

November 12, 2024
Project No. 210042025

Rule1403Notifications@scaqmd.gov

Attention: Supervisor
South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, California 91765

Subject: Procedure 5 Plan
Colorado Lagoon Open Channel Project
5355 East Eliot Street
Long Beach, California 90803

To Whom It May Concern:

On behalf of the City of Long Beach (City), Ninyo & Moore has prepared this Procedure 5 (P5) Plan for asbestos abatement activities planned for the Colorado Lagoon Open Channel Project located at 5355 East Eliot Street in Long Beach, California (site; 33.76945,-118.13049). This P5 plan has been prepared by a California Division of Occupational Safety and Health (Cal-OSHA) Certified Asbestos Consultant (CAC). Current certification documentation is presented in Attachment A.

The City has retained the services of a licensed asbestos abatement contractor (Contractor) to complete the abatement activities associated with this P5. The scope of work for the project involves the abatement and disposal of damaged asbestos-containing cementitious material that was discovered during excavation activities at the site. The removal and clean-up activities will be performed in accordance with the South Coast Air Quality Management District (SCAQMD) Guidelines for Asbestos Site Clean-Up Rule 1403 Procedure 5 Plans.

BACKGROUND

The City is planning to create a tidally influenced open channel connection between Colorado Lagoon and Alamitos Bay. The active construction site is currently fenced off and the asphalt pavement has been removed. During excavation activities performed by Reyes Construction, Inc.; suspected asbestos-containing cementitious pipes, bituminous pipe, and cementitious pipe debris were discovered. Upon discovery, Ninyo & Moore was requested to survey and assess the newly discovered materials. No fire damage was observed at the site and the damaged asbestos-containing materials (ACM) were demarcated with asbestos warning tape, safety cones and covered with 6-mil polyethylene sheeting.

On October 18 and 21, 2024, Mr. David Pacheco, a Department of Occupational Safety and Health (DOSH) Certified Site Surveillance Technician (CSST, No. 22-7188) performed an asbestos survey and sampling of the accessible damaged ACM at the site. The survey and sampling was performed under the supervision of Mr. David M. Kelly, a DOSH CAC (#23-7217). Ninyo & Moore’s findings and results are summarized in the “Asbestos Sampling Report, Colorado Lagoon Open Chanel Project, Long Beach, California, dated October 24, 2024.” The survey and sampling activities were requested by the City representative in order to determine if the newly discovered suspected ACMs have been identified at the site.

Based on the information provided from the City of Long Beach Point of Contact, it is unknown how and or when the asbestos-containing cementitious pipe debris were buried at the site and based on the planned construction activities, the identified ACMs will be abated as part of this P5 Plan. Since there will be additional excavation activities at the site in support of the tidally influenced open channel connection project, there may be additional asbestos-containing cementitious pipe debris discovered and it is requested that this Procedure 5 plan remain active until the project is completed.

SCOPE OF WORK

The scope of work for this P5 Plan is to abate all of the identified ACM debris and any additional ACM debris that may be discovered during excavation activities. The ACMs are to be removed by the abatement contractor and a CAC or CSST will perform ongoing abatement monitoring, a visual assessment, and soil sampling upon completion.

SUMMARY OF ASBESTOS ABATEMENT AND DECONTAMINATION TASKS

Table 1 (below) summarizes the ACM planned for abatement (removal) as part of this P5 abatement project.

Material	Location	Approximate Quantity	Abatement/Decontamination
Cementitious pipe debris	Site, above ground (Area 3)	30 SF	Abatement
Impacted soil	Site, above ground (Area 2 & 3)	40,000 SF	Abatement/Decontamination
Excavator	Site (Area 2)	600 SF	Decontamination
Cementitious pipe debris	Site, below ground surface	50 SF	Abatement

Notes:
 SF – square feet
 & - and

If upon new discoveries, the quantities of ACM vary from the totals in Table 1, an updated notification will be made to SCAQMD by the abatement contractor.

PERSONNEL UTILIZATION

The work will be performed by persons knowledgeable, qualified, and trained in the removal, treatment, handling, and disposal of the ACMs. In addition, such persons will comply with applicable United States Environmental Protection Agency (EPA), Occupational Safety and Health Standards of the Department of Labor, Cal-OSHA, SCAQMD, and local mandates. The Contractor will be licensed in the State of California in accordance with the provisions of Chapter 9 of Division 3 of the Business and Professions Code, as amended, and will be currently certified by Cal-OSHA in asbestos abatement. All abatement activities will be handled by DOSH Certified Asbestos Workers under the direction of a Cal-OSHA Certified Asbestos Supervisor. The work performed shall comply with the requirements for this P5 plan and must be performed solely by the asbestos abatement contractor that submits the notification for this P5 plan. A CAC or CSST under the supervision of a CAC, will perform the oversight of the P5 abatement.

PROVISIONS FOR SITE PREPARATION AND CONTROL

The Contractor will provide a worker decontamination unit in compliance with the EPA guidelines, including a portable toilet and a hand-washing facility. A decontamination enclosure will be provided where workers will enter and exit the regulated work area. The work location will be demarcated with asbestos warning tape and posted with warning signs meeting the specifications of Title 8 California Code of Regulations (CCR) 1529 and 29 Code of Federal Regulations (CFR) 1926.1101. The Contractor will keep all unauthorized personnel from entering the demarcated area inside the posted barrier tape and signage. The Contractor will work with the City and the 3rd Party Consultant to determine waste disposal bin storage locations which will also require demarcation/signage in accordance with Title 8 CCR 1529, and 29 CFR 1926.1101. In addition, all asbestos abatement work shall be conducted per specifications and/or procedures in accordance with SCAQMD Rule 1403.

Access to the regulated area will only be permitted for properly trained and certified personnel (CACs, CSSTs, and persons with Asbestos Worker and/or Asbestos Competent Person/Supervisor training, as defined in 40 CFR 763).

ENGINEERING WORK PRACTICES AND ASBESTOS EMISSION CONTROLS

Workers working within the regulated area will don single full-body protective Tyvek suits with integral head and foot coverings, and half-face or full-face air purifying respirators equipped with high-efficiency particulate (HEPA) air filters. A three-stage decontamination enclosure will be provided at the location where workers will enter and exit the regulated work area. The Contractor will perform abatement using non-powered manually operated hand tools (no powered equipment will be used during the abatement) and continually wet ACM with amended water during the removal activities to

minimize airborne asbestos fibers. An excavator can be used to assist with the ACM that is too heavy for personnel to remove without mechanical advantage. Specific restrictions are detailed below. All of the abatement and removal will be consistent with SCAQMD Rule 1403 and Title 8 CCR 1529.

The following restrictions will be followed when using an excavator:

- The excavator will not be used to perform the abatement to remove ACM from the surface of the material.
- The bucket with a thumb attachment is the only portion allowed within the regulated work area and the treads will not enter the regulated work area as they cannot be decontaminated.
 - If the arm of the excavator is unable to reach new material within the regulated work area, an area must be abated and cleared, with a documented clearance, before the excavator can move into the new area.
- The excavator will only pivot to an area within the regulated work area where ACM is located that is too heavy for personnel to remove without mechanical advantage.
 - The excavator will not travel while holding ACM, unless the ACM has been double wrapped (burrito wrapped).
- The bucket with a thumb attachment will be decontaminated before the excavator is moved to a new location.

ABATEMENT OF MATERIALS (EXECUTION)

ACM Debris

Amended water will be applied to the ACM debris and contaminated soil within the areas where ACM debris are observed. All ACM debris and approximately 6-inches of contaminated soil around and directly below the ACM debris will be double-bagged with transparent, leak-tight 6-mil polyethylene bags (goose-neck tied).

Upon completing the removal of the ACM debris and contaminated soil around ACM debris, the remaining soil will be sampled by a CAC and or CSST for asbestos to verify the extent of the asbestos-contamination within the soil. If the soil is found to contain asbestos, the abatement contractor will continue to follow the P5 work plan for the contaminated soil by removing approximately one cubic foot of soil where any asbestos soil sample was reported to contain asbestos. The soil will be double-bagged and will be properly labeled as required by SCAQMD Rule 1403 and Title CCR 1529.

All of the double-bagged materials will be properly labeled as required by SCAQMD Rule 1403 and Title 8 CCR 1529. Once all of the ACM debris and asbestos-contaminated soil have been properly double bagged and labeled, powered equipment can be used to assist with transporting the material

into a lockable, enclosed, waste storage bin that is lined with two layers of 6-mil polyethylene sheeting.

All equipment, such as tools and containers, shall be confined to the work area until the work is complete, containers are sealed, and equipment has been properly decontaminated and safely stored for transport. All of the bagged ACM debris, asbestos-contaminated soil, Tyvek suits, and rags used will be double-bagged with transparent, leak-tight 6-mil polyethylene bags (goose-neck tied) and properly labeled as required by SCAQMD Rule 1403 and Title 8 CCR 1529. All of the bags will be placed in a lockable enclosed waste storage bin that is lined with two layers of 6-mil polyethylene sheeting.

Decontamination of Excavators

The excavators horizontal and vertical surfaces will be cleaned initially with vacuums equipped with high-efficiency particulate air (HEPA) filters. Then the horizontal and vertical surfaces will be wet wiped and then will be cleaned a second time with vacuums equipped with HEPA filters. All rags used to wet wipe surfaces will be disposed of with the ACM and will be double-bagged with transparent, leak-tight 6-mil polyethylene bags (goose-neck tied) and properly labeled as required by SCAQMD Rule 1403 and Title 8 CCR 1529. All of the bags will be placed in a lockable enclosed waste storage bin that is lined with two layers of 6-mil polyethylene sheeting.

ADDITIONAL SUSPECT ACMS

Since there will be additional excavation activities at the site in support of the tidally influenced open channel connection project, there may be additional asbestos-containing cementitious pipe debris discovered. The information and location of any additional suspect ACM discovered during abatement and or excavation activities will be immediately brought to the attention of the CAC or CSST. The CAC or CSST will assess additional suspect ACM and collect samples of the material to be analyzed for asbestos content. In addition, if additional suspect ACM debris are discovered during excavation, the excavator will stop work and the ACM debris will be removed by following the abatement of materials outlined in this P5 plan.

AIR MONITORING

Daily personal air monitoring will be conducted by the Contractor to determine airborne concentrations of asbestos to which workers are exposed. Communication of the results will be provided to their workers, and to the on-site CAC or CSST, upon receipt (daily).

The CAC or CSST will conduct perimeter air monitoring during abatement activities, to verify that engineering controls are in place and functioning properly. Air monitoring will be performed in

accordance with CCR Section 1529 (g)(4)(B)(2). At a minimum, air samples will be collected in at least two perimeter locations during asbestos removal activities being performed. Samples may not exceed the established ambient background level or EPA recommended level of 0.01 fibers per cubic centimeter (f/cc). If exceedance occurs, the Contractor will make adjustments to work practices in accordance with direction from the on-site CAC or CSST. Samples will be analyzed by Phase Contrast Microscopy (PCM) in accordance with National Institute for Occupational Safety and Health (NIOSH) Method 7400 using a 48-hour turnaround time.

CLEARANCE LEVELS

Following the completion of ACM removal work activities, the CAC or CSST will perform a visual evaluation. After a visual evaluation has been provided and is found to be acceptably clean of visible ACM, the soil will be evaluated and sampled for asbestos. Soil samples will be collected and submitted to an accredited independent laboratory certified by the National Voluntary Laboratories Accreditation Program. Samples will be analyzed by Polarized Light Microscopy Qualitative analysis. If the samples are reported to contain asbestos, the samples will be further analyzed by Transmission Electron Microscopy, California Air Resources Board 435 method in accordance with Title 17 CCR Section 93105. If the soil is determined to contain less than 0.25% asbestos, the soil can be reused at the site as a back-fill material and the contractor will follow the previously provided Asbestos Dust Management Plan. All of the findings and associated air sampling and soil sampling laboratory reports will be documented and provided to the City.

HANDLING, STORAGE, DISPOSAL, AND TRANSPORTATION OF ACM WASTE TO LANDFILL

The Contractor will collect and transfer all waste to be removed from the site. All waste from the abatement tasks shall be double-wrapped in appropriately labeled and packaged units within the containment, prior to transportation. All ACMs will be disposed of as friable hazardous asbestos-containing waste. All bags shall be labeled as follows:

- Warning labels will have letters of sufficient size and contrast as to be readily visible and legible, and will contain the following information, or as specified by Occupational Safety and Health Administration (OSHA) under 29 CFR 1910.1001(j)(2) or 1926.58(k)(2)(iii), or current Cal-OSHA requirements:

**DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD**

- Each bag that will be transported off-site shall be labeled with the name of the waste generator and the location at which the waste was generated.

Transportation/Disposal

The Contractor is responsible for waste disposal. The hazardous waste hauler will transfer the waste to a certified waste disposal facility. The waste will be accompanied by a traceable Waste Shipment Record which shall include, but not be limited to, the following:

- The name, address, and telephone number of the waste generator;
- The name, address, and telephone number of the SCAQMD;
- The quantity of asbestos-containing waste material in cubic meters or cubic yards;
- The name and telephone number of the disposal site owner and operator;
- The name and physical site location of the disposal site;
- The date transported;
- The name, address, and telephone number of the transporter; and
- A signed certification that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and in proper condition for highway transport according to applicable federal, state, and local regulations.

ASBESTOS CLOSEOUT REPORT

Upon completion of asbestos abatement, the Contractor will provide the City's 3rd Party consultant with asbestos disposal documentation (waste manifests, waste shipping records). The consultant will prepare a Closeout Report with disposal documentation and air monitoring results for submittal to the City. As discussed in the clearance levels, all results of any clearances (visual, air, wipe, etc.) will be documented and the documentation will be provided to the client.

INVOLVED PARTIES

South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, California 91765-4182
Phone (909) 396-3660

Harati Solutions (Construction Manager)
Michell Baylor Harati
2110 Artesia Boulevard
Redondo Beach, CA 90278
P: (323) 595-9272
michelle.harati@HaratiSolutions.com

Reyes Construction (General Contractor)
John Vogelsang
1383 South Signal Drive
Pomona, CA 91766
P: (909) 622-2259
JLee@reyesconstruction.com

Janus Corporation, Inc. (Abatement Contractor)
Campbell Scott
2025 Tandem Way
Norco, CA 92860

Phone (951) 479-0700
campbells@januscorp.com
City of Long Beach
Charlene Angusco
411 West Ocean Boulevard
Long Beach, California 90802
Phone (562) 570-2855
Charlene.Angusco@longbeach.gov

Ninyo & Moore (Consultant)
David M. Kelly, CAC #23-7217
475 Goddard, Suite 200
Irvine, California 92618
Phone (949) 753-7070
dkelly@ninyoandmoore.com

DISCLAIMER

This asbestos site clean-up plan was prepared by Ninyo & Moore per the request of the City. The clean-up effort, including but not limited to, engineering controls and locations to be cleaned are based on site observations and recommendations provided by Ninyo & Moore.

No warranties expressed or implied are made by Ninyo & Moore or its employees as to the use of any information, apparatus, product, or process disclosed in this report. Though reasonable efforts have been made to assure correctness, the Contractor performing the work should bring any discrepancies to the immediate attention of Ninyo & Moore.

We have employed state-of-the-art practices to perform this analysis, but this evaluation is limited in scope to ACM easily accessible to a visual inspection. Our services consist of professional opinions and recommendations made in accordance with generally accepted engineering principles and practices and are designed to provide an analytical tool to assist the client. Ninyo & Moore or those representing Ninyo & Moore bear no responsibility for the actual condition of the structure or safety of a site pertaining to asbestos and/or asbestos contamination regardless of the actions taken by the client.

We appreciate this opportunity to be of service on this project.

Sincerely,
NINYO & MOORE



David M. Kelly, Certified Asbestos Consultant
No. 23-7217
Senior Project Environmental Scientist

DAP/DMK/SJW/lva

Attachment: A – Certified Asbestos Consultant Certification



Stephen J. Waide, CIH, CSP, CIEC, CMC
Principal Environmental Scientist



ATTACHMENT A

Certified Asbestos Consultant Certification

DEPARTMENT OF INDUSTRIAL RELATIONS

Division of Occupational Safety and Health-Asbestos Certification

1750 Howe Avenue, Suite 460

Sacramento, CA 95825

(916) 574-2993 Office <http://www.dir.ca.gov/dosh/asbestos.html> actu@dir.ca.gov



208297217C

473

477

February 09, 2024

David M Kelly
26015 Okuma Road
Manifee CA 92584

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email w any changes in your contact/mailling information within 15 days of the change.

Sincerely,

Kevin Graulich
Principal Safety Engineer

Attachment: Certification Card

cc: File



Renewal – Card Attached