

Circle Finishing, Inc.
19 Graf Road
Newburyport, Massachusetts 01950

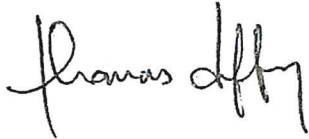
TEMPORARY SOLUTION STATEMENT

Circle Finishing, Inc. Us Route 1/Traffic Circle
Newbury/Newburyport, Massachusetts RTN 3-0392 and 3-
10321


September 8, 2017

A large, solid orange geometric shape, resembling a right-angled triangle or a parallelogram, is positioned in the bottom right corner of the page. It is oriented diagonally, with its hypotenuse running from the bottom left towards the top right. A thin white line runs parallel to the hypotenuse, creating a smaller, similar shape within the larger one. The shape's base is on the right edge, and its height extends from the bottom edge towards the top right corner.

TEMPORARY SOLUTION STATEMENT



Thomas Duffy
Staff Environmental Scientist



Allen R. Walker, P.E., LSP
Principal Environmental Engineer

TEMPORARY SOLUTION STATEMENT

Circle Finishing, Inc. Us Route 1/Traffic
Circle Newbury/Newburyport,
Massachusetts RTN 3-0392 And 3-
10321

Prepared for:

Circle Finishing, Inc.
19 Graf Road
Newburyport
Massachusetts 01950

Prepared by:

Arcadis U.S., Inc.
30 Braintree Hill
Suite 105
Braintree
Massachusetts 02184
Tel 781 356 7300
Fax 781 849 0189

Our Ref.:

BN012703.0009

Date:

September 8, 2017

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any distribution or copying of this document is strictly prohibited.

TEMPORARY SOLUTION STATEMENT

CONTENTS

Acronyms and Abbreviations.....	iii
1 Introduction	1
2 Disposal Site Name, Address and Release Tracking Nubers: 40.1057(1)(a)	1
3 Site specific risk characterization: 40.1057(1)(b).....	2
4 Previous Solution Statements and REsponse Actions: 40.1057(1)(c)	3
5 Feasability of Permanent Solution: 40.1057(1) (d)	3
6 Activity and Use Limitations: 40.1057(1) (e)	3
7 Active Exposure pathway mitigation measures (AEPMM): 40.1057(1)(f).....	3
8 LSP opinion On Requirements of a Temporary Solution: 40.1057(1)(g).....	3
9 A certification of the TSS and all documents submitted with the TSS as required by 310 CMR 40.0009: 40.1057(1)(h)	4
10 Indication as to whether oil and/or hazardous material exceed one or more applicable Upper Concentration Limits in Soil or Groundwater, as described at 310 CMR 40.0996: 40.1057(1)(i)	4
11 Indication as to whether the analytical data used to support the Temporary Solution was generated pursuant to the Department's Compendium of Analytical Methods (CAM): 40.1057(1)(j)	4
12 Site Location and Disposal Site Boundary: 40.1057(2)(a).....	4
13 Conceptual Site Model summary: 40.1057(2)(b)	4
14 Demonstration that all Sources of OHM Contamination have been eliminated or controlled, to the extent feasible: 40.1057(2)(c)	5
15 A demonstration that response actions have been taken to adequately assess and control the subsurface migration of OHM remaining at the disposal site as specified in 310 CMR 40.1003(6)(b): 40.1057(2)(d)	6
16 Where NAPL is or has been present, a demonstration that response actions have been taken to adequately assess NAPL mobility and meet the requirements of 310 CMR 40.1003(7)(b): 40.1057(2)(e)	6
17 A copy of the plan as specified in 310 CMR 40.0861(2)(h): 40.1057(2)(f)	6
18 Information supporting the conclusion that no substantial hazards remain at the disposal site: 40.1057(2)(g)	9
19 A copy of any and all Activity and Use Limitations which have been implemented under 310 CMR 40.1070: 40.1057(2)(h)	10
20 A description of any operation, maintenance, and/or monitoring that will be required to confirm and/or maintain those conditions at the disposal site upon which the Temporary Solution is based: 40.1057(2)(i).....	10

TEMPORARY SOLUTION STATEMENT

21	A copy of the plan, as specified in 310 CMR 40.0861(2)(h), which presents definitive and enterprising steps to be taken toward achieving a Permanent Solution at the disposal site: 40.1057(2)(j).....	11
22	A Data Usability Assessment documenting that the data relied upon is scientifically valid and defensible, and of a sufficient level of precision, accuracy, and completeness to support the Temporary Solution, and a Data Representativeness Evaluation, documenting the adequacy of the spatial and temporal data sets to support the Temporary Solution: 40.1057(2)(k)	12
23	Public Involvement – 310 CMR 40.1403(3)f and 40.1406	12

FIGURES

- Figure 1 Site Locus Map
- Figure 2 Site Plan
- Figure 3 Disposal Site Boundary

APPENDICES

- A Copy of BWSC-104 Transmittal Form
- B Data Usability Assessment
- C Copies of Local Official Notification Letters
- D Copies to Property Owners within the Disposal Site Boundary

TEMPORARY SOLUTION STATEMENT

ACRONYMS AND ABBREVIATIONS

ACEC	Areas of Critical Environmental Concern
ACO	Administrative Consent Order
Arcadis	Arcadis U.S., Inc.
ASAS	Applicable and Suitably Analogous Standards
Circle	Circle Finishing, Inc.
eDEP	MassDEP's on-line filing system
GIS Map	MassDEP Bureau of Waste Site Cleanup Site Scoring Map for the Site area
LSP	Licensed Site Professional
LTBI	Location To Be Investigated
MassDEP	Massachusetts Department of Environmental Protection
MCP	Massachusetts Contingency Plan
mg/L	milligram per liter
MNA	Monitored Natural Attenuation
NOAF	Notice of Audit Finding
NOT	Notice of Termination
NPDES	National Pollutant Discharge Elimination System
NRWQC	National Recommended Water Quality Criteria
OHM	oil and/or hazardous material
OMM	Operation, Maintenance and Monitoring
ROS	Remedy Operation Status
RTN	Release Tracking Number
TSS	Temporary Solution Statement
the Site	US Route 1/Traffic Circle in Newbury and Newburyport, Massachusetts
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound

1 INTRODUCTION

On behalf of Circle Finishing, Inc. (Circle), Arcadis U.S., Inc. (Arcadis) has prepared this Temporary Solution Statement (TSS) for the former Circle site located at US Route 1/Traffic Circle in Newbury and Newburyport, Massachusetts (the "Site"). This report is provided pursuant to section 40.1057 of the Massachusetts Contingency Plan (MCP) pertaining to the content of a TSS.

A copy of the Permanent and Temporary Solution Statement Transmittal Form (BWSC-104) for this document was uploaded to eDEP (MassDEP's on-line filing system) concurrently with this report. A final copy of the BWSC-104 form with e-signatures will be added as Appendix A following the e-filing of this report.

2 DISPOSAL SITE NAME, ADDRESS AND RELEASE TRACKING NUMBERS: 40.1057(1)(a)

The Site is identified by the Massachusetts Department of Environmental Protection (MassDEP) as Release Tracking Number (RTN) 3-0392. A second RTN (3-10321) was assigned to the site for the release of hazardous materials following the fire that destroyed the Site building, which was linked to the primary RTN, 3-0392.

The Site is located at the intersection of US Route 1 and an area known as the "Newburyport Traffic Circle" in Newburyport, Massachusetts. The Site is located in the towns of Newbury (majority of Site) and Newburyport, as identified on the Town of Newbury Tax Assessor's Map R-47 as Lots 38 and 39 and the Town of Newburyport Tax Assessor's Map 34 as Lot 1. The Site includes approximately 1.7 acres of land, where the topography is relatively level and includes a wetland area to the east. The fire-damaged building is no longer present and was abandoned prior to demolition in 2004.

A Site Locus Map is provided as Figure 1. Figure 2 presents a Site Plan depicting the approximate property boundaries, groundwater contours, outline of the former building and other features of the Site. Figure 3 indicates the disposal site boundary (DSB).

The Site is located in a primarily commercial setting east of US Route 1 at the Newburyport Traffic Circle. Surrounding properties are summarized below:

- North: the Newburyport Traffic Circle, Newburyport District Courthouse, and commercial businesses;
- East: wetland area, former railroad track spur, and farmland;
- South: abandoned railroad tracks, wetlands, and vacant land; and
- West: US Route 1 with commercial businesses and restaurants to the west, and a Massachusetts Bay Transit Authority (MBTA) commuter rail train station beyond the businesses to the west.

3 SITE SPECIFIC RISK CHARACTERIZATION: 40.1057(1)(b)

A Method 3 Risk Characterization of harm to human health, public welfare, safety, and the environment was conducted for the subject release (RTN 3-0392 and 3-10321) located at the Circle Site in Newbury and Newburyport, Massachusetts, which was prepared in accordance with the requirements of 310 CMR 40.0000 Subpart I of the MCP. Data from Site assessment activities and post-remediation sampling, as well as information from other sources (e.g., MassDEP and USEPA guidance documents) were used to conduct the risk characterization.

The human health risk characterization evaluated potential risk to current and potential future receptors, including trespassers, construction workers, recreators, and future hypothetical residents who were assumed to be exposed to Site-related constituents detected in soil, ambient air of an excavation, sediment and surface water. The results of the human health risk characterization demonstrate that the cancer and non-cancer risks associated with exposure to compounds of potential concern (COPCs) in these media under current and unrestricted Site uses do not exceed the MassDEP acceptable limits or Applicable and Suitably Analogous Standards (ASAS), and thus, a condition of "No Significant Risk" of harm to human health exists at the Site.

The presence of residual concentrations of chlorinated volatile organic compounds (CVOCs) in groundwater in one area of the Site near monitoring wells B-17AR, MW-3D and MW-3R are higher than criteria used to evaluate the significance of groundwater concentrations relative to the potential for vapor intrusion (i.e., the MCP Category GW-2 Standards were used to evaluate the potential for the vapor intrusion pathway to be significant). In the absence of any occupied buildings on Site currently, the vapor intrusion exposure pathway is incomplete. The protective measures considered prudent for potential occupancy of on-Site future buildings, including the need to evaluate vapor intrusion for future buildings, would be described in a future regulatory submittal (e.g., Permanent Solution with Conditions).

The results of the evaluation of risk of harm to safety and public welfare indicated that no unsafe or nuisance conditions exist at the Site. A condition of "No Significant Risk" of harm to safety and public welfare has also been demonstrated for the Site.

Concentrations of Site-related constituents in surface water and sediments have decreased over time, but exceedances of both water quality criteria and sediment screening values remain. Therefore, a condition of no significant risk of harm to the environment has not been achieved. However, based on the conditions listed in 310 CMR 40.0956, it has been determined that a condition of No Substantial Hazard to the Environment exists at the Site. Therefore, the recommended approach is to monitor conditions in the portion of the wetland outside of the remediated wetland area to confirm that conditions continue to improve through natural processes until a condition of no significant risk of harm to the environment has been achieved.

The Method 3 Risk Characterization is included in the Arcadis *Supplemental - Phase II Comprehensive Site Assessment Report, March 2017*.

4 PREVIOUS SOLUTION STATEMENTS AND RESPONSE ACTIONS: 40.1057(1)(c)

No previous Permanent or Temporary Solution Statements have been filed for this Site. Ongoing response actions include groundwater and surface water sampling to monitor the condition of these media. This sampling plan is presented in Section 20: Operation Maintenance and Monitoring.

5 FEASIBILITY OF PERMANENT SOLUTION: 40.1057(1) (d)

As noted in Section 3, a Method 3 Risk Characterization of harm to human health, public welfare, safety, and the environment was conducted for the subject Site. The results of the evaluation of risk of harm to safety and public welfare indicate that no unsafe or nuisance conditions exist at the Site. A condition of “No Significant Risk” of harm to safety and public welfare has also been demonstrated for the Site.

Concentrations of Site-related constituents in surface water and sediments have decreased over time, but exceedances of both water quality criteria and sediment screening values remain. Therefore, a condition of no significant risk of harm to the environment has not been achieved. However, based on the conditions listed in 310 CMR 40.0956, it has been determined that a condition of No Substantial Hazard to the Environment exists at the Site. Therefore, the recommended approach is to monitor conditions in the portion of the wetland both outside and within the remediated wetland area to confirm that conditions continue to improve through natural processes until a condition of no significant risk of harm to the environment has been achieved. Therefore, a Permanent Solution is feasible at the disposal site, earlier for the upland portion of the Site and later for the wetland portion. Site conditions will be monitored as described in Section 20.

6 ACTIVITY AND USE LIMITATIONS: 40.1057(1) (e)

This TSS does not include an activity or use limitation.

7 ACTIVE EXPOSURE PATHWAY MITIGATION MEASURES (AEPMM): 40.1057(1)(f)

The Temporary Solution does not include the operation of one or more AEPMMs pursuant to 310 CMR 40.1026.

8 LSP OPINION ON REQUIREMENTS OF A TEMPORARY SOLUTION: 40.1057(1)(g)

Based on the assessment, remedial actions and risk characterization findings for the Site, it is the opinion of the Licensed Site Professional that the requirements of a Temporary Solution specified in 310 CMR 40.1000 have been met.

9 A CERTIFICATION OF THE TSS AND ALL DOCUMENTS SUBMITTED WITH THE TSS AS REQUIRED BY 310 CMR 40.0009: 40.1057(1)(h)

The certification of the TSS is noted in the attached BWSC-104 Transmittal form.

10 INDICATION AS TO WHETHER OIL AND/OR HAZARDOUS MATERIAL EXCEED ONE OR MORE APPLICABLE UPPER CONCENTRATION LIMITS IN SOIL OR GROUNDWATER, AS DESCRIBED AT 310 CMR 40.0996: 40.1057(1)(i)

No upper concentration limits (UCLs) were detected in soil or groundwater samples remaining at the Site.

11 INDICATION AS TO WHETHER THE ANALYTICAL DATA USED TO SUPPORT THE TEMPORARY SOLUTION WAS GENERATED PURSUANT TO THE DEPARTMENT'S COMPENDIUM OF ANALYTICAL METHODS (CAM): 40.1057(1)(j)

Although some data were collected prior to the Department's creation of the CAM, the bulk of the analytical data used to support the TSS was generated pursuant to the Department's CAM methods.

12 SITE LOCATION AND DISPOSAL SITE BOUNDARY: 40.1057(2)(a)

Section 2 of this TSS report contains a clear and accurate description of the location of the Site or the location and boundaries of the disposal site or portion of disposal site to which the Temporary Solution applies that includes the location of areas characterized as Background relative to the disposal site boundaries. The estimated DSB for which this TSS applies is shown on Figure 3.

