total of ninety-five (95) XRF readings were collected of various interior finishes, components and fixtures. None of the readings indicated the presence of lead-based paint. However, various interior and exterior components were found to be coated with detectable levels of lead. Disturbance of these components are also subject to CAL-OSHA lead and construction standard requirements.

For a complete listing of readings see the attracted XRF Readings sheet.

REGULATORY CONSIDERATION/RECOMMENDATIONS

Current EPA and Hud guidelines recommend that surfaces containing lead based paint in damaged condition to be considered "lead-based paint hazards" and should be addressed through abatement (permanent removal) or interim controls (temporary). Surfaces containing lead based paints in intact condition should be monitored but are not considered to be "lead based paint hazards".

At the time of our inspection, the following components were found to contain damaged lead based paints/glazing and are considered a "lead-based paint hazard".

- None.

Construction Work Standards

At present, there are no state or federal laws dealing with mandatory abatement following the identification of lead containing or lead based paints prior to disturbance. However, in 1993 the Occupational Safety and Health Administration promulgated legislation (29 CFR 1926.62 and 8 CCR 1532.1) entitled "Lead Exposure in the Construction Industry" which deals with worker exposure to lead.
It should be noted that aside from the HUD definition of lead-based paint (1.0 mg/cm2), OSHA regulates worker protection and work practices on building components containing any detectable

amounts of lead. Therefore, components determined to contain less than 1.0 mg/cm2 may still be subject to OSHA regulations, if these materials are to be disturbed. This standard essentially states that work, involving components containing any amount of lead must follow certain guidelines.

These guidelines include but are not limited to training, personal protective equipment and specific work practices whenever workers disturb lead in any concentration because the disturbance may result in airborne exposures over action or permissible exposure limits. This legislation requires that any task that may potentially expose workers to any concentration of lead be monitored to determine workers eight-hour time weighted average (TWA) exposure to lead. Prior to conduction of activities that may generate a lead exposure, such workers must be properly fitted with respiratory protection and protective clothing until eight-hour TWA results reveal exposures within acceptable levels. Any proposed renovation/demolition, which may involve the removal of building materials with lead-based paint and/or lead containing painted surfaces, should include provisions to minimize the potential for airborne release of lead contaminated dust. It is recommended, as a minimum, that demolition of building materials which have lead-based and/or lead-containing paints be conducted with the materials kept in a wetted state and removed in sections, as feasible, to reduce the potential for airborne lead emissions.

The Federal EPA Renovation, Repair and Painting Rule 40 CFR 745, which became effective April 22, 2010 covers all non-abatement renovation, repair or painting work in pre-1978 child occupied facilities and housing. Work which disturbs more than 6 square feet per room, or 20 square feet per exterior of paint or other surface coatings that contain lead in concentrations equal to or in excess of 1.0 mg/cm2 by XRF are covered by this rule.

LIMITATIONS

NorBay Consulting conducted this inspection and prepared this report for the sole and exclusive use of Greystone West Company/San Rafael City Schools, the only intended beneficiaries of our work.

NorBay Consulting has performed this inspection in a substantial and workmanlike manner, in accordance with generally accepted methods and practices of the profession, and consistent with that level of care and skill ordinarily exercised by reputable environmental consultants under similar conditions and circumstances.

Enclosed you will find the laboratory reports and chain of custody form for all asbestos bulk samples collected. In addition, a spread sheet of lead readings is attached. If you have any questions regarding this report or if you require additional information, please do not hesitate to contact me at (415) 507-9786.

Sincerely,
NORBAY CONSULTING

Bob Gerhold

Bob Gerhold
Certified Asbestos Consultant #92-0157
CDPH Lead Inspector/Assessor LRC-1004

LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS

POLARIZED LIGHT MICROSCOPY (PLM)

SGS FORENSIC LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-0

NorBay Consulting
Robert Gerhold
2400 Las Gallinas
Suite 110
San Rafael, CA 94903

Client ID: 3982
Report Number: B312293
Date Received: 01/11/21
Date Analyzed: 01/13/21
Date Printed: 01/13/21
First Reported: 01/13/21

Job ID/Site: 7795 - San Rafael High School, AD Building, San Rafael, California

Date(s) Collected: 01/08/2021

SGSFL Job ID: 3982
Total Samples Submitted: 30
Total Samples Analyzed: 30

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SU-1-1	12375163						
Layer: Grey Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (ND)**					
SU-2-1	12375164						
Layer: Grey Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (ND)**					
CG-1	12375165						
Layer: White Non-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
CG-2	12375166						
Layer: White Non-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
CG-3	12375167						
Layer: White Non-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
FC-1	12375168						
Layer: Red Putty			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (3 %)		**Asbestos (ND)**					
FC-2	12375169						
Layer: Red Putty			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (3 %)		**Asbestos (ND)**					

