



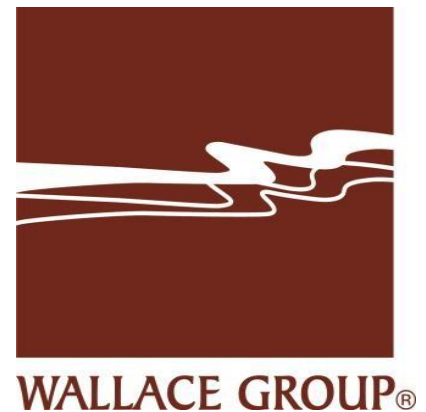
CITY OF MARINA

**STOCKADE COMPLEX HAZARDOUS MATERIAL ABATEMENT
AND BUILDING REMOVAL PROJECT**

**HAZARDOUS MATERIAL ABATEMENT AIR
MONITORING AND INSPECTION PLAN**

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Hazardous Material Abatement, Removal & Disposal:

Submittal Review:

- Vista will review environmental submittals outlined in the specification and all other existing documentation prior to start to gain a deeper understanding of the full scope of the project.
- Vista will provide a Submittal Review Form to the abatement contractor identifying which submittal items have been reviewed and if the documents are accepted, missing, or accepted with conditions. Vista will conduct multiple rounds of reviews, as needed, until submittals are deemed accepted, and abatement can begin.

Air Monitoring and Observation Services:

- Vista will perform a pre-abatement visual assessment of the project site to assess any changes in the hazardous materials condition from the 2017 survey report that would warrant additional pre-cleaning or MBARD reclassification from non-friable to friable categories.
- Vista will attend a scope of work walkthrough with the abatement company to discuss their work plan and the overall scope and expectations of the project.
- Prior to abatement inside every regulated area or containment Vista will conduct a pre-visual inspection of containment setup and proposed removal methods to make sure it is in compliance with the project specifications and pertinent regulations.
- Vista will provide Air Monitoring and Observation services for the duration of the Abatement and Hazmat services. Vista will collect daily asbestos and/or lead air samples as necessary during abatement to be sent to an accredited laboratory for analysis and update the Wallace Group on the results of those samples.
- Vista will perform daily observation and monitoring of the abatement and removal of the hazardous materials at the Project Site. Observation includes visual inspections of work area cleanliness and thoroughness in compliance with regulations, and inspections of surrounding areas to verify materials have not migrated outside the designated work areas.
- Vista will record daily activity on field forms that inform the owner of what occurred on the site as it pertains to the abatement. Upon completion of the abatement activity, Vista will provide the owner or the owner's representative with a clearance memo for the phase of the project that has been completed.
- At the completion of the abatement activity, Vista will conduct a final visual to assure the contractor removed the materials in accordance with the project documents.
- Vista will perform area air monitoring utilizing Phase Contrast Microcopy (PCM) for asbestos, as needed. PCM air samples will be collected and read on-site by our NIOSH 582 trained and AIHA PAT program proficient technicians. Clearance air samples will be sent to an accredited laboratory with a 24-hour turnaround time.
- Vista will also collect up to 2 lead air samples per shift, as necessary. All lead air samples will be sent to an accredited laboratory for analysis on 24-hour turnaround time.
- Vista will field manage hazardous, non-hazardous manifests and monitor all waste shipments from the site. Waste shipments will be recorded on a spreadsheet and will include landfill weight ticket results obtained from the abatement contractor.

On-Site Presence

- A member of Vista's professional staff will be onsite daily to verify site conditions for each structure being abated and monitor and record the activities of the abatement contractor to ensure they are abiding by all regulations governing such work.
- Any abatement contractor deficiencies that cannot be corrected immediately in the field will be communicated to the Wallace Group.
- Vista's staff will act as liaison to MBARD inspectors during their site visits. Any comments or concerns from them will be communicated to the project team.

Stockade Buildings Removal & Disposal:

During the removal and disposal of Stockade buildings identified in this project, Vista will perform fence line lead air sampling, as well as upwind and downwind dust monitoring.

Vista will provide a technician to this project for the following:

- Fence line lead air sampling will be conducted. Up to 2 lead air samples will be collected per shift. Samples will be submitted under proper chain of custody procedures to an accredited laboratory for analysis on a 24-hour turnaround.
- Vista's technician will set-up two TSI 8533 DRX DustTrak machines daily for continuous monitoring of dust PM10 levels: one at the upwind perimeter of the work area and one in a downwind location. DustTrak machines will be mounted on tripods approximately 5 feet above the ground surface.
- One Kestrel 2000 pocket wind meter will be used to measure wind speed and direction every 30 minutes. Weather conditions will also be recorded.
- DustTrak locations will be adjusted throughout the day based on changes in wind pattern.
- Monitoring data will be recorded on a regular time interval of approximately every 30 minutes to manually record the following parameters: date; time; field activity; sampling locations; wind speed and direction; weather conditions; dust monitor levels in mg/m³; and corrective actions taken (if applicable).
- Demolition contractor activities will be recorded on Daily Field Logs. Vista will observe if the contractor follows MBARD Rule 439 – Building Removal especially in regard to visible emissions (wetting) and work practice standards including work being prohibited when peak wind speed exceeds 15 miles per hour.
- Any demolition contractor deficiencies that cannot be corrected immediately in the field will be communicated to the Wallace Group.
- Vista's staff will act as liaison to MBARD inspectors during their site visits. Any comments or concerns from them will be communicated to the project team.
- If sub-surface utility piping such as asbestos-cement or tar wrapped piping is discovered during the demolition/grading, Vista will observe activities and air monitor as per the hazardous materials abatement approach.