13 CONCEPTUAL SITE MODEL SUMMARY: 40.1057(2)(b)

A former metal plating facility discharged wastewater to an abutting wetland from approximately 1968 to 1975 and waste metal hydroxide sludge was placed on the ground. An industrial wastewater treatment system was installed in 1972 in order to perform cyanide destruction, hexavalent chromium reduction and

TEMPORARY SOLUTION STATEMENT

acid/alkaline neutralization. A sewer connection was established in 1975 to the City of Newburyport Sewage System.

In 1982 the Massachusetts Division of Water Pollution Control (DWPC) directed the sludge generated by the wastewater treatment to be removed. The waste sludge was stored onsite until June of 1983 when it was removed.

In 1993 a fire occurred at the former metal plating facility destroying the building. Fire-fighting water carried contaminants east to an abutting wetland. Response actions following the fire included containing, treating and disposing of collected water within the building foundation and remaining plating bath tanks. Surface soils in the flow path of the fire-fighting water were stockpiled and tested. Contaminated soils were removed and disposed.

Assessment activities following the fire identified metal impacts to the abutting wetland and metal, petroleum and VOC impacts to site soil and groundwater on site. Prior to use of the site as a metal plating facility the site was used for fuel oil storage and a gasoline station. The northern portion of the site has been paved at least since the 1960s was used for parking. This northern portion of the site is un-impacted based on current data and no known oil or hazardous material (OHM) use. OHM impacts are found in the central upland portion of the site and to the south. Also, the wetland to east and south of the Site have been affected primarily from metals.

The Site is not in a GW-1 groundwater classification, so groundwater is not used for drinking water and there is no plan to use groundwater at the Site. A risk assessment has been conducted for the Site that concluded there is No Substantial Hazard to Health or the environment. Due to the VOC impacts to groundwater, conditions would need to be implemented to address potential for vapor migration to a future building, but currently there is no building on the Site.

In 2002 the former building was removed except for contaminated building materials (mostly stained flooring). In 2004, contaminated building materials and three underground storage tanks (USTs) were removed from the Site. Soil and wetland sediment remedial actions were conducted in 2014 to remove contaminated soil from various upland source areas at the Site and sediment from the wetland area to the east. The wetland remediation was conducted for an approximate 0.5-acre area in the wetland east of the former building, where the former sewer pipe discharged and fire-fighting water flowed.

With substantial removal of contaminated soil and sediment from the Site, the Method 3 risk assessment has indicated that a condition of No Substantial Hazard exists. Operation, maintenance and monitoring will be conducted as described in Section 20 to monitor Site conditions.

14 DEMONSTRATION THAT ALL SOURCES OF OHM CONTAMINATION HAVE BEEN ELIMINATED OR CONTROLLED, TO THE EXTENT FEASIBLE: 40.1057(2)(c)

USTs present at the Site when Circle Finishing took control of the property in 1968 were subsequently removed in 2004. The electroplating processes have been discontinued at the Site.

On December 20, 1993, a fire at the Site damaged the on-Site building and in 2002 the remaining building structure was demolished. In 2014, the wetland and upland remedial actions removed most of

TEMPORARY SOLUTION STATEMENT

the impacted sediment and soil. So that residual secondary sources in soil, groundwater and sediment are controlled or eliminated.

15 A DEMONSTRATION THAT RESPONSE ACTIONS HAVE BEEN TAKEN TO ADEQUATELY ASSESS AND CONTROL THE SUBSURFACE MIGRATION OF OHM REMAINING AT THE DISPOSAL SITE AS SPECIFIED IN 310 CMR 40.1003(6)(b): 40.1057(2)(d)

40.1003(6)b states: “for a Temporary Solution, plumes of dissolved OHM in groundwater and vapor-phase OHM in the Vadose Zone are stable or contracting or otherwise controlled or mitigated to the extent feasible.”

Groundwater sampling has been conducted at the Site since 1987. With the implementation of source control and excavation of impacted soil, the groundwater quality has been improving. The substantial data set shows that OHM in groundwater and vapor-phase OHM in the Vadose Zone are stable and contracting. The levels of dissolved metals are contracting and stable, and the levels of VOCs have fallen at a faster rate.

16 WHERE NAPL IS OR HAS BEEN PRESENT, A DEMONSTRATION THAT RESPONSE ACTIONS HAVE BEEN TAKEN TO ADEQUATELY ASSESS NAPL MOBILITY AND MEET THE REQUIREMENTS OF 310 CMR 40.1003(7)(B): 40.1057(2)(e)

Non-aqueous phase liquid (NAPL) has not been detected at the Site.

17 A COPY OF THE PLAN AS SPECIFIED IN 310 CMR 40.0861(2)(h): 40.1057(2)(f)

The MCP at 40.0861(2)(h) states “if the selected Comprehensive Remedial Alternative is a Temporary Solution and a Permanent Solution is not currently feasible, except for those Temporary Solutions achieved after a Downgradient Property Status Submittal has been provided to the Department in accordance with 310 CMR 40.0180, a detailed description of definitive and enterprising steps pursuant to 310 CMR 40.1051 to identify and develop an alternative that is a likely Permanent Solution and a schedule for the implementation of such steps. Such steps may include, but are not limited to:

1. performing pilot tests or bench-scale studies;

TEMPORARY SOLUTION STATEMENT

2. investigating innovative ways to reduce the costs or the risks of implementing a specific alternative; and
3. developing new technologies.”

In 2014, the selected Phase III remedial activities were conducted at the Site pursuant to the 2013 Phase IV Remedy Implementation Plan (RIP). The remedial actions included the removal of the majority of the sediment in the wetland area immediately east of the former industrial building, along with treatment of the water generated from dewatering the wetland ahead of the excavation and removal of water seepage during the excavation. In the upland, soil excavation activities were conducted to remove metal and VOC impacted soils from former source areas. After completing the remedial actions, a Phase IV Completion Report was filed on February 29, 2015, along with Phase V Remedy Operation Status (ROS).

Subsequently, MassDEP performed an audit of the ROS, eventually terminating the ROS and directing Circle to conduct supplemental Phase II, Phase III and Phase IV activities. As discussed above, Circle submitted a supplemental Phase II CSA *Supplemental Phase II CSA (March 2017)*. A Method 3 Risk Characterization of harm to human health, public welfare, safety, and the environment for the subject release also was prepared to evaluate the updated analytical data that were presented in the *Supplemental Phase II CSA (March 2017)*.

The human health risk characterization in the Method 3 Risk Characterization evaluated potential risk to current and potential future receptors, including trespassers, construction workers, recreators, and future hypothetical residents who were assumed to be exposed to Site-related constituents detected in soil, ambient air of an excavation, sediment and surface water. The results of the human health risk characterization demonstrate that the cancer and non-cancer risks associated with exposure to compounds of potential concern in these media under current Site uses do not exceed the MassDEP acceptable limits or Applicable and Suitably Analogous Standards (ASAS), and thus, a condition of NSR of harm to human health exists at the Site.

The presence of residual concentrations of some chlorinated solvents in groundwater in one downgradient area of the Site near monitoring wells B-17AR, MW-3D and MW-3R are higher than criteria used to evaluate the significance of groundwater concentrations relative to the potential for vapor intrusion (i.e., the MCP Category GW-2 Standards were used to evaluate the potential for the vapor intrusion pathway to be significant). In the absence of any occupied buildings on Site currently, the vapor intrusion exposure pathway is incomplete. The protective measures considered prudent for potential occupancy of on-Site future buildings, including the need to evaluate vapor intrusion for future buildings, would be described in a future regulatory submittal (e.g., Temporary or Permanent Solution with Conditions).

The results of the 2017 updated evaluation of risk of harm to safety and public welfare indicated that no unsafe or nuisance conditions exist at the Site. A condition of NSR of harm to safety and public welfare has also been demonstrated for the Site.

With regard to sediment and surface water, the summary of the 2016 data focusing on ecological effects presented in the Method 3 Risk Characterization inadvertently had reversed the locations for Upstream 1 and Upstream 3. The concentrations and toxicity results were reported correctly; however, the comparisons to previous sampling locations were incorrect because of the transposition of Upstream 1 and Upstream 3. Specifically, the discussion of observed toxicity and sediment concentrations suggested

TEMPORARY SOLUTION STATEMENT

that Upstream 3 was collected in the vicinity of Circle 3, when in fact it was collected from the cove near Circle 4. Correcting this inadvertent error actually strengthens the observation that metal concentrations in sediment have been declining and that toxicity does not appear to be correlated with Site-related metals. The 2016 data indicate that although exceedances of both surface water quality criteria and sediment screening values remain, concentrations have been decreasing over time. In addition, although toxicity was observed in sediment toxicity tests conducted on samples collected from both the upstream and downstream areas of the wetland, the results do not correlate with measured concentrations of Site-related metals in sediments or with toxicity observed in previous sampling events, suggesting that other chemical or physical factors (such as grain size, pH, DO, sulfides, ammonia, TOC) may be contributing to the observed results. Considering the available information, it cannot be concluded that a condition of no significant risk of harm to the environment has been achieved. However, as defined in 310 CMR 40.0956, a condition of No Substantial Hazard to the Environment exists at the Site.

Arcadis has reviewed the remedial alternatives for sediment that were identified and evaluated in the Supplemental Phase III report (Arcadis 2017). Based upon the applicable criteria, and based upon the exhaustion of Circle's financial resources in completing the excavation of sediment near the Site in 2015, it is infeasible for Circle to conduct any additional sediment excavation. Also, as discussed above, it is unclear whether observed toxicity is associated with Site-related constituents and it appears there may be other chemical and physical conditions contributing. Therefore, it is clear that the significant financial costs of additional sediment removal to address the concentrations of Site-related constituents is not justified in an attempt to reduce toxicity to benthic invertebrates. Site-related concentrations appear to be decreasing over time, likely due to natural chemical and physical processes such as burial and sequestration, and these processes will continue to provide remediation to eliminate the metals as a potential source of significant risk to the environment. Therefore, the recommended alternative is to allow conditions in the portion of the wetland outside of the remediated wetland area to continue to improve naturally.

As noted, the results of the human health risk characterization demonstrate that the cancer and non-cancer risks associated with exposure to compounds of potential concern in these media under current Site uses do not exceed the MassDEP acceptable limits or ASAS, and thus, a condition of NSR of harm to human health exists at the Site. The results of the 2017 updated evaluation of risk of harm to safety and public welfare indicated that no unsafe or nuisance conditions exist at the Site. A condition of NSR of harm to safety and public welfare has also been demonstrated for the Site. However, where a condition of NSR of harm to the environment has not been achieved, a Temporary Solution has been achieved until Monitored Natural Recovery (MNR) indicates that NSR and a Permanent Solution is achieved.

The definitive steps to be undertaken include ongoing monitoring and evaluation of new technology and assessment tools. Section 20 presents the monitoring to be conducted as operation, maintenance and/or monitoring (OMM) to confirm that NSR is achieved. In addition, new technology or assessment tools will continue to be assessed for applicability to the Site.

18 INFORMATION SUPPORTING THE CONCLUSION THAT NO SUBSTANTIAL HAZARDS REMAIN AT THE DISPOSAL SITE: 40.1057(2)(g)

A Method 3 Risk Characterization of harm to human health, public welfare, safety, and the environment for the subject release (RTN 3-0392 and 3-10321) located at the Circle Site in Newbury and Newburyport, Massachusetts was prepared in accordance with the requirements of 310 CMR 40.0000 Subpart I of the MCP. Data from Site assessment activities and post-remediation sampling, as well as information from other sources (e.g., MassDEP and USEPA guidance documents) were used to conduct the risk characterization.

The human health risk characterization evaluated potential risk to current and potential future receptors, including trespassers, construction workers, recreators, and future hypothetical residents who were assumed to be exposed to Site-related constituents detected in soil, ambient air of an excavation, sediment and surface water. The results of the human health risk characterization demonstrate that the cancer and non-cancer risks associated with exposure to COPCs in these media under current and unrestricted Site uses do not exceed the MassDEP acceptable limits or ASAS, and thus, a condition of "No Significant Risk" of harm to human health exists at the Site.

The presence of residual concentrations of cis-1,2-DCE, TCE and VC in groundwater in one area of the Site near monitoring wells B-17AR, MW-3D and MW-3R are higher than criteria used to evaluate the significance of groundwater concentrations relative to the potential for vapor intrusion (i.e., the MCP Category GW-2 Standards were used to evaluate the potential for the vapor intrusion pathway to be significant). In the absence of any occupied buildings on Site currently, the vapor intrusion exposure pathway is incomplete. The protective measures considered prudent for potential occupancy of on-Site future buildings, including the need to evaluate vapor intrusion for future buildings, would be described in a future regulatory submittal (e.g., Permanent Solution with Conditions).

The results of the evaluation of risk of harm to safety and public welfare indicated that no unsafe or nuisance conditions exist at the Site. A condition of "No Significant Risk" of harm to safety and public welfare has also been demonstrated for the Site.

Concentrations of Site-related constituents in surface water and sediments have decreased over time, but exceedances of both water quality criteria and sediment screening values remain. Therefore, a condition of no significant risk of harm to the environment has not been achieved. However, based on the conditions listed in 310 CMR 40.0956, it has been determined that a condition of No Substantial Hazard to the Environment exists at the Site. Therefore, the recommended approach is to monitor conditions in the portion of the wetland outside of the remediated wetland area to confirm that conditions continue to improve through natural processes until a condition of no significant risk of harm to the environment has been achieved. The Method 3 Risk Characterization was included as Appendix C in the: *Supplemental – Phase II Comprehensive Site Assessment Circle Finishing, Inc. US Route 1/Traffic Circle Newbury/Newburyport, Massachusetts RTN 3-0392 and 3-10321, Circle Finishing, Inc., 19 Graf Road Newburyport, Massachusetts 01950; March 2017.*

TEMPORARY SOLUTION STATEMENT

19 A COPY OF ANY AND ALL ACTIVITY AND USE LIMITATIONS WHICH HAVE BEEN IMPLEMENTED UNDER 310 CMR 40.1070: 40.1057(2)(h)

No activity and use limitation have been implemented at the Site.

20 A DESCRIPTION OF ANY OPERATION, MAINTENANCE (OMM), AND/OR MONITORING THAT WILL BE REQUIRED TO CONFIRM AND/OR MAINTAIN THOSE CONDITIONS AT THE DISPOSAL SITE UPON WHICH THE TEMPORARY SOLUTION IS BASED: 40.1057(2)(i)

For this Site, the OM&M plan includes groundwater, sediment and surface water sampling. The monitoring program will be semi-annual for groundwater monitoring (well sampling) and once every two years for wetland sediment and surface water.

Groundwater Sampling (semi-annual):

Monitoring well sampling will occur semi-annually in the spring and fall and will include analysis for: volatile organic compounds (VOCs) and the metals: chromium, copper, lead, nickel and zinc.

