PHASE I ENVIRONMENTAL **SITE ASSESSMENT**

Five Vacant Parcels 24 Westminster Avenue; 71 and 73 Holworthy Street, 29 and 31 Hollander Street Boston/Roxbury, MA 02119



July 2016

TRC Project No: 204940.0029.0000

Prepared For:

Department of Neighborhood Development 26 Court Street, 8th Floor

Boston, MA 02108

Nicole M. Hudson, Scientist II

TRC Environmental Professional

Prepared By:

TRC 650 Suffolk Street Lowell, MA 01854 (978) 970-5600

(978) 453-1995

Kevin Kitchin, PG

TRC Project Manager/Geologist



TABLE OF CONTENTS

| | | YE CANADA A DAY | Page No. |
|------------|------------|--|----------|
| EXE 1.0 | | VE SUMMARYRODUCTION | |
| 1.0 | | PURPOSE AND SCOPE OF SERVICES | |
| | 1.1 1.2 | ADDITIONAL SERVICES | |
| | 1.3 | DEVIATIONAL SERVICES DEVIATIONS TO ASTM E 1527-13 STANDARD | |
| 2.0 | | E DESCRIPTION | |
| | 2.1 | SITE LOCATION AND LEGAL DESCRIPTION | 5 |
| | 2.2 | SITE IMPROVEMENTS | |
| | 2.3 | CURRENT AND HISTORICAL SITE USE | |
| | | 2.3.1 Current Site Use(s) | |
| | | 2.3.2 Previous Owner and Operator Information | |
| | 2.4 | PHYSICAL SETTING | |
| 3.0 | USE | R PROVIDED INFORMATION | 8 |
| | 3.1 | TITLE & JUDICIAL RECORDS FOR ENVIRONMENTAL LIENS OR ACTIVITY | AND USE |
| | | LIMITATIONS | |
| | 3.2 | SPECIALIZED KNOWLEDGE | |
| | 3.3 | PROPERTY VALUE REDUCTION ISSUES | |
| | 3.4 | COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION | |
| | 3.5 | REASON FOR CONDUCTING PHASE I | 8 |
| 4.0 | REC | ORDS REVIEW | 9 |
| | 4.1 | HISTORICAL USE INFORMATION | |
| | | 4.1.1 Site History | |
| | | 4.1.2 Adjoining Property History | |
| | | 4.1.3 Surrounding Property History | |
| | 4.2 | DATABASE REPORT & ENVIRONMENTAL RECORD REVIEW | |
| | | 4.2.1 Adjoining & Surrounding Property Record Review | |
| | | 4.2.1.1 Adjoining Properties | |
| | 4.2 | 4.2.1.2 Surrounding Properties | |
| | 4.3 | PREVIOUS REPORTS | |
| | 4.4 | | |
| 5.0 | | E RECONNAISSANCE | |
| | 5.1 | METHODOLOGY AND LIMITING CONDITIONS | |
| | 5.2 | INTERIOR AND EXTERIOR SITE OBSERVATIONS | |
| | | 5.2.1 Hazardous Substances | |
| | 5.3 | ADJOINING AND SURROUNDING PROPERTIES RECONNAISSANCE | |
| | | 5.3.1 Adjoining Properties | |
| | | 5.3.2 Surrounding Properties | |
| 6.0 | | ERVIEWS | |
| 7.0 | FINI | DINGS, OPINIONS AND CONCLUSIONS | 21 |



L2016-229 i

| , | 7.1 REC | Cs and CRECs | 21 |
|----------|-------------|---|----|
| , | 7.2 HRE | ECs | 21 |
| , | 7.3 DE N | DE MINIMIS CONDITIONS | |
| , | | TA GAPS | |
| , | 7.5 Limi | ITING CONDITIONS AND DEVIATIONS | 22 |
| | 7.5.1 | 1 Accuracy and Completeness | 22 |
| | 7.5.2 | | |
| | 7.5.3 | 3 Continued Validity/User Reliance | 24 |
| | 7.5.4 | 4 Significant Assumptions | 24 |
| 8.0 | REFEREN | ICES | 25 |
| 9.0 | ADDITION | NAL SERVICES | 26 |
| Tables | | | |
| | 1 - Previou | s Owner and Operator Information | 6 |
| | | story | |
| | | ng Property History | |
| | | nding Property History | |
| | | Environmental Record Sources | |
| | | r and Exterior Site Observations | |
| | | ng Properties Reconnaissance | |
| | | nces Information | |
| Figures | S | | |
| Figure 1 | | Location Map | |
| Figure 2 | 2: Site | Layout Plan | |
| Figure 3 | 3: Mas | ssDEP Priority Resources Map | |
| Append | lices | | |
| Append | | abase Radius Report | |
| Append | lix B: User | r Questionnaire(s) | |
| Append | | corical Research Documentation | |
| Append | | tograph Log | |
| Append | | er reference information | |
| Append | | C Staff and Environmental Professional Qualifications/Resumes | |
| Append | lix G: Envi | ironmental ProfeSsional Statement | |



L2016-229 ii

EXECUTIVE SUMMARY

Subject to the qualifications and limitations stated in Section 1 of this report, TRC Environmental Corporation (TRC) was retained the City of Boston Department of Neighborhood Development (DND; also known as "Client" or "User") to perform a Phase I Environmental Site Assessment (ESA) of the five parcels located in Boston/Roxbury, Suffolk County, Massachusetts (herein referred to as the "Site No. 1 through Site No. 5"). TRC's assessment was conducted in connection with the Client's planned potential sale of the Sites. The Phase I ESA described in this report was performed in accordance with the scope and limitations of the American Society of Testing and Materials Practice E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-13). Limiting conditions and/or deviations from the ASTM E 1527-13 standard are described in Sections 1.3 and 7.5 of this report.

The subject Sites consist of five separate parcels identified as the 24 Westminster Avenue (Site No. 1), 71 Holworthy Street (Site No. 2), 73 Holworthy Street (Site No. 3), 31 Hollander Street (Site No. 4) and 29 Hollander Street (Site No. 5). Details regarding the Sites are as follows:

- <u>Site No. 1</u> an approximately 0.23-acre parcel located at 24 Westminster Avenue in Boston/Roxbury, Suffolk County, Massachusetts, in a mixed commercial/residential area and is described by the Boston tax assessor as parcel 1101703000 and owned by City of Boston by foreclosure;
- <u>Site No. 2</u> an approximately 0.08-acre parcel located at 71 Holworthy Street in Boston/Roxbury, Suffolk County, Massachusetts, in a mixed commercial/residential area and is described by the Boston tax assessor as parcel 1203334000 and owned by Boston Redevelopment Authority;
- <u>Site No. 3</u> an approximately 0.08-acre parcel located at 73 Holworthy Street in Boston/Roxbury, Suffolk County, Massachusetts, in a mixed commercial/residential area and is described by the Boston tax assessor as parcel 1203335000 and owned by Boston Redevelopment Authority;
- <u>Site No. 4</u> an approximately 0.08-acre parcel located at 31 Hollander Street in Boston/Roxbury, Suffolk County, Massachusetts, in a mixed commercial/residential area and is described by the Boston tax assessor as parcel 1203320000 and owned by Boston Redevelopment Authority; and
- <u>Site No. 5</u> an approximately 0.08-acre parcel located at 29 Hollander Street in Boston/Roxbury, Suffolk County, Massachusetts, in a mixed commercial/residential area and is described by the Boston tax assessor as parcel 1203319000 and owned by Boston Redevelopment Authority.

A Site location map is included as **Figure 1**. There are currently no structures or buildings on the Sites.



L2016-229

As a result of the Phase I ESA, including but not limited to our visual observation of the Site; review of historical information, environmental databases, and information provided by the User; interviews with current Site representative(s); and TRC's professional judgment, no evidence of *recognized environmental conditions* (RECs) or *controlled recognized environmental conditions* (CRECs) associated with the Site, as defined by the ASTM E 1527-13 standard were identified.

This Executive Summary is part of this complete report; any findings, opinions or conclusions in this Executive Summary are made in context with the complete report. TRC recommends that the User read the entire report for all supporting information related to findings, opinions and conclusions.

Legal Notice

This document was prepared by TRC solely for the benefit of the User. With regard to third-party recipients of this document, neither TRC, nor the Client, nor the User, nor any of their respective parents, affiliates or subsidiaries, nor any person acting on their behalf: (a) makes any warranty, expressed or implied, with respect to the use of any information or methods disclosed in this document; or (b) assumes any liability with respect to the use of any information or methods disclosed in this document. Any third-party recipient of this document, by its acceptance or use of this document, releases TRC, the Client, the User, and their parents, affiliates and subsidiaries, from any liability for direct, indirect, economic, incidental, consequential or special loss or damage whether arising in contract, warranty, express or implied, tort, or otherwise, and irrespective of fault, negligence, and strict liability.



L2016-229

1.0 INTRODUCTION

TRC Environmental Corporation (TRC) has prepared this Phase I Environmental Site Assessment (ESA) for City of Boston Department of Neighborhood Development (DND hereinafter "Client" or "User").

This report was prepared for and may be relied upon by Client for the purposes set forth herein; it may not be relied on by any party other than the Client and reliance may not be assigned without the express approval of TRC. Authorization for third party reliance on this report will be considered by TRC if requested by the Client. TRC reserves the right to deny reliance on this report by third parties.

1.1 Purpose and Scope of Services

The following Phase I ESA was performed for the seven properties located at 24 Westminster Avenue, 71 Holworthy Street, 73 Holworthy Street, 31 Hollander Street and 29 Hollander Street, in Boston/Roxbury, Suffolk County, Massachusetts (herein referred to as the "Site No. 1 through Site No. 5"). A Site location map is included as **Figure 1**. This Phase I ESA has been prepared by TRC in accordance with the American Society for Testing and Materials E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13) and is intended for the sole use of City of Boston DND (*Notice to Proceed email dated July 5*, 2016).

The purpose of this assessment is to identify *Recognized Environmental Conditions* (RECs) at the Site, as defined by the ASTM E 1527-13 standard. The completion of this Phase I ESA report may be used to satisfy one of the requirements for the User to qualify for the *innocent landowner*, *contiguous property owner*, or *bona fide prospective purchaser* limitations pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), thereby constituting *all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial or customary practice* as defined by 42 U.S.C. §9601(35)(B) of CERCLA.

TRC understands that this assessment is not funded with a federal grant awarded under the United States Environmental Protection Agency (U.S. EPA) Brownfields Assessment and Characterization program.

The Scope of Services for this Phase I ESA included the following tasks:

- Site and vicinity reconnaissance;
- Site and vicinity description and physical setting;
- Historical source review and description of historical Site conditions;
- Interviews with owners, operators, and/or occupants of the Site, and/or local officials;
- Review of environmental databases and regulatory agency records;
- Review of previous environmental reports/documentation, as applicable;
- Review of environmental liens, if provided or authorized to obtain by the User; and

©TRC

• Preparation of a report summarizing findings, opinions and conclusions.

Pursuant to the ASTM E 1527-13 standard, recommendations to conduct Phase II sampling or other assessment activities are not required to be included in this report. TRC can provide such recommendations upon request.

1.2 Additional Services

Items outside the scope of the ASTM E 1527-13 standard include, but are not limited to, the following:

- Asbestos-containing building materials
- Radon
- Lead-based paint
- Lead in drinking water
- Wetlands
- Regulatory compliance
- Cultural and historic resources
- Industrial hygiene

- Health and safety
- Ecological resources
- Endangered species
- Indoor air quality unrelated to *releases* of *hazardous substances* or *petroleum products* into the environment
- Biological agents
- Mold

No additional services were performed outside the scope of the ASTM E 1527-13 standard.

1.3 Deviations to ASTM E 1527-13 Standard

Notwithstanding additions to the ASTM E 1527-13 standard, as listed in Sections 1.2 and 9, if applicable, no significant deviations or deletions to the ASTM standard were made during this Phase I ESA



2.0 SITE DESCRIPTION

2.1 Site Location and Legal Description

The subject Sites consist of five separate parcels identified as the 24 Westminster Avenue (Site No. 1), 71 Holworthy Street (Site No. 2), 73 Holworthy Street (Site No. 3), 31 Hollander Street (Site No. 4) and 29 Hollander Street (Site No. 5). Details regarding the Sites are as follows:

- <u>Site No. 1</u> an approximately 0.23-acre parcel located at 24 Westminster Avenue in Boston/Roxbury, Suffolk County, Massachusetts, in a mixed commercial/residential area and is described by the Boston tax assessor as parcel 1101703000 and owned by City of Boston by foreclosure (FCL);
- <u>Site No. 2</u> an approximately 0.08-acre parcel located at 71 Holworthy Street in Boston/Roxbury, Suffolk County, Massachusetts, in a mixed commercial/residential area and is described by the Boston tax assessor as parcel 1203334000 and owned by Boston Redevelopment Authority;
- <u>Site No. 3</u> an approximately 0.08-acre parcel located at 73 Holworthy Street in Boston/Roxbury, Suffolk County, Massachusetts, in a mixed commercial/residential area and is described by the Boston tax assessor as parcel 1203335000 and owned by Boston Redevelopment Authority;
- <u>Site No. 4</u> an approximately 0.08-acre parcel located at 31 Hollander Street in Boston/Roxbury, Suffolk County, Massachusetts, in a mixed commercial/residential area and is described by the Boston tax assessor as parcel 1203320000 and owned by Boston Redevelopment Authority; and
- <u>Site No. 5</u> an approximately 0.08-acre parcel located at 29 Hollander Street in Boston/Roxbury, Suffolk County, Massachusetts, in a mixed commercial/residential area and is described by the Boston tax assessor as parcel 1203319000 and owned by Boston Redevelopment Authority.

A Site location map is included as **Figure 1**. There are currently no structures or buildings on the Sites.

2.2 Site Improvements

There are currently no structures or buildings on the Sites.

2.3 Current and Historical Site Use

2.3.1 Current Site Use(s)

The Sites are currently owned by the City of Boston or Boston Redevelopment Authority as vacant lots.



2.3.2 Previous Owner and Operator Information

Based on information provided by the User (Section 3), the historical record review (Section 4), and/or interviews conducted during this Phase I (Section 6), historical Site ownership and operator information is provided in the tables below.

Table 2.1 - Previous Owner and Operator Information

| Site Owner – Site No. 1 – 24 Westminster | From | To |
|--|---------|---------|
| Louis Bell | Unknown | 1989 |
| City of Boston by Foreclosure | 1989 | Present |

| Site Operator | Description | From | To |
|-------------------------------|------------------|---------|---------|
| Tenants Unknown | 2-Story dwelling | c. 1897 | c. 1964 |
| City of Boston by Foreclosure | Vacant land | Unknown | Present |

| Site Owner – Site No. 2 – 71 Holworthy | From | To |
|--|---------|---------|
| Boston Redevelopment Authority | Unknown | Present |

| Site Operator | Description | From | To |
|--------------------------------|------------------|---------|---------|
| Tenants Unknown | 3-Story dwelling | c.1919 | c. 1964 |
| Boston Redevelopment Authority | Vacant land | Unknown | Present |

| Site Owner – Site No. 3 – 73 Holworthy | From | To |
|--|---------|---------|
| Boston Redevelopment Authority | Unknown | Present |

| Site Operator | Description | From | To |
|--------------------------------|------------------|---------|---------|
| Tenants Unknown | 3-Story dwelling | c.1919 | c. 1964 |
| Boston Redevelopment Authority | Vacant land | Unknown | Present |

| Site Owner – Site No. 4 – 31 Hollander | From | To |
|--|---------|---------|
| Melford Mesquitts | Unknown | 1974 |
| Boston Redevelopment Authority | 1974 | Present |

| Site Operator | Description | From | To |
|--------------------------------|-------------------------|---------|---------|
| Tenants Unknown | 3-Story dwelling | c.1919 | c. 1964 |
| Melford Mesquitts | 3-Story dwelling/vacant | Unknown | 1974 |
| | land | | |
| Boston Redevelopment Authority | Vacant land | 1974 | Present |

| Site Owner – Site No. 5 – 29 Hollander | From | To |
|--|---------|---------|
| James and Louise Carter | Unknown | 1974 |
| Boston Redevelopment Authority | 1974 | Present |

L2016-229



| Site Operator | Description | From | To |
|--------------------------------|-------------------------|---------|---------|
| Tenants Unknown | 3-Story dwelling | c.1919 | c. 1964 |
| James and Louise Carter | 3-Story dwelling/vacant | Unknown | 1974 |
| | land | | |
| Boston Redevelopment Authority | Vacant land | 1974 | Present |

2.4 Physical Setting

According to the United States Geological Survey (USGS) topographic map, Boston South, MA quadrangle dated 2012 (**Figure 1**), the Sites are located approximately 1.2 miles east from Jamaica Pond, the Sites topographic elevation are varies from approximately 100 to 118 feet above mean sea level (MSL), and local topography at the Sites are generally flat. The topographic slopes observed at the Sites during the Site reconnaissance is generally flat. The Sites are located west of Old Boston Harbor which is possibly contributing to a localized radial groundwater flow pattern. Based on local topography and historical environmental reports reviewed by TRC, as applicable, the assumed direction of shallow groundwater flow is to the northwest, towards Jamaica Pond. However, a subsurface investigation would be required to determine actual ground water flow direction.

The database radius report supplied by Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut was reviewed to obtain information regarding the dominant soil composition in the Site vicinity. This information is summarized below:

Sites No. 1 through 5

Hydric Status: Unknown

Soil Surface Texture: Fine sandy loam

Soil Component Name: Charlton

Deeper Soil Types: Fine sandy loam

Please refer to the Geocheck Physical Setting Source Summary of the EDR report presented in **Appendix A** for further information regarding the soil composition in the Site vicinity. According to EDR and Priority Resource Map (**Figure 3**), the Sites are not located in a Federal Emergency Management Agency (FEMA) flood zone.



L2016-229

3.0 USER PROVIDED INFORMATION

According to the ASTM E 1527-13 standard, certain tasks that may help identify the presence of RECs associated with the Site are generally conducted by the Phase I ESA User. These tasks include: providing, or authorizing the *environmental professional* to obtain, recorded land title records for environmental liens or activity and land use limitations (AULs); providing specialized knowledge related to RECs at the Site (e.g., information about previous ownership or environmental litigation); providing commonly known or *reasonably ascertainable* information within the local community about the *property* that is material to RECs in connection with the *property*; and informing the *environmental professional* if, as believed by the User, the purchase price of the *property* is lower than the fair market value due to contamination. A list of requested information was included in TRC's ASTM Phase I Environmental Site Assessment Proposal (see Section 1.1). Information provided by the User pursuant to that request is listed in Section 8.0. A copy of the User questionnaire is included in **Appendix B**.

3.1 Title & Judicial Records for Environmental Liens or Activity and Use Limitations

In addition to reviewing the EDR report (discussed in Section 4.2), local municipal records (Section 4.4), and the Massachusetts Land Records on-line database (Section 4.4), TRC obtained supplemental information regarding AUL-listed properties within the City of Boston from the MassDEP. No evidence of AULs associated with the Sites was identified.

3.2 Specialized Knowledge

The User was not aware of specialized knowledge related to RECs at the Site.

3.3 Property Value Reduction Issues

The User was not aware of property valuation reduction issues regarding the Site.

3.4 Commonly Known or Reasonably Ascertainable Information

No commonly known or reasonably ascertainable information was provided to TRC by the User.

3.5 Reason for Conducting Phase I

It is TRC's understanding that the User requires a Phase I for potential sale of the Sites.



4.0 RECORDS REVIEW

4.1 Historical Use Information

Information regarding Site and vicinity historical uses was obtained from various publicly available and practically reviewable sources including:

- Aerial photographs (scale: 1" = 500') dated 1938, 1952, 1955, 1960, 1969, 1970, 1978, 1980, 1985, 1995, 1996, 2008, 2010, and 2012;
- Sanborn fire insurance maps dated 1897, 1919, 1950, 1964, 1988, 1990, 1992, 1993, 1994, 1995, 1998 and 2002;
- Topographic maps dated 1944, 1946, 1949, 1954, 1956, 1970, 1979, 1987 and 2012;
- Local municipal records;
- An environmental database report; and
- Interview with Mr. James Smith (City of Boston DND).

4.1.1 Site History

Operational History

Table 4.1 - Site History

| Year | Site History – Site No. 1 – 24 Westminster |
|-------------------|---|
| c. 1897 – c. 1964 | The Site property appears to have a 2-story dwelling with a small shed on Site appearing until c. 1964. |
| c. 1964 – Present | The dwelling was removed and the Site is vacant land. |

| Year | Site History – Site No. 2 – 71 Holworthy |
|-------------------|---|
| c. 1919– c. 1964 | The Site property appears to consist of a 3-story dwelling on Site. |
| c. 1964 – Present | The building was removed and the Site is vacant land. |

| Year | Site History – Site No. 3 – 73 Holworthy |
|-------------------|---|
| c. 1919– c. 1964 | The Site property appears to consist of a 3-story dwelling on Site. |
| c. 1964 – Present | The building was removed and the Site is vacant land. |

| Year | Site History – Site No. 4 – 31 Hollander |
|------------------|---|
| c. 1919– c. 1964 | The Site property appears to consist of a 3-story dwelling on Site. |





| c. 1964 – Present | The building was removed and the Site is vacant land. |
|-------------------|---|
|-------------------|---|

| Year | Site History – Site No. 5 – 29 Hollander |
|-------------------|---|
| c. 1919– c. 1964 | The Site property appears to consist of a 3-story dwelling on Site. |
| c. 1964 – Present | The building was removed and the Site is vacant land. |

It does not appear that topographic contours in the Site area have significantly changed during the time period reviewed.

Hazardous Substances

No hazardous substances including raw materials; finished products and formulations; hazardous wastes; hazardous constituents and pollutants including intermediates and byproducts appear to be historically present at the Sites or identified during site reconnaissance.

4.1.2 Adjoining Property History

Table 4.2 - Adjoining Property History

| Direction | Adjoining Property History – Site No. 1 – 24 Westminster |
|-----------|--|
| North | Since 1897 until c. 1919 there was a 2-story dwelling; between c. 1919 until c. 1964 there was a small single story building. Since c. 1964 the property had been cleared and identified as parking until the present. |
| East | Since 1897 until c. 1969 there was a 2-story dwelling; between c. 1969 until the present there is a large apartment complex. |
| South | Westminster Avenue has been present since the late 1800s; beyond has been vacant land until c.2008 when a 2-story duplex was constructed and is currently present. |
| West | Since 1897 until present there has been a 2-story dwelling. |

| Direction | Adjoining Property History – Site No. 2 – 71 Holworthy |
|-----------|---|
| North | Since 1919 until present there has been a 2-story dwelling with a garage. |
| East | Since 1919 until present there has been a 3-story dwelling. |
| South | Holworthy Street has been present since the late 1800s; beyond was a 3-story dwelling present between c.1919 until c. 1988. Since c. 1988 the property has been a vacant lot. |
| West | Site No. 3 as described in Table 4.1. |
| Direction | Adjoining Property History – Site No. 3 – 73 Holworthy |
| North | Since 1919 until present there has been a 2-story dwelling with a garage. |





Table 4.2 - Adjoining Property History

| East | Site No. 2 as described in Table 4.1. |
|-------|---|
| South | Holworthy Street has been present since the late 1800s; beyond was a 3-story dwelling present between c.1919 until c. 1988. Since c. 1988 the property has been a vacant lot. |
| West | Since 1919 until c.1988 there was a 3-story dwelling; from c. 1988 until the present the land is vacant and used as a driveway. |

| Direction | Adjoining Property History – Site No. 4 – 31 Hollander |
|-----------|--|
| North | Since 1897 until c. 1950 the land was vacant; since c. 1950 until the present there is a large apartment complex. |
| East | Since 1919 until c.1978 there was a 3-story dwelling. Between c. 1978 until c. 1990 the land is vacant. Since c.1990 until present there is 2-story duplex dwellings. |
| South | Hollander Street has been present since the late 1800s; beyond is a 3-story duplex dwelling from c. 1919 until c. 1969. Between c. 1969 until c. 1988 the land is vacant. Since c.1988 until present there is 3-story dwellings. |
| West | Site No. 5 as described in Table 4.1. |

| Direction | Adjoining Property History – Site No. 5 – 29 Hollander |
|-----------|--|
| North | Since 1897 until c. 1950 the land was vacant; since c. 1950 until the present there is a large apartment complex. |
| East | Site No. 4 as described in Table 4.1. |
| South | Hollander Street has been present since the late 1800s; beyond is a 3-story duplex dwelling from c. 1919 until c. 1969. Between c. 1969 until c. 1988 the land is vacant. Since c.1988 until present there is 3-story dwellings. |
| West | Since 1919 until present there has been a 3-story dwelling. |

4.1.3 Surrounding Property History

Table 4.3 - Surrounding Property History

| Year | Surrounding Property History |
|----------------|---|
| 1897 – Present | Surrounding properties generally appear as multi-family residential with few properties becoming vacant during various years. |

4.2 Database Report & Environmental Record Review

A database search report that identifies properties listed on state and federal databases within the ASTM-required radii of the Site was obtained from EDR and is included in **Appendix A**.



The environmental database report identified 254 properties/listings.

The Site(s) and/or the adjoining properties were listed in the database search report. The number of properties listed included those that could be mapped and those that could not (i.e., orphan properties).

4.2.1 Adjoining & Surrounding Property Record Review

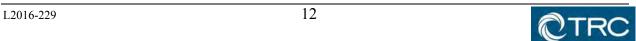
TRC evaluated the following factors to determine whether additional environmental records should be reviewed with respect to the potential for contaminant migration from the adjoining and surrounding properties:

- (1) Whether the property is up-gradient or down-gradient of the Site vis-à-vis **ground water migration** based on the local topography, and the assumed ground water depth and northwest shallow ground water flow direction;
- (2) Whether the property is up-gradient or down-gradient of the Site vis-à-vis vapor migration based on readily available information pursuant to the ASTM E 1527-13 standard including soil and geological characteristics; contaminant characteristics; contaminated plume migration data; and significant conduits that might provide preferential pathways for vapor migration such as major utility corridors, sanitary sewers, storm sewers, and significant natural conduits such as Karst terrain (vapor migration may also be influenced by the age and design of infrastructure features associated with these conduits);
- (3) Property case status (i.e., Massachusetts Department of Environmental Protection [MassDEP] has issued a No Further Action letter or Response Action Outcome [RAO] Statement [or current equivalent] has been submitted);
- (4) Type of database and whether the presence of contamination is known; and
- (5) The distance between the listed property and the Site. As allowed by ASTM E1527-13, TRC adjusted ASTM-specified approximate minimum search distances for governmental records due to the Site's densely-developed urban setting. Database listings were reviewed for properties located within a 1/8-mile radius of the Site.

Based on this evaluation, TRC limited the review of additional environmental records to the properties listed below, since the potential for contamination to be migrating to the Site from the other properties identified by the database search is considered low.

4.2.1.1 Adjoining Properties

Adjoining property information included in the database search report is summarized in the following table(s):



| Facility Name(s) and/or Listed Address(es) | Residence – 69 Holworthy Street, Dorchester, MA 02121 (Adjoins Site No. 2) |
|---|--|
| EDR Map No(s). | 1 |
| Database(s) | LAST and RELEASE |
| Description/ID No(s) | RTN 3-28244 |
| Database Review Summary | According to the EDR report and MassