



# CITY OF PETALUMA

POST OFFICE BOX 61  
PETALUMA, CA 94953-0061

## ADDENDUM NO. 2

### Corporation Yard Tank Demolition: Phase 2 City Project No. E66502027

October 25, 2021

This Addendum No. 2 modifies the Bidding Documents for the Corporation Yard Tank Demolition: Phase 2, City Project No. **E66502027**. This Addendum shall become part of the Contract and all provisions of the Contract shall apply thereto. Bidders shall acknowledge all Addendums in the Bid Schedule.

### SECTION VI – PLANS

Sheet C16 showed the proposed Interim Housing Solutions Project, for reference. This was for reference to show the context of the adjacent project not included with the Corporation Yard Tank Demolition, but in close proximity and requiring coordination. The Interim Housing Solutions Project has been posted to the City's website under a separate bid opportunity. Please see the updated plans included INTERIM HOUSING SOLUTIONS PROJECT – IMPROVEMENT as reference for coordinating activities.

### *Additional Testing Information*

Testing information was provided within the Plans section of the Bidding Documents. An additional report of testing results have been made available and shall be appended to the information previously provided. **Please see the attached document from NorBay Consulting dated August 8, 2020.**

### QUESTIONS AND ANSWERS

**Q:** Does contractor need to hold a California license for *C21 - BUILDING MOVING, DEMOLITION* and *HAZ - HAZARDOUS SUBSTANCES REMOVAL*?

**A:** The contractor shall be licensed by the State of California for the work (or portions thereof) to be completed.

**Q:** Considering future residential development at site, please advise if demolished concrete could be processed on site and used for backfilling?

**A:** Demolished concrete should not be processed on-site for re-use.

**Q:** Given the concrete material contains lead, is it the intent to have this material disposed of at a California Non-Haz Landfill, or it's assumed the material can be recycled at the local recycler.

**A:** It is the responsibility of the contractor to dispose of the material according to applicable regulations.

Teresa Barrett  
Mayor

D'Lynda Fischer  
Mike Healy  
Gabe Kearney  
Dave King  
Kevin McDonnell  
Kathy Miller  
Councilmembers

#### *Public Works & Utilities*

City Engineer  
11 English Street  
Petaluma, CA 94952  
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Environmental Services  
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Recycling Facility  
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Transit Division  
555 N. McDowell Blvd.  
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E-Mail: [publicworks@cityofpetaluma.org](mailto:publicworks@cityofpetaluma.org)

## QUESTIONS AND ANSWERS

**Q:** Please identify which areas require Dewatering.

**A:** Water may be present in the structures or groundwater encountered in excavations which could necessitate dewatering.

**Q:** Please identify which areas require Shoring and Bracing.

**A:** It is the contractor's responsibility to ensure that demolition and excavations are completed in a manner that meets trenching and excavation safety requirements.

**Q:** The General Condition, Section 6.8 requires "A. The CONTRACTOR shall complete a daily report indicating location worked, total manpower for each construction trade, major equipment on Site, each Subcontractor's manpower and equipment, weather conditions, and other related information involved in the performance of the WORK. These components will be decided by the ENGINEER." Please provide BIDDERS with required daily-report template.

**A:** An example template will be provided, however this item is "as decided by the Engineer" and is subject to revision.

**Q:** Will contractor be responsible for Asbestos and/or Lead (if any) material disposal?

**A:** Yes.

**Q:** Please confirm the *Storm Water Pollution Prevention Plan* will be developed by ENGINEER.

**A:** The disturbance is less than one acre; therefore, a SWPPP will not be prepared. Contractor shall comply with building permit requirements as well as Federal, State and Local requirements for erosion and sediment control.

**Q:** Please confirm CITY / ENGINEER is required to review and approve the landfill material disposal profile prior to disposal

**A:** Review of the waste profile and documentation of the manifests are required as well as compliance with Federal, State and Local requirements, including building permit requirements such as the waste reduction and recycling plan.

**Q:** Are we to assume the Cabinet and floor tile removal, in the former Operations Building, is to be performed during normal business hours without any access restrictions.

**A:** Access to the Former Operations building may be allowed during normal business hours, provided that the in-use areas are adequately protected per all applicable regulations. Access to the garage areas shall be limited to the extent necessary to set up containment and cleanup activities.