The following monitoring wells will be sampled as part of the OMM:

Well	Screen Depth (feet)	Analysis	Note/Comment
MW-2	5 - 10	metals	
MW-3D	29 - 33	metals	
MW-3R	2 - 12	VOCs and metals	
MW-4	5 - 10	metals	
B-11R	2 - 12	VOCs and metals	
B-12R2	2 - 12	VOCs and metals	
B-17AR	2 - 12	metals	Well filled with dirt. Will try to rehabilitate.

Sediment and Surface Water (once every two years):

Surface water sampling will include: the metals chromium, copper, lead, nickel, and zinc, and hardness.

TEMPORARY SOLUTION STATEMENT

Surface water sampling locations will include:

- Circle 3 - Upper (northern) Wetland
- SW-4 – Upper/Central wetland; and
- SW-1 – Remediated wetland near surface water discharge point and down to cross-gradient of Site.

At each location, surface water samples will be collected first, to ensure that sediments suspended during sediment sampling do not cause interference in the surface water sample.

Sediment sampling will be for the same metals as the surface water sampling and the samples will be collected from the top 6 inches of sediment collected at:

- Circle 3, Upper (northern) Wetland

The duration of the sampling will be based on the quality of the groundwater, sediment and surface water, and if the remedial objectives have been met. Standard sampling and analysis protocols will be implemented.

The name and telephone numbers of the persons conducting the monitoring are:

Arcadis U.S., Inc.
30 Braintree Hill Office Park – Suite 105
Braintree, Massachusetts 02184
(781) 356-7300

Project Manager and LSP: Mr. Allen R. Walker, LSP, PE and
Thomas Duffy, Associate Project Manager
(Cell Phones # 617-908-7257 and 617-908-7137, respectively).

A health and safety plan will be in place for the monitoring activities. No permits are anticipated for performing the sampling. Most of the sampling is on Site, some sampling is off Site, but access issues are not anticipated.

21 A COPY OF THE PLAN, AS SPECIFIED IN 310 CMR 40.0861(2)(H), WHICH PRESENTS DEFINITIVE AND ENTERPRISING STEPS TO BE TAKEN TOWARD ACHIEVING A PERMANENT SOLUTION AT THE DISPOSAL SITE: 40.1057(2)(j)

See the discussion in Section 17 above.

22 A DATA USABILITY ASSESSMENT DOCUMENTING THAT THE DATA RELIED UPON IS SCIENTIFICALLY VALID AND DEFENSIBLE, AND OF A SUFFICIENT LEVEL OF PRECISION, ACCURACY, AND COMPLETENESS TO SUPPORT THE TEMPORARY SOLUTION, AND A DATA REPRESENTATIVENESS EVALUATION, DOCUMENTING THE ADEQUACY OF THE SPATIAL AND TEMPORAL DATA SETS TO SUPPORT THE TEMPORARY SOLUTION: 40.1057(2)(k)

A data usability assessment is included as Appendix B. Compendium of Analytical Methods (CAM) were followed after the implementation of CAM in 2003, but due to the long history of assessment at the Site, pre-CAM data are also used and relied upon.

23 PUBLIC INVOLVEMENT – 310 CMR 40.1403(3)f and 40.1406

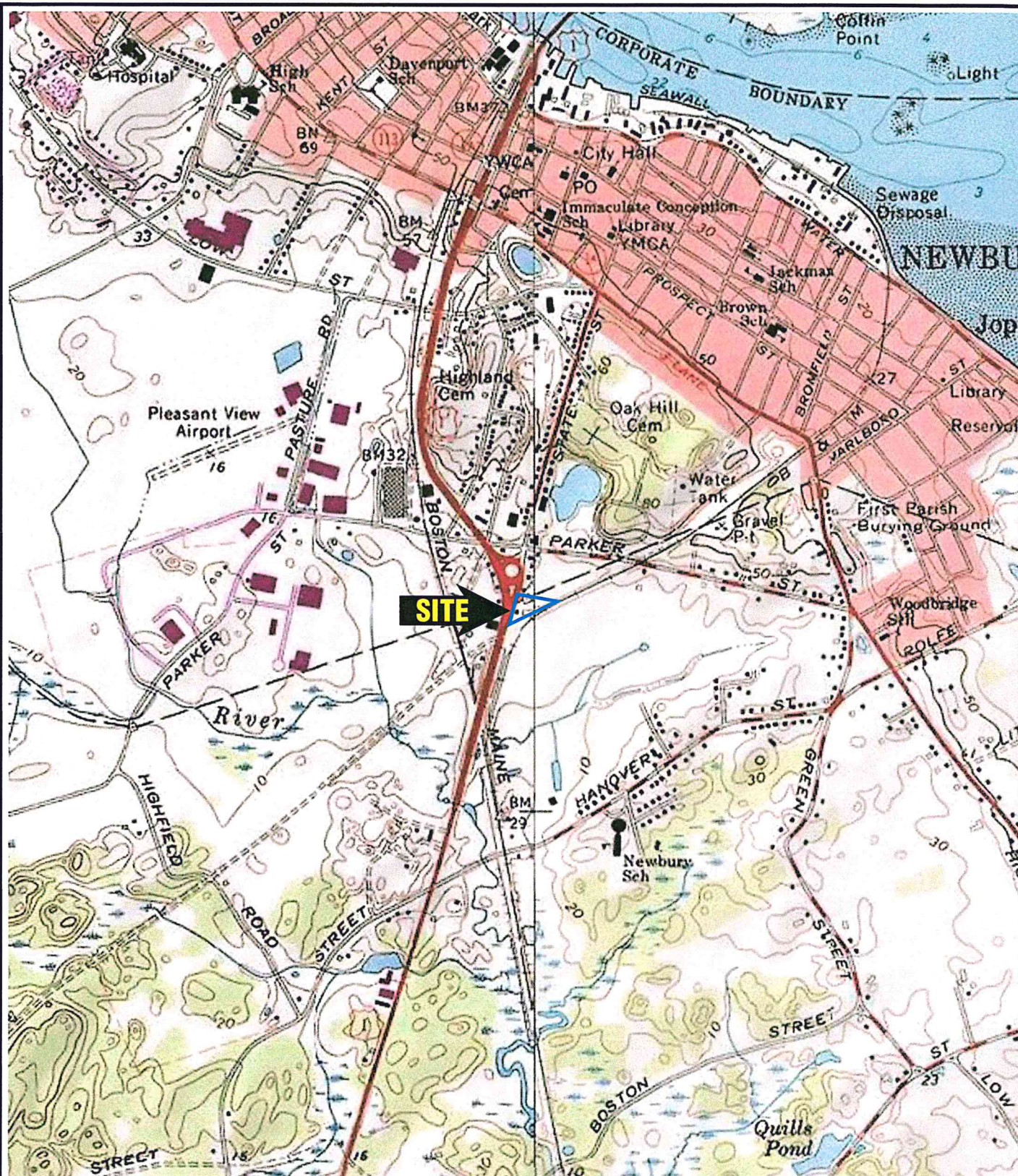
The Chief Municipal Officer and Board of Health for the towns of Newbury and Newburyport will be notified of the TSS pursuant to 310 CMR 40.1403(3)(f). Copies of the notification letters are included at Appendix C.

Property owners who are within the DSB will be notified of this pursuant to 310 CMR 40.1406(1)(b). Copies of the notification letters are included at Appendix D.

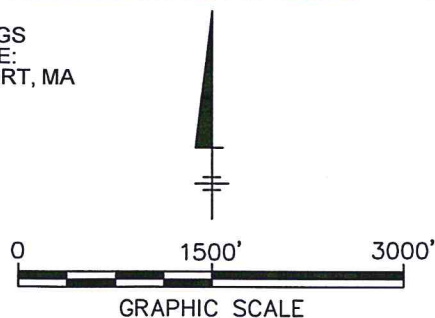
FIGURES



CITY: MANCHESTER DIV: GROUP: ENVCAD DB: THALLIWELL PM: TM: LAYOUT: 1 SAVED: 2/16/2017 11:28 AM ACADVER: 19.1S (LMS TECH) PAGES: 1 PLOTTED: 2/17/2017 10:24 AM BY: HALLIWELL, TRISH
G:\ENVCAD\MANCHESTER\PROJECTS\127030009\000\127030009-803.dwg



SOURCE: USGS
UADANGLE:
NEWBURYPORT, MA
DATED: 1987



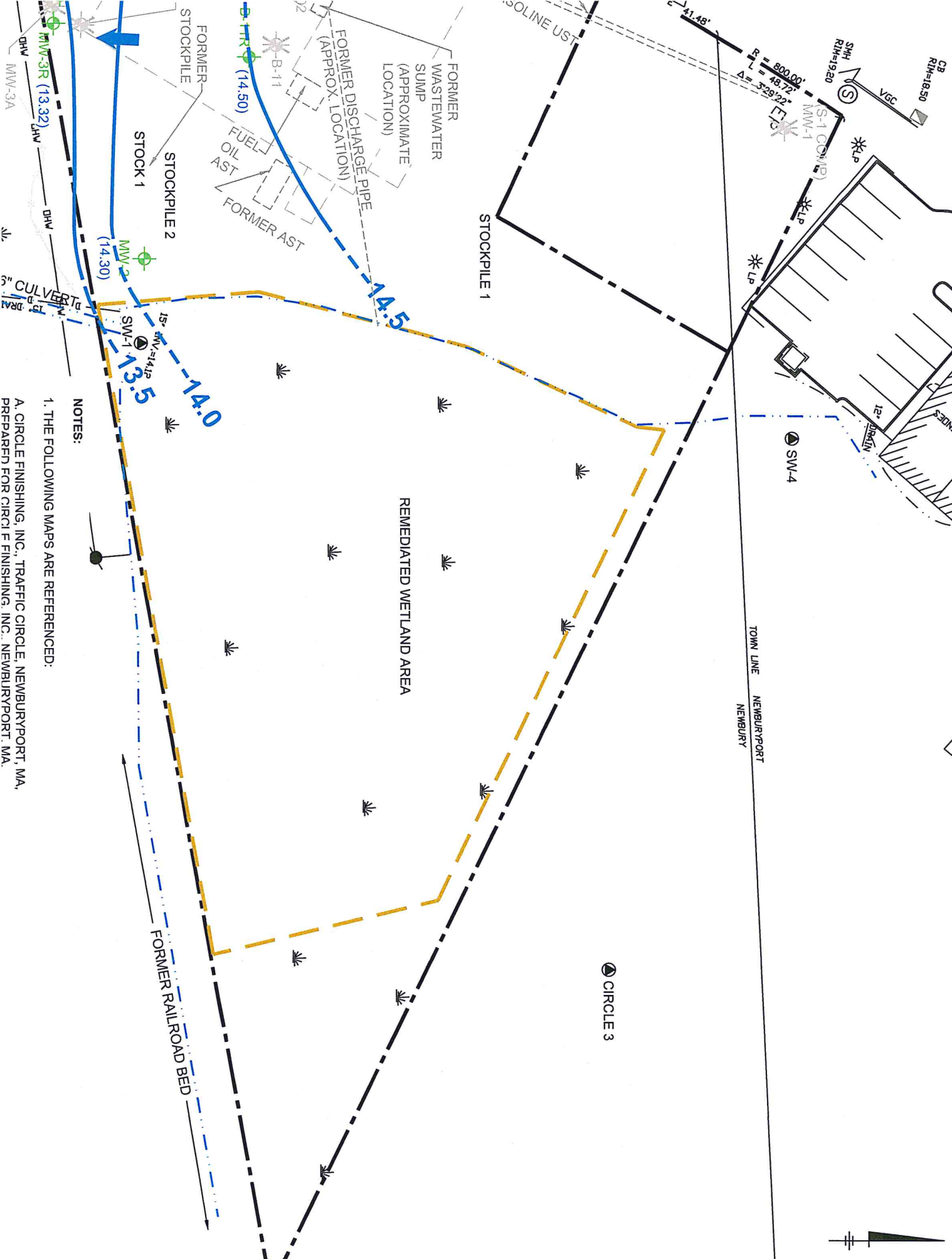
CIRCLE FINISHING INC.
US ROUTE 1 / TRAFFIC CIRCLE
NEWBURY, MASSACHUSETTS

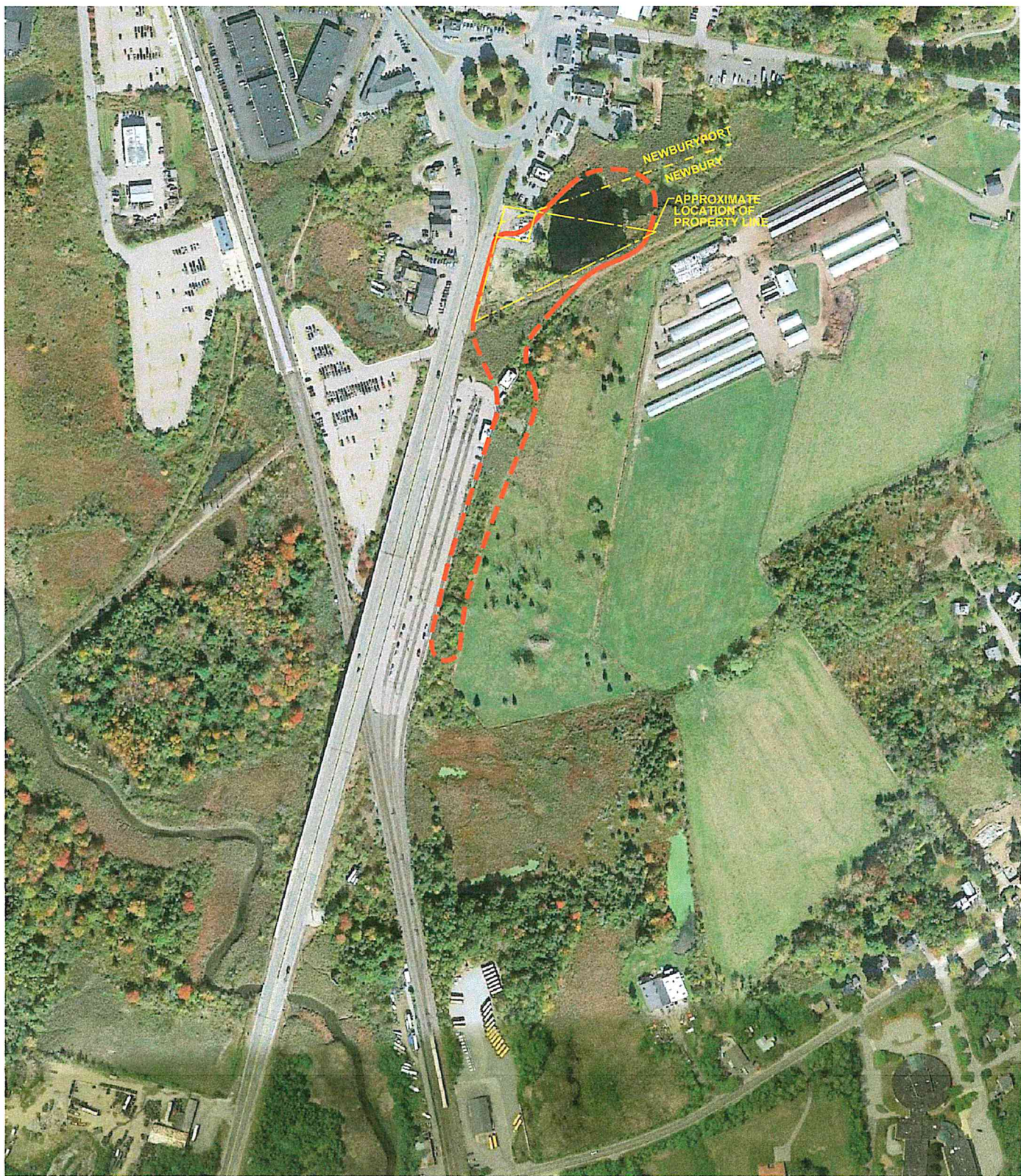
SITE LOCATION MAP

 **ARCADIS** Design & Consultancy
for natural and
built assets

FIGURE

1



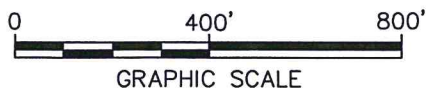


LEGEND

- DISPOSAL SITE BOUNDARY
- - - - - DISPOSAL SITE BOUNDARY - ESTIMATED

NOTES

1. AERIAL PHOTO SOURCED FROM GOOGLE EARTH PRO, IMAGERY DATE OCTOBER 9, 2014.
2. LOCATIONS OF PROPERTY LINES AND TOWN LINES ARE APPROXIMATE.