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Report Number: B312293

Client Name: NorBay Consulting **Date Printed:** 01/13/21

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
VFT-1-1	12375170						
Layer: Grey Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
VFT-1-2	12375171						
Layer: Grey Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
VFT-2-1	12375172						
Layer: Grey Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
VFT-2-2	12375173						
Layer: Grey Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
VFT-3-1	12375174						
Layer: Grey Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
SVF-1-1	12375175						
Layer: Grey Sheet Flooring			**ND**				
Layer: Fibrous Backing			**ND**				
Layer: Clear Mastic			**ND**				
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (5 %) Synthetic (10 %)		**Asbestos (ND)**					
SVF-1-2	12375176						
Layer: Grey Sheet Flooring			**ND**				
Layer: Fibrous Backing			**ND**				
Layer: Clear Mastic			**ND**				
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (5 %) Synthetic (10 %)		**Asbestos (ND)**					

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Report Number: B312293

Client Name: NorBay Consulting **Date Printed:** 01/13/21

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
SVF-2-1	12375177						
Layer: Grey Sheet Flooring			**ND**				
Layer: Fibrous Backing			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (5 %) Synthetic (10 %)							
SVF-2-2	12375178						
Layer: Grey Sheet Flooring			**ND**				
Layer: Fibrous Backing			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (5 %) Synthetic (10 %)							
ACT-1-1	12375179						
Layer: Off-White Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %) Fibrous Glass (90 %)							
ACT-1-2	12375180						
Layer: Off-White Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %) Fibrous Glass (90 %)							
ACT-1-3	12375181						
Layer: Off-White Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %) Fibrous Glass (90 %)							
ACT-1-4	12375182						
Layer: Off-White Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %) Fibrous Glass (90 %)							
ACT-1-5	12375183						
Layer: Off-White Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %) Fibrous Glass (90 %)							
DWTM-1-1	12375184						
Layer: Off-White Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Layer: White Tape			**ND**				
Layer: White Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							

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Report Number: B312293

Client Name: NorBay Consulting **Date Printed:** 01/13/21

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
DWTM-1-2	12375185						
Layer: Off-White Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Layer: White Tape			**ND**				
Layer: White Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
DWTM-1-3	12375186						
Layer: Off-White Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Layer: White Tape			**ND**				
Layer: White Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
DWTM-2-1	12375187						
Layer: Off-White Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Layer: White Tape			**ND**				
Layer: White Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
DWTM-2-2	12375188						
Layer: Off-White Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Layer: White Tape			**ND**				
Layer: White Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
DWTM-2-3	12375189						
Layer: Off-White Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Layer: White Tape			**ND**				
Layer: White Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							

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Report Number: B312293

Client Name: NorBay Consulting **Date Printed:** 01/13/21

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
DWTM-3-1	12375190						
Layer: Off-White Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Layer: White Tape			**ND**				
Layer: White Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
DWTM-3-2	12375191						
Layer: Off-White Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Layer: White Tape			**ND**				
Layer: White Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
DWTM-3-3	12375192						
Layer: White Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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SGS FORENSIC LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-0

NorBay Consulting
Robert Gerhold
2400 Las Gallinas
Suite 110
San Rafael, CA 94903

Client ID: 3982
Report Number: B312337
Date Received: 01/13/21
Date Analyzed: 01/15/21
Date Printed: 01/18/21
First Reported: 01/18/21

Job ID/Site: 7795 - San Rafael HS, AD Building Roofing, San Rafael, CA

SGSFL Job ID: 3982
Total Samples Submitted: 9
Total Samples Analyzed: 9

Date(s) Collected: 01/12/2021

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
Roof-1	12375583						
Layer: Stones			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (35 %)							
Comment: Bulk complex sample.							
Roof-2	12375584						
Layer: Stones			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (35 %)							
Comment: Bulk complex sample.							

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B312337

Client Name: NorBay Consulting **Date Printed:** 01/18/21

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
Roof-3	12375585						
Layer: Stones			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (35 %)							
Comment: Bulk complex sample.							
Roof-4	12375586						
Layer: Stones			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (35 %)							
Comment: Bulk complex sample.							
Roof-5	12375587						
Layer: Stones			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (35 %)							
Comment: Bulk complex sample.							
Roof-6	12375588						
Layer: Stones			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %) Synthetic (35 %)							

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Report Number: B312337

Client Name: NorBay Consulting **Date Printed:** 01/18/21

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
Roof-7	12375589						
Layer: Silver Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (15 %) Fibrous Glass (20 %)		**Asbestos (ND)**					
Roof-8	12375590						
Layer: Dark Grey Semi-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (15 %)		**Asbestos (ND)**					
Roof-9	12375591						
Layer: Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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NorBay Consulting
2400 Las Gallinas Avenue, Suite 110
San Rafael, CA 94903
(415) 507-9786

Job Site: San Rafael High School
AD Building
San Rafael, California

Project Number: 7795
Analysis Requested: PLM
Turn Around Time: 3 day

Client ID	Date	Location	Description
SU-1-1	1/8/2021	Room AD 242	Gray sink undercoating
SU 2-1		North Wing, room AD 213	Gray sink undercoating
CG-1		North wing, hallway	Carpet glue/leveling compound
CG-2		South wing, hallway	Carpet glue/leveling compound
CG-3		South wing, hallway	Carpet glue/leveling compound
FC-1		North wing, hallway	Maroon firestop putty (above ceiling)
FC-2		North wing, hallway	Maroon firestop putty (above ceiling)
VFT 1-1		Room AD 236	12" vinyl floor tile (dark gray) and mastic
VFT 1-2		Room AD 238	12" vinyl floor tile (dark gray) and mastic
VFT 2-1		North wing, room AD 221	12" vinyl floor tile (dark gray) and mastic
VFT 2-2		North wing, room AD 213	12" vinyl floor tile (dark gray) and mastic
VFT 3-1		South wing, room AD 226	12" vinyl floor tile (dark gray) and mastic
SVF 1-1		North wing, restroom	Sheet vinyl flooring, gray pebble pattern

Notes: email results to Bob@norbayca.com, Mike@norbayca.com,

Bob Gerhold 1/8/21

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NorBay Consulting
2400 Las Gallinas Avenue, Suite 110
San Rafael, CA 94903
(415) 507-9786

Job Site: San Rafael High School
AD Building
San Rafael, California

Project Number: 7795
Analysis Requested: PLM
Turn Around Time: 3 day

Client ID	Date	Location	Description
SVF 1-2	1/8/2021	North wing, restroom	Sheet vinyl flooring, gray pebble paattern
SVF 2-1		South wing, men's restroom	Sheet vinyl flooring, gray pebble paattern
SVF 2-2		South wing, women's restroom	Sheet vinyl flooring, gray pebble paattern
ACT 1-1		Room AD 238	2' x 2' acoustical ceiling tile
ACT 1-2		Room AD 242	2' x 2' acoustical ceiling tile
ACT 1-3		North wing, room AD 207	2' x 2' acoustical ceiling tile
ACT 1-4		North wing, room AD 213	2' x 2' acoustical ceiling tile
ACT 1-5		South wing, room AD 218	2' x 2' acoustical ceiling tile
DWTM 1-1		Room AD 242	Drywall/taping mud
DWTM 1-2		Room AD 238	Drywall/taping mud
DWTM 1-3		Room AD 236	Drywall/taping mud
DWTM 2-1		North wing, room AD 205	Drywall/taping mud
DWTM 2-2		North wing, room AD 211	Drywall/taping mud

Notes: email results to Bob@norbayca.com, Mike@norbayca.com,

Bob Gerhold 1/8/21

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NorBay Consulting
2400 Las Gallinas Avenue, Suite 110
San Rafael, CA 94903
(415) 507-9786

Job Site: San Rafael High School
AD Building
San Rafael, California

Project Number: 7795
Analysis Requested: PLM
Turn Around Time: 3 day

Client ID	Date	Location	Description
DWTM 2-3	1/8/2021	North wing, room AD 225	Drywall/taping mud
DWTM 3-1		South wing, room AD 218	Drywall/taping mud
DWTM 3-2		South wing,room AD 210	Drywall/taping mud
DWTM 3-3		South wing, room AD 200 (closet)	Drywall/taping mud

Notes: email results to Bob@norbayca.com, Mike@norbayca.com,

Bob Gerhold 1/8/21

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NorBay Consulting
2400 Las Gallinas Avenue, Suite 110
San Rafael, CA 94903
(415) 507-9786 Phone

Job Site: San Rafael HS
AD Building Roofing
San Rafael, California

Project Number: 7795
Analysis Requested: PLM
Turn Around Time: 3 Days

Client ID	Date	Location	Description
Roof-1	1/12/2021	Exterior, roof, south	Roofing field
Roof-2		Exterior, roof, east	Roofing field
Roof-3		Exterior, roof, north	Roofing field
Roof-4		Exterior, roof, south	Flashing of equipment base w/mastic
Roof-5		Exterior, roof, east	Flashing of equipment base w/mastic
Roof-6		Exterior, roof, north	Flashing of equipment base w/mastic
Roof-7		Exterior, roof, south	Gray sealant on HVAC ductwork
Roof-8		Exterior, roof, east	Gray sealant on equipment
Roof-9		Exterior, roof, north	Gray sealant on air handler

Notes: email results to Bob@norbayca.com, Mike@norbayca.com

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XRF READINGS

Readings shaded in gray indicate lead based paint

Readings shaded in green indicate lead containing paint

Non-destructive Screening of Interior Painted Surfaces

XRF Readings

Site Location: San Rafael High School, San Rafael, California
Building: AD Building
Inspector: Bob Gerhold & Mike Gerhold Date: January 8, 2021

Location	Component	Wall	Substrate	Color	Paint Condition	Reading (mg/cm2)
Calibration 1						1.0
Calibration 2						1.1
Calibration 3						1.1
AD 236	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Window		Metal	Gray	Intact	0.1
	Door		Metal	Blue	Intact	0.0
	Door frame		Metal	Blue	Intact	0.0
AD 238	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Windowsill		Wood	Beige	Intact	0.0
	Window		Metal	Gray	Intact	0.0
	Door		Metal	Blue	Intact	0.0
	Door frame		Metal	Blue	Intact	0.0
AD 242	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Window		Metal	Gray	Intact	0.0
	Windowsill		Wood	Beige	Intact	0.0
	Door		Metal	Blue	Intact	0.0
	Door frame		Metal	Blue	Intact	0.0
North Wing						
AD 201	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Window		Metal	Gray	Intact	0.0
	Window frame		Wood	Beige	Intact	0.0
AD 205	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Door		Metal	Blue	Intact	0.0
	Door frame		Metal	Blue	Intact	0.0
AD 211	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Window		Metal	Gray	Intact	0.0
	Windowsill		Wood	Beige	Intact	0.0
AD 215	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Door		Metal	Blue	Intact	0.0
	Door frame		Metal	Blue	Intact	0.0
AD 227	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	Gray	Intact	0.1
	Window		Metal	Gray	Intact	0.0
	Window frame		Wood	Beige	Intact	0.0
AD 225	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Door		Metal	Blue	Intact	0.0
	Door frame		Metal	Blue	Intact	0.0
AD 219	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0

Non-destructive Screening of Interior Painted Surfaces

XRF Readings

Site Location: San Rafael High School, San Rafael, California
Building: AD Building
Inspector: Bob Gerhold & Mike Gerhold Date: January 8, 2021

Location	Component	Wall	Substrate	Color	Paint Condition	Reading (mg/cm2)
AD 219 (con't)	Door		Metal	Blue	Intact	0.0
	Door frame		Metal	Blue	Intact	0.0
AD 213	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Door		Metal	Blue	Intact	0.0
	Door frame		Metal	Blue	Intact	0.0
South Wing						
AD 226	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Door frame		Metal	Blue	Intact	0.0
AD 220	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	Gray	Intact	0.0
	Window		Metal	Gray	Intact	0.0
	Window frame		Wood	Beige	Intact	0.0
AD 218	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	Gray	Intact	0.0
	Door		Metal	Blue	Intact	0.0
	Door frame		Metal	Blue	Intact	0.0
Open Area	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Countertop		Wood	Green	Intact	0.0
AD 216	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Window		Metal	Gray	Intact	0.0
	Window frame		Wood	Blue	Intact	0.0
AD 210	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Door		Metal	Blue	Intact	0.0
	Door frame		Metal	Blue	Intact	0.0
AD 204	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Window		Metal	Gray	Intact	0.0
	Windowsill		Wood	Beige	Intact	0.0
AD 200	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	Gary	Intact	0.1
	Door		Metal	Blue	Intact	0.0
	Door frame		Metal	Blue	Intact	0.0
AD 202	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Window		Metal	Gary	Intact	0.0
	Window frame		Wood	Beige	Intact	0.0
AD 2454A	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Door		Metal	Blue	Intact	0.0
	Door frame		Metal	Blue	Intact	0.0

Non-destructive Screening of Interior Painted Surfaces

XRF Readings

Site Location: San Rafael High School, San Rafael, California
Building: AD Building
Inspector: Bob Gerhold & Mike Gerhold
Date: January 8, 2021

Location	Component	Wall	Substrate	Color	Paint Condition	Reading (mg/cm2)
AD 245C	Wall		Drywall	White	Intact	0.0
	Wall		Drywall	White	Intact	0.0
	Window		Metal	Gray	Intact	0.0
	Window frame		Wood	Beige	Intact	0.0
Calibration 4						1.1
Calibration 5						1.1
Calibration 6						1.0