**Summary of Changes:** Revised information provided on the adjacent project requiring coordination efforts. Additional testing results of site materials provided.

City of Petaluma,



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Josh Minshall, P.E.  
Senior Civil Engineer  
Public Works & Utilities Department

## *NorBay Consulting*

**LOGICAL**

**ENVIRONMENTAL**

**SOLUTIONS**

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*2400 Las Gallinas Avenue, Suite 110  
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*Phone: (415) 507-9786  
Fax: (415) 507-9760*

August 8, 2020

Mr. Ken Eichstaedt  
City of Petaluma  
Public Works & Utilities Department  
202 N. McDowell Boulevard  
Petaluma, CA 94954

**SUBJECT: PRE-DEMOLITION/RENOVATION HAZMAT INSPECTION  
FOUR STRUCTURES AT THE CORPORATE YARD  
PETALUMA, CALIFORNIA**

Dear Mr. Eichstaedt:

NorBay Consulting is pleased to provide the analytical results from the pre-demolition/renovation hazardous material inspection conducted of four structures located at the Corporate Yard in Petaluma, California. The four structures include the primary digester, secondary digester, chlorination building and the operations building. Since the buildings are scheduled to be demolished or renovated, this inspection was required as per Bay Area Air Quality Management District (BAAQMD) and Cal-OSHA regulations.

The inspection included the visual observation of suspect asbestos containing building materials, 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, visual inspection for mercury containing florescent light tubes and thermostats, visual inspection for polychlorinated biphenyls (PCB's) 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 I2108

## **EXECUTIVE SUMMARY**

NorBay Consulting performed a pre-demolition/renovation hazardous material inspection of four structures located at the Corporate Yard in Petaluma, California. The four structures include the primary digester, secondary digester, chlorination building and the operations building. Mr. Bob Gerhold, Cal-OSHA Certified Asbestos Consultant #92-0157 and CDPH Lead Inspector/Assessor #2108 and Mr. Mike Gerhold, EPA Building Inspector #44537 and CDPH Lead Sampling Technician #31696 performed the inspection on July 30, 2020.

**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-seven (37) 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.

- ◆ Black mastic on raised portion of the roof of the Secondary Digester;
- ◆ Cementitious hood panels in the lab of the Operations Building;
- ◆ White vinyl floor tile w/black mastic in the Operations Building. Please note this material was previously sampled by others.

A total of seventy-four (74) readings were collected of interior/exterior painted/coated surfaces during the inspection. In addition, six (6) calibration readings were also collected. For this report lead based paint includes readings  $\geq 1.0$  mg/cm<sup>2</sup>, lead-containing paint includes readings  $\geq 0.1$  to  $\leq 1.0$  mg/cm<sup>2</sup> and no lead detected includes readings of 0.0 mg/cm<sup>2</sup>. It is extremely important to understand that XRF readings, which have a value of 0.0 mg/cm<sup>2</sup>, 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:

- ◆ Interior green concrete wall of the Secondary Digester;
- ◆ Interior green metal window of the Secondary Digester;
- ◆ Interior yellow metal railing of the Secondary Digester;
- ◆ Interior green metal ladder to pit of the Secondary Digester;
- ◆ Interior red metal railing to pit of the Secondary Digester;
- ◆ Interior green concrete lower level wall of the Secondary Digester;
- ◆ Exterior yellow metal window and window frame of the Secondary Digester;
- ◆ Exterior yellow concrete raised platform and outer wall of the Secondary Digester;
- ◆ Exterior beige concrete stairs of the Primary Digester;
- ◆ Interior brown metal door frame of the Chlorination Building;
- ◆ Interior green metal door frame in the lab of the Operations Building;
- ◆ Exterior blue metal windows of the lab of the Operations Building.

Pre-Demolition/Renovation HazMat Inspection  
Four Structures/Buildings  
City of Petaluma Corporate Yard

In addition, certain components, both interior and exterior were found to be coated with detectable levels of lead. Disturbance of these components would be subject to Cal-OSHA Lead in Construction Standards.

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 Analytical 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.

