



Updated Public Involvement Plan

Former Varian Facility Site

150 Sohier Road
Beverly, Massachusetts 01915
MassDEP Site # 3-0485

Prepared for: Varian Medical Systems, Inc.

March 15, 2024





Public Involvement Plan 2024 Update

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Acronyms and Abbreviations

CHES	Clean Harbor Environmental Services, Inc.
CMR	<i>Code of Massachusetts Regulations</i>
CPI	Communications & Power Industries, Inc.
CSA	Comprehensive Site Assessment
IRA	Immediate Response Action
IT	IT Corporation
LSP	Licensed Site Professional
M.G.L.	Massachusetts General Law
MassDEP	Massachusetts Department of Environmental Protection
MCP	Massachusetts Contingency Plan
PCE	tetrachloroethene
Phase IV Plan	Phase IV Remedy Implementation Plan
PIP	Public Involvement Plan
PSL	Potential Source Location
RAM	Release Abatement Measure
RAP	Remedial Action Plan
RTN	release tracking number
Shaw	Shaw Environmental and Infrastructure
Site	Former Varian Facility Site
SVE	soil vapor extraction
TAG	Technical Advisory Group
TCA	1,1,1-trichloroethane
TCE	trichloroethene
Varian	Varian Medical Systems, Inc.
VOC	volatile organic compound

1. Introduction

This 2024 version of the Public Involvement Plan (PIP) was prepared by Jacobs for Varian Medical Systems, Inc. (Varian) for the Former Varian Facility Site (Site), including the former facility located at 150 Sohier Road, Beverly, Massachusetts, and surrounding properties where contamination from facility's sources has come to be located. The Site PIP was originally developed in 1993 and revised in 1996 and 2022 in accordance with the requirements of Massachusetts Department of Environmental Protection's (MassDEP) Massachusetts Contingency Plan (MCP), 310 *Code of Massachusetts Regulations* (CMR) 40.0000.

This 2024 PIP update has been prepared for the following purposes:

- Incorporating March 1, 2024, changes to the MCP (2024 MCP)
- Reflecting recent Site activities and remedial plans
- Providing revised planned public involvement activities

This document will undergo a 20-day public comment period (through April 23, 2024) and will be revised, if appropriate, based on comments submitted.

Per the MCP, the Licensed Site Professional (LSP) for the Site is responsible for overseeing response actions under the MCP, including the public involvement provisions of the regulations. The LSP for this Site is Matthew E. Hackman (matthewehackman@verizon.net). Remedial response actions include the following:

- Determining the nature, source, and extent of the contamination
- Assessing risk posed by the Site and whether cleanup actions are necessary
- Defining and implementing, if necessary, the most appropriate remediation measures

The remedial response action process is established by the MCP and also provides opportunities for public involvement throughout the process.

Public involvement during the remedial response action process is undertaken so that the public is both informed of and involved in planning for remedial response actions. For sites at which the public indicates interest in becoming involved in this process, the MassDEP designates the site as a PIP site and requires the preparation of a plan that identifies specific activities that will be undertaken to address public concerns to the extent possible.

In February 1992, MassDEP received a petition from residents of the City of Beverly requesting that the Site be designated as a PIP site under Section 14(b) of Massachusetts General Law (M.G.L.) c. 21E, the Commonwealth's "Superfund" statute. In March 1992, MassDEP designated the Site as a PIP site, requiring the preparation and implementation of a PIP. In February 1993, the MassDEP assigned Varian the responsibility of completing the PIP. Varian contracted Clean Harbor Environmental Services, Inc. (CHES) to draft the PIP and schedule a public review meeting for April 1993 (see Section 2.3).

The 1993 PIP was revised in February 1996 (Varian 1996) in accordance with the requirements of the MCP, 310 CMR 40.0000. Under the regulations in effect at that time, the Site was designated a waiver site (that is, the MassDEP did not oversee assessment and remedial work). As a result, MassDEP assigned responsibility for conducting both technical and public involvement activities at the Site to Varian. Sites subject to waivers remain responsible for complying with all of the applicable provisions of M.G.L. c. 21E and the MCP, including public involvement. The MassDEP retains the authority to ensure that public involvement activities are conducted in accordance with state law and regulations.

The 1996 PIP was revised again in October 2022 (APTIM 2022) to address investigation and remediation efforts during the prior two decades and incorporate additional requirements from the MCP. Although Varian no longer owns the property or operates the facility, Varian continues to implement public involvement activities in conjunction with the development and implementation of remedial response actions at the Site.

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Section 2 contains background information on the Site, including facility, environmental assessment activities, and public involvement histories. Section 3 explains how the remedial response action process addresses community concerns raised during the development of the PIP. Section 4 explains the proposed public involvement activities. Section 5 contains a schedule for public involvement activities. Section 6 describes how the PIP will be revised in the future, if necessary.

2. Site Background

This section retains area information presented in the 1996 and 2022 PIPs but has been updated with current Site information gathered during investigation activities conducted since 2022.

2.1 Site Description and History

The former Varian facility located at 150 Sohier Road is currently owned and operated by Communications & Power Industries, Inc. (CPI). The property was originally developed by Bomac Laboratories, Inc. in the 1950s. Varian purchased the property in 1959 and continued to develop the property. Operations at the facility have been related to manufacturing electronic equipment, such as diodes, receiver protectors, and magnetron tubes, and conducting research related to that manufacturing. Processes at the facility have included electroplating, acid and alkali cleaning, painting, etching, and equipment maintenance. The property was transferred to CPI in 1995; however, Varian remains responsible for chemical releases that occurred before 1995.

Pursuant to M.G.L. c.21E and the MCP, the disposal site is defined as the area where oil or hazardous materials from the former Varian property have come to be located. The Phase II Comprehensive Site Assessment (CSA) and other assessment activities have defined the site's boundaries.

Comprised of approximately 24 acres of land, the former Varian facility property contains three large complexes of buildings covering approximately 250,000 square feet (**Figures 1, 2, and 3**). Sohier Road and a shopping area (including a Whole Foods Market) abut the property to the northeast. Across Sohier Road to the southeast is an apartment complex (Northridge Homes); south of the property is a self-storage facility (Life Storage). Southwest of the property are a medical office building, a pediatric care building, and a school (Hopeful Journeys Education Center), with Tozer Road located further to the west. Across Tozer Road to the southwest are Danvers Packing and Tobin & Sons Moving and Storage (39 Tozer Road; **Figure 2**). West of Tozer Road are the businesses Bass River Tennis Club and Arro Engineering Corporation. The west-northwest portion of the property abuts Tozer Road, and Route 128 traverses the northwest-north property line. Northwest of the property and across Route 128 is a U.S. Postal Service facility (16 Tozer Road; **Figure 2**). North of the property, also across Route 128, is the residential street Mark Road.

The southern portion of the 150 Sohier Road property contains a playing field and a paved parking area. The central portion of the property includes the Building 5 complex (Buildings 5, 5A, and 8; **Figure 3**). North of this building network is a flat, paved parking area and to the northwest is the Building 3 complex (Buildings 1, 2, 3, 4 and 6; **Figure 3**). Northeast of the Building 3 complex is a wastewater treatment plant, known as Building 9. West of the Building 3 complex is former Building 7, which is now operated as Kelly Classics and Restoration. Bomac Road traverses the property from the southeast to the northwest between Building 7 and the Building 3 and Building 5 complexes (**Figure 2**).

The topography of the facility slopes slightly downward from the south to north. At the southwest property line, an embankment slopes downward into the abutting properties. In the northwest portion of the property, the topography slopes downward to Tozer Road. The majority of the property is covered with buildings or paved parking areas, although grass and landscaped areas surround some portions of the buildings. Trees and shrubbery are located along the property line abutting Sohier Road and the embankment at the southwest and west property line.

A stream with seasonal flow (referred to as the "Unnamed Stream"; **Figure 2**) enters the property in the northeast portion of the property through a pipe under Route 128. Near the area where the stream enters the property, storm drains enter the stream. These drains carry stormwater runoff from the abutting roads and an area across Sohier Road, which is a former municipal landfill. The drainage from across Sohier Road is the predominant flow during the summer months when there is little or no flow in the stream entering the property from north of Route 128. The stream crosses the facility in an underground culvert from the east to the west and collects surface water drainage. Near the western property line, the stream leaves the culvert, becomes a surface stream, and flows in a southwesterly direction.

The Unnamed Stream flows from the property in a southwesterly direction beneath an abutting office building located on Tozer Road. From this point, it flows along Tozer Road in a channel with overgrown vegetation along its banks. The stream passes through a culvert below Tozer Road and past a small wetland area. At this point, it joins with another stream ("Stream A"; Figure 2) flowing in from the northwest. The stream then flows along the back property lines of residential homes located on Tudor Road and Jordan Street and next to the Beverly High School athletic fields (approximately 2,000 feet or 600 meters from the facility). After flowing past the high school, the stream flows in drainage pipes under a park and industrial facility before emerging somewhere between Shoe Pond and the Bass River (more than a mile from the property).

