



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

100 Cambridge Street Suite 900 Boston, MA 02114 • 617-292-5500

Maura T. Healey
Governor

Kimberley Driscoll
Lieutenant Governor

Rebecca L. Tepper
Secretary

Bonnie Heiple
Commissioner

ASBESTOS CEMENT PIPE GUIDANCE DOCUMENT

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Prepared by the Bureau of Air & Waste

This information is available in alternate format. Please contact MassDEP at 617-292-5500.
TTY# MassRelay Service 1-800-439-2370
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I. Background

The Massachusetts Department of Environmental Protection's (MassDEP's) asbestos regulation (310 CMR 7.15) protects public health and the environment by establishing safe handling practices for demolishing or renovating buildings and structures to prevent the release of asbestos fibers from asbestos-containing materials (ACM). MassDEP's regulations require notification as well as specific removal, handling, and disposal requirements for all ACM. These work practices include removing ACM prior to demolition or renovation activities, wetting the ACM before it is removed to prevent the release of asbestos dust, fully containing the work area (e.g., with plastic sheeting) and drawing air out of the containment through an air filtration unit equipped with a HEPA filter capable of capturing asbestos fibers, sealing the wetted Asbestos-Containing Waste Material (ACWM) in leak-tight containers with asbestos labeling, and properly disposing of the waste in a landfill permitted to accept ACM or ACWM.

Asbestos cement pipes often are found in underground utility conduits and municipal water, sewer and drainage systems. Asbestos cement pipes buried below ground are considered non-friable if they are in good condition. It should be noted that active asbestos cement pipe that is exposed and is not intended to be replaced or removed and is not disturbed by repair or replacement activities may remain in place and be backfilled.

II. Purpose

This guidance document is based on the requirements in 310 CMR 7.15(12A) and explains how to safely remove, repair and dispose of asbestos cement pipes that are repaired or replaced in underground system networks owned by public and private utilities (e.g. water, sewer, electricity and gas). Its main purpose is to prevent the release of asbestos fibers into ambient air and to protect public health, safety, and the environment while removing, repairing and disposing of asbestos cement pipes.

This guidance document summarizes the requirements for underground asbestos-cement pipe that is owned by public and private utilities (e.g., pipes conveying drinking water, sanitary sewage, storm water, electricity, and gas).

This guidance document and 310 CMR 7.15(12A) only applies to asbestos-cement pipe. If at any time the owner or operator determines that the pipe they are repairing or replacing is not asbestos-cement pipe, they must comply with the applicable requirements of 310 CMR 7.15.

This document does not constitute "final agency action," and is not "regulation" as that term is used in M.G.L. c.30A. It may not be relied upon to create rights, duties, obligations or defenses, implied or otherwise, enforceable by any party in any administrative proceeding with the Commonwealth. In addition, this guidance does not exempt anyone from complying with any other applicable local, state or federal law,

including but not limited to: the United States Environmental Protection Agency (EPA) Asbestos National Emission Standards for Hazardous Air Pollutants (Asbestos NESHAP) regulation at 40 CFR part 61; the applicable United States Occupational Safety & Health Act (OSHA) standards at 29 CFR 1910 & 1926; and the Massachusetts Department of Labor Standards (DLS) regulation at 454 CMR 28.00.

III. Guidance Provisions

a. Pre-Demolition/Renovation Survey

MassDEP's asbestos regulation establishes that owners and operators (including contractors) are responsible for determining whether cement pipe in a particular utility conduit that will be repaired or replaced contains asbestos before starting demolition or renovation.

The methods described below can only be used at underground asbestos-cement pipe repair/replacement work conducted by public and privately-owned utilities or their contractors. Owners and operators who are not public or private utilities are subject to the survey requirements at 310 CMR 7.15(4) by employing or engaging an asbestos inspector to thoroughly inspect the pipe, including sampling and analysis for the presence of asbestos using approved EPA protocol.

An owner or operator (including utilities conducting pipe repair or replacement), must conduct a "thorough inspection" to determine the location and amount of any asbestos-containing pipe. A "thorough inspection" under 310 CMR 7.15(12A) shall be satisfied by one of the following three options:

- **Document Review:** The owner or operator shall review as-built plans or other documents identifying the content of particular cement pipes or pipe segments and any other material in the conduit that may be affected by a removal or repair project, provided that the documentation has been updated to reflect any repairs or alterations. "Other documents" may include analytical results from bulk sampling and asbestos analysis using an EPA-approved method, a manufacturer's Safety Data Sheet for the product as actually installed, or other irrefutable identifying information.
- **Visual Observation:** A person who has successfully completed a DLS-approved training course specific to asbestos cement pipe worker safety (e.g., the "8 hour OSHA Class II Asbestos Training: Asbestos Cement Pipe (ACP) Worker Safety" course) or another course similar in length and content that has been reviewed and approved in writing by DLS, or a DLS-licensed Asbestos Inspector, shall conduct a visual identification through field observations of the pipe to be worked on (e.g., the manufacturer's brand-label markings

indicating transite material or the source of the pipe).

- **Presumption of Asbestos Containing Material:** The owner or operator may presume that a pipe or pipe segment contains asbestos and may manage any repairs or removals in accordance with this guidance and 310 CMR 7.15(12A).

If the pipe or pipe segment is not identified as asbestos cement pipe by one of the options listed above, then the owner or operator shall comply with the requirements of 310 CMR 7.15(4) by performing a survey to determine if the pipe contains suspect asbestos-containing material.

The owner/operator of the utility system at which the asbestos cement pipe was removed, repaired or replaced must keep documentation of the pre-demolition/renovation survey, signed and dated by the person who conducted the inspection, for a minimum of two (2) years in the project file. The documentation must indicate what information was relied upon to determine whether the pipe contained asbestos. (See Attachment A for a Pre-Demolition/Renovation Survey Documentation template.)

b. Notification

A notification must be submitted to MassDEP for each asbestos-cement pipe project on an Asbestos Notification Form ANF-001/BWP AQ-04 in accordance with 310 CMR 7.15(6). The notification must be submitted at least ten (10) working days before starting asbestos cement pipe removal. The ANF-001/BWP AQ-04 and answers to frequently asked questions about filing notifications are available at:

<https://www.mass.gov/how-to/aq-04-anf-001-asbestos-removal-notification>

The asbestos notification is filed online using MassDEP's online notification system, eDEP: <https://edep.dep.mass.gov/>

If you cannot wait the requisite 10 working-day notification period prior to starting work, you will need to request an emergency waiver from the MassDEP regional office that covers the town in which the project is located. (See the response to question number 4 in the "Frequently Asked Questions" section of this guidance document for more details on how to obtain an emergency waiver.) The MassDEP staff person who approves an emergency waiver will provide a project-specific waiver number that must be entered on the notification form in the relevant field.

A notification fee, currently \$100.00, is required when filing an ANF-001/BWP AQ-04. However, asbestos abatement activities at property owned by cities, towns, counties, districts of the Commonwealth, municipal housing authorities, federally recognized Indian tribe housing authorities, state agencies, the

Massachusetts Bay Transportation Authority, and owners of owner-occupied residential properties with four or fewer units are exempt from this fee.

Owners and operators who are planning to remove or repair several pipe segments over a specific period of time may apply to MassDEP for approval of a “blanket notification”, which would cover the entire project for a time period not to exceed one (1) year. While individual ANF-001/BW AQ-04 forms would still need to be submitted for each segment of the work, the blanket approval would eliminate the ten working day advance notification requirement for the individual filings. Information regarding asbestos blanket notifications may be found at:

<https://www.mass.gov/how-to/aq-05-asbestos-blanket-notification-approval>

An application fee of \$200 is required for each application for a blanket notification approval.

c. Licensing and Training

DLS’s regulation (454 CMR 28.00) establishes requirements for the use of contractors and other asbestos specialists who are licensed or certified by that agency. Please call DLS for all licensing and training questions. Contact information can be found in response to Question 28 in the attached Frequently Asked Questions.

In lieu of hiring a DLS-licensed asbestos contractor, an owner or operator conducting asbestos abatement activity on underground asbestos cement piping may hire contractors or other entities who have completed the “8 hour OSHA Class II Asbestos Training: Asbestos Cement Pipe (ACP) Worker Safety” course developed jointly by the MWWA and UCANE, or a course similar in length and content reviewed and approved in writing by DLS, provided that the owner, operator and contractor comply with the provisions and procedures described in this guidance document. To maintain one’s qualification, DLS requires that the contractor or other entity must complete 4-hour ACP Worker Safety Refresher Training at least every 5 years after the initial training.

d. Specific Work Practice Requirements for Underground Asbestos-Cement Pipe.

Owners/operators shall ensure the work practice standards listed below are followed:

1. Asbestos-cement pipe shall be handled in a manner that will minimize the risk of making it friable ACM or releasing asbestos dust into the environment.
2. At the start of work involving asbestos-cement pipe, owners/operators shall ensure that:
 - a. The asbestos-cement pipe shall be exposed with minimal disturbance.
 - b. Mechanical excavation shall not be used within six inches of the asbestos-cement pipe.

- c. The soil within six inches of the asbestos-cement pipe shall be uncovered by hand or with a shovel.
 - d. Once the pipe has been exposed, an assessment shall be made before proceeding to determine whether the asbestos-cement pipe is damaged, cracked or broken to determine whether the requirements of Section III.d.3. or 4. (below) apply to the asbestos abatement activity.
- 3. If the assessment shows that the asbestos-cement pipe is intact and not deteriorated:
 - a. Place 6 mil (0.006 inch) thick polyethylene sheeting under the asbestos cement pipe to prevent soil contamination.
 - b. Adequately wet the asbestos-cement pipe with amended water using surfactant or liquid soap before and during removal to avoid creating airborne dust.
 - c. Separate the asbestos cement pipe at the nearest coupling (bell or compression fitting).
 - d. Slide the asbestos-cement pipe apart at the joints (no saw cutting) or use other methods that do not cause the asbestos-cement pipe to break, become friable ACM or otherwise create the potential to release asbestos fibers.
 - e. Wrap wet asbestos cement pipe in two layers of 6 mil polyethylene sheeting, seal with duct tape and label (This may be done either in the trench or adjacent to the trench). Package any other asbestos-containing debris from the abatement in accordance with 310 CMR 7.15(7)(f)(3) – e.g., while wet, place debris in two plastic bags (six-mil minimum thickness each bag, one inside the other) or in leak-proof metal, plastic or plastic lined drums with locking lids.
 - f. If the trench is filled with water, the placement of polyethylene sheeting is not required. (Refer to Question 15 for how to manage any debris that may fall into the water in the trench.)
- 4. If the asbestos-cement pipe is deteriorated or is not intact, or when the use of mechanical breakage with saws, snap or blade cutting, and/or tapping is necessary:
 - a. Place 6 mil (0.006 inch) thick polyethylene sheeting under the asbestos-cement pipe to prevent soil contamination.
 - b. Adequately wet asbestos-cement pipe with amended water where cutting or breaking will occur.
 - c. Saw cutting of asbestos-cement pipe shall only be conducted with a HEPA-shrouded vacuum attachment or wet cutting equipment, unless it is conducted within a small enclosure that isolates the area in which the saw cutting is being conducted to prevent the release of asbestos fibers to ambient air. (Note: Even when using HEPA-shrouded tools, the pipe must be kept adequately wet during cutting and at all times to prevent the potential release of airborne fibers and dust.)
 - d. Wrap wet asbestos cement pipe in two layers of 6 mil polyethylene sheeting, seal with duct tape and label (This may be done either in the trench or adjacent to the trench). Package any other asbestos-containing debris from the abatement in accordance with 310 CMR 7.15(7)(f)(3) – e.g., while wet, place

- debris in two plastic bags (six-mil minimum thickness each bag, one inside the other) or in leak-proof metal, plastic or plastic lined drums with locking lids.
5. For activities that disturb friable ACM, no visible emissions shall be discharged to the outside air during the collection, processing, packaging or transporting of any ACM or ACWM.
 6. Refer to Section “III.e.” of this guidance document for packaging, labeling, disposal, and record retention requirements.

e. Packaging, Labeling, Disposal and Record Retention

All ACWM must be packaged, labeled, transported, stored and disposed of in accordance with requirements specified at 310 CMR 7.15(15): Asbestos-containing Waste Material Packaging Requirements, 310 CMR 7.15(16): Asbestos-containing Waste Material Transport Requirements, 310 CMR 7.15(17): Asbestos-containing Waste Material Storage and Disposal Requirements, 310 CMR 7.15(18): Waste Shipment Records and Reports, and 310 CMR 19.061: Special Waste, including but not limited to the following:

- i. Place properly wrapped and labeled ACWM pipe as well as all other packaged ACWM and debris in a roll-off container(s), or covered trucks, trailers or vans that are lined with 2 layers of 6 mil polyethylene sheeting.
 - a. The container shall be an enclosed and sealed leak-tight container having proper labels and U.S. Department of Transportation placards as required.
 - b. If open-top roll-off containers are used, they must be properly sealed, labeled and secured inside a locked fenced area when they are not being loaded to prevent access by unauthorized personnel, and covered to prevent water accumulation.
- ii. Package, transport and dispose of ACWM in accordance with local, state, and federal regulations.
- iii. Complete waste shipment records must be retained for 2 years by the owner/operator of the facility that generated the ACWM.
- iv. Dispose of ACWM at a landfill permitted to accept ACWM.

Please note: “Bulk Loading”¹ of ACWM is not permitted without written approval from MassDEP - via approval of a Non-Traditional Asbestos Abatement Work Practice Application. (See BWP AQ-36 “Application for Non-Traditional Asbestos Abatement Work Practice Approval” <https://www.mass.gov/how-to/aq-36-non-traditional-asbestos-abatement-work-practice-approval> for information about how to apply for this permit.) Loading operations involving waste generated from asbestos cement pipe removal that is

¹ “Bulk Loading” means the placement of unconfined ACWM in a vehicle or container, such as a roll-off, dumpster or truck *in lieu* of packaging the ACWM in individual leak tight containers.[310 CMR 7.15(1) Definitions]

handled, packaged, labeled, containerized and stored/disposed of in accordance with Sections III.d. and III.e. of this guidance are not considered bulk loading and do not require a Non-Traditional Asbestos Abatement Work Practice Approval.

f. Visual Inspection Requirement

When asbestos cement pipe removal is repaired or replaced, the final visual inspection shall be performed by a person who has completed a DLS-approved training course specific to asbestos cement pipe worker safety (e.g., the “8 hour OSHA Class II Asbestos Training: Asbestos Cement Pipe (ACP) Worker Safety” course), or another course similar in length and content that has been reviewed and approved in writing by DLS), or by a DLS-licensed Asbestos Project Monitor.

The person conducting the final visual inspection shall:

- a. Inspect the work area to ensure there was no visible debris remaining:
 - i. In the excavation trench;
 - ii. In soil excavated from the trench;
 - iii. In the surrounding area adjacent to the trench after the removal of the asbestos cement pipe, and
 - iv. On any tools used during the removal/repair/replacement activities.
- b. Ensure that all ACWM has been removed for proper storage/disposal.

The person who conducted the final visual inspection shall sign and date the documentation of the final inspection, in a format provided by the Department, as evidence that the inspection was performed and that the condition of “no remaining visible debris” was met. Owners/operators shall keep such documentation at their regular place of business for two (2) years from the date of final visual inspection and provide it to the Department upon request. (See Attachment B for an example of a Post-Abatement Visual Inspection template.)

Frequently Asked Questions About Asbestos Cement Pipe Removal

1. What is Asbestos? Is it hazardous to your health?

Asbestos is a naturally occurring fibrous mineral consisting of any one of a number of silicates. Asbestos has been and is still used in a variety of products because of its physical properties, which make it resistant to heat, fire, and many caustic chemicals. Asbestos has been used extensively as fireproofing, an insulating agent, and for decorative purposes, among many other uses.

The physical properties that give asbestos its resistance to heat and decay are linked with several adverse human effects. Asbestos tends to break into a dust of microscopic fibers. Because of their size and shape, these tiny fibers can remain suspended in the air for long periods of time and can easily penetrate bodily tissue when inhaled or ingested. Because of their durability, these fibers can remain in the body for many years.

Asbestos is known to cause asbestosis and various forms of cancer. **Asbestosis** is a chronic disease of the lungs that makes breathing progressively more difficult, and can lead to death. Cancer can result from breathing asbestos fibers and **lung cancer** is the most frequent. **Mesothelioma**, an incurable cancer of the chest and abdominal membranes, almost never occurs without exposure to asbestos. Asbestos-related diseases have a long latency period and may not show up until 10 to 40 years after exposure. Each exposure increases the likelihood of developing an asbestos-related disease.

2. How do I know whether cement pipes contain asbestos?

Cement pipes used for public drinking water, waste water, storm drains or underground conduits may contain asbestos and should be handled in accordance with MassDEP's asbestos regulation (310 CMR 7.15) and the specific "Requirements for Underground Asbestos-Cement Pipe" (310 CMR 7.15(12A)) unless the owner possesses documentation based on sampling and analysis, in accordance with approved EPA test methods, that has shown that they do not contain asbestos. It is the obligation of anyone removing or repairing materials that contain asbestos to handle them in accordance with applicable laws and regulations. Ignorance or avoidance of this responsibility does not remove this obligation.

Up-to-date as-built plans, reviewed by the owner/operator, that accurately identify the material that pipes or pipe segments are made of can be relied on to confirm that the pipe contains asbestos. Another acceptable method for determining whether a pipe or pipe segment contains asbestos is through visual identification in the field at the time of excavation, when the pipe material is readily identifiable by observing the manufacturer's brand-label (e.g. Johns-Manville Transite) or other markings on the pipe (e.g., indicating its source). This identification must be done by a person who has completed a DLS-approved training course specific to asbestos cement pipe worker safety (e.g. the "8-hour OSHA Class II Asbestos Training: Asbestos Cement Pipe (ACP) Worker Safety" course) or another course similar in length and content that has been reviewed and approved in writing by DLS). If up-to-date as-built plans are not available and a definitive visual identification cannot be made, the owner/operator can presume the cement pipe contains asbestos and handle it in accordance with this guidance.

3. Does MassDEP have to be notified prior to beginning an asbestos cement pipe removal or repair project?

Yes, the owner/operator of a facility containing asbestos cement pipes must notify MassDEP ten working days before removing or repairing asbestos cement pipes. Notification is required no matter who is doing the removal/repair or how much asbestos cement pipe is being removed or repaired. Please note that notification is required for repairs of asbestos cement pipe using tools that are considered “non-destructive” or “fail-safe” such as metal compression patches, wet tapping, etc. (See response to Question 4 below for how to satisfy the notification requirement in the case of an emergency situation.)

4. We have an emergency and the pipe(s) need to be repaired immediately. Can we make the necessary repairs prior to submitting notification to MassDEP?

Yes, if MassDEP grants you an “emergency waiver.” Work can be performed right away by contacting the appropriate regional MassDEP office and obtaining an emergency waiver of the ten (10) working day waiting period. Follow the Asbestos Emergency Waiver Request Procedure found on the MassDEP webpage at the following link: <https://www.mass.gov/doc/emergency-waiver-request-procedures-asbestos-abatement-demolition-projects/download>. The MassDEP staff person who approves an emergency waiver will provide a project-specific waiver number that must be entered on the notification form in the relevant field.

If there is an arrangement with a licensed asbestos contractor to pickup the waste material for disposal, they will also need a waiver to submit a separate notification for the “disposal only” portion of the project. You can request both emergency waiver numbers from the MassDEP staff person at the same time. Otherwise, the one emergency waiver issued to the utility contractor will suffice in most cases.

If the emergency occurs after business hours or on a weekend, leave a detailed message including your contact information on the voicemail/email of the appropriate MassDEP regional asbestos section chief and proceed with the repairs as detailed in this document. You should then follow up with MassDEP on the following business day. You will still be required to submit an asbestos notification form ANF-001/BWP AQ-04 within 24 hours of the removal.

In addition, you can conduct the work without the required ten working day notification period if you have a MassDEP approved asbestos blanket notification. Information regarding asbestos blanket notifications may be found under the heading “BWP AQ 05 - Application for Asbestos Blanket - Form and Guidance” at the following link: <https://www.mass.gov/how-to/aq-05-asbestos-blanket-notification-approval>.

5. Is there a notification form I should use?

Notification for asbestos cement pipe removal must be made by completing and submitting to MassDEP the MassDEP-approved Asbestos Notification Form ANF-001 (also known as BWP AQ-04). The asbestos notification must be filed online via MassDEP's website: <https://www.mass.gov/how-to/file-an-aq-04-anf-001-asbestos-removal-notification>. See question number 10 below.

6. When must the notification be submitted?

The regulations require that the notification must be submitted at least ten working days in advance of the start of the asbestos cement pipe removal project. "Working days" do not include Saturdays, Sundays, or any day that MassDEP offices are closed for business, such as legal holidays.

7. When does the ten working day waiting period begin and end?

Your 10 working day waiting period will start when you submit your form, and you will receive an automatic notification that the submittal was received.

Please note that you must start work on the "start date" and end on the "end date" you indicate on the ANF-001. If you change the start date, you must revise your notification prior to the original start date indicated and allow for a full ten-day waiting period prior to the revised start date. If you need to start work sooner than ten days before the revised start date, contact the MassDEP regional office to request an emergency waiver of the ten-day waiting period. (See Emergency Waiver information found at Question 4.) If you start and end work on the dates indicated in the original notification, but work intermittently within that period, that does not require a revision – but you must notify the MassDEP regional office which days will not be performing work.

8. Will I be notified when I can begin the work?

No. Unless MassDEP alerts you of any deficiencies with your notification, you can begin work on the "project start date" you entered on the Asbestos Notification Form ANF-001. When completing the ANF-001, be sure that the "project start date" falls on or after the 10 working day wait period.

9. Is a fee required for filing an asbestos notification?

The notification fee required by MassDEP regulations (310 CMR 4.00: [Timely Action Schedule and Fee Provisions](#)) for asbestos removal is \$100 per notification. The fee for a notification revision is \$35 per revision.

Please note: owners of owner-occupied residential properties with four or fewer units, cities, towns, counties, districts of the Commonwealth, municipal housing authorities,

federally recognized Indian tribe housing authorities, state agencies and the MBTA are not subject to the asbestos notification fee. However, state agencies are subject to fees greater than \$100 (e.g., the \$200 Blanket Notification Approval application fee).

10. How do I submit the ANF-001 to the MassDEP?

Notification must be made on a current version of the MassDEP Asbestos Notification Form (ANF-001), which satisfies the requirements of both MassDEP and DLS regulations. The asbestos notification must be filed online using the eDEP online notification system available through the MassDEP's website:

<https://www.mass.gov/how-to/file-an-aq-04-anf-001-asbestos-removal-notification>.

There you will find detailed instructions and supporting information on how to create an account in the eDEP online filing system, how to file the online ANF-001 notification form, and FAQs addressing common troubleshooting tips (See:

<https://www.mass.gov/doc/bwp-aq-04-anf-001-asbestos-removal-notification-instructions/download>)

Use of the eDEP online notification system ensures that you are using the most current form, and that you have provided all required information. Filing your ANF-001 Notification online via eDEP helps avoid common mistakes. Furthermore, electronic filers can see all of the Construction/Demolition Notification Forms they have submitted on-line by clicking on the "My eDEP" tab in the upper left corner of your log-in screen. In the event that either the project start date or end date changes, triggering the requirement to file a notification revision, you are required to file a notification revision online via eDEP.

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11. Do I need to notify other government agencies in addition to the MassDEP?

You may be required to notify the local Building Department, Fire Department, or Board of Health in the city or town where the asbestos is being removed. Always contact local officials to ask what notification or permits are required. Submittal of a complete ANF-001 to MassDEP satisfies **state** (both MassDEP and DLS) and **federal** notification requirements (e.g., EPA Asbestos NESHAP) for projects that will remove or disturb asbestos-containing material.

12. Do I need to hire an asbestos contractor to repair and/or remove asbestos cement pipe?

DLS's regulation (454 CMR 28.00) establishes requirements for the use of contractors and other asbestos specialists who are licensed or certified by DLS. Please call DLS for all licensing and training questions. Contact information can be found in the response to Question 28 in the attached Frequently Asked Questions.

In lieu of hiring a DLS-licensed asbestos contractor, an owner or operator conducting asbestos abatement activity on underground asbestos cement piping may hire

Contractors or other entities who have completed the “8 hour OSHA Class II Asbestos Training: Asbestos Cement Pipe (ACP) Worker Safety” course or a course similar in length and content reviewed and approved in writing by DLS, provided that the owner, operator and contractor comply with the provisions and procedures that are described in this guidance document.

13. Can I crush the asbestos cement pipe in the trench and place new pipe over it?

No, crushing an asbestos cement pipe and leaving it in the trench is prohibited under 310 CMR 7.15. Furthermore, the EPA has determined that backfilling and burial of the crushed asbestos cement pipe would cause these locations to be considered active disposal sites and therefore subject to the “Standard for Active Waste Disposal Sites” (40 CFR 61.154).

14. Can I “ream” or “pipe burst” new water supply pipe through existing asbestos cement pipe?

No, this is not allowed because reaming or pipe bursting through an existing asbestos cement pipe would cause the existing asbestos cement pipe to become crushed and “friable” (see response to question number 13 above).

15. What if the trench is filled with water which prevents the placement of polyethylene sheeting below the asbestos cement pipe (as required in Section IV.d. – Handling Practices)?

If the trench is filled with water, the placement of polyethylene sheeting is not required, as stated in Section III.d – Specific Work Practice Requirements. However, any visible debris must be managed in accordance with the requirements of Section III.e. – Packaging, Labeling, Disposal and Record Retention and III.f. – Visual Inspection Requirement.

16. What should I do with the water in the trench?

For work on the intact asbestos cement pipe(s), first try to pump the water out to a storm drain prior to any work. If there is substantial damage to the asbestos cement pipe and there are numerous pieces immersed in standing water, then the contaminated water should be pumped out and filtered through a 5 micron filter before the water is discharged.

17. Am I required to remove asbestos cement pipe that will not be disturbed by repair or replacement activities?

No. MassDEP only requires the removal of asbestos cement pipe that is exposed and will be disturbed during repair or replacement activities.

When a section of asbestos cement pipe is being repaired or replaced, the remaining portions of that pipeline are not required to be removed, provided that they are not exposed by excavation activity.

Likewise, if a section of asbestos cement pipe that is being actively used (e.g., a utility conduit) is exposed by excavation but will not be impacted by the repair or replacement work, it may be left in place and backfilled.

18. Where can I obtain the packaging and labeling materials?

The MassDEP-required asbestos warning labels and asbestos waste bags may be obtained from industrial supply houses, insulation supply houses, or may be purchased directly from licensed asbestos contractors. Polyethylene sheeting and duct tape are widely available from hardware, home supply and other stores.

19. Can I store waste asbestos cement pipe?

Asbestos cement pipe waste material that has been properly wetted, packaged in sealed, leak-tight containers, and labeled can be temporarily stored for up to thirty (30) days at a secure location on property owned or controlled by the owner or operator of the public/private utility system or at the place of business of the company/contractor removing asbestos-cement pipe from its site of origin. The storage location must be secured (e.g., storage in a locked fenced-in area) and maintained in accordance with all federal, state and local requirements. Contact local officials to determine if temporary storage of asbestos cement pipes is allowed in your municipality.

20. Can I store unused “virgin” asbestos cement pipe?

Unused (i.e. “virgin”) asbestos cement pipe that is still suitable for use is not considered an ACWM, and is therefore not subject to the ACWM storage limitations. Measures should be taken to ensure that stored virgin asbestos cement pipe does not become deteriorated by constant exposure to the elements. If virgin asbestos cement pipe deteriorates so that it is no longer suitable for use, then it would be considered ACWM and subject to all the applicable packaging, labeling, storage and disposal requirements at 310 CMR 7.15(15) – (18).

21. Can I dispose of the asbestos cement pipes with my other solid waste?

No. The asbestos cement pipes must be managed as a “Special Waste” (requiring proper packaging, labeling, and disposal) and in Massachusetts may only be disposed of at a facility that is permitted to accept ACWM under 310 CMR 19.061 (“Special Waste” regulation).

22. How can I find a place to dispose of the asbestos cement pipes?

The best option is to hire a waste hauler or asbestos contractor to transport the asbestos cement pipes to a disposal facility. Many waste haulers and asbestos

contractors are familiar with various disposal facilities and frequently transport wastes to facilities permitted to accept ACWM.

You also can contact a landfill directly and arrange to transport the waste to the landfill yourself. ACWM can only be disposed at a solid waste landfill permitted to accept “Special Waste”, which in Massachusetts must be operated in accordance with regulatory requirements specified at 310 CMR 19.061, or in another state, in accordance with the relevant “Special Waste” permit requirements. You should contact the facility in advance of transporting ACWM for disposal.

ACWM may not be sent to an incinerator or to a construction and demolition (C&D) debris handling facility in Massachusetts. Likewise, no Massachusetts transfer stations are permitted to accept ACWM.

23. How do I find an asbestos waste hauler?

Asbestos waste haulers may be located by using any available internet search engine. Try entering/looking under topics such as "rubbish," “waste” or "asbestos." Any firm hauling ACWM must be registered with the Federal Highway Administration’s Motor Carrier Division. Contact the nearest regional MassDEP office for additional help.

24. Can I transport the waste asbestos cement pipes myself?

Waste asbestos cement pipes that have been packaged and labeled in accordance with Section III.e. – Packaging, Labeling, Disposal and Record Retention, may be transported in a covered truck, trailer or van to a secured, temporary storage location at property owned or controlled by the pipe owner or operator or at the place of business of the company/contractor that removed the asbestos-cement pipe from the excavation, as outlined in Question 19. If a van is used, the waste asbestos cement pipe should be transported in a compartment separate from the driver or passenger seats. A pickup truck bed should be covered with an impermeable tarpaulin cover and secured so that it does not allow the accumulation of rainwater. The waste containers should not be loaded above the side rails in any truck or trailer.

25. Is there any paperwork required for transporting the waste asbestos cement pipes?

Yes. Section 310 CMR 7.15(18): Waste Shipment Records and Reports section of the MassDEP Asbestos Regulation requires that an asbestos Waste Shipment Record (WSR) document accompanies each shipment of ACWM (e.g., from the site of generation to the temporary storage location, and from the temporary storage location to the final disposal site). Waste hauling companies and/or asbestos removal companies can supply WSR forms. (A template for the WSR form is available at: <https://www.mass.gov/doc/massachusetts-asbestos-waste-shipment-record-template/download>). The WSR must be signed by each company or person involved with removal, transportation and disposal of the ACWM, including the facility owner or “generator” of the asbestos. The asbestos removal contractor may sign on behalf of the owner.

Pursuant to 310 CMR 7.15(18), if a completed copy of the WSR, signed by the disposal facility to acknowledge receipt of the waste shipment, is not received back by the generator within 35 days of the initial shipment, the generator must contact the transporter or disposal facility to determine the status of the waste shipment. This section of the regulation also requires the generator to notify the MassDEP regional office in writing if the generator does not receive a signed copy of the WSR from the disposal facility within 45 days of the date of shipment. The generator, the transporter, and the disposal facility must each retain a copy of the WSR signed by all the parties for at least two years. You do not need to send a completed copy of the WSR to any regulatory agency, but MassDEP may request a copy of the WSR from any of the parties in the event of an inspection.

Additionally, transportation of asbestos (which is designated as a hazardous material for transportation) is regulated by the U.S. Department of Transportation (US DOT), which has established requirements for shipping documents, packaging, labeling, and vehicle placarding (49 CFR 173.1090): asbestos must be loaded, handled and unloaded in a manner that will minimize occupational exposure to airborne asbestos fibers released during transit. US DOT also requires that transporters carry identification papers for all quantities of asbestos greater than 1 pound. The Massachusetts state police enforce this requirement.

26. Does MassDEP have a document containing general information about asbestos?

Yes. The “Asbestos Information and Resource Guide” is available <https://www.mass.gov/doc/massdep-asbestos-information-resource-guide/download>. The guide includes contact information for various government agencies responsible for asbestos, a list of regulations governing asbestos, and general information about asbestos and asbestos removal.

27. How do I contact MassDEP for more information?

For more information on asbestos or other environmental issues, please visit MassDEP’s website at [MassDEP Employee Lookup & Office Directory | Mass.gov](#) or contact the following MassDEP officials:

Boston: (For general information about asbestos policy/regulation and notification/fees) Mike Elliott at 617-571-0824 or michael.elliott@mass.gov

Central Region: Christa Cronk at 508-965-5267 or christa.cronk@mass.gov

Northeast Region: Grady Dante at 617-921-1152 or grady.dante@mass.gov

Southeast Region: Colleen Ferguson at 617-680-6657 or colleen.ferguson@mass.gov
Emergency Waiver Hotline: 508-946-2882

Western Region: John Moriarty at 857-443-5348 or john.moriarty@mass.gov

28. How do I contact Massachusetts DLS?

For information about DLS asbestos training, certification and/or licensing, contact:

Massachusetts Department of Labor Standards/Asbestos Program

100 Cambridge Street, 5th Floor

Boston, MA 02114

Phone: 617-626-6960, Fax: 617-626-6965, Web: <https://www.mass.gov/asbestos-safety-program>

Template A: Pre-Demolition/Renovation Survey Documentation

1. Project Location:

(Street address, GPS coordinates or other location identification)

City/Town: _____, MA

2. Pre-Demolition/Renovation Survey

Survey Date: _____

MassDEP's asbestos regulation requires owners and operators (including contractors) to determine whether cement pipe in the utility conduit that will be disturbed contains asbestos. Please identify the information that was used to determine whether the pipe at this location contains asbestos by checking all applicable boxes:

☐ Accurate, up-to-date as-built plans or other utility network documents. Specify title and revision date of the as-built drawing or other documentation: _____

☐ Visual identification/ field observations of exposed pipe. Specify manufacturer's brand-label marking (e.g. "Johns-Manville Transite") or other features used to identify composition/source of pipe: _____

☐ I was physically present at the location described above and personally observed the pipe or pipe segment when it was exposed and before it was removed, replaced and/or repaired.

☐ Presumed that pipe contained asbestos.

☐ Relied on representative samples that were analyzed at a certified laboratory.

Identify Laboratory and DLS certification number: _____

Date samples were collected: _____ Date of lab report: _____

Result of the analysis (% asbestos): _____

Does the pipe (or pipe segment) that will be disturbed contain asbestos? ☐ Yes ☐ No

If "Yes", what is the MassDEP Asbestos Notification Number (ANF-001 Form)? _____

3. Qualifications. Please check the applicable box:

☐ I have successfully completed the "8 hour OSHA Class II Asbestos Training: Asbestos Cement Pipe (ACP) Worker Safety" course approved by the Massachusetts Department of Labor Standards (DLS), or a course similar in length and content reviewed and approved in writing by DLS; or

☐ I am a DLS-licensed Asbestos Inspector.

Name (please print): _____

Title/Company: _____

Signature: _____ Date: _____

Template B: Post-Abatement Visual Inspection Documentation

1. Project Location/Identification:

(Street address, GPS coordinates or other location identification)

City/Town: _____ MA

MassDEP Asbestos Notification Number (ANF-001 Form): _____

2. Post-Abatement Visual Inspection

Date of Visual Inspection: _____

When any repair/removal of an asbestos cement pipe or pipe segment is complete, a visual inspection must be done before the trench is backfilled to confirm that ALL of the following conditions have been met. Please check each condition below to document that the visual inspection confirmed:

- ☐ No visible debris was present in trench.
- ☐ No visible debris was present outside of the trench (e.g. in excavated soils and the immediately surrounding area).
- ☐ No visible contamination was seen on tools.
- ☐ All Asbestos Containing Waste Material has been removed from the area for proper disposal.
- ☐ I was physically present at the location described above and personally conducted this inspection while the pipe or pipe segment was exposed and before the trench was backfilled.

3. **Qualifications.** Please check the applicable box:

- ☐ I have successfully completed the "8 hour OSHA Class II Asbestos Training: Asbestos Cement Pipe (ACP) Worker Safety" approved by the Massachusetts Department of Labor Standards (DLS), or a course similar in length and content reviewed and approved in writing by DLS; or
- ☐ I am a DLS-licensed Asbestos Project Monitor.

Name (please print): _____

Signature: _____

Title/Company: _____

Date: _____