CIRCLE FINISHING INC.
US ROUTE 1 / TRAFFIC CIRCLE
NEWBURY, MASSACHUSETTS

ESTIMATED DISPOSAL SITE BOUNDARY

APPENDIX A

BWSC-104 Permanent and Temporary Solution Statement Form
(submitted electronically)



APPENDIX B

Data Usability Assessment



Appendix B

Representativeness and Data Usability Evaluation

APPENDIX V: REPRESENTATIVENESS AND DATA USABILITY WORKSHEET

A. Representativeness Evaluation <i>(Specific to information/samples used to support the TSS. Refer to Sections 5 and 6.)</i>	
<p>A-1 Provide a succinct summary of the Conceptual Site Model (CSM) for the disposal site. Discussion should include:</p> <ul style="list-style-type: none"> - Disposal site history - Geologic/hydrogeological setting - Contaminant Source(s) and Type(s) - Description of the volume/mass and types of contaminants released to the environment - Date/time period of release(s), if known - Release location, affected media, and horizontal and vertical extent of the contamination - Contaminant migration pathways - Mechanism/pathways and points of exposure by human and ecological receptors <i>(Refer to Section 6.1)</i> 	<p>A former metal plating facility discharged wastewater to an abutting wetland from approximately 1968 to 1975 and waste metal hydroxide sludge was placed on the ground. An industrial wastewater treatment system was installed in 1972 to perform cyanide destruction, hexavalent chromium reduction and acid/alkaline neutralization. A sewer connection was established in 1975 to the City of Newburyport Sewage System.</p> <p>In 1982 the Massachusetts Division of Water Pollution Control (DWPC) directed the sludge generated by the wastewater treatment to be removed. The waste sludge was stored onsite until June of 1983 when it was removed.</p> <p>In 1993 a fire occurred at the former metal plating facility destroying the building. Fire-fighting water carried contaminants east to an abutting wetland. Response actions following the fire included containing, treating and disposing of collected water within the building foundation and remaining plating bath tanks. Surface soils in the flow path of the fire-fighting water were stockpiled and tested. Contaminated soils were removed and disposed.</p> <p>Assessment activities following the fire identified metal impacts to the abutting wetland and metal, petroleum and VOC impacts to site soil and groundwater on site. Prior to use of the site as a metal plating facility the site was used for fuel oil storage and a gasoline station. The northern portion of the site has been paved at least since the 1960s was used for parking. This northern portion of the site is un-impacted based on current data and no known oil or hazardous material (OHM) use. OHM impacts are found in the central upland portion of the site and to the south. Also, the wetland to east and south of the Site have been affected primarily from metals.</p> <p>The Site is not in a GW-1 groundwater classification, so groundwater is not used for drinking water and there is no</p>

Appendix B

Representativeness and Data Usability Evaluation

A. Representativeness Evaluation (<i>Specific to information/samples used to support the TSS. Refer to Sections 5 and 6.</i>)	
--	--

	<p>plan to use groundwater at the Site. A risk assessment has been conducted for the Site that concluded there is No Substantial Hazard to Health or the environment. Due to the VOC impacts to groundwater, conditions would need to be implemented to address potential for vapor migration to a future building, but currently there is no building on the Site. Also, the VOC impacted area is shrinking in size as the contaminants attenuate.</p>
--	---

	<p>In 2002 the former building was removed except for contaminated building materials (mostly stained flooring). In 2004, contaminated building materials and three underground storage tanks (USTs) were removed from the Site. Soil and wetland sediment remedial actions were conducted in 2014 to remove contaminated soil from various upland source areas at the Site and sediment from the wetland area to the east. The wetland remediation was conducted for an approximate 0.5-acre area in the wetland east of the former building, where the former sewer pipe discharged and fire-fighting water flowed.</p>
--	---

	<p>With substantial removal of contaminated soil and sediment from the Site, the Method 3 risk assessment has indicated that a condition of No Substantial Hazard exists. Operation, maintenance and monitoring will be conducted as described in Section 20 of the report to monitor Site conditions.</p>
--	--

Appendix B

Representativeness and Data Usability Evaluation

A. Representativeness Evaluation <i>(Specific to information/samples used to support the TSS. Refer to Sections 5 and 6.)</i>	
<p>A-2 Discuss use of Field/Screening Data in response action decision making, including:</p> <ul style="list-style-type: none">- Contaminant of Concern screening/elimination- Selection of sampling locations- Comparison to laboratory results- Comparison to visual/olfactory observations <p><i>(Refer to Section 6.2)</i></p>	<p>() No Field/Screening Data were used to directly support this TSS.</p> <p>(X) Field/Screening Data were used, as follows:</p> <p>Visual and olfactory observations and TOV screening by the jar headspace method were used as part of the decision-making process to assess location and relative concentrations of volatile organic compounds (VOCs) and petroleum effects as well as for limits of soil excavation and sample selection. Sampling locations were selected to evaluate the conditions of the remaining in-place soils to help identify affected areas and in determining the limits of the excavation (presumed clean). The field screening results appeared to collaborate with the laboratory results for VOCs and petroleum affected soils. Visually, some of the excavated soil did exhibit unusual color or staining, and petroleum odors, consistent with the field screening data.</p>

Appendix B

Representativeness and Data Usability Evaluation

A. Representativeness Evaluation *(Specific to information/samples used to support the TSS. Refer to Sections 5 and 6.)*

A-3 Discuss and justify sampling locations and depths collected in support of RAO regarding:

For Class A or B RAOs

- Delineation of disposal site boundaries (horizontal and vertical)
- Elimination/control of OHM source(s)
- Characterization of Risk (Exposure Pathways/Receptors, Hot Spots, samples included in EPCs, Background)
- Achievement of No Significant Risk (NSR)

For Class C RAOs

- Delineation of disposal site boundaries (horizontal and vertical)
- Elimination/control of OHM source(s)
- Characterization of Risk (Exposure Pathways/Receptors, Hot Spots, samples included in EPCs, Background)
- Achievement of No Substantial Hazard (NSH)

Historical documents identified many of the former hazardous material storage and use areas. This helped to identify sampling locations to characterize the affected areas and analyses to use. Sampling in the fire-fighting water flow path and surrounding area was also conducted to assess affected and unaffected locations. Extensive sampling of the wetland was also conducted, and the collective data was used to determine the disposal site boundary (DSB).

During excavation of both affected upland soils and wetland sediment, post-excavation bottom samples were collected. For upland areas, sidewall samples were also collected to assess the lateral extent. The wetland excavation was a defined location and sidewall samples were not collected.

Groundwater impacts exist in overburden soil and underlying clay. Monitoring wells were installed in former source areas and the edge of the plume to delineate the extent of impacts. Water table wells and deeper screened wells were installed into the clay to assess deeper groundwater. Groundwater sampling and analysis over time have shown a decreasing plume size, decreasing concentrations and some migration into the deeper clay.

There is an extensive database for upland soil, wetland sediment and groundwater sampling for the site.

There are no known hot spots or uncontrolled odors associated with the release.

(Refer to Table1 and Section 6.3; A-3 and A-4 of the worksheet may be combined, as appropriate.)

Appendix B

Representativeness and Data Usability Evaluation

A. <u>Representativeness Evaluation</u> (<i>Specific to information/samples used to support the TSS. Refer to Sections 5 and 6.</i>)	
<p>A-4 Discuss and justify the density, spatial distribution, collection methods, and handling (compositing, split sampling) of samples collected in support of RAO (in relation to the justification provided in A-3 for meeting the RAO requirements)</p> <p><i>(Refer to Table 1 and Section 6.4)</i></p>	<p>The long-term monitoring of groundwater at the Site, together with the sediment and soil samples that were collected during the source area excavation activities to determine that the affected soils were removed are adequate. All samples were collected and screened or analyzed using acceptable methods. The number of post-excavation samples was appropriate and consistent with standard practice. The source of the release has been controlled and the samples are adequate to document the DSB and support the risk characterization for identification of exposure pathways receptors, documentation of no Hot Spots, calculation of exposure point concentrations (EPC) and identification of background conditions.</p>

Appendix B

Representativeness and Data Usability Evaluation

A. Representativeness Evaluation (<i>Specific to information/samples used to support the TSS. Refer to Sections 5 and 6.</i>)	
<p>A-5 Identify disposal site conditions, if any, that warrant the collection and analysis of temporal samples. For disposal sites that require monitoring over an extended time period, discuss and justify the number and time interval for sampling rounds conducted in support of the RAO for the following:</p> <p><u>For Class A or B RAOs</u></p> <ul style="list-style-type: none">- Delineation of disposal site boundaries (horizontal and vertical)- Characterization of Risk (Exposure Pathways/Receptors, Hot Spots, samples included in EPCs, Background)- Elimination/control of OHM source(s)- Achievement of No Significant Risk (NSR) <p><u>For Class C RAOs</u></p> <ul style="list-style-type: none">- Delineation of disposal site boundaries (horizontal and vertical)- Characterization of Risk (Exposure Pathways/Receptors, Hot Spots, samples included in EPCs, Background)- Elimination/control of OHM source(s)- Achievement of No Substantial Hazard (NSH) <p><i>(Refer to Table 1 and Section 6.5)</i></p>	<p>(X) Temporal sampling was warranted for this disposal site.</p> <p>Long-term temporal sampling has been conducted at this Site over the long time period it took to fund all of the remedial activities. This long period of sampling has provided a substantial data base, which has indicated an attenuation of groundwater impacts at the site. Continued temporal sampling is planned on a bi-annual basis (2x per year) and is expected to occur in the fall and spring.</p>

Appendix B

Representativeness and Data Usability Evaluation

A. Representativeness Evaluation (*Specific to information/samples used to support the TSS. Refer to Sections 5 and 6.*)

A-6 Field Completeness of Data:
Discuss data gaps identified in sampling and analytical information used to support RAO and their significance.

(Refer to Section 6.6)

No significant data gaps were identified. An adequate number of samples were collected from the release area to document the Site conditions. Visual, olfactory and field screening by the jar headspace method using a photoionization detector (PID) was used in the field to assess the affected area and end points for the petroleum and VOC impacts along with follow-up laboratory analysis. Field screening for metals was also conducted using an XRF. Collection of soil, groundwater, sediment and surface water samples for metals and cyanide by laboratory analysis was conducted. Long-term monitoring of groundwater and surface water at the Site was also conducted. The extensive sampling to characterize the site conditions allowed for optimizing the analyses required.

Appendix B

Representativeness and Data Usability Evaluation

A. <u>Representativeness Evaluation</u> (<i>Specific to information/samples used to support the TSS. Refer to Sections 5 and 6.</i>)	
<p>A-7 Identify any inconsistent information or uncertainty and justify disregarding such information or uncertainty (e.g., site assessment data inconsistent with historical information, field screening data/observations inconsistent with analytical data, use of data to support the RAO in spite of identified analytical or other deficiencies, etc.) in rendering the RAO Opinion.</p> <p><i>(Refer to Section 6.7)</i></p>	<p>Soil and groundwater VOC and petroleum data did not identify inconsistency between field screening data for soil and laboratory analytical data. Regarding sediment and surface water, the summary of the 2016 data focusing on ecological effects presented in the Method 3 Risk Characterization inadvertently had reversed the locations for Upstream 1 and Upstream 3. The concentrations and toxicity results were reported correctly. However, the comparisons to previous sampling locations were incorrect because of the transposition of Upstream 1 and Upstream 3. Specifically, the discussion of observed toxicity and sediment concentrations suggested that Upstream 3 was collected near Circle 3, when in fact it was collected from the cove near Circle 4. Correcting this inadvertent error actually strengthens the observation that metal concentrations in sediment have been declining and that toxicity does not appear to be correlated with Site-related metals. The 2016 data indicate that although exceedances of both surface water quality criteria and sediment screening values remain, concentrations have been decreasing over time. In addition, although toxicity was observed in sediment toxicity tests conducted on samples collected from both the upstream and downstream areas of the wetland, the results do not correlate with measured concentrations of Site-related metals in sediments or with toxicity observed in previous sampling events, suggesting that other chemical or physical factors (such as grain size, pH, DO, sulfides, ammonia, TOC,]) may be contributing to the observed results.</p>

Appendix B

Representativeness and Data Usability Evaluation

A. <u>Representativeness Evaluation</u> (<i>Specific to information/samples used to support the TSS. Refer to Sections 5 and 6.</i>)	
<p>A-8 Where it is not otherwise apparent or discussed in previous sections, identify/discuss information generated during the course of response actions that was not used to support the RAO because it was determined to be unrepresentative or no longer representative of disposal site conditions.</p> <p><i>(Refer to Section 6.8)</i></p>	<p>Not applicable.</p>

Appendix B

Representativeness and Data Usability Evaluation

B. Data Usability Assessment <i>(Specific to samples used to support the RAO. Refer to Table 1, Section 7.0 through 7.3, and Appendices I, II, III and IV.)</i>	
B-1 List all MCP activities that provided the analytical data reviewed in the course of conducting the Data Usability Assessment in support of the RAO. Include the media sampled and the month and year the data were acquired.	<p>() Listed below.</p> <p>(X) Attached separately (provide attachment reference).</p> <ul style="list-style-type: none">• Refer to the attached REDUA Policy APPENDIX VI DATA SUMMARY TABLE.
B-2 Discuss appropriateness of selected analytical methods to quantitatively support the RAO.	<p>The analytical data that were summarized in the report table used appropriate analytical methods in support of the RAO Statement for the Site. The laboratory methods and analyses were consistent with the COCs for the Site (e.g., EPH/VPH with target analytes) and performed using CAM, which provides recommended protocols for acquisition, analysis and reporting of analytical data. Historical laboratory data for the Site that was reported prior to the establishment of the CAM also appear to meet appropriate QA/QC at that time.</p>
B-3 Discuss appropriateness of selected analytical methods' Reporting Limits (RL) to quantitatively support the RAO.	<p>() All Reporting Limits were at or below applicable standards.</p> <p>Appropriate analytical methods and RL were mostly met. Continued monitoring of the Site is planned. RLs at or below applicable standards are expected.</p>

Appendix B

Representativeness and Data Usability Evaluation

B. Data Usability Assessment <i>(Specific to samples used to support the RAO. Refer to Table 1, Section 7.0 through 7.3, and Appendices I, II, III and IV.)</i>	
B-4 Discuss laboratory performance criteria and data quality indicators used to assess overall <u>Analytical Accuracy</u> (continuing calibration, laboratory control spikes, etc.) and <u>Analytical Precision</u> (laboratory duplicates, laboratory control spike duplicates, etc.). For CAM data, see MCP Analytical Method Report Certification Form and Laboratory Case Narrative.	<p>() Met all CAM requirements and performance standards without qualification.</p> <p>(X) If not, discuss data usability implications.</p> <p>Most of the data met CAM requirements. Some lab reports indicated that some non-compounds of concern (COC) failed the recovery low for laboratory control samples (LCS) and the laboratory control sample duplicate (LCSD). These and similar issues are not expected to affect the use of the data. Note that there are Pre-CAM data that are relied on.</p>
B-5 Discuss performance criteria and data quality indicators used to assess overall <u>Field Data Usability</u> (sample preservation compliance, sample sub sampling/compositing, etc.).	<p>We did not identify field quality control issues that would limit or qualify the use of the field data in support of the TSS. Proper sample collection, compositing, preservation and handling were used.</p>
B-6 Discuss any data rejected pursuant to Appendix IV, Rejection Criteria – Analytical Data Usability Assessments.	<p>(X) No data rejected pursuant to Appendix IV.</p>

Appendix B

Representativeness and Data Usability Evaluation

C. Representativeness Evaluation and Data Usability Assessment Summary and Conclusions *(Refer to Section 8.0)*

Provide a summary declaration that the data set relied upon to support the RAO is:

1. Scientifically valid and defensible, and of sufficient accuracy, precision and completeness; and,

2. Representative with regards to the spatial and temporal distribution of sampling points.

The data used to support the TSS was scientifically valid and defensible, and of sufficient accuracy, precision and completeness. In addition, the data set was representative with regards to the spatial and temporal distribution of sampling points. In addition to the information provided previously for representative data, field samples were collected in accordance with standardized and accepted protocols. Appropriate decontamination was performed between sampling that did not include use of disposable equipment. The laboratory reported that samples were received in acceptable condition, preservation and that no holding times were exceeded.

Laboratory Report ID	Parameters	Date	Soil					Site Characterization		Hazard Elimination	Data Qualifications, if any
			Groundwater	Surface Water	Sediment	Air	Background	EPGs	CAM Compliant		
480-109463-1 TestAmerica Lab	Metals	11/23/2016		X		X		X		YES	A through D and F through H are checked YES, I is checked NO
480-109463-1 TestAmerica Lab	Metals, VOC, VPH	11/21/2016	X	X			X	X	X	YES	A through E(a) and F are checked YES, G through I are checked NO
480-109576-1 TestAmerica Lab	Metals	11/17/2016		X			X		X	YES	A through D and F through H are checked YES, I is checked NO
15F0063 Cont-Test	Metals, VOC, Mercury, PCB	6/9/2015	X				X	X	X	YES	A through D and F through G are checked YES, H through I are checked NO
15F0023 Cont-Test	Metals, VOC, EPH, VPH	6/9/2015	X				X		X	YES	A through E(a) and F are checked YES, G through I are checked NO
15A0786 Cont-Test	Metals	1/29/2015		X			X	X		YES	A through D and F through H are checked YES, I is checked NO
14L0779 Cont-Test	Metals, VOC, EPH, VPH	12/30/2014		X			X	X		YES	A through E(a) and F are checked YES, G through I are checked NO
14H1254 Cont-Test	Metals	9/9/2014		X			X		X	TBD	To be determined (TBD). Missing CAM sheet, MCP form was requested on COC
14G0622 Cont-Test	Metals, VOC, EPH, VPH	7/25/2014	X	X			X	X		YES	A through E(a) and F are checked YES, G through I are checked NO
14G0718 Cont-Test	Metals	6/17/2014		X			X	X		TBD	Missing CAM sheet. Surface water effluent from surface water discharge
14F0398 Cont-Test	Metals	6/16/2014	X	X			X	X	X	YES	A through D and F through H are checked YES, I is checked NO
14F0655 Cont-Test	Metals	6/16/2014	X	X			X	X	X	YES	A through D and F through H are checked YES, I is checked NO
14F0346 Cont-Test	Metals	6/16/2014		X			X	X		TBD	Missing CAM sheet, MCP form was requested on COC
14F0594 Cont-Test	Metals	6/13/2014		X						TBD	Missing CAM sheet, Surface water effluent from surface water discharge, MCP form was requested on COC
14F0536 Cont-Test	Metals	6/12/2014		X						TBD	Missing CAM sheet, Surface water effluent from surface water discharge, MCP form was requested on COC
14F0443 Cont-Test	Metals	6/11/2014		X						TBD	Missing CAM sheet, Surface water effluent from surface water discharge, MCP form was requested on COC
14F0335 Cont-Test	Metals	6/11/2014	X	X			X			YES	A through D and F through H are checked YES, I is checked NO
14F0088 Cont-Test	Metals	6/10/2014		X			X			YES	A through D and F through H are checked YES, I is checked NO
14F0377 Cont-Test	Metals	6/10/2014	X							TBD	Missing CAM sheet, Surface water effluent from surface water discharge, MCP form was requested on COC

Laboratory Report ID	Parameters	Date	Site Characterization					Background	EPCs	Hazard Elimination	Data Qualifications, if any
			Soil	Groundwater	Surface Water	Sediment	Air				
14F0346 ConTest	Metals	6/9/2014		X	X		X				TBD Missing CAM sheet. MCP form was requested on COC
14F0268 ConTest	Metals	6/6/2014		X							TBD Missing CAM sheet. Surface water effluent from surface water discharge. MCP form was requested on COC
14F0105 ConTest	Metals	6/6/2014	X	X			X				YES A through D and F through H are checked YES. I is checked NO
14F0153 ConTest	Metals	6/6/2014		X							YES A through D and F through H are checked YES. I is checked NO
14F0089 ConTest	Metals	6/6/2014	X				X				YES A through D and F through H are checked YES. I is checked NO
14E1035 ConTest	Metals	6/4/2014		X							YES A through D and F through H are checked YES. I is checked NO
14E1081 ConTest	Metals, VOC	6/4/2014		X							YES A through D and F are checked YES. G through I are checked NO
14F0010 ConTest	Metals, Mercury	6/3/2014		X							YES A through D and F are checked YES. G through I is checked NO
14E1103 ConTest	Metals, Mercury	6/2/2014		X							YES A through D and F through G are checked YES. H and I are checked NO
14E1027 ConTest	Metals, Mercury, VOC	6/2/2014		X			X				YES A through D and F are checked YES. G through I are checked NO
14E0934 ConTest	Metals, Mercury, VOC	5/28/2014		X			X				YES A through D and F are checked YES. G through I are checked NO
14E0838 ConTest	Metals	5/27/2014	X				X				YES A through D and F through H are checked YES. I is checked NO
14E0723 ConTest	Metals, Mercury, VOC	5/22/2014		X			X				YES A through D and F are checked YES. G through I are checked NO
14E0671 ConTest	Metals, Mercury, VOC	5/21/2014		X			X				YES A through D and F are checked YES. G through I are checked NO
14E0550 ConTest	Metals, Mercury, VOC	5/20/2014		X			X				YES A through D and F through G are checked YES. H through I are checked NO
14E0407 ConTest	Metals, Mercury, VOC	5/14/2014		X			X				YES A through D and F are checked YES. G through I are checked NO

APPENDIX C

Copies of Local Official Notification Letters



Ms. Deborah Rogers, Health Agent
Newbury Town Hall
12 Kent Way
Byfield, Massachusetts 01922

Arcadis U.S., Inc.
30 Braintree Hill
Suite 105
Braintree
Massachusetts 02184
Tel 781 356 7300
Fax 781 849 0189
www.arcadis.com

Subject:
Temporary Solution Statement
Former Circle Finishing, Inc. Site
Newbury/Newburyport, Massachusetts
RTN # 3-392

ENVIRONMENT

Date:
September 8, 2017

Dear Ms. Rogers:

Contact:
Allen Walker

Arcadis U.S., Inc. has prepared the above noted Temporary Solution Statement for Release Tracking Number (RTN) 3-392 for the above-referenced Site. This report is provided pursuant to section 40.1403(3)f of the Massachusetts Contingency Plan (MCP). This Temporary Solution Statement provides updated information on the status of the Site conducted per the Massachusetts Contingency Plan (MCP) 310 CMR 40.00. This report was transmitted electronically to the Massachusetts Department of Environmental Protection (MassDEP) via eDEP. The report is available at the MassDEP website:

Phone:
781-267-7454

<http://public.dep.state.ma.us/SearchableSites2/Search.aspx>

Email:
Allen.Walker@arcadis.com

Please call me if there are any questions regarding this submittal at 781-267-7454.

Our ref:
BN012703.0009

Sincerely,

Arcadis U.S., Inc.



Allen R. Walker, P.E., LSP
Principal Environmental Engineer

Copies:
MassDEP - NERO

Mr. Frank Giacalone, Director of Public Health
City of Newburyport
60 Pleasant Street
Newburyport, Massachusetts 01950

Arcadis U.S., Inc.
30 Braintree Hill
Suite 105
Braintree
Massachusetts 02184
Tel 781 356 7300
Fax 781 849 0189
www.arcadis.com

Subject:
Temporary Solution Statement
Former Circle Finishing, Inc. Site
Newbury/Newburyport, Massachusetts
RTN # 3-392

ENVIRONMENT

Date:
September 8, 2017

Dear Mr. Giacalone:

Contact:
Allen Walker

Arcadis U.S., Inc. has prepared the above noted Temporary Solution Statement for Release Tracking Number (RTN) 3-392 for the above-referenced Site. This report is provided pursuant to section 40.1403(3)f of the Massachusetts Contingency Plan (MCP). This Temporary Solution Statement provides updated information on the status of the Site conducted per the MCP 310 CMR 40.00. This report was transmitted electronically to the Massachusetts Department of Environmental Protection (MassDEP) via eDEP. The report is available at the MassDEP website:

Phone:
781-267-7454

Email:
Allen.Walker@arcadis.com

<http://public.dep.state.ma.us/SearchableSites2/Search.aspx>

Our ref:
BN012703.0009

Please call me if there are any questions regarding this submittal at 781-267-7454.

Sincerely,

Arcadis U.S., Inc.



Allen R. Walker, P.E., LSP
Principal Environmental Engineer

Copies:
MassDEP - NERO

Mr. Geoffrey Walker, Chairperson Board of Selectmen
Newbury Town Hall
12 Kent Way
Byfield, Massachusetts 01922

Arcadis U.S., Inc.
30 Braintree Hill
Suite 105
Braintree
Massachusetts 02184
Tel 781 356 7300
Fax 781 849 0189
www.arcadis.com

Subject:
Temporary Solution Statement
Former Circle Finishing, Inc. Site
Newbury/Newburyport, Massachusetts
RTN # 3-392

ENVIRONMENT

Date:
September 8, 2017

Dear Mr. Walker:

Contact:
Allen Walker

Arcadis U.S., Inc. has prepared the above Temporary Solution Statement for Release Tracking Number (RTN) 3-392 for the above-referenced Site. This report is provided pursuant to section 40.1403(3)f of the Massachusetts Contingency plan (MCP). This Temporary Solution Statement provides updated information on the status of the Site conducted per the MCP 310 CMR 40.00. This report was transmitted electronically to the Massachusetts Department of Environmental Protection (MassDEP) via eDEP. The report is available at the MassDEP website:

Phone:
781-267-7454

Email:
Allen.Walker@arcadis.com

<http://public.dep.state.ma.us/SearchableSites2/Search.aspx>

Our ref:
BN012703.0009

Please call me if there are any questions regarding this submittal at 781-267-7454.

Sincerely,

Arcadis U.S., Inc.



Allen R. Walker, P.E., LSP
Principal Environmental Engineer

Copies:
MassDEP - NERO

Ms. Donna Holaday, Mayor
City of Newburyport
60 Pleasant Street
Newburyport, Massachusetts 01950

Arcadis U.S., Inc.
30 Braintree Hill
Suite 105
Braintree
Massachusetts 02184
Tel 781 356 7300
Fax 781 849 0189
www.arcadis.com

Subject:
Temporary Solution Statement
Former Circle Finishing, Inc. Site
Newbury/Newburyport, Massachusetts
RTN # 3-392

ENVIRONMENT

Date:
September 8, 2017

Dear Mayor Holaday:

Contact:
Allen Walker

Arcadis U.S., Inc. has prepared the above noted Temporary Solution Statement for Release Tracking Number (RTN) 3-392 for the above-referenced Site. This report is provided pursuant to section 40.1403(3)f of the Massachusetts Contingency Plan (MCP). This Temporary Solution Statement provides updated information on the status of the Site conducted per the MCP 310 CMR 40.00. This report was transmitted electronically to the Massachusetts Department of Environmental Protection (MassDEP) via eDEP. The report is available at the MassDEP website:

Phone:
781-267-7454

Email:
Allen.Walker@arcadis.com

<http://public.dep.state.ma.us/SearchableSites2/Search.aspx>

Our ref:
BN012703.0009

Please call me if there are any questions regarding this submittal at 781-267-7454.

Sincerely,

Arcadis U.S., Inc.



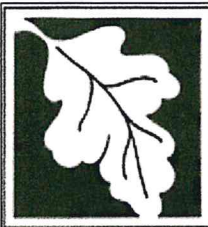
Allen R. Walker, P.E., LSP
Principal Environmental Engineer

Copies:
MassDEP - NERO

APPENDIX D

Copies to Property Owners Within the Disposal Site Boundary





Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

A. DISPOSAL SITE ADDRESS: (associated with Release Tracking Number provided above)

1. Street Address: US 1 Traffic Circle/
2. City/Town: Newbury/Newburyport 3. ZIP Code: 01950-0000
4. Assessor's Parcel ID: R-47-38 and R-47-39

B. THIS NOTICE IS BEING PROVIDED TO THE FOLLOWING PROPERTY OWNER:

1. Name of Property Owner: Newburydom Limited Partnership
2. Address of Property For Which This Notice is Being Provided: (property owned by person named in B1)
- a. Street Address: 100 Conifer Hill Driver, Suite 402
- b. City/Town: Danvers c. ZIP Code: 01923-0000
3. Assessor's Parcel ID: 34-2

C. THIS NOTICE IS BEING GIVEN : (check one)

- ☐ 1. Upon Completion of a Phase II Comprehensive Site Assessment.
- ☒ 2. Upon Submittal of a Permanent or Temporary Solution Statement (i.e., Site Closure Report).
- ☐ 3. Upon Completion of Additional Investigation showing that Oil or Hazardous Material is not Present at the Property.

D. DESCRIPTION OF OIL AND/OR HAZARDOUS MATERIAL PRESENT OR LIKELY TO BE PRESENT AT THE PROPERTY :
(check all that apply)

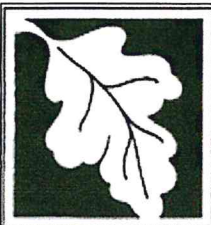
AFFECTED ENVIRONMENTAL MEDIA

PRINCIPAL CHEMICAL(S) PRESENT

- | | |
|--|---|
| <input checked="" type="checkbox"/> 1. Soil | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 2. Groundwater | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 3. Surface Water | <u>metals</u> |
| <input checked="" type="checkbox"/> 4. Sediment | <u>metals</u> |
| <input type="checkbox"/> 5. Indoor Air | <u></u> |
| <input type="checkbox"/> 6. Soil Gas | <u></u> |
| <input type="checkbox"/> 7. Other: <u>(specify)</u> | <u></u> |

E. ATTACHMENTS PROVIDED WITH THIS NOTICE, AS REQUIRED BY 310 CMR 40.1406:

- ☒ 1. A Copy of the Map Showing or a Description Describing the Area where the Oil and/or Hazardous Material is or is likely to be Present.
- ☒ 2. A Copy of the Phase II Comprehensive Site Assessment or Permanent or Temporary Solution Statement Conclusions.
- ☒ 3. Specify the category of Solution that applies to the Disposal Site.
- ☐ 1. Permanent Solution with No Conditions.
- ☐ 2. Permanent Solution with Conditions.
- ☐ i. An Activity and Use Limitation has been implemented.
- ☐ ii. An Activity and Use Limitation has not been implemented.
- ☒ 3. Temporary Solution.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

F. CONTACT INFORMATION RELATING TO THE PARTY PROVIDING THIS NOTICE:

- | | |
|---|--|
| 1. Name of Organization: <u>Arcadis U. S., Inc.</u> | |
| 2. Contact First Name: <u>Allen</u> | 3. Last Name: <u>Walker</u> |
| 4. Street: <u>30 Braintree Hill Office Park</u> | 5. Title: <u>Licensed Site Professional (LSP)</u> |
| 6. City/Town: <u>Braintree</u> | 7. State: <u>MA</u> 8. ZIP Code: <u>02184-0000</u> |
| 9. Telephone: <u>(781) 267-7454</u> | 10. Email: _____ |

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1406. The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party(ies) who is/are addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form.

PURPOSE OF THIS NOTICE

Parties who are taking actions to respond to releases of oil or hazardous material to the environment are required by state regulations (referred to above) to notify the owners of property where the oil or hazardous material is or is likely to be present. These same parties are also required to notify property owners upon completion of actions to address the oil or hazardous material, or if additional investigations show that the oil or hazardous material is not present at a property. **Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time.

INFORMATION RELATED TO YOUR PROPERTY

Section D on the reverse side of this form indicates the type(s) of oil or hazardous material that is or is likely to be present at your property, and the environmental medium (e.g., soil or groundwater) where it is or is likely to be present. **Please note** that when an investigation indicates that the oil or hazardous material is or is likely to be present at your property, this does not mean that the oil or hazardous material is posing a health risk to you. Parties who are taking actions to address oil and hazardous material releases are required by state regulations to adequately investigate these releases and take necessary actions to ensure that affected properties meet standards that are protective of human health and the environment.

ATTACHED MAP OR DESCRIPTION AND REPORT CONCLUSIONS

The party providing this notice to you is required to attach a map or description that indicates the boundaries of the area where the oil or hazardous material is or is likely to be present, and the conclusions of the site investigation or closure report (**Section E**). These attachments should give you additional information about the nature and location of the oil or hazardous material with respect to your property.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>.

For more information regarding this notice, you may contact the party listed in **Section F** of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection.

See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

A. DISPOSAL SITE ADDRESS: (associated with Release Tracking Number provided above)

1. Street Address: US 1 Traffic Circle/

2. City/Town: Newbury/Newburyport 3. ZIP Code: 01950-0000

4. Assessor's Parcel ID: R-47-38 and R-47-39

B. THIS NOTICE IS BEING PROVIDED TO THE FOLLOWING PROPERTY OWNER:

1. Name of Property Owner: Clipper City Car Wash, Inc. c/o Armand Sancartier

2. Address of Property For Which This Notice is Being Provided: (property owned by person named in B1)

a. Street Address: 104B State Street

b. City/Town: Newburyport c. ZIP Code: 01950-0000

3. Assessor's Parcel ID: 34-3

C. THIS NOTICE IS BEING GIVEN : (check one)

- ☐ 1. Upon Completion of a Phase II Comprehensive Site Assessment.
- ☒ 2. Upon Submittal of a Permanent or Temporary Solution Statement (i.e., Site Closure Report).
- ☐ 3. Upon Completion of Additional Investigation showing that Oil or Hazardous Material is not Present at the Property.

D. DESCRIPTION OF OIL AND/OR HAZARDOUS MATERIAL PRESENT OR LIKELY TO BE PRESENT AT THE PROPERTY :
(check all that apply)

AFFECTED ENVIRONMENTAL MEDIA

PRINCIPAL CHEMICAL(S) PRESENT

- | | |
|--|---|
| <input checked="" type="checkbox"/> 1. Soil | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 2. Groundwater | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 3. Surface Water | <u>metals</u> |
| <input checked="" type="checkbox"/> 4. Sediment | <u>metals</u> |
| <input type="checkbox"/> 5. Indoor Air | _____ |
| <input type="checkbox"/> 6. Soil Gas | _____ |
| <input type="checkbox"/> 7. Other: _____ | _____ |
- (specify)

E. ATTACHMENTS PROVIDED WITH THIS NOTICE, AS REQUIRED BY 310 CMR 40.1406:

- ☒ 1. A Copy of the Map Showing or a Description Describing the Area where the Oil and/or Hazardous Material is or is likely to be Present.
- ☒ 2. A Copy of the Phase II Comprehensive Site Assessment or Permanent or Temporary Solution Statement Conclusions.
- ☒ 3. Specify the category of Solution that applies to the Disposal Site.
- ☐ 1. Permanent Solution with No Conditions.
- ☐ 2. Permanent Solution with Conditions.
- ☐ i. An Activity and Use Limitation has been implemented.
- ☐ ii. An Activity and Use Limitation has not been implemented.
- ☒ 3. Temporary Solution.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

F. CONTACT INFORMATION RELATING TO THE PARTY PROVIDING THIS NOTICE:

- | | |
|---|--|
| 1. Name of Organization: <u>Arcadis U. S., Inc.</u> | |
| 2. Contact First Name: <u>Allen</u> | 3. Last Name: <u>Walker</u> |
| 4. Street: <u>30 Braintree Hill Office Park</u> | 5. Title: <u>Licensed Site Professional (LSP)</u> |
| 6. City/Town: <u>Braintree</u> | 7. State: <u>MA</u> 8. ZIP Code: <u>02184-0000</u> |
| 9. Telephone: <u>(781) 267-7454</u> | 10. Email: _____ |

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1406. The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party(ies) who is/are addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form.

PURPOSE OF THIS NOTICE

Parties who are taking actions to respond to releases of oil or hazardous material to the environment are required by state regulations (referred to above) to notify the owners of property where the oil or hazardous material is or is likely to be present. These same parties are also required to notify property owners upon completion of actions to address the oil or hazardous material, or if additional investigations show that the oil or hazardous material is not present at a property. **Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time.

INFORMATION RELATED TO YOUR PROPERTY

Section D on the reverse side of this form indicates the type(s) of oil or hazardous material that is or is likely to be present at your property, and the environmental medium (e.g., soil or groundwater) where it is or is likely to be present. **Please note** that when an investigation indicates that the oil or hazardous material is or is likely to be present at your property, this does not mean that the oil or hazardous material is posing a health risk to you. Parties who are taking actions to address oil and hazardous material releases are required by state regulations to adequately investigate these releases and take necessary actions to ensure that affected properties meet standards that are protective of human health and the environment.

ATTACHED MAP OR DESCRIPTION AND REPORT CONCLUSIONS

The party providing this notice to you is required to attach a map or description that indicates the boundaries of the area where the oil or hazardous material is or is likely to be present, and the conclusions of the site investigation or closure report (**Section E**). These attachments should give you additional information about the nature and location of the oil or hazardous material with respect to your property.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>.

For more information regarding this notice, you may contact the party listed in **Section F** of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection.

See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

A. DISPOSAL SITE ADDRESS: (associated with Release Tracking Number provided above)

1. Street Address: US 1 Traffic Circle/

2. City/Town: Newbury/Newburyport 3. ZIP Code: 01950-0000

4. Assessor's Parcel ID: R-47-38 and R-47-39

B. THIS NOTICE IS BEING PROVIDED TO THE FOLLOWING PROPERTY OWNER:

1. Name of Property Owner: Sardinha Manuel & Helena Trs, Melissa Realty Trust

2. Address of Property For Which This Notice is Being Provided: (property owned by person named in B1)

a. Street Address: P.O. Box 725

b. City/Town: West Newbury c. ZIP Code: 01985-0000

3. Assessor's Parcel ID: 34-4

C. THIS NOTICE IS BEING GIVEN : (check one)

- ☐ 1. Upon Completion of a Phase II Comprehensive Site Assessment.
- ☒ 2. Upon Submittal of a Permanent or Temporary Solution Statement (i.e., Site Closure Report).
- ☐ 3. Upon Completion of Additional Investigation showing that Oil or Hazardous Material is not Present at the Property.

D. DESCRIPTION OF OIL AND/OR HAZARDOUS MATERIAL PRESENT OR LIKELY TO BE PRESENT AT THE PROPERTY :
(check all that apply)

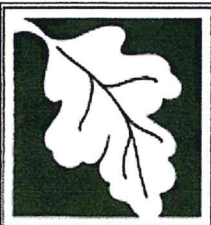
AFFECTED ENVIRONMENTAL MEDIA

PRINCIPAL CHEMICAL(S) PRESENT

- | | |
|--|---|
| <input checked="" type="checkbox"/> 1. Soil | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 2. Groundwater | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 3. Surface Water | <u>metals</u> |
| <input checked="" type="checkbox"/> 4. Sediment | <u>metals</u> |
| <input type="checkbox"/> 5. Indoor Air | _____ |
| <input type="checkbox"/> 6. Soil Gas | _____ |
| <input type="checkbox"/> 7. Other: _____ | _____ |
| (specify) | |

E. ATTACHMENTS PROVIDED WITH THIS NOTICE, AS REQUIRED BY 310 CMR 40.1406:

- ☒ 1. A Copy of the Map Showing or a Description Describing the Area where the Oil and/or Hazardous Material is or is likely to be Present.
- ☒ 2. A Copy of the Phase II Comprehensive Site Assessment or Permanent or Temporary Solution Statement Conclusions.
- ☒ 3. Specify the category of Solution that applies to the Disposal Site.
- ☐ 1. Permanent Solution with No Conditions.
- ☐ 2. Permanent Solution with Conditions.
- ☐ i. An Activity and Use Limitation has been implemented.
- ☐ ii. An Activity and Use Limitation has not been implemented.
- ☒ 3. Temporary Solution.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

F. CONTACT INFORMATION RELATING TO THE PARTY PROVIDING THIS NOTICE:

- | | |
|---|--|
| 1. Name of Organization: <u>Arcadis U. S., Inc.</u> | |
| 2. Contact First Name: <u>Allen</u> | 3. Last Name: <u>Walker</u> |
| 4. Street: <u>30 Braintree Hill Office Park</u> | 5. Title: <u>Licensed Site Professional (LSP)</u> |
| 6. City/Town: <u>Braintree</u> | 7. State: <u>MA</u> 8. ZIP Code: <u>02184-0000</u> |
| 9. Telephone: <u>(781) 267-7454</u> | 10. Email: _____ |

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1406. The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party(ies) who is/are addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form.

PURPOSE OF THIS NOTICE

Parties who are taking actions to respond to releases of oil or hazardous material to the environment are required by state regulations (referred to above) to notify the owners of property where the oil or hazardous material is or is likely to be present. These same parties are also required to notify property owners upon completion of actions to address the oil or hazardous material, or if additional investigations show that the oil or hazardous material is not present at a property. **Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time.

INFORMATION RELATED TO YOUR PROPERTY

Section D on the reverse side of this form indicates the type(s) of oil or hazardous material that is or is likely to be present at your property, and the environmental medium (e.g., soil or groundwater) where it is or is likely to be present. **Please note** that when an investigation indicates that the oil or hazardous material is or is likely to be present at your property, this does not mean that the oil or hazardous material is posing a health risk to you. Parties who are taking actions to address oil and hazardous material releases are required by state regulations to adequately investigate these releases and take necessary actions to ensure that affected properties meet standards that are protective of human health and the environment.

ATTACHED MAP OR DESCRIPTION AND REPORT CONCLUSIONS

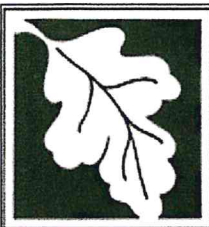
The party providing this notice to you is required to attach a map or description that indicates the boundaries of the area where the oil or hazardous material is or is likely to be present, and the conclusions of the site investigation or closure report (**Section E**). These attachments should give you additional information about the nature and location of the oil or hazardous material with respect to your property.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>.

For more information regarding this notice, you may contact the party listed in **Section F** of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection.

See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

A. DISPOSAL SITE ADDRESS: (associated with Release Tracking Number provided above)

1. Street Address: US 1 Traffic Circle/
2. City/Town: Newbury/Newburyport 3. ZIP Code: 01950-0000
4. Assessor's Parcel ID: R-47-38 and R-47-39

B. THIS NOTICE IS BEING PROVIDED TO THE FOLLOWING PROPERTY OWNER:

1. Name of Property Owner: Sardinha Manuel & Helena Trs
2. Address of Property For Which This Notice is Being Provided: (property owned by person named in B1)
- a. Street Address: 70 Storey Avenue
- b. City/Town: Newburyport c. ZIP Code: 01950-0000
3. Assessor's Parcel ID: 34-5

C. THIS NOTICE IS BEING GIVEN : (check one)

- ☐ 1. Upon Completion of a Phase II Comprehensive Site Assessment.
- ☒ 2. Upon Submittal of a Permanent or Temporary Solution Statement (i.e., Site Closure Report).
- ☐ 3. Upon Completion of Additional Investigation showing that Oil or Hazardous Material is not Present at the Property.

D. DESCRIPTION OF OIL AND/OR HAZARDOUS MATERIAL PRESENT OR LIKELY TO BE PRESENT AT THE PROPERTY :
(check all that apply)

AFFECTED ENVIRONMENTAL MEDIA

PRINCIPAL CHEMICAL(S) PRESENT

- | | |
|--|---|
| <input checked="" type="checkbox"/> 1. Soil | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 2. Groundwater | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 3. Surface Water | <u>metals</u> |
| <input checked="" type="checkbox"/> 4. Sediment | <u>metals</u> |
| <input type="checkbox"/> 5. Indoor Air | _____ |
| <input type="checkbox"/> 6. Soil Gas | _____ |
| <input type="checkbox"/> 7. Other: _____ | _____ |
- (specify)

E. ATTACHMENTS PROVIDED WITH THIS NOTICE, AS REQUIRED BY 310 CMR 40.1406:

- ☒ 1. A Copy of the Map Showing or a Description Describing the Area where the Oil and/or Hazardous Material is or is likely to be Present.
- ☒ 2. A Copy of the Phase II Comprehensive Site Assessment or Permanent or Temporary Solution Statement Conclusions.
- ☒ 3. Specify the category of Solution that applies to the Disposal Site.
- ☐ 1. Permanent Solution with No Conditions.
- ☐ 2. Permanent Solution with Conditions.
- ☐ i. An Activity and Use Limitation has been implemented.
- ☐ ii. An Activity and Use Limitation has not been implemented.
- ☒ 3. Temporary Solution.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

F. CONTACT INFORMATION RELATING TO THE PARTY PROVIDING THIS NOTICE:

1. Name of Organization: Arcadis U. S., Inc.
2. Contact First Name: Allen 3. Last Name: Walker
4. Street: 30 Braintree Hill Office Park 5. Title: Licensed Site Professional (LSP)
6. City/Town: Braintree 7. State: MA 8. ZIP Code: 02184-0000
9. Telephone: (781) 267-7454 10. Email: _____

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1406. The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party(ies) who is/are addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form.

PURPOSE OF THIS NOTICE

Parties who are taking actions to respond to releases of oil or hazardous material to the environment are required by state regulations (referred to above) to notify the owners of property where the oil or hazardous material is or is likely to be present. These same parties are also required to notify property owners upon completion of actions to address the oil or hazardous material, or if additional investigations show that the oil or hazardous material is not present at a property. **Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time.

INFORMATION RELATED TO YOUR PROPERTY

Section D on the reverse side of this form indicates the type(s) of oil or hazardous material that is or is likely to be present at your property, and the environmental medium (e.g., soil or groundwater) where it is or is likely to be present. **Please note** that when an investigation indicates that the oil or hazardous material is or is likely to be present at your property, this does not mean that the oil or hazardous material is posing a health risk to you. Parties who are taking actions to address oil and hazardous material releases are required by state regulations to adequately investigate these releases and take necessary actions to ensure that affected properties meet standards that are protective of human health and the environment.

ATTACHED MAP OR DESCRIPTION AND REPORT CONCLUSIONS

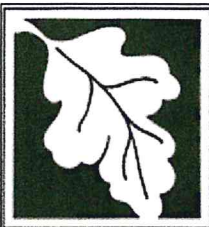
The party providing this notice to you is required to attach a map or description that indicates the boundaries of the area where the oil or hazardous material is or is likely to be present, and the conclusions of the site investigation or closure report (**Section E**). These attachments should give you additional information about the nature and location of the oil or hazardous material with respect to your property.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>.

For more information regarding this notice, you may contact the party listed in **Section F** of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection.

See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

A. DISPOSAL SITE ADDRESS: (associated with Release Tracking Number provided above)

1. Street Address: US 1 Traffic Circle/
2. City/Town: Newbury/Newburyport 3. ZIP Code: 01950-0000
4. Assessor's Parcel ID: R-47-38 and R-47-39

B. THIS NOTICE IS BEING PROVIDED TO THE FOLLOWING PROPERTY OWNER:

1. Name of Property Owner: Town of Newbury
2. Address of Property For Which This Notice is Being Provided: (property owned by person named in B1)
- a. Street Address: 25 High Road
- b. City/Town: Newbury c. ZIP Code: 01951-0000
3. Assessor's Parcel ID: R-47-37

C. THIS NOTICE IS BEING GIVEN : (check one)

- ☐ 1. Upon Completion of a Phase II Comprehensive Site Assessment.
- ☒ 2. Upon Submittal of a Permanent or Temporary Solution Statement (i.e., Site Closure Report).
- ☐ 3. Upon Completion of Additional Investigation showing that Oil or Hazardous Material is not Present at the Property.

D. DESCRIPTION OF OIL AND/OR HAZARDOUS MATERIAL PRESENT OR LIKELY TO BE PRESENT AT THE PROPERTY :
(check all that apply)

AFFECTED ENVIRONMENTAL MEDIA

PRINCIPAL CHEMICAL(S) PRESENT

- | | |
|--|---|
| <input checked="" type="checkbox"/> 1. Soil | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 2. Groundwater | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 3. Surface Water | <u>metals</u> |
| <input checked="" type="checkbox"/> 4. Sediment | <u>metals</u> |
| <input type="checkbox"/> 5. Indoor Air | <u></u> |
| <input type="checkbox"/> 6. Soil Gas | <u></u> |
| <input type="checkbox"/> 7. Other: <u>(specify)</u> | <u></u> |

E. ATTACHMENTS PROVIDED WITH THIS NOTICE, AS REQUIRED BY 310 CMR 40.1406:

- ☒ 1. A Copy of the Map Showing or a Description Describing the Area where the Oil and/or Hazardous Material is or is likely to be Present.
- ☒ 2. A Copy of the Phase II Comprehensive Site Assessment or Permanent or Temporary Solution Statement Conclusions.
- ☒ 3. Specify the category of Solution that applies to the Disposal Site.
- ☐ 1. Permanent Solution with No Conditions.
- ☐ 2. Permanent Solution with Conditions.
- ☐ i. An Activity and Use Limitation has been implemented.
- ☐ ii. An Activity and Use Limitation has not been implemented.
- ☒ 3. Temporary Solution.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

F. CONTACT INFORMATION RELATING TO THE PARTY PROVIDING THIS NOTICE:

1. Name of Organization: Arcadis U. S., Inc.
2. Contact First Name: Allen 3. Last Name: Walker
4. Street: 30 Braintree Hill Office Park 5. Title: Licensed Site Professional (LSP)
6. City/Town: Braintree 7. State: MA 8. ZIP Code: 02184-0000
9. Telephone: (781) 267-7454 10. Email: _____

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1406. The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party(ies) who is/are addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form.

PURPOSE OF THIS NOTICE

Parties who are taking actions to respond to releases of oil or hazardous material to the environment are required by state regulations (referred to above) to notify the owners of property where the oil or hazardous material is or is likely to be present. These same parties are also required to notify property owners upon completion of actions to address the oil or hazardous material, or if additional investigations show that the oil or hazardous material is not present at a property. **Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time.

INFORMATION RELATED TO YOUR PROPERTY

Section D on the reverse side of this form indicates the type(s) of oil or hazardous material that is or is likely to be present at your property, and the environmental medium (e.g., soil or groundwater) where it is or is likely to be present. **Please note** that when an investigation indicates that the oil or hazardous material is or is likely to be present at your property, this does not mean that the oil or hazardous material is posing a health risk to you. Parties who are taking actions to address oil and hazardous material releases are required by state regulations to adequately investigate these releases and take necessary actions to ensure that affected properties meet standards that are protective of human health and the environment.

ATTACHED MAP OR DESCRIPTION AND REPORT CONCLUSIONS

The party providing this notice to you is required to attach a map or description that indicates the boundaries of the area where the oil or hazardous material is or is likely to be present, and the conclusions of the site investigation or closure report (**Section E**). These attachments should give you additional information about the nature and location of the oil or hazardous material with respect to your property.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>.

For more information regarding this notice, you may contact the party listed in **Section F** of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection.

See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

A. DISPOSAL SITE ADDRESS: (associated with Release Tracking Number provided above)

1. Street Address: US 1 Traffic Circle/
2. City/Town: Newbury/Newburyport 3. ZIP Code: 01950-0000
4. Assessor's Parcel ID: R-47-38 and R-47-39

B. THIS NOTICE IS BEING PROVIDED TO THE FOLLOWING PROPERTY OWNER:

1. Name of Property Owner: Irving B A JR + GRAF D A TR Viking Realty Trust
2. Address of Property For Which This Notice is Being Provided: (property owned by person named in B1)
- a. Street Address: 38 Rolfes LN
- b. City/Town: Newbury c. ZIP Code: 01951-0000
3. Assessor's Parcel ID: R-47-40

C. THIS NOTICE IS BEING GIVEN : (check one)

- ☐ 1. Upon Completion of a Phase II Comprehensive Site Assessment.
- ☒ 2. Upon Submittal of a Permanent or Temporary Solution Statement (i.e., Site Closure Report).
- ☐ 3. Upon Completion of Additional Investigation showing that Oil or Hazardous Material is not Present at the Property.

D. DESCRIPTION OF OIL AND/OR HAZARDOUS MATERIAL PRESENT OR LIKELY TO BE PRESENT AT THE PROPERTY :
(check all that apply)

AFFECTED ENVIRONMENTAL MEDIA

PRINCIPAL CHEMICAL(S) PRESENT

- | | |
|--|---|
| <input checked="" type="checkbox"/> 1. Soil | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 2. Groundwater | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 3. Surface Water | <u>metals</u> |
| <input checked="" type="checkbox"/> 4. Sediment | <u>metals</u> |
| <input type="checkbox"/> 5. Indoor Air | <u></u> |
| <input type="checkbox"/> 6. Soil Gas | <u></u> |
| <input type="checkbox"/> 7. Other: <u>(specify)</u> | <u></u> |

E. ATTACHMENTS PROVIDED WITH THIS NOTICE, AS REQUIRED BY 310 CMR 40.1406:

- ☒ 1. A Copy of the Map Showing or a Description Describing the Area where the Oil and/or Hazardous Material is or is likely to be Present.
- ☒ 2. A Copy of the Phase II Comprehensive Site Assessment or Permanent or Temporary Solution Statement Conclusions.
- ☒ 3. Specify the category of Solution that applies to the Disposal Site.
- ☐ 1. Permanent Solution with No Conditions.
- ☐ 2. Permanent Solution with Conditions.
- ☐ i. An Activity and Use Limitation has been implemented.
- ☐ ii. An Activity and Use Limitation has not been implemented.
- ☒ 3. Temporary Solution.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

F. CONTACT INFORMATION RELATING TO THE PARTY PROVIDING THIS NOTICE:

1. Name of Organization: Arcadis U. S., Inc.
2. Contact First Name: Allen 3. Last Name: Walker
4. Street: 30 Braintree Hill Office Park 5. Title: Licensed Site Professional (LSP)
6. City/Town: Braintree 7. State: MA 8. ZIP Code: 02184-0000
9. Telephone: (781) 267-7454 10. Email: _____

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1406. The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party(ies) who is/are addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form.

PURPOSE OF THIS NOTICE

Parties who are taking actions to respond to releases of oil or hazardous material to the environment are required by state regulations (referred to above) to notify the owners of property where the oil or hazardous material is or is likely to be present. These same parties are also required to notify property owners upon completion of actions to address the oil or hazardous material, or if additional investigations show that the oil or hazardous material is not present at a property. **Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time.

INFORMATION RELATED TO YOUR PROPERTY

Section D on the reverse side of this form indicates the type(s) of oil or hazardous material that is or is likely to be present at your property, and the environmental medium (e.g., soil or groundwater) where it is or is likely to be present. **Please note** that when an investigation indicates that the oil or hazardous material is or is likely to be present at your property, this does not mean that the oil or hazardous material is posing a health risk to you. Parties who are taking actions to address oil and hazardous material releases are required by state regulations to adequately investigate these releases and take necessary actions to ensure that affected properties meet standards that are protective of human health and the environment.

ATTACHED MAP OR DESCRIPTION AND REPORT CONCLUSIONS

The party providing this notice to you is required to attach a map or description that indicates the boundaries of the area where the oil or hazardous material is or is likely to be present, and the conclusions of the site investigation or closure report (**Section E**). These attachments should give you additional information about the nature and location of the oil or hazardous material with respect to your property.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>.

For more information regarding this notice, you may contact the party listed in **Section F** of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection.

See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

A. DISPOSAL SITE ADDRESS: (associated with Release Tracking Number provided above)

1. Street Address: US 1 Traffic Circle/

2. City/Town: Newbury/Newburyport

3. ZIP Code: 01950-0000

4. Assessor's Parcel ID: R-47-38 and R-47-39

B. THIS NOTICE IS BEING PROVIDED TO THE FOLLOWING PROPERTY OWNER:

1. Name of Property Owner: Commonwealth of Massachusetts, Mass Bay Transit Authority

2. Address of Property For Which This Notice is Being Provided: (property owned by person named in B1)

a. Street Address: 10 Park Plaza

b. City/Town: Boston

c. ZIP Code: 02116-0000

3. Assessor's Parcel ID: R-47-41

C. THIS NOTICE IS BEING GIVEN : (check one)

- ☐ 1. Upon Completion of a Phase II Comprehensive Site Assessment.
- ☒ 2. Upon Submittal of a Permanent or Temporary Solution Statement (i.e., Site Closure Report).
- ☐ 3. Upon Completion of Additional Investigation showing that Oil or Hazardous Material is not Present at the Property.

D. DESCRIPTION OF OIL AND/OR HAZARDOUS MATERIAL PRESENT OR LIKELY TO BE PRESENT AT THE PROPERTY :
(check all that apply)

AFFECTED ENVIRONMENTAL MEDIA

PRINCIPAL CHEMICAL(S) PRESENT

- | | |
|--|---|
| <input checked="" type="checkbox"/> 1. Soil | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 2. Groundwater | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 3. Surface Water | <u>metals</u> |
| <input checked="" type="checkbox"/> 4. Sediment | <u>metals</u> |
| <input type="checkbox"/> 5. Indoor Air | <u></u> |
| <input type="checkbox"/> 6. Soil Gas | <u></u> |
| <input type="checkbox"/> 7. Other: <u>(specify)</u> | <u></u> |

E. ATTACHMENTS PROVIDED WITH THIS NOTICE, AS REQUIRED BY 310 CMR 40.1406:

- ☒ 1. A Copy of the Map Showing or a Description Describing the Area where the Oil and/or Hazardous Material is or is likely to be Present.
- ☒ 2. A Copy of the Phase II Comprehensive Site Assessment or Permanent or Temporary Solution Statement Conclusions.
- ☒ 3. Specify the category of Solution that applies to the Disposal Site.
- ☐ 1. Permanent Solution with No Conditions.
- ☐ 2. Permanent Solution with Conditions.
- ☐ i. An Activity and Use Limitation has been implemented.
- ☐ ii. An Activity and Use Limitation has not been implemented.
- ☒ 3. Temporary Solution.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

F. CONTACT INFORMATION RELATING TO THE PARTY PROVIDING THIS NOTICE:

1. Name of Organization: Arcadis U. S., Inc.
2. Contact First Name: Allen 3. Last Name: Walker
4. Street: 30 Braintree Hill Office Park 5. Title: Licensed Site Professional (LSP)
6. City/Town: Braintree 7. State: MA 8. ZIP Code: 02184-0000
9. Telephone: (781) 267-7454 10. Email: _____

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1406. The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party(ies) who is/are addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form.

PURPOSE OF THIS NOTICE

Parties who are taking actions to respond to releases of oil or hazardous material to the environment are required by state regulations (referred to above) to notify the owners of property where the oil or hazardous material is or is likely to be present. These same parties are also required to notify property owners upon completion of actions to address the oil or hazardous material, or if additional investigations show that the oil or hazardous material is not present at a property. **Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time.

INFORMATION RELATED TO YOUR PROPERTY

Section D on the reverse side of this form indicates the type(s) of oil or hazardous material that is or is likely to be present at your property, and the environmental medium (e.g., soil or groundwater) where it is or is likely to be present. **Please note** that when an investigation indicates that the oil or hazardous material is or is likely to be present at your property, this does not mean that the oil or hazardous material is posing a health risk to you. Parties who are taking actions to address oil and hazardous material releases are required by state regulations to adequately investigate these releases and take necessary actions to ensure that affected properties meet standards that are protective of human health and the environment.

ATTACHED MAP OR DESCRIPTION AND REPORT CONCLUSIONS

The party providing this notice to you is required to attach a map or description that indicates the boundaries of the area where the oil or hazardous material is or is likely to be present, and the conclusions of the site investigation or closure report (**Section E**). These attachments should give you additional information about the nature and location of the oil or hazardous material with respect to your property.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>.

For more information regarding this notice, you may contact the party listed in **Section F** of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection.

See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

A. DISPOSAL SITE ADDRESS: (associated with Release Tracking Number provided above)

1. Street Address: US 1 Traffic Circle/
2. City/Town: Newbury/Newburyport 3. ZIP Code: 01950-0000
4. Assessor's Parcel ID: R-47-38 and R-47-39

B. THIS NOTICE IS BEING PROVIDED TO THE FOLLOWING PROPERTY OWNER:

1. Name of Property Owner: JJ McCarthy LLC
2. Address of Property For Which This Notice is Being Provided: (property owned by person named in B1)
- a. Street Address: 55 Hampshire Road
- b. City/Town: Methuen c. ZIP Code: 01844-0000
3. Assessor's Parcel ID: R-47-46

C. THIS NOTICE IS BEING GIVEN : (check one)

- ☐ 1. Upon Completion of a Phase II Comprehensive Site Assessment.
- ☒ 2. Upon Submittal of a Permanent or Temporary Solution Statement (i.e., Site Closure Report).
- ☐ 3. Upon Completion of Additional Investigation showing that Oil or Hazardous Material is not Present at the Property.

D. DESCRIPTION OF OIL AND/OR HAZARDOUS MATERIAL PRESENT OR LIKELY TO BE PRESENT AT THE PROPERTY :
(check all that apply)

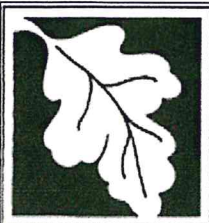
AFFECTED ENVIRONMENTAL MEDIA

PRINCIPAL CHEMICAL(S) PRESENT

- | | |
|--|---|
| <input checked="" type="checkbox"/> 1. Soil | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 2. Groundwater | <u>metals and volatile organic compounds (VOCs)</u> |
| <input checked="" type="checkbox"/> 3. Surface Water | <u>metals</u> |
| <input checked="" type="checkbox"/> 4. Sediment | <u>metals</u> |
| <input type="checkbox"/> 5. Indoor Air | <u></u> |
| <input type="checkbox"/> 6. Soil Gas | <u></u> |
| <input type="checkbox"/> 7. Other: <u>(specify)</u> | <u></u> |

E. ATTACHMENTS PROVIDED WITH THIS NOTICE, AS REQUIRED BY 310 CMR 40.1406:

- ☒ 1. A Copy of the Map Showing or a Description Describing the Area where the Oil and/or Hazardous Material is or is likely to be Present.
- ☒ 2. A Copy of the Phase II Comprehensive Site Assessment or Permanent or Temporary Solution Statement Conclusions.
- ☒ 3. Specify the category of Solution that applies to the Disposal Site.
- ☐ 1. Permanent Solution with No Conditions.
- ☐ 2. Permanent Solution with Conditions.
- ☐ i. An Activity and Use Limitation has been implemented.
- ☐ ii. An Activity and Use Limitation has not been implemented.
- ☒ 3. Temporary Solution.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC122

This notice is related to:
Release Tracking Number

INFORMATIONAL NOTICE TO PROPERTY OWNERS

3 - 392

As Required by 310 CMR 40.1406 of the Massachusetts Contingency Plan (MCP)

F. CONTACT INFORMATION RELATING TO THE PARTY PROVIDING THIS NOTICE:

- | | |
|---|--|
| 1. Name of Organization: <u>Arcadis U. S., Inc.</u> | |
| 2. Contact First Name: <u>Allen</u> | 3. Last Name: <u>Walker</u> |
| 4. Street: <u>30 Braintree Hill Office Park</u> | 5. Title: <u>Licensed Site Professional (LSP)</u> |
| 6. City/Town: <u>Braintree</u> | 7. State: <u>MA</u> 8. ZIP Code: <u>02184-0000</u> |
| 9. Telephone: <u>(781) 267-7454</u> | 10. Email: _____ |

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1406. The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party(ies) who is/are addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form.

PURPOSE OF THIS NOTICE

Parties who are taking actions to respond to releases of oil or hazardous material to the environment are required by state regulations (referred to above) to notify the owners of property where the oil or hazardous material is or is likely to be present. These same parties are also required to notify property owners upon completion of actions to address the oil or hazardous material, or if additional investigations show that the oil or hazardous material is not present at a property. **Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time.

INFORMATION RELATED TO YOUR PROPERTY

Section D on the reverse side of this form indicates the type(s) of oil or hazardous material that is or is likely to be present at your property, and the environmental medium (e.g., soil or groundwater) where it is or is likely to be present. **Please note** that when an investigation indicates that the oil or hazardous material is or is likely to be present at your property, this does not mean that the oil or hazardous material is posing a health risk to you. Parties who are taking actions to address oil and hazardous material releases are required by state regulations to adequately investigate these releases and take necessary actions to ensure that affected properties meet standards that are protective of human health and the environment.

ATTACHED MAP OR DESCRIPTION AND REPORT CONCLUSIONS

The party providing this notice to you is required to attach a map or description that indicates the boundaries of the area where the oil or hazardous material is or is likely to be present, and the conclusions of the site investigation or closure report (**Section E**). These attachments should give you additional information about the nature and location of the oil or hazardous material with respect to your property.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>.

For more information regarding this notice, you may contact the party listed in **Section F** of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection.

See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Temporary Solution Statement Conclusions

Former Circle Finishing, Inc.

Newbury/Newburyport

Release Tracking Number 3-392

A former metal plating facility discharged wastewater to an abutting wetland from approximately 1968 to 1975 and waste metal hydroxide sludge was placed on the ground. An industrial wastewater treatment system was installed in 1972 to perform cyanide destruction, hexavalent chromium reduction and acid/alkaline neutralization. A sewer connection was established in 1975 to the City of Newburyport Sewage System.

In 1993 a fire occurred at the former metal plating facility destroying the building. Fire-fighting water carried contaminants east to an abutting wetland. Response actions following the fire included containing, treating and disposing of collected water within the building foundation and remaining plating bath tanks. Surface soils in the flow path of the fire-fighting water were stockpiled and tested. Contaminated soils were removed and disposed.

Assessment activities following the fire identified metal impacts to the abutting wetland and metal, petroleum and volatile organic compounds (VOC) impacts to site soil and groundwater on site.

In 2002 the former building was removed except for contaminated building materials (mostly stained flooring). In 2004, contaminated building materials and three underground storage tanks (USTs) were removed from the Site. Soil and wetland sediment remedial actions were conducted in 2014 to remove contaminated soil from various upland source areas at the Site and sediment from the wetland area to the east. The wetland remediation was conducted for an approximate 0.5-acre area in the wetland east of the former building, where the former sewer pipe discharged and fire-fighting water flowed.

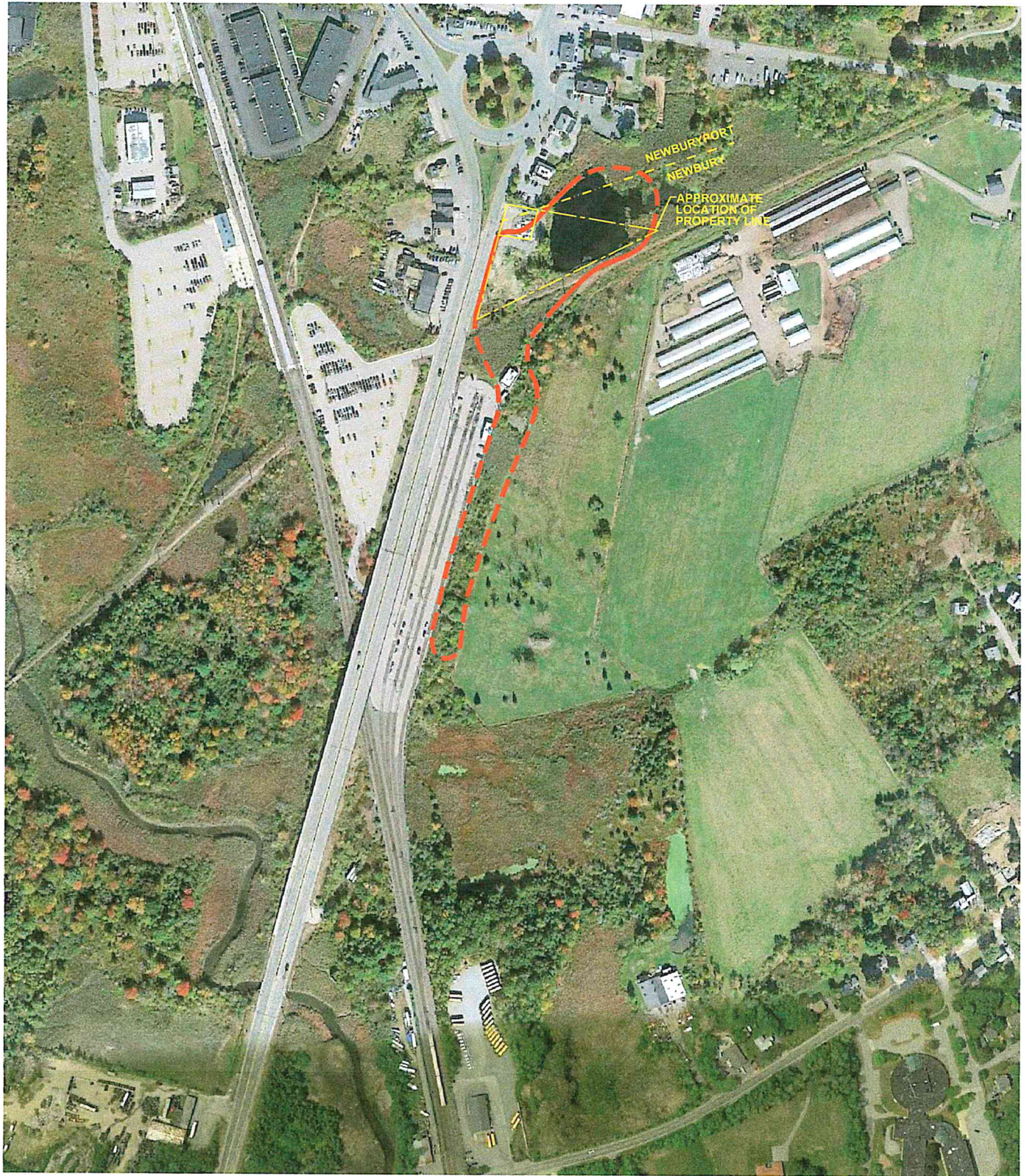
With substantial removal of contaminated soil and sediment from the Site, a Method 3 risk assessment has indicated that a condition of No Substantial Hazard exists. Operation, maintenance and monitoring will be conducted of the groundwater, surface water and sediment to monitor Site conditions until a Permanent Solution is achieved.

This Temporary Solution Statement provides updated information on the status of the Site conducted per the MCP 310 CMR 40.00. This report was transmitted electronically to the Massachusetts Department of Environmental Protection (MassDEP) via eDEP. The report is available at the MassDEP website:

<http://public.dep.state.ma.us/SearchableSites2/Search.aspx>

Use the address or Release Tracking Number (RTN) 3-392 to search for the site. Contact information is provided in the attached BWSC-122 form. Public involvement activities are available under 310 CMR 40.1400.

PROJECTNAME: BNO127030009-B04-3.dwg
 IMAGES: BNO127030009-B04-3.dwg
 GEPR: Aerial
 GEPR: Aerial

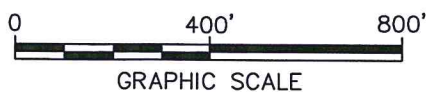


LEGEND

- DISPOSAL SITE BOUNDARY
- - - DISPOSAL SITE BOUNDARY - ESTIMATED

NOTES

1. AERIAL PHOTO SOURCED FROM GOOGLE EARTH PRO, IMAGERY DATE OCTOBER 9, 2014.
2. LOCATIONS OF PROPERTY LINES AND TOWN LINES ARE APPROXIMATE.



CIRCLE FINISHING INC.
 US ROUTE 1 / TRAFFIC CIRCLE
 NEWBURY, MASSACHUSETTS

ESTIMATED DISPOSAL SITE BOUNDARY

Arcadis U.S., Inc.

30 Braintree Hill

Suite 105

Braintree, Massachusetts 02184

Tel 781 356 7300

Fax 781 849 0189

www.arcadis.com