Pre-Demolition/Renovation HazMat Inspection  
 Four Structures/Buildings  
 City of Petaluma Corporate Yard

**RESULTS**

Analytical results can be found in the following table

Sample ID	Material	Location	Results
S-Roof-1&2	Roof coating	Secondary Digester, roof, top of ladder	No Asbestos Detected
S-TP-1&2	Textured paint	Secondary Digester, roof, raised portion	No Asbestos Detected
S-Caulk-1	Gray sealant on expansion joint	Secondary Digester, roof	No Asbestos Detected
S-Mastic-1	Black mastic on raised portion of roof	Secondary, roof	5% asbestos
S-Gasket-1-1&2	Gasket (rope like)	Secondary Digester, boiler	No Asbestos Detected
S-Gasket-2-1	Gasket	Secondary Digester, equipment	No Asbestos Detected
S-Gasket-3-1	Gasket	Secondary Digester, roof, vents	No Asbestos Detected
S-IWC-1-1&2	Interior window caulking	Secondary Digester	No Asbestos Detected
S-Concrete-1-1	Interior concrete wall	Secondary Digester	No Asbestos Detected
S-Concrete-1-2	Exterior concrete wall	Secondary Digester	No Asbestos Detected
S-Concrete-2-1	Interior concrete slab	Secondary Digester	No Asbestos Detected
C-Concrete-1	Concrete wall	Chlorination Building	No Asbestos Detected
C-Concrete-2	Concrete slab	Chlorination Building	No Asbestos Detected
C-IWC-1&2	Interior window caulking	Chlorination Building	No Asbestos Detected
P-Sealant-1&2	Sealant on interior side of previous concrete core	Primary Digester	No Asbestos Detected
P-Gasket-1	Gasket material on base of piping run	Primary Digester	No Asbestos Detected
P-Gasket-2	Gasket material on equipment	Primary Digester	No Asbestos Detected
P-NSST-1&2	Non-slip tread material	Primary Digester, stairs	No Asbestos Detected
P-Concrete-1	Concrete	Primary Digester, roof	No Asbestos Detected
P-Concrete-2	Concrete wall	Primary Digester	No Asbestos Detected
P-Concrete-3	Concrete half walls	Primary Digester, roof	No Asbestos Detected
O-CFTGM-1&2	Ceramic floor tile grout & mortar	Operations Building, lab	No Asbestos Detected
O-HP-1	Cementitious hood panels	Operations Building, lab	20% asbestos

Pre-Demolition/Renovation HazMat Inspection  
 Four Structures/Buildings  
 City of Petaluma Corporate Yard

Sample ID	Material	Location	Results
O-HP-2	Cementitious hood panels	Operations Building, lab	Prior Positive Result
O-BCM-1&2	Base coving and mastic	Operations Building, hallway	No Asbestos Detected
O-BCM-3	Base coving and mastic	Operations Building, brick room	No Asbestos Detected
O-BCM-2-1&2	Base coving and mastic	Operations Building, lab	No Asbestos Detected
Previously Sampled	Lab Floor Tile	Operations Building, lab	2% in tile 5% in mastic
Previously Sampled	Lab Ceiling Tile	Operations Building, lab	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 with 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 black roofing sealant on the raised portion of the roof of the Secondary Digester and vinyl floor tile/mastic and cementitious hood panels in the Operations Building contain asbestos. NorBay Consulting recommends that a licensed asbestos abatement contractor be utilized to remove these materials prior to demolition or renovation activities taking place that would disturb them. The contractor chosen must be familiar with and abide by the strict rules and regulations regarding the removal, packaging and disposal of asbestos containing materials and/or materials containing detectable levels of asbestos.**

### 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/cm<sup>2</sup> 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/cm<sup>2</sup> (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/cm<sup>2</sup> 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/cm<sup>2</sup>, 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 cannot be interpreted as conclusively demonstrating the absence of low levels of lead.

## **RESULTS**

During our investigation a total of seventy-four (74) XRF readings were collected of various interior/exterior components and fixtures. Of these readings, nineteen (19) contained lead-based paint/glazing. Components found to contain lead based paint included the following:

- ◆ Interior green concrete wall of the Secondary Digester;
- ◆ Interior green metal window of the Secondary Digester;
- ◆ Interior yellow metal railing of the Secondary Digester;
- ◆ Interior green metal ladder to pit of the Secondary Digester;
- ◆ Interior red metal railing to pit of the Secondary Digester;
- ◆ Interior green concrete lower level wall of the Secondary Digester;
- ◆ Exterior yellow metal window and window frame of the Secondary Digester;
- ◆ Exterior yellow concrete raised platform and outer wall of the Secondary Digester;
- ◆ Exterior beige concrete stairs of the Primary Digester;
- ◆ Interior brown metal door frame of the Chlorination Building;
- ◆ Interior green metal door frame in the lab of the Operations Building;
- ◆ Exterior blue metal windows of the lab of the Operations Building.