During the time Varian operated the facility, wastes at the facility were stored in accordance with the federal Resource Conservation and Recovery Act and state requirements as they became applicable; waste handling and management practices were outlined in the facility Hazardous Waste Management Plan. Before 1991, solvents were stored adjacent to the wastewater treatment plant (Building 9). This solvent storage area was transferred to a location on the east side of Building 1 (Figure 3). Except for the addition of spent oil storage areas, the chemical storage areas during the final years of Varian's operation of the facility are shown in Figure 3. Since the sale of the 150 Sohler Road Facility in 1995, chemical and waste storage at the facility have been managed by CPI.

2.2 Environmental Assessment History

This section of the PIP includes a brief description of environmental investigation and treatment activities completed at the Site, including historical activities presented in the 1996 and 2022 PIPs, as well as those conducted since 2022. Given the volume of environmental work conducted at the Site over several decades, the summary in the following text focuses on key actions completed following the initial contamination discovery in 1985. A more detailed chronological history is provided in **Appendix A**. To support this summary, a simplified description of the various steps of the MCP process is provided in **Table 2-1**.

Table 2-1. Generalized Massachusetts Contingency Plan Process

MCP Phase	Purpose
Phase I	Initial investigations Implement preliminary response actions where needed
Phase II	Determine nature and extent of contamination Evaluate potential risk to determine if cleanup plan is needed
Phase III	Evaluate cleanup options based on defined criteria (for example, effectiveness, feasibility, and comparative benefits)
Phase IV	Complete cleanup design and plans Begin treatment
Phase V	Complete cleanup design and plans Begin treatment
Permanent or Temporary Solution	Determination that a site has been cleaned up to background levels, if feasible, or, if not, to levels of no significant risk for a Permanent Solution, or no substantial hazard for a Temporary Solution

The Site assessment/remedial history began with the removal of a 3,000-gallon underground tank used to store waste acetone. This tank was located at the southwest corner of Building 1 and was used from 1976 to 1985 for the storage of a waste acetone-water mixture generated during the rinsing of metal parts. The tank was removed in May 1985. During removal, no visual evidence of leakage was noted; however, traces of acetone were found in soils surrounding the tank. As a result of the apparent release, MassDEP notified Varian in December 1985 that Varian was responsible for investigating and assessing the source and extent of chemical releases at the Site. From August 1986 through April 1989, groundwater monitoring wells were installed and sampled. Analysis of groundwater collected from these monitoring wells showed that acetone levels were within acceptable levels; therefore, MassDEP agreed that the 3,000-gallon acetone-mixture tank removal was complete.

In May 1986, Varian installed additional groundwater monitoring wells to evaluate the integrity of other fuel oil tanks located at the facility. Analysis of groundwater samples collected from these wells indicated the presence of volatile organic compounds (VOCs). The contamination was reported to MassDEP in October 1986 and the Site was placed on the state list in January 1987. The primarily chlorinated solvents in onsite groundwater wells were determined to be 1,1,1-trichloroethane (TCA), trichloroethene (TCE), tetrachloroethene (PCE), and their associated degradation products.

From August 1987 until 2000, additional monitoring wells were installed and sampled at the Site to further define the extent of VOC presence in groundwater. Multiple reports discussing the remedial investigations being conducted at the Site were submitted to MassDEP during that time.

In 1992, a pump-and-treat system was installed along with associated recovery wells as an interim remedial measure to address the presence of VOCs in onsite groundwater. As indicated in Section 1, based on community concern about the Site and in response to a petition from City of Beverly residents, the Site was designated a PIP site with specific public involvement requirements.

From 2000 to 2002, several public meetings were held with community and City officials to discuss Site investigation reports and outline additional investigations required. From June 2001 to February 2002, indoor air investigations were conducted at more than 60 residences. Analytical results from these investigations did not identify significant risks to human health because of impacts from the Site.

In mid-2002, the pump-and-treat system was decommissioned. During its time of operation, the system was noted to have treated more than 11 million gallons of groundwater, with approximately 400 gallons of solvent being recovered from the groundwater and shipped for offsite disposal.

From 2003 through 2022, Varian continued to submit reports summarizing remedial actions conducted at the time, including the following:

- Permanganate injections (that is, in situ chemical oxidation)
- Implementation of in situ bioremediation to address select VOC-impacted areas
- Installation and continued monitoring of soil vapor extraction (SVE) systems in both the Building 3 and Building 5 areas (commissioned in 2010 and 2013, respectively)
- Additional well drilling to support remedial activities
- Indoor air sampling at the facility and nearby residences to support indoor air risk evaluations and confirmation of a Condition of No Significant Risk
- Continued site monitoring activities (for example, groundwater and surface water sampling).

In response to community concerns starting in 2021, MassDEP issued an evaluation of environmental investigations and treatment at the Site. The findings stated that there was no evidence that workers or residents were being exposed to significant levels of contaminants from the Site. The findings also acknowledged that extensive investigation and remedial activities had been conducted to assess and clean up the Site, but that data gaps justified further investigative work and remedial refinements were needed (MassDEP 2021).

From 2021 to 2023, Varian worked with MassDEP and community stakeholders to address concerns and complete work to fill the reported data gaps. This work was summarized in the Phase II CSA Addendum (APTIM 2023a). This document confirmed the finding of no significant risk for current workers and residents but also identified the need for additional treatment to address potential future risk, as well as source and migration control. A Phase III Remedial Action Plan (RAP) (APTIM 2023b) was completed, followed by a Phase IV Remedy Implementation Plan (Phase IV Plan), issued in three parts (APTIM 2023c; Jacobs 2023a, 2023b). Public comment periods and public meetings were held for each document. The documents presented plans for additional treatment activities at the Site as follows:

- Building 3 Source Area – in situ thermal remediation, followed by in situ bioremediation polishing and continued operation of the SVE system
- Downgradient Ground (Tozer Road) – permeable reactive and adsorptive barrier

- Building 5 Source Area – in situ bioremediation and continued operation of the SVE system
- Potential Source Location (PSL)-10 – soil excavation and installation of a subgrade biogeochemical reactor
- Bedrock – in situ chemical oxidation
- Stream A Seeps - granular activated carbon reactive core mats

In February 2024, a Temporary Solution Statement and Phase IV Status Report was submitted for public comment (Jacobs 2024). These and future response actions will be conducted as part of Comprehensive Response Actions at the Site under a Temporary Solution. Results of future activities will be presented in Post-temporary Solution Status reports submitted to the MassDEP every 6 months.

2.3 Public Involvement History

2.3.1 1992 to 2022

In February 1992, MassDEP received a petition from Beverly residents requesting that the Site be designated a PIP site, in accordance with M.G.L. c. 21E. In March 1992, the MassDEP responded to the petition, designating the Site as a PIP site. In February 2023, MassDEP authorized Varian to develop a draft PIP and conduct public involvement activities at the Site. Varian retained CHES to complete these tasks.

In 1993, CHES conducted interviews with key officials and individuals interested in the Site in preparation for developing the PIP. Issues raised in the interviews are presented in **Appendix B**. The draft PIP was available for a public comment period and presented at a public meeting and was finalized in May 1993.

As indicated in Section 1, the PIP was updated and issued for public comment in 1996 and 2022.

Additional public comment periods and public meetings conducted since 1996 are presented in **Appendix A**. Meeting minutes and summaries of comments received during the comment periods are on file at MassDEP Northeast Regional Office (see Section 4.1.1). Meeting minutes and summaries of comments after 2010 can also be found online¹.

Beginning in January 2021, Varian has had regular communications with a local community group (VOC North Beverly), City of Beverly officials, and state legislators, leading to the formation of a Technical Advisory Group (TAG) at the request of the community. Discussions with these stakeholders indicated the following concerns:

- Desire for Varian to reestablish relationship with community and conduct more consistent and open public communications.
- Concern about potential exposure and health risks, especially off Site.
- Concern about remediation and its effectiveness and the amount of time it is taking to treat the contamination.

2.3.2 2022 to 2024

The following public involvement activities have been conducted since 2022:

- In 2021, TAG meetings were held online in February, March, April, June, and August. TAG meetings were originally targeted to be held monthly, but the frequency was modified to accommodate needs (for example, new topics to discuss) and other scheduling needs (for example, public meetings).
- In 2022, TAG meetings were held online in March, May, July, August, September, and December.

¹ [Executive Office of Energy and Environmental Affairs \(EEA\). 2022. Data Portal. Mass.Gov. https://eeaonline.eea.state.ma.us/EEA/FileViewer/Rtn.aspx?rtn=3-0000485.](https://eeaonline.eea.state.ma.us/EEA/FileViewer/Rtn.aspx?rtn=3-0000485)

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- On June 9, 2022, a public meeting (referred to as a “PIP meeting”) was held to provide information about Site conditions and present the results of recent assessment work. The meeting was also held to solicit input from the public in response to recent newspaper articles regarding the Site cleanup status.
- In August 2022, Varian launched a project website² to provide the public with easy access to Site information. The website includes copies of TAG and PIP meeting presentations for TAG and videos of PIP meetings.
- On November 9, 2022, a PIP meeting was held to present the draft October 2022 Phase II CSA and a public comment period began. The public comment period ended November 29, 2022, and responses to comments were provided on December 7, 2022.
- On January 24, 2023, a PIP meeting was held to present the Phase III RAP and a public comment period began. The public comment period ended on February 14, 2023, and responses to comments were provided on March 16, 2023.
- An online TAG meeting was held in February 2023. Subsequent TAG meetings were held in person (March, May, August, and October 2023, as well as January 2024).
- On June 7, 2023, a Revised Phase III RAP and Public Comment Draft for the Phase IV Plan, Part 1 was presented at a PIP meeting and a public comment period began. The public comment period ended on June 27, 2023, and responses to comments were provided on July 27, 2023.
- On November 14, 2023, a PIP meeting was held to present the Phase IV Plan, Parts 2 and 3, and a public comment period began. The public comment period ended on December 11, 2023, and responses to comments were provided on January 9, 2024.
- Varian has prepared and provided periodic environmental updates to the PIP mailing distribution list plus a blanket mailing to additional members of the community potentially affected by the Site. The blanket mailing included over 200 addresses in the area of the Site. Thirty (30) Environmental Updates have been provided to the public over the past decades, with the most recent one issued in Fall 2023 (Varian 2023).
- Public notices are issued to the Site mailing list as required by the MCP for various Site activities, including the availability of documents for public review and upcoming PIP meetings. Occasional public notices are also issued to notify the community about field activities such as construction.

² <https://beverlysitecleanup.com>

3. Addressing Public Concerns

The process for assessing and cleaning up sites, as outlined in the MCP, is designed to address the effects of the site on health, safety, public welfare, and the environment. Once a release of oil or hazardous materials has been confirmed at a disposal site, it is reported to MassDEP, who assigns a release tracking number (RTN). Site investigation then proceeds under the MCP process overseen by the LSP-of-record, including the initial Phase I and Tier Classification submittals. The remedial response action processes may include the following (see **Table 2-1**):

- Release Abatement Measures (RAMs) and Immediate Response Actions (IRAs)
- Comprehensive field investigation of the nature and extent of the contamination and an evaluation of risks posed to the public and the environment from the site (Phase II)
- Identification and evaluation of remedial response action alternatives and selection of feasible measures that will achieve a permanent cleanup at the site (Phase III)
- Implementation of the selected remedial response actions (Phase IV)
- Operation and Maintenance or Monitoring (Phase V)
- Permanent or Temporary Solutions³

Physical work at a site includes sampling and other environmental field testing, as well as the implementation of the selected response actions. It may also include the implementation of measures designed to stabilize conditions at the site to prevent the continued migration of contaminants or eliminate an imminent threat to public health, safety, welfare, or the environment until planning for remedial response is underway (that is, RAMs and IRAs).

At each step of the remedial response action process, work plans are developed, the work is conducted, and reports describing results and recommendations for the next step are prepared. The documents that describe each of these steps are the cornerstone of the remedial response action planning process, since they provide the information necessary to make decisions about how a site should be cleaned up.

The remedial response action planning and public involvement processes are designed to address the concerns about the nature and extent of contamination; risks posed by the site to health, safety, public welfare, and the environment; and the adequacy of proposed cleanup measures. These concerns are primarily addressed in Phases II and III of this process. For example, the assessment of off-site conditions is considered in Phase II, as is the impact of the site on public health and the environment. Phase III addresses the adequacy of proposed or existing remedial response actions to provide permanent solutions to address contaminants present at the site.

³ As indicated in Section 2.2, a Temporary Solution Statement (Jacobs 2024) was submitted in February 2024 upon completion of the Phase IV Plan, as per the MCP (310 CMR 40.1050).

4. Public Involvement Activities

In accordance with the MCP, activities undertaken to involve the public in response actions serve the following two purposes:

- To inform the public about the risks posed by the site, the status of response actions, the availability of Technical Assistance Grants, and the opportunities for public involvement.
- To solicit concerns and input from the public about the site and response actions so that, to the extent possible, these concerns and public input can be addressed and incorporated in planning response actions.

To meet these objectives, Varian proposes to continue undertaking and implementing public involvement activities during the remedial response process at the Site. These activities are described in the following text.

4.1 Informing the Public

Varian provide Site-specific information to the public by maintaining existing information repositories; maintaining a Site mailing list to distribute information about the Site; providing advance notification to local officials about Site activities; and other public involvement activities to provide information to the public.

Consistent with the MCP (310 CMR 40.1406), informational notices (Bureau of Waste Site Cleanup 122) were sent via certified mail to property owners within the Site boundary. This mailing was completed upon submittal of the Temporary Solution Statement (Jacobs 2024) in February 2024.

Additionally, consistent with the MCP (310 CMR 40.1403(10)), the project team shares analytical data with property owners when samples are collected from their property.

4.1.1 Information Repositories

Publicly Available Site File. A file on the Site is maintained at the Northeast Regional MassDEP Office. The file contains all documents pertaining to the Site, with the exception of enforcement-sensitive material. Appointments to view the Site files can be made by contacting MassDEP, Northeast Regional Office, 150 Presidential Way, Woburn, MA 01801, 978-694-3320 or online⁴. Appointments are available on Tuesday and Thursday from 9:00 a.m. to 12:00 p.m. Alternatively, information and e-copies of files for this Site are also available online by clicking on supporting documents at the appropriate MassDEP webpage⁵. This website includes a comprehensive collection of Site-related documents, including electronic submittals made starting in 2007, as well as scanned versions of key files made before that time (1985 to 2016).

Local Information Repository. Varian maintains a local information repository at the Beverly Public Library to provide residents with easy access to information about the Site cleanup process and results of Site investigations. While the information repository originally contained a complete copy of the MassDEP Site file, space limitations resulted in library officials requesting to move some files to off-site storage. In addition, library staff reported very few people were accessing the documents. Therefore, the library submitted a request to MassDEP and Varian to remove the majority of historical Site documents. The proposal to remove hard copies from the information repository was discussed at a public meeting in June 2023, followed by a public comment period. The public did not object to removing historical hard copies from the library, and it was agreed that the information repository should be limited to the last 3 years of documents, along with major MCP deliverables (for example, MCP Phase I to Phase V reports) and public information materials, including the PIP. Information will continue to be sent to the local repository by Varian as it is developed and Varian will coordinate with library staff about removing documents when needed. This approach became effective in fall 2023 and the Site information older than 3 years was donated to the Beverly Historical Society.

⁴ [Massachusetts Department of Environmental Protection](https://www.mass.gov/forms/massdep-northeast-region-file-review-public-records-request-form) (MassDEP). 2024. *MassDEP Northeast Region File Review & Public Records Request Form*. <https://www.mass.gov/forms/massdep-northeast-region-file-review-public-records-request-form>.

⁵ Executive Office of Energy and Environmental Affairs (EEA). 2018. *Waste Site & Reportable Releases Information*. <https://eeaonline.eea.state.ma.us/portal#!/wastesite/3-0000485>.

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The local information repository is at the following location:

Reference Desk
Beverly Public Library
32 Essex Street, Beverly, MA 01915

Contact: Lisa Ryan
(978) 921-6062 ext. 2120
ryan@noblenet.org

Main Library Hours

Monday through Thursday: 9:00 a.m. to 9:00 p.m.

Friday and Saturday: 9:00 a.m. to 5:00 p.m.

Sunday: 1:00 p.m. to 5:00 p.m. (closed on Sundays, Memorial Day through September; closed on holidays)⁶

4.1.2 Site Mailing List

Varian maintains a mailing list for the Site (**Appendix C**). The Site mailing list includes the following: petitioners, interested residents, property abutters, local news media, municipal officials (specifically the Chief Municipal Officer and the Chairperson of the Board of Health), state legislators, MassDEP site file, and members of the public indicating an interest in receiving information about the Site.

The mailing list is used to announce upcoming PIP meetings, distribute fact sheets, and provide notices (for example, public comment periods, availability of documents in the information repositories, completion of a phase of the remediation process, and other material information about the Site).

Members of the public wishing to be added to the mailing list should send an email to beverlysitecleanup@jacobs.com. Alternatively, requests can be sent to the following address:

Jacobs
Attn: Raymond Cadorette
120 St. James Avenue, 5th Floor
Boston, MA 02116

4.1.3 Notification of Field Work

In accordance with the MCP, 310 CMR 40.1403(3), notification of major milestones and certain events (as described later) are provided to the following list of people, at least 3 days before the start of field work.

Notification List

Joan B. Lovely
Massachusetts Senate
State House, Rm 413A
Boston, MA 02133
Joan.Lovely@masenate.gov
617-722-1410

Mayor Michael P. Cahill
Beverly City Hall
191 Cabot Street
Beverly, MA 01915
mayorcahill@beverlyma.gov
978-921-6000

Jerald A. Parisella
Massachusetts House of Representatives
State House, Room 174
Boston, MA 02133
Jerald.Parisella@mahouse.gov
617-722-2240

Kellee Boudreault (Key Petitioner)
5 Medford Street
Beverly, MA 01915
kelleeboudreault@gmail.com
978-590-7689

⁶ <https://beverlypubliclibrary.org/branch/main-library/>

Laura DelleChiaie
City of Beverly Director of Health
Beverly Senior Center
90 Colon Street
Beverly, MA 01915
ldellechiaie@beverlyma.gov
978-921-8591

Kathleen Feldman
Ward 5 City Councilor
20 Somerset Avenue
Beverly, MA 01915
kfeldman@beverlyma.gov
716-510-6351

Steve Crowley
Ward 3 City Councilor
532 Cabot Street
Beverly, MA 01915
scrowley@beverlyma.gov
978-578-0889

Notifications are triggered for field work involving the following:

- The implementation of any IRAs for imminent hazards
- The implementation of any RAMs
- The use of level A, B, or C protective clothing and respirators
- Residential sampling
- Phase IV remedial actions
- The completion of each phase of the remediation process, including:
 - IRA Completion Statements for imminent hazards
 - Each Phase (that is, Phase I to Phase V)
 - Permanent or Temporary Solution Statements
 - Activity and Use Limitation (deed restriction)
 - Downgradient Property Status Submittal

Notification of field work includes information on the type of work, its purpose, and its approximate duration. Notification at the end of each remedial phase, as listed previously, includes a summary of the submittal and information on where it can be reviewed.

The Beverly Fire and Police Departments are also notified in situations where public safety is a concern.

Occasionally, and as needed, notifications are made to local residents using the City's "robo-call" system. Varian coordinates with and provides recommended language to the City of Beverly, which issues the robo-call. In 2023 and 2024, robo-calls were issued to notify residents of field work associated with Stream A near Hill Street and for upcoming traffic disruptions along Tozer Road.

4.1.4 Environmental Updates

Varian has produced environmental updates approximately annually since the 1990s. These updates provide the community with a summary of the testing and cleanup activities at the Site. Varian will continue to prepare Environmental Updates annually and provide them to the PIP mailing list.

4.1.5 Technical Advisory Group (TAG)

Beginning in January 2021, a TAG was established at the request of the community, to provide regular discussions regarding technical information about the Site. Varian will continue to participate in TAG meetings, as needed. The frequency of future TAG meetings was discussed at the January 2024 TAG meeting, and the group agreed that meetings should be held twice per year, alternating with biannual PIP meetings. For further information about the TAG please contact Matthew Gillis of Varian at 410-459-1710 or matthew.gillis@varian.com.

4.1.6 Email Notifications

While TAG participants agreed to holding less frequent meetings, they requested regular email updates. Based on discussions, Varian decided that regular email notifications (monthly or as appropriate based on site activities) would be issued to the PIP mailing list (with an option for recipients to choose not to receive these emails).

4.1.7 Informational Public Meetings

Varian will hold informational public meetings periodically to keep the community informed about Site activities. These informational public meetings will be held in addition to MCP-required PIP meetings for which there are associated public comment periods (see **Section 4.2.1**).

Informational public meetings are planned to be held twice a year to coincide with issuance of the bi-annual Temporary Solution Statement Status Reports, beginning in fall 2024. These meetings will be informative, with an opportunity for questions and answers, but there will be no formal public comment period on the Temporary Solution Statement Status Reports, as they are not required under the MCP.

Varian will issue public notices announcing informational public meetings to individuals on the Site mailing list at least 14 days before the meeting.

4.1.8 Project Website

Varian has established a project website⁷ to provide information about the environmental investigation and cleanup of the Site. The website contains environmental history, current status, next steps, notices about public involvement opportunities, links to presentations and posters, and links to MassDEP and U.S. Environmental Protection Agency websites and fact sheets. Updated information from the email notifications is also included on the homepage of the website. Varian will continue to maintain and post Site-related information on the website until the Site reaches a Permanent Solution.

4.2 Soliciting Public Input

Varian will continue to provide opportunities for public input regarding Site cleanup decisions by holding PIP meetings and subsequent comment periods to provide additional opportunities for oral and written input and preparing summaries of and responses to comments received during the public comment periods.

4.2.1 Public Meetings (“PIP Meeting”)

Varian will continue to hold PIP meetings as required by the MCP during the remedial action process. Meetings will be held at the following major milestones, as appropriate (see **Appendix D**).

- Draft PIPs
- IRA Plans
- RAM Plans
- Phase II CSA Scopes of Work
- Phase II CSA Assessment Reports
- Phase III Identification, Evaluation and Selection of Remedy Action Alternatives reports (Phase III RAPs)
- Phase IV Remedy Implementation Plan Reports (Phase IV Plans)
- Phase V Plans concerning the operation and maintenance of response actions
- Permanent or Temporary Solution Statements, including any Activity and Use Limitations

Varian has completed the MCP phases listed above, with exception of a Permanent Solution Statement and any future PIP updates.

⁷ <https://www.beverlysitecleanup.com>

PIP meetings will serve two purposes: 1) to provide community officials and the general public with a progress report regarding remedial response actions at the Site and 2) to provide an opportunity for the public to question and comment on remediation plans for the Site.

Varian will issue public notices announcing PIP meetings to individuals on the Site mailing list at least 14 days in advance of the meeting. Per the 2024 MCP, public notices may be provided by email for individuals who agree and provide their email addresses. Varian will continue to mail hard copies of public notices to individuals on the Site mailing list who do not agree to receive notices by email. Varian will prepare summaries of comments received at the meetings, submit the summaries to the MassDEP, and place a copy of the summaries in the local information repository.

4.2.2 Public Comment Periods

Varian will continue to provide specific opportunities for the public to submit comments about documents concerning the Site. Key documents available in draft form will be provided to the information repositories, and a notice of their availability will be sent to the Site mailing list. The notice will include the title of the document, where it is available for review, information about how to submit comments to Varian, and the length of the public comment period. Varian will determine the length of the comment period, which will typically be 20 calendar days but may be longer if warranted by the complexity of a particular document or if requested by the public. Comment periods for certain activities may be reduced or eliminated (with MassDEP's concurrence) in emergency situations.

Documents that will be available for public comment include the following:

- Draft PIPs
- IRA Plans and Completion Statements
- RAM Plans and Completion Statements
- Phase II CSA Reports
- Phase III Identification, Evaluation and Selection of Remedy Action Alternatives reports (Phase III RAP)
- Phase IV Remedy Implementation Plan Reports (Phase IV Plans)
- Phase V Plans concerning the operation and maintenance of response actions
- Permanent or Temporary Solution Statements, including any Activity and Use Limitations.

4.2.3 Response to Comments

Varian will prepare a summary of comments received on each document available for public comment and Varian's responses to these comments. A copy of this response summary will be sent to those who submitted comments and will be placed in the information repositories. Varian will also send a notice of availability of the response summary to the mailing list. The summary will be made available before Varian takes the remedial response action submitted for comment or moves to the next MCP phase.

5. Schedule For Public Involvement Activities

Appendix D provides a schedule of public involvement activities listed in Section 4.0. The schedule specifies the milestones during the remedial response action when public involvement activities will be conducted.

6. Revisions to the Public Involvement Plan

This PIP may be updated as necessary during the remedial response action process. If revisions are proposed, Varian will place copies of proposed changes in the information repositories and will send a notice of the availability of recommended changes to the mailing list. Varian will hold a 20-day public comment period (see Section 4.2.2) on the proposed revised PIP. Varian will review comments received and revise the PIP as appropriate. The final revised PIP will be placed in the information repositories.

7. References

The following is a list of previously submitted documents that are referenced in additional sections of this Public Involvement Plan.

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APTIM. 2022. *Updated Public Involvement Plan, Former Varian Facility Site, 150 Sohier Road, Beverly, Massachusetts, MassDEP Site # 3-0485*. October.

APTIM. 2023a. *Massachusetts Contingency Plan Phase II Comprehensive Site Assessment Addendum, Former Varian Facility Site, 150 Sohier Road, Beverly, Massachusetts, MassDEP Site # 3-0485*. March 10.

APTIM. 2023b. *Revised Massachusetts Contingency Plan Phase III Remedial Action Plan, Former Varian Facility Site, 150 Sohier Road, Beverly, Massachusetts, MassDEP Site # 3-0485*. March 17.

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IT Corporation (IT). 1994. *Phase IIA and Phase IIB Report, Former Varian Facility Site, 150 Sohier Road, Beverly, Massachusetts, RTN 3-0485*. November.

IT Corporation (IT). 1999. *Release Abatement Measure Plan, Former Varian Facility Site, 150 Sohier Road, Beverly, Massachusetts, RTN 3-0485*. December.

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IT Corporation (IT). 2001a. *Amended Phase III – Identification, Evaluation and Selection of Remedial Action Alternatives, Former Varian Facility Site, 150 Sohier Road, Beverly, MA*. May 31.

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IT Corporation (IT). 2001b. *Report on Supplemental Field Activities, Former Varian Facility Site, 150 Sohier Road, Beverly, Massachusetts, RTN 3-0485*. March 29.

IT Corporation (IT). 2001c. *Amended Phase III – Identification, Evaluation and Selection of Remedial Action Alternatives, Former Varian Facility Site, 150 Sohier Road, Beverly, MA*. May 31.

IT Corporation (IT). 2001d. *Phase IV Remedy Implementation Plan, Former Varian Facility Site, 150 Sohier Road, Beverly, Massachusetts, RTN 3-0485*. December.

Jacobs. 2023a. *Partial Massachusetts Contingency Plan, Phase IV Remedy Implementation Plan, Part 2, Former Varian Facility Site, 150 Sohier Road, Beverly, Massachusetts, MassDEP Site # 3-0485*. September 20.

Jacobs. 2023b. *Partial Massachusetts Contingency Plan, Phase IV Remedy Implementation Plan, Part 3, Former Varian Facility Site, 150 Sohier Road, Beverly, Massachusetts, MassDEP Site # 3-0485*. November 7.

Jacobs. 2024. *Temporary Solution Statement and Phase IV Status Report, Former Varian Facility Site, 150 Sohier Road, Beverly, Massachusetts, MassDEP Site # 3-0485*. February 19.

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Shaw Environmental and Infrastructure (Shaw). 2012a. *Massachusetts Contingency Plan, Phase II Comprehensive Site Assessment, Building 3 Area, A Portion of the Former Varian Facility Site, 150 Sohier Road, Beverly, MA, RTN 3-28531*. May 28, 2012.

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Shaw Environmental and Infrastructure (Shaw). 2012d. *Modification of the Phase III Remedial Action Plan (RAP) and Phase IV Remedy Implementation Plan (Phase IV Plan) to address the Building 5 Area, Former Varian Facility Site, 150 Sohier Road, Beverly, Massachusetts, RTN 3-0485*. December 17, 2012.

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Figures



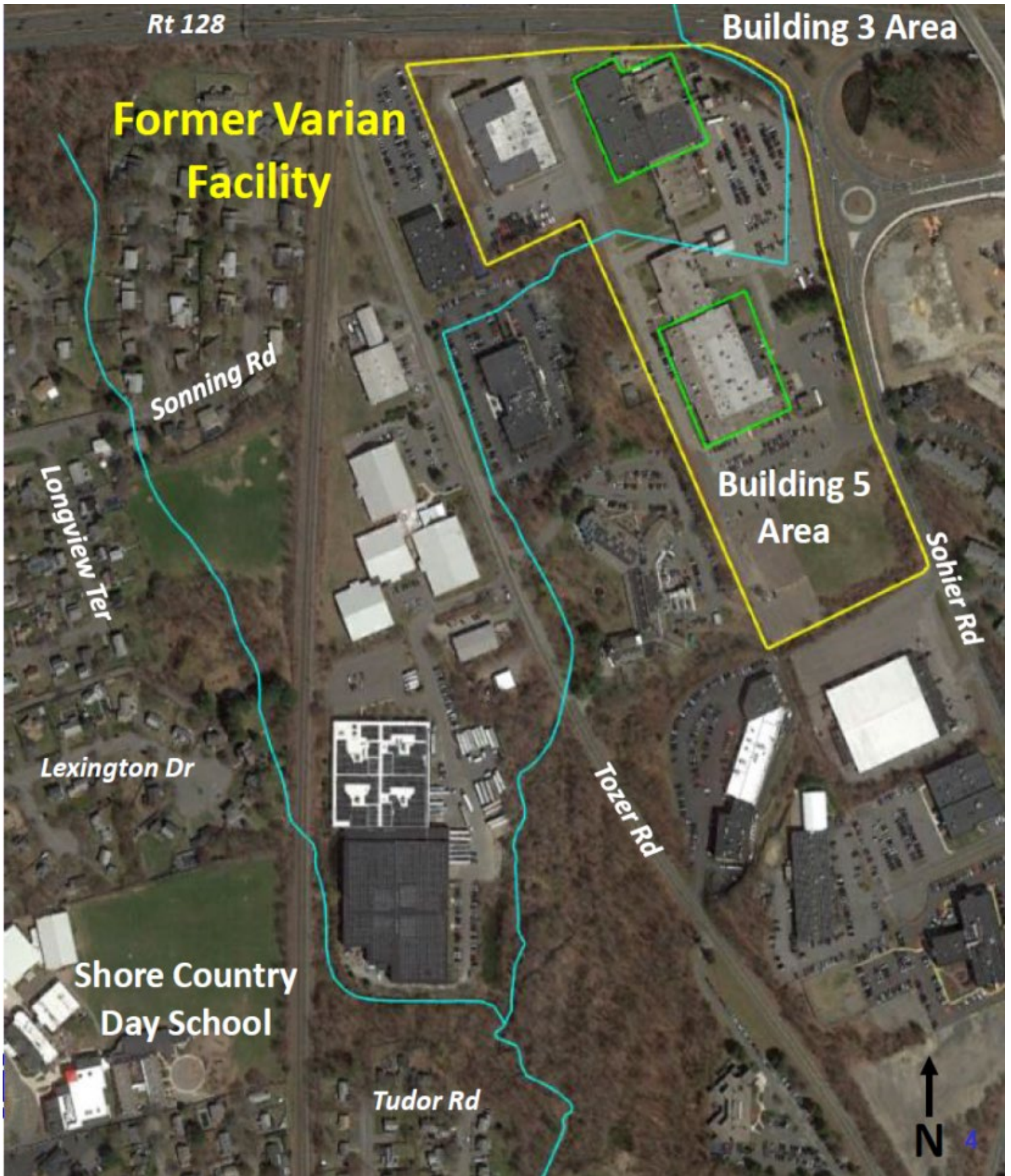
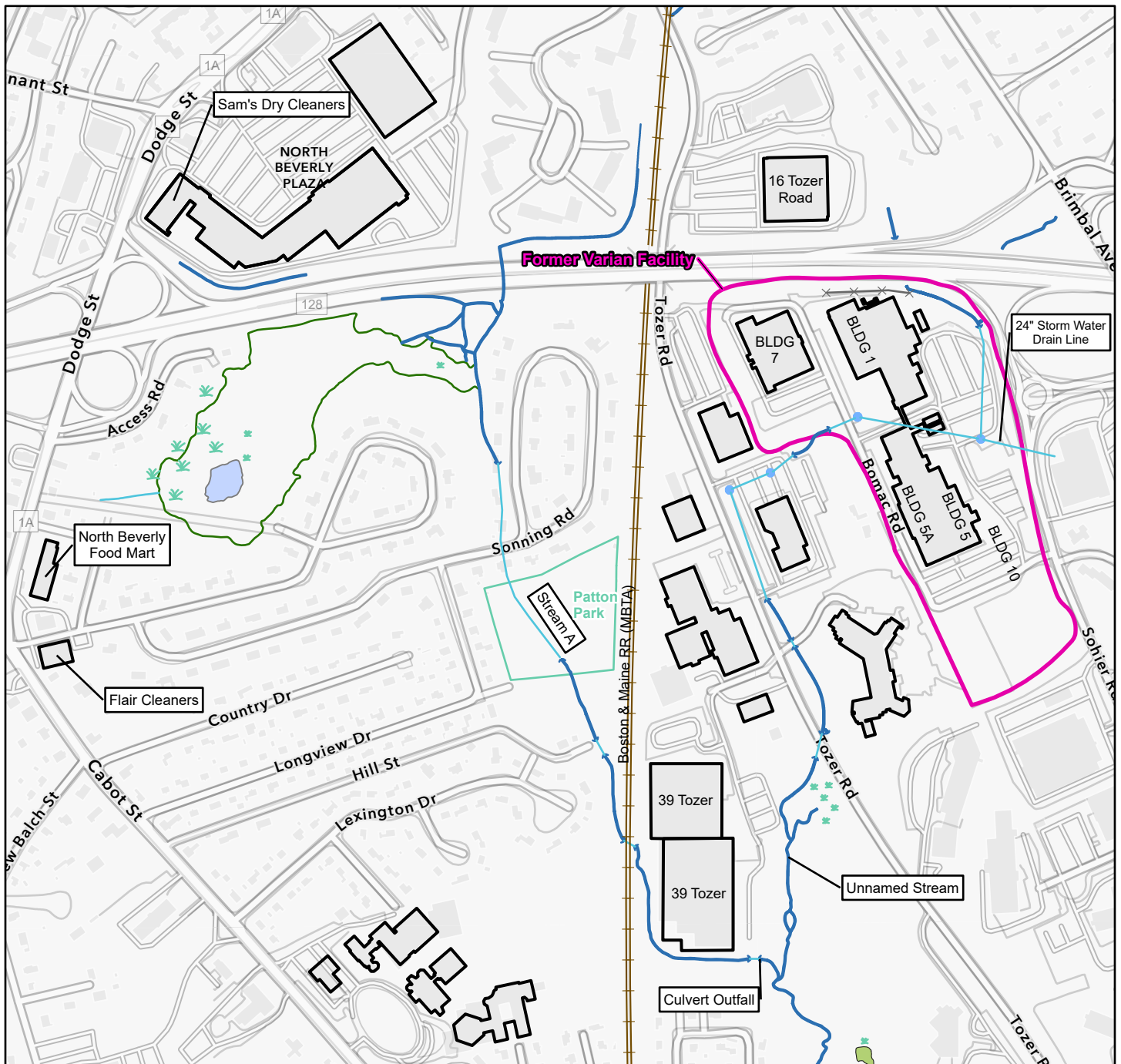


FIGURE 1
Former Varian Facility Site



LEGEND

- Approximate Location of Stream in Culvert
- Approximate Stream Location
- Fence Line
- Water and Marsh Area
- Vegetation
- Water
- Marsh
- Former Varian Facility
- Approximate Building Location

0 250 500 1,000
1:6,000 Feet 1 inch = 500 feet

Service Layer Credits: Human Geography Base: Esri Community Maps Contributors, MassGIS, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, MET/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, Human Geography Label: Esri Community Maps Contributors, MassGIS, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, MET/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, World Street Map: Esri, HERE, Garmin, NGA, USGS, NPS, Human Geography Detail: Esri Community Maps Contributors, MassGIS, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, MET/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

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FIGURE 2
Expanded Site Plan
Temporary Solution
Beverly, Massachusetts

Appendix A

Chronological Site History



Appendix A. Chronological Site History

- On May 20, 1985, a 3,000-gallon underground tank was removed from the southwest corner of Building 1. The tank was used from 1976 to 1985 for the storage of a waste acetone-water mixture generated by the rinsing of metal parts. No evidence of leakage was noted during removal.
- On December 3, 1985, Massachusetts Department of Environmental Protection (MassDEP) notified Varian that they were responsible for investigating and assessing the source and extent of chemicals at the Site due to the presence of acetone within soils surrounding the tank.
- From August 1986 to April 1989, monitoring wells were installed and sampled. Analysis from the sampled wells demonstrated that acetone within onsite groundwater was at acceptable levels. Therefore, MassDEP agreed the tank removal was complete.
- In May 1986, Varian installed four groundwater monitoring wells to evaluate the integrity of the fuel oil tanks at the facility. Sampling and analyses of groundwater samples from these wells indicated the presence of volatile organic compounds (VOCs), which was reported to the MassDEP by Varian in a letter dated October 3, 1986. The Site was placed on the state list on January 15, 1987, identifying it as a Location To Be Investigated.
- In August 1987, a Preliminary Environmental Site Evaluation (CHES, 1987) was completed revealing the presence in soil and groundwater of primarily chlorinated solvents such as 1,1,1-trichloroethane (TCA), trichloroethene (TCE), and tetrachloroethene (PCE).
- In May 1988, a Final Environmental Site Evaluation & Proposed Remedial Study (CHES, 1988) was completed. This document summarized assessment activities from May 1986 through March 1988, including the installation and testing of multiple monitoring wells. Results of a pump test conducted at existing groundwater recovery wells were also discussed. The document proposed the installation of additional groundwater recovery wells, a pumping system to provide containment, and a system to treat recovered groundwater.
- In July 1989, an MCP Phase III – Development of Remedial Response Alternatives (CHES, 1989) issued. This document summarized the installation of additional recovery wells, groundwater sample results, and an aquifer pump test. A treatability study was conducted. The report estimated the expected flow rate from pumping at the six recovery wells and presented a design for the treatment of recovered groundwater.
- In March 1992, the Site was designated a PIP site. MassDEP initially managed the PIP. In February 1993, MassDEP assigned completion of the PIP to Varian.
- In June 1992, the proposed groundwater recovery system was installed at the Site and began operation under an Interim Measure approved by MassDEP in May 1991 (MassDEP, 1991). The groundwater treatment system operated until May 2002. During that time, the treatment system recovered and treated over 11 million gallons of groundwater. As part of groundwater treatment, approximately 400 gallons of solvent were recovered and shipped off-site for disposal at an approved licensed facility.
- From 1993 to 2001, quarterly groundwater sampling was completed at the Site, and reports were submitted to MassDEP.
- In February 1993, the Site received a waiver of approvals from MassDEP, which allowed Varian to proceed with remedial response actions without further MassDEP approvals of work going forward.
- In March 1993, the Site was classified as a non-priority disposal site by MassDEP.
- In December 1993, a Phase IIA Comprehensive Site Assessment (CSA) Scope of Work (SOW) outlining activities to develop a conceptual hydrological model for the Site was submitted to MassDEP.
- In November 1994, the Phase IIA CSA was submitted (IT, 1994). The document identified 13 potential source locations, presented bedrock evaluation (mapping, fractures, and groundwater flow), and the results of additional assessment started in June 1994. The document included a Phase IIB CSA SOW.

Appendix A. Chronological Site History

- From 1995 until 1999, the Phase IIB CSA site investigations were conducted and included the following:
 - evaluation of facility floor drains and utility trenches
 - multiple soil vapor surveys
 - multiple rounds of soil boring installation and soil sampling
 - multiple rounds of shallow overburden, deep overburden, and bedrock monitoring wells installation
 - surface water and stream sediment sampling
 - survey, inspection, and monitoring of basement sumps at multiple residents
 - slug and pump tests to assess aquifer characteristics
 - testing of dense non-aqueous phase liquid
 - installation of multiple cone penetrometer test points
 - video and caliper testing in bedrock wells
 - sampling of private irrigation wells
- On March 11, 1998, a Tier 1 B permit was granted for the Site. This Permit converted the groundwater recovery system Interim Measure to a Release Abatement Measure (RAM).
- From 1998 to 2002, Varian issued semi-annual RAM status reports for operation and maintenance (O&M) of the groundwater pump and treatment system and sampling of Site groundwater.
- From 1998 through the present, semi-annual groundwater sampling has been conducted at the Site and sampling reports have been submitted to MassDEP. This sampling included yearly sampling in the spring (at approximately 110 locations) and a less extensive sampling (at approximately 50 locations) in the fall each year.
- In December 1999, Varian issued a RAM Plan (IT, 1999) that outlined conducting permanganate groundwater treatment pilot tests in preparation for the selection of the comprehensive remedial measure.
- In June 2000, a Public Comment draft of the Phase II CSA was submitted (IT, 2000). This report documented the methods and results of the Phase II assessment activities. The report concluded:
 - Assessment of the 19 potential source locations (PSLs) identified indicated that chemicals of concern (COCs) included PCE, TCE, and TCA and their breakdown products.
 - The Site was characterized by the presence of both an overburden and bedrock aquifer. Groundwater flow direction is similar in both aquifers, with flow through bedrock primarily in interconnected fractures and faults.
 - Soil impacted by VOCs was located predominately at the 150 Sohier Road facility, with VOCs present in groundwater, soil gas, and surface water in samples beyond the facility property.
 - Dense non-aqueous phase liquid (DNAPL), as defined by the MCP at that time, was not present at the Site.
 - The areal extent of dissolved VOCs in groundwater generally increases with depth.
 - A Human Health and Environmental Risk Assessment concluded a Condition of No Environmental Risk and No Current Significant Human Health Risk, as defined by MassDEP regulations at that time.
- In June 2000, a public meeting and 50-day public comment period was held for the Phase II CSA.
- On August 30, 2000, a meeting was held with City officials to discuss City comments on the draft Phase II CSA report. At this meeting, City officials requested an additional assessment to address their concerns.
- In September 2000, the Phase II CSA was issued final (IT, 2000).
- A September 21, 2000, letter from Varian was presented to the Beverly Conservation Commission that proposed supplemental field activities to address the City's concerns with the Phase II assessment.

Appendix A. Chronological Site History

- Between November 2000 and February 2001, activities outlined in the supplemental assessment were conducted. These activities included additional soil vapor sampling in the residential areas to the west and north of the facility to assess potential impacts on indoor air, river sediment sampling, monitoring well installation, and groundwater sampling.
- On March 29, 2001, a report was issued summarizing the results of the additional assessment activities conducted at the request of the City (IT, 2001a). The additional assessment included well installation and sampling, additional soil vapor sampling in the residential areas to the west and north of the facility to assess potential indoor air exposure, and sediment sampling. The report included an update of the Phase II Risk Assessment, which confirmed the conclusion that impacts from the Site do not pose a Significant Risk to Human Health and the Environment, as defined by the MassDEP regulations at that time.
- In April 2001, a meeting was held with Beverly residents to discuss the Phase II assessment, review the results of the risk evaluation based upon existing and new data, and overview the conclusions of the permanganate oxidation pilot tests. At this meeting, residents were able to sign up for indoor air sampling at their homes.
- In June and July 2001, indoor air samples were collected at 36 homes in the residential area.
- In June 2001, a public meeting was held and a 60-day public comment period began for the Draft Phase III Remedial Action Plan (RAP). The Phase III RAP outlined the selection of the Comprehensive Response Action (cleanup plan). Chemical oxidation of VOCs using sodium permanganate was the selected remedial alternative.
- On August 29, 2001, the Final Phase III RAP was issued (IT, 2001b).
- On September 5, 2001, the 45-day public comment period began for the Draft Phase IV Remedy Implementation Plan (Phase IV Plan). A public meeting was held on October 11.
- On October 5, 2001, Varian issued a report summarizing the results from summer 2001 sampling of indoor air at residents. Three of the 36 homes sampled showed results above MassDEP background levels. Those three homes were not located in an area with shallow groundwater impact attributed to the former Varian Site. Household products that contained target VOCs were identified in each of the three homes and represented the likely source of the detected VOCs. Data presented in the report confirmed the conclusion that impacts from the Site posed No Significant Risk to Human Health.
- In December 2001, the final MCP Phase IV Plan was issued (IT 2001c).
- In January and February 2002, indoor air samples were collected at 29 residences.
- On March 13, 2002, a meeting was held at Beverly's Mayor's office to discuss the Site and the results of residential indoor air sampling.
- On May 3, 2002, Varian issued a report summarizing the results from winter 2002 sampling of indoor air at residences. Only one of the 29 homes sampled showed results above MassDEP background levels. That home was not located in an area with shallow groundwater impact attributed to the former Varian Site. A household product that contained target VOCs was identified in the home and represented the likely source of the detected VOCs. Data presented in the report provided further confirmation that the Site posed No Significant Risk to Human Health.
- In July 2002, comprehensive response actions were initiated at the Site, including the installation of additional monitoring wells, the installation of injection wells, and the start of permanganate injections to treat Site groundwater.
- In August 2002, a RAM Completion Report (Shaw, 2002a) was issued that documented the closure of the O&M of the groundwater pump and treat system and stated that future activities at the Site would be documented in semi-annual status reports under Phase V.
- In October 2002, the Phase IV As-Built & Final Inspection Report was issued (Shaw, 2002b). The report documented the construction and testing, and any significant modifications to the design or implementation, of the selected remedial actions, and provided as-built drawings. This report also documented the final inspection of the remedial actions by the LSP-of-Record and included a Phase IV Completion Statement.

Appendix A. Chronological Site History

- In December 2002, a Remedy Operation Status (ROS) Opinion was issued, which stated that the performance standards for ROS had been achieved and would be maintained at the Site (Shaw, 2002). Furthermore, the operation and maintenance of the Comprehensive remedial actions would proceed under ROS.
- From 2003 through 2022, Varian issued 6-month ROS Status Reports, summarizing ongoing remedial actions including permanganate injections, implementation of bioremediation to address select VOC impacted areas, additional well drilling to support remedial activities, indoor air sampling at the facility and nearby residences to support indoor air risk evaluations and confirmation of a Condition of No Significant Risk, and continued site monitoring activities.
- In October 2006, the ROS status report proposed bioremediation as a supplemental remedial approach to provide further treatment of VOCs in groundwater at the Site.
- In December 2009 and January 2010, an soil vapor extraction (SVE) system was installed and activated in Building 3.
- In December 2012, a modification of the Phase III RAP and Phase IV Plan for release tracking number (RTN) 3-0485 was submitted (Shaw, 2012c). This modification addressed the Building 5 remedial area located in the central portion of the former Varian facility. The Building 5 treatment area was not previously included in the original Phase III RAP, and Phase IV Plan submitted to MassDEP in 2001. The Phase III RAP was modified to identify, evaluate, and select remedial action alternatives to reduce the potential risk associated with indoor air exposure in the Building 5 area. SVE was selected as the preferred remedial alternative. The goal of the selected remedial action alternative in the Modified Phase III RAP was to control exposures and reduce VOC concentrations remaining in shallow soil that have the potential to migrate into the indoor air of Building 5. The Modified Phase IV Plan provided detailed engineering designs, waste management plans, and initial O&M activities for the selected SVE remedial alternative. Details regarding the Building 5 SVE installation, including a Final LSP Inspection and Phase IV Completion Statement, were included in the October 2013 ROS Report.
- From 2009 through 2013, remediation in the Building 3 area, located in the northeast corner of the former Varian facility, was also conducted under an Immediate Response Action (IRA) for RTN 3-28531 (to address potential vapor intrusion) (Shaw, 2009). IRA activities included the installation of an SVE system in December 2009. Phase II CSA and Phase III RAP Reports were submitted for RTN 3-28531 in May 2012 (Shaw, 2012c & 2012d). The Phase II and Method 3 Risk Assessment concluded that a Condition of No Significant Risk had been achieved with the operation of the existing Building 3 SVE system, which effectively reduced VOC levels in indoor air in the Building 3 area. An IRA Completion Report was submitted for RTN 3-28531 in February 2013 (Shaw, 2013). The IRA Completion Report concluded that the primary objective of the IRA (to assess and mitigate the potential impacts on indoor air in the Building 3 area and thereby eliminate the potential for an Imminent Hazard) had been met by conducting IRA activities. Response actions for RTN 3-28531 had been effective in decreasing indoor air concentrations to below levels that would constitute an Imminent Hazard. However, continued operation of the SVE system was determined to be necessary to maintain a level of No Significant Risk in the Building 3 area. The IRA Completion Report linked RTN 3 28531 to RTN 3-0485 and included a Phase IV Remedy Implementation Plan, Phase IV Completion Report, and Phase V ROS Opinion. The combined report for RTN 3 28531 closed this RTN and concluded that continued response actions (including the operation of the Building 3 SVE system) would be conducted in conjunction with Comprehensive Response Actions under Phase V ROS for RTN 3-0485. Since that time, Building 3 remedial activities were included in ROS Status reports.
- On March 11, 2013, the SVE system at Building 5 was installed and activated.
- From 2013 to 2022, multiple indoor air assessments were conducted to determine if onsite groundwater contamination was causing vapor intrusion issues at offsite properties. The results from the investigations conducted at surrounding residences and adjacent properties demonstrated that there was no significant risk associated with VOCs from the former Varian Site.
- From 2013 to 2022, multiple field events were conducted at the Site including semiannual and site-wide groundwater sampling events, video inspections of former and existing drain lines at 150 Sohier Road buildings, additional well installations and soil sampling events, surficial water and sediment

Appendix A. Chronological Site History

sampling conducted at the Unnamed Stream and Stream A, and sodium permanganate and bioremediation injection events.

- From 2002 to 2019, sodium permanganate injections were conducted. From 2006 to 2020, bioremediation injections were completed. Injection events were conducted to address VOCs in groundwater at both Building 3 and 5.
- In January 2021, MassDEP completed an evaluation of investigations, remedial activities, and review of response actions at the Site. MassDEP concluded that some data gaps existed and requested further investigative work. In response, Varian issued a work plan dated February 9, 2021, that included additional well installation, surface water sampling, and sediment sampling activities. MassDEP also requested summary reports for the Site that were issued in June and September 2021.
- The February 2021 work plan was approved by MassDEP, with conditions, in a letter dated February 26, 2021.
- On June 30, 2021, a report titled *Building 3 and 5 Source Area Assessment Summary* was submitted to MassDEP. This document provided a single summary report of assessment activities conducted over multiple years of investigation in the Building 3 and Building 5 areas, which had been reported in semiannual status reports.
- On August 4, 2021, a semiannual ROS report was submitted to MassDEP. This report included results of some assessment activities outlined in the approved February 2021 work plan. The document also included an updated assessment of risk associated with potential exposure to VOCs in surface water, which confirm no significant risk from VOCs in surface water.
- On September 28, 2021, a report titled *Summary of In Situ Chemical Oxidation and Soil Vapor Extraction* was submitted to MassDEP. This document provided a single summary report of remediation activities conducted over multiple years in the Building 3 and Building 5 areas, which had been reported in semiannual status reports.
- On October 7, 2022, a Public Comment Draft Phase II CSA Addendum was submitted to MassDEP, which comprehensively assessed current Site conditions, including the nature and extent of VOCs, and provided an updated evaluation of risk.
 - The Phase II CSA Addendum confirmed many of the same conclusions as the 2000 Phase II, such as the potential release areas, the VOCs present at the site, and the hydrogeologic setting.
 - Existing and potential pathways identified during the assessment include groundwater (flow through overburden and bedrock aquifers), surface water (nearby streams), buried utilities, sediment, soil vapor, and indoor air.
 - Soil impacts are noted in the three main source areas at 150 Sohier Road. These include the Building 3 source area, the Building 5 source area, and the PSL-10 source area. VOC soil impacts have not been observed in downgradient areas.
 - The current nature and extent of the VOCs in groundwater in the overburden and bedrock aquifers were evaluated in the October 2022 Phase II CSA using data collected from monitoring wells over 2 years of sampling (that is, May 2020 through May 2022). The highest chlorinated volatile organic compounds (CVOC) concentrations are detected in groundwater on the former Varian facility property.
 - Based on the levels of VOCs present in the Building 3 source area, the Building 5 source area and the PSL-10 area, additional remediation was recommended to limit the potential downgradient migration of CVOCs in groundwater.

A Method 3 Risk Assessment was conducted. The result of that assessment indicated that there is no current or future significant risk to residents, including children playing in the stream. No significant risk was identified to workers in the 150 Sohier Road buildings with the operation of the existing SVE systems. However, a condition of no significant risk of harm was not demonstrated for future construction workers who could potentially be exposed to groundwater in one area at the 150 Sohier Road property. The risk assessment demonstrated that a current condition of no significant risk of harm to safety, public welfare, and the environment exists at the Site, with operation of the two SVE systems at 150 Sohier Road. A

Appendix A. Chronological Site History

condition of no significant risk of harm was not demonstrated for future construction workers who could potentially be exposed to groundwater in certain areas at the 150 Sohler Road property.

- On November 9, 2022, a public meeting to present the October 2022 Phase II CSA took place.
- On November 29, 2022, the public comment period ended and responses to comments received during this time were provided on December 7, 2022.
- On December 7, 2022, a Public Comment Draft Phase III RAP was submitted to MassDEP.
- On January 24, 2023, a public meeting to present the Phase III RAP was held.
- On February 14, 2023, the public comment period ended, and responses to comments were provided on March 16, 2023.
- On March 10, 2023, the Final Phase II CSA Addendum was submitted to MassDEP.
- On March 17, 2023, a Revised Phase III RAP and a Public Comment Draft for the Phase IV Plan, Part 1 (*Partial Massachusetts Contingency Plan Phase IV Remedy Implementation Plan*) was submitted to MassDEP. The Phase IV Plan, Part 1 included remedy implementation plans for the Building 3 Overburden Source Area (ISTR, ISB Polish, and Continued SVE System Operation) and the downgradient plume (Tozer Road reactive barrier and Stream A Seep carbon coremat).
- On June 7, 2023, the Revised Phase III RAP and Public Comment Draft for the Phase IV Plan, Part 1 was presented at a public meeting.
- On June 27, 2023, the public comment period ended. Responses to comments were provided on July 27, 2023. No changes to the Revised Phase III RAP or the Phase IV Plan, Part 1, were made as a result of the comments, and the documents are considered final.
- On September 20, 2023, Public Comment Draft for the Phase IV Plan, Part 2 (*Partial Massachusetts Contingency Plan Phase IV Remedy Implementation Plan*), was submitted to MassDEP. This report included remedy implementation plans for the Building 5 Overburden Source Area (bioremediation and continued SVE system operation) and the bedrock (in situ chemical oxidation).
- On November 7, 2023, a Public Comment Draft for the Phase IV Plan, Part 3 (*Partial Massachusetts Contingency Plan Phase IV Remedy Implementation Plan*), was submitted to MassDEP. This report included the remedy implementation plan for PSL-10 (soil excavation and establishing a reactive treatment zone, specifically a subgrade biogeochemical reactor).
- On November 14, 2023, a public meeting to present the Phase IV Plan, Parts 2 and 3, took place.
- On December 11, 2023, the public comment period ended and responses to comments on the Phase IV Plan, Parts 2 and 3, were provided on January 9, 2024. No changes to the Phase IV Plan, Parts 2 and 3, were made as a result of the comments, and both documents are considered final.

Appendix B

Community Concerns Raised in Interviews Conducted in March 1993



EXHIBIT I

Community Concerns Raised in Interviews Conducted in March 1993 about the Varian Site

A. Concerns about the nature and extent of contamination:

- Has the on-site contamination migrated off-site in the groundwater, and if so, how far and at what amounts?
- Groundwater flow directions and rates should be evaluated on-site and off-site.
- Will Varian only investigate on-site contamination and not possible off-site contamination?
- Where did the contamination come from?
- What is the quality of the stream and sediments near the site and downstream from the site?
- It should be determined if conditions at the site impact the wetlands southwest of Tozer Road.
- Is any contamination affecting residents, workers and children near the site?

B. Concerns about routes of exposure and neighborhood health issues:

- Does the on-site contamination and possible off-site contamination cause any health problems in the surrounding community?
- Any danger to people from possible vapors migrating from the contaminated groundwater should be communicated.
- Information about exposure to contamination in the stream to children potentially playing in it should be obtained and made available to the public.

C. Concerns about the site remediation process:

- All contaminated groundwater should be cleaned up.
- Varian should actively continue assessment and remediation to reduce the time frame for completion of cleanup.
- Proper safety measures to protect the abutting community should be followed when completing assessment and cleanup tasks at the site.
- The current or any additional groundwater recovery and treatment system should be adequate in drawing back or cleaning up potentially dirty areas outside the contaminated area on-site.

D. Concerns about opportunities for public involvement during the remedial response action process:

- Public communication should be maintained by Varian.
- As much information as possible should be available to the public.
- All reports should be available for review by the public.
- Information presented or reported to the public concerning the assessment and remediation of the site should be as detailed as possible. Also, there should be abstracts or summaries with descriptions of the findings in layperson terminology.
- How do people check on Varian to ensure that they are in compliance with all environmental regulations in relation to site activities?

E. Other Concerns:

- How do site conditions and activities affect the value of nearby properties, refinancing and sales?
- Will building expansions at nearby properties be affected by conditions at Varian and possible off-site contamination?
- Will the chemicals impact drinking water supplies?
- Beverly Board of Health should be aware of assessment and cleanup process, and any potential dangers to the community.
- What does Varian currently do at the site?

Appendix C

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Appendix D

Schedule for Public Involvement

Activities



Appendix D. Schedule for Public Involvement Activities

Former Varian Facility Site
150 Sohier Road, Beverly, Massachusetts
Release Tracking Number #3-0485

Potential Response Actions	Public Involvement Activities					
	Submittal to Information Repositories	Notice to Mailing List	Notice of Field Work	Conduct Public Meetings	Complete Public Comment Periods	Issue Comment Response Summaries
Updated Public Involvement Plan	X	X		X	X	X
Immediate Response Action or Release Abatement Plans	X	X	X	X	X	X
Immediate Response Action or Release Abatement Measure Completion Statements	X	X			X	X
Revised Phase II Comprehensive Site Assessment	X	X		X	X	X
Revised III Remedial Action Plan	X	X		X	X	X
Revised IV Remedy Implementation Plan	X	X	X	X	X	X
Major Operation and Maintenance Plans for response actions-Phase V	X	X	X	X	X	X
Status Reports	X	X				
Post-Temporary Solution Status Reports	X	X		O		
Permanent or Temporary Solution	X	X		X	X	X

Notes:

1. Status reports include IRA, RAM, and Phase IV
2. X = Activity required
3. O = Planned optional activity