Pre-Demolition/Renovation HazMat Inspection  
Four Structures/Buildings  
City of Petaluma Corporate Yard

In addition, certain components, both interior and exterior were found to be coated with detectable levels of lead. Disturbance of these components are subject to Cal-OSHA lead and construction standard requirements.

For a complete listing of readings see the attached 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”.

- ◆ Interior green metal window of the Secondary Digester;
- ◆ Exterior yellow metal windows of the Secondary Digester.

### **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/cm<sup>2</sup>), 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/cm<sup>2</sup> 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.

Pre-Demolition/Renovation HazMat Inspection  
Four Structures/Buildings  
City of Petaluma Corporate Yard

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/cm<sup>2</sup> by XRF are covered by this rule.

## **MERCURY CONTAINING LIGHT TUBES & THERMOSTATS**

Suspect mercury, cadmium & antimony containing florescent light tubes/vapor lamps were observed in the Secondary Digester and Operations Building. No mercury containing thermostats were observed in any of the structures.

In California, the Cal-EPA Department of Toxic Substances Control regulates the management of spent florescent light tubes/vapor lamps destined for disposal because they contain small quantities of mercury, cadmium and antimony. Florescent light tubes/vapor lamps have been classified as a "Universal Waste" under the California University Waste Rule. This rule became effective on February 8, 2002 and allows common, low hazard wastes to be managed under less stringent requirements than other hazardous wastes.

As of February 9, 2006, large and small quantity generators are required to ship their "Universal Waste" to either a universal waste transfer station, a recycling facility or a disposal facility (Title 22, Division 4.5, Chapter 23, Section 66273.8). If the florescent light tubes/vapor lamps and/or thermostats are not recycled, then they must be manifested and disposed of in a Class I landfill.

Prior to renovation activities, the light tubes/vapor lamps should be removed as a separate item and/or concurrently with other hazardous material removal. Precautions should be utilized to reduce the amount of breakage due to the potential release of mercury, cadmium and antimony particles.

## **POLYCHLORINATED BIPHENYLS (PCB'S)**

### **Ballasts**

In addition to the mercury containing florescent light tubes/vapor lamps light fixture ballasts in the Secondary Digester and Operations Building may contain polychlorinated biphenyls (PCB's). All ballasts manufactured through 1978 are magnetic ballasts that contain PCB's. Almost all older florescent light fixtures have PCB ballast because the use of PCB containing items was allowed to continue beyond the original 1978 TSCA ban.

Since the supply of PCB containing ballasts likely lasted for several years after the ban took effect, any buildings built before 1980, without a complete lighting retrofit, is likely to have PCB ballasts. Magnetic ballasts manufactured after 1978 that do not contain PCB's are labeled "No PCB's" or "PCB Free". Electronic ballasts are PCB free and should be clearly marked as electronic. If a ballast has no manufacture date or is not specifically labeled "No PCB's" or "PCB Free" it should be assumed to contain PCB's.

Two fixtures were disassembled in both the Secondary Digester and Operations Building to determine if PCB ballast were present. All four ballasts included the verbiage "No PCB's".

Pre-Demolition/Renovation HazMat Inspection  
Four Structures/Buildings  
City of Petaluma Corporate Yard

## **LIMITATIONS**

NorBay Consulting conducted this inspection and prepared this report for the sole and exclusive use of the City of Petaluma, the only intended beneficiary 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.

Please note that no subsurface investigation was conducted to determine if asbestos cement “transite” electrical or water utilities were present. The interior of the Primary Digester was not accessible and the only portion of the Operations Building inspected was the laboratory area.

Enclosed you will find the laboratory reports and chain of custody form for all asbestos bulk samples collected. In addition, a spread sheet of all lead readings is attached as well as the CDPH Form 8552.

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 #2108

Pre-Demolition/Renovation HazMat Inspection  
Four Structures/Buildings  
City of Petaluma Corporate Yard

**LABORATORY REPORTS AND  
CHAIN OF CUSTODY FORMS**

**POLARIZED LIGHT MICROSCOPY (PLM)**

# 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:** B306633  
**Date Received:** 08/03/20  
**Date Analyzed:** 08/04/20  
**Date Printed:** 08/04/20  
**First Reported:** 08/04/20

**Job ID/Site:** 7607 - City of Petaluma Corp. Yard, 400 Hopper Avenue, Petaluma, CA

**SGSFL Job ID:** 3982  
**Total Samples Submitted:** 37  
**Total Samples Analyzed:** 36

**Date(s) Collected:** 07/30/2020

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
<b>S-roof-1</b>	12328493						
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					
Cellulose (55 %)	Fibrous Glass (10 %)						
<b>S-roof-2</b>	12328494						
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					
Cellulose (55 %)	Fibrous Glass (10 %)						
<b>S-TP-1</b>	12328495						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					
Cellulose (Trace)							
<b>S-TP-2</b>	12328496						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					
Cellulose (Trace)							
<b>S-caulk-1</b>	12328497						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					
Cellulose (Trace)							
<b>S-mastic-1</b>	12328498						
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		<b>Asbestos (5%)</b>					
Cellulose (Trace)							
<b>S-Gasket-1-1</b>	12328499						
Layer: Yellow Fibrous Material			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					
Cellulose (Trace)	Fibrous Glass (99 %)						

Client Name: NorBay Consulting

Report Number: B306633

Date Printed: 08/04/20

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
<b>S-Gasket-1-2</b>	12328500						
Layer: Yellow Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)		Fibrous Glass (99 %)					
<b>S-Gasket-2-1</b>	12328501						
Layer: Black Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>S-Gasket-3-1</b>	12328502						
Layer: Red Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>S-IWC-1-1</b>	12328503						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>S-IWC-1-2</b>	12328504						
Layer: White Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>S-concrete-1-1</b>	12328505						
Layer: Off-White Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>S-concrete-1-2</b>	12328506						
Layer: Off-White Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>S-concrete-2-1</b>	12328507						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>C-concrete-1</b>	12328508						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: NorBay Consulting

Report Number: B306633

Date Printed: 08/04/20

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
<b>C-concrete-2</b>	12328509						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>C-IWC-1</b>	12328510						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>C-IWC-2</b>	12328511						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>P-sealant-1</b>	12328512						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>P-sealant-2</b>	12328513						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>P-Gasket-1</b>	12328514						
Layer: Black Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>P-Gasket-2</b>	12328515						
Layer: Black Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>P-NSST-1</b>	12328516						
Layer: Yellow Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>P-NSST-2</b>	12328517						
Layer: Yellow Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: NorBay Consulting

Report Number: B306633

Date Printed: 08/04/20

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
<b>P-Concrete-1</b>	12328518						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>P-Concrete-2</b>	12328519						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>P-Concrete-3</b>	12328520						
Layer: Grey Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>O-CFTGM-1</b>	12328521						
Layer: Brown Ceramic Tile			ND				
Layer: Grey Grout			ND				
Layer: Grey Mortar			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>O-CFTGM-2</b>	12328522						
Layer: Brown Ceramic Tile			ND				
Layer: Grey Grout			ND				
Layer: Grey Mortar			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>O-HP-1</b>	12328523						
Layer: Grey Semi-Fibrous Material		Chrysotile	20 %				
Total Composite Values of Fibrous Components:		Asbestos (20%)					
Cellulose (Trace)							
<b>O-HP-2</b>	12328524						
Comment: Sample not analyzed due to prior positive result in series.							
<b>O-BCM-1</b>	12328525						
Layer: Green Non-Fibrous Material			ND				
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>O-BCM-2</b>	12328526						
Layer: Green Non-Fibrous Material			ND				
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							



Client Name: NorBay Consulting

Report Number: B306633

Date Printed: 08/04/20

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
<b>O-BCM-3</b>	12328527						
Layer: Green Non-Fibrous Material			ND				
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>O-BCM-2-1</b>	12328528						
Layer: Black Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
<b>O-BCM-2-2</b>	12328529						
Layer: Black Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

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

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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

Job Site: City of Petaluma Corp. Yard  
400 Hopper Avenue  
Petaluma, California

Project Number: 7607  
 Analysis Requested: PLM  
 Turn Around Time: 48 hr.

Client ID	Date	Location	Description
S-Roof-1	7/30/2020	Secondary Digester, roof, top of ladder	Roof coating
S-Roof-2		Secondary Digester, roof, top of ladder	Roof coating
S-TP-1		Secondary Digester, roof, raised portion	Textured paint
S-TP-2		Secondary Digester, roof, raised portion	Textured paint
S-Caulk-1		Secondary Digester, roof	Gray sealant on expansion joint
S-Mastic-1		Secondary Digester, roof	Black mastic on raised portion
S-Gasket-1-1		Secondary Digester, boiler	Gasket (rope like type) <i>&gt; Stop on 1st position</i>
S-Gasket-1-2		Secondary Digester, boiler	Gasket (rope like type)
S-Gasket 2-1		Secondary Digester, equipment	Gasket
S-Gasket-3-1		Secondary Digester, roof, vents	Gasket
S-IWC-1-1		Secondary Digester	Interior window caulking <i>&gt; Stop on 1st position</i>
S-IWC-1-2		Secondary Digester	Interior window caulking
S-Concrete-1-1		Secondary Digester	Interior concrete wall

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

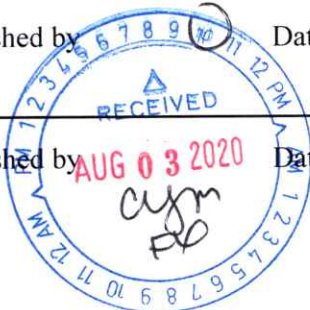
*Bob Gerhold* *7/30/2020*

Relinquished by \_\_\_\_\_ Date \_\_\_\_\_

Relinquished by \_\_\_\_\_ Date \_\_\_\_\_

Relinquished by \_\_\_\_\_ Date \_\_\_\_\_

Relinquished by \_\_\_\_\_ Date \_\_\_\_\_



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 2400 Las Gallinas Avenue, Suite 110  
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 (415) 507-9786 Phone

Job Site: City of Petaluma Corp. Yard  
400 Hopper Avenue  
Petaluma, California

Project Number: 7607  
 Analysis Requested: PLM  
 Turn Around Time: 48 hr.

Client ID	Date	Location	Description
S-Concrete 1-2	7/30/2020	Secondary Digester	Exterior concrete wall
S-Concrete 2-1		Secondary Digester	Interior concrete slab
C-Concrete-1		Chlorination Building	Concrete wall
C-Concrete-2		Chlorination Building	Concrete slab
C-IWC-1		Chlorination Building	Interior window caulking
C-IWC-2		Chlorination Building	Interior window caulking
P-Sealant-1		Primary Digester	Sealant on interior side of previous concrete core
P-Sealant-2		Primary Digester	Sealant on interior side of previous concrete core
P-Gasket-1		Primary Digester, roof	Gasket material on base of piping run
P-Gasket-2		Primary Digester, roof	Gasket material on equipment
P-NSST-1		Primary Digester, stairs	Non-slip tread material
P-NSST-2		Primary Digester, stairs	Non-slip tread material
P-Concrete-1		Primary Digester, roof	Concrete

Stop on 1st positive

Stop on 1st positive

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

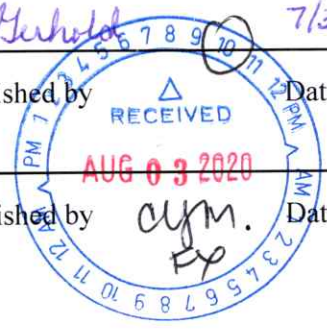
Bob Gerhold 7/30/2020

Relinquished by \_\_\_\_\_ Date

Relinquished by \_\_\_\_\_ Date

Relinquished by ajm. Date

Relinquished by \_\_\_\_\_ Date



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

Job Site: City of Petaluma Corp. Yard  
400 Hopper Avenue  
Petaluma, California

Project Number: 7607  
Analysis Requested: PLM  
Turn Around Time: 48 hr.

Client ID	Date	Location	Description
P-Concrete-2	7/30/2020	Primary Digester	Concrete wall
P-Concrete-3		Primary Digester, roof	Concrete half walls
O-CFTGM-1		Operations Building, lab	Ceramic floor tile grout & mortar
O-CFTGM-2		Operations Building, lab	Ceramic floor tile grout & mortar
O-HP-1		Operations Building, lab	Cementitious hood panels
O-HP-2		Operations Building, lab	Cementitious hood panels
O-BCM-1		Operations Building, hallway	Base coving and mastic
O-BCM-2		Operations Building, hallway	Base coving and mastic
O-BCM-3		Operations Building, brick room	Base coving and mastic
O-BCM-2-1		Operations Building, lab	Base coving and mastic
O-BCM-2-2		Operations Building, lab	Base coving and mastic

Stop on 1st positive  
Stop on 1st positive

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

Bob Gerhold

7/30/2020

Relinquished by

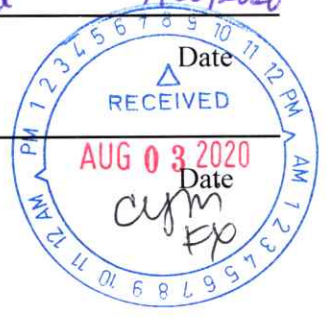
Relinquished by

Date

Relinquished by

Relinquished by

Date



Pre-Demolition/Renovation HazMat Inspection  
Four Structures/Buildings  
City of Petaluma Corporate Yard

## **XRF READINGS**

**Readings shaded in gray indicate lead based paint**

**Readings shaded in green indicate lead containing paint**

## Non-destructive Screening of Interior/Exterior Painted Surfaces

### XRF Readings

Site Location: City of Petaluma Corporate Yard, Petaluma, California

Building: Interior & Exterior

Inspector: Bob Gerhold & Mike Gerhold

Date: July 30, 2020

Location	Component	Wall	Substrate	Color	Paint Condition	Reading (mg/cm <sup>2</sup> )
<b>Calibration 1</b>						1.0
<b>Calibration 2</b>						1.0
<b>Calibration 3</b>						1.1
<b>Secondary Digester</b>						
<b>Interior</b>	Wall		Wood	Green	Intact	0.1
	Wall		Wood	Green	Intact	0.2
	Wall		Concrete	Green	Intact	1.2
	Wall		Concrete	Green	Intact	1.5
	Window		Metal	Green	Damaged	1.8
	Floor		Concrete	Red	Intact	0.0
	Floor		Concrete	Red	Intact	0.0
	Boiler		Metal	Blue	Intact	0.0
	Boiler		Metal	Blue	Intact	0.0
	Piping		Metal	Green	Intact	0.0
	Piping		Metal	Green	Intact	0.0
	Electrical panel		Metal	Blue	Intact	0.0
	Electrical panel		Metal	Blue	Intact	0.0
	Railing		Metal	Yellow	Intact	7.2
	Lower level piping		Metal	Green	Intact	0.0
	Lower level piping		Metal	Green	Intact	0.0
	Lower level piping		Metal	Red	Intact	0.0
	Lower level piping		Metal	Red	Intact	0.0
	Ladder to pit		Metal	Green	Intact	4.6
	Railing to pit		Metal	Red	Intact	5.3
	Lower level wall		Concrete	Green	Intact	1.7
<b>Exterior</b>	Wall		Concrete	Beige	Intact	0.4
	Wall		Concrete	Beige	Intact	0.5
	Window		Metal	Yellow	Damaged	5.3
	Window		Metal	Yellow	Damaged	5.4
	Window frame		Metal	Yellow	Intact	3.4
	Window frame		Metal	Yellow	Intact	2.8
	Piping		Metal	Red	Intact	0.0
	Piping		Metal	Red	Intact	0.0
	Raised platform		Concrete	Yellow	Intact	0.5
	Raised platform		Concrete	Yellow	Intact	1.0
	Piping		Metal	Red	Intact	0.0
	Piping		Metal	Blue	Intact	0.0
	Outer wall		Concrete	Yellow	Intact	1.4
	Piping to primary		Metal	Beige	Intact	0.0
	Piping to primary		Metal	Beige	Intact	0.0
<b>Primary Digester</b>						
<b>Exterior</b>	Wall (lower)		Concrete	Beige	Intact	0.0
	Wall (lower)		Concrete	Beige	Intact	0.0
	Wall (upper)		Concrete	Beige	Intact	0.0
	Wall (upper)		Concrete	Beige	Intact	0.0
	Railing		Metal	Beige	Intact	0.3
	Stairs		Concrete	Beige	Intact	1.5
	Stairs		Concrete	Beige	Intact	1.6



Pre-Demolition/Renovation HazMat Inspection  
Four Structures/Buildings  
City of Petaluma Corporate Yard

**CALIFORNIA DEPARTMENT OF  
PUBLIC HEALTH  
FORM 8552**



**LEAD HAZARD EVALUATION REPORT****Section 1 — Date of Lead Hazard Evaluation** July 30, 2020**Section 2 — Type of Lead Hazard Evaluation (Check one box only)**
 Lead Inspection     
  Risk assessment     
  Clearance Inspection     
 Other (specify) Pre Demolition/Renovation
**Section 3 — Structure Where Lead Hazard Evaluation Was Conducted**

Address [number, street, apartment (if applicable)] <b>400 Hopper Street</b>		City <b>Petaluma</b>	County <b>Sonoma</b>	Zip Code <b>94952</b>
Construction date (year) of structure <b>Various Dates</b>	Type of structure <input type="checkbox"/> Multi-unit building <input type="checkbox"/> School or daycare <input type="checkbox"/> Single family dwelling <input checked="" type="checkbox"/> Other <u>City</u>		Children living in structure? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't Know	

**Section 4 — Owner of Structure (if business/agency, list contact person)**

Name <b>City of Petaluma - Public Works</b>		Telephone number <b>(707) 776-3672</b>		
Address [number, street, apartment (if applicable)] <b>202 N. McDowell Boulevard</b>		City <b>Petaluma</b>	State <b>California</b>	Zip Code <b>94954</b>

**Section 5 — Results of Lead Hazard Evaluation (check all that apply)**

No lead-based paint detected     
  Intact lead-based paint detected     
  Deteriorated lead-based paint detected  
 No lead hazards detected     
 Lead-contaminated dust found     
 Lead-contaminated soil found     
 Other \_\_\_\_\_

**Section 6 — Individual Conducting Lead Hazard Evaluation**

Name <b>Bob Gerhold</b>		Telephone number <b>(415) 507-9786</b>		
Address [number, street, apartment (if applicable)] <b>2400 Las Gallinas Avenue, Suite 110</b>		City <b>San Rafael</b>	State <b>California</b>	Zip Code <b>94903</b>
CDPH certification number <b>I2108</b>	Signature <i>Bob Gerhold</i>		Date <b>8/10/2020</b>	

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

**Mike Gerhold, CDPH.LST #31696****Section 7 — Attachments**

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
- B. Each testing method, device, and sampling procedure used;
- C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health  
 Childhood Lead Poisoning Prevention Branch Reports  
 850 Marina Bay Parkway, Building P, Third Floor  
 Richmond, CA 94804-6403  
 Fax: (510) 620-5656

Pre-Demolition/Renovation HazMat Inspection  
Four Structures/Buildings  
City of Petaluma Corporate Yard

## **PHOTOGRAPHS OF HAZARDOUS MATERIALS**

Pre-Demolition/Renovation HazMat Inspection  
Four Structures/Buildings  
City of Petaluma Corporate Yard



Asbestos cementitious “transite” hood panels in the lab of the Operations Building



Asbestos containing 9” vinyl floor tile w/black mastic in the Operations Building

Pre-Demolition/Renovation HazMat Inspection  
Four Structures/Buildings  
City of Petaluma Corporate Yard



Lead based interior green metal windows of the Secondary Digester



Asbestos containing black mastic on the raised portion on the roof of the Secondary Digester

Pre-Demolition/Renovation HazMat Inspection  
Four Structures/Buildings  
City of Petaluma Corporate Yard



Lead based interior green concrete wall, green metal ladder to pit, and red metal railing on the lower level of the Secondary Digester

**A signed copy of this Addendum and the attached acknowledgement form shall be attached to the bid proposal. Failure to do so may cause rejection of your bid as being non-responsive.**

**ADDENDUM NO. 2**

**Corporation Yard Tank Demolition: Phase 2  
City Project No. E66502027**

**October 25, 2021**

**ACKNOWLEDGEMENT**

Receipt of Addendum No. 2 is hereby acknowledged by \_\_\_\_\_  
(Contractor's Name)

on the \_\_\_\_\_ day of \_\_\_\_\_, 2021.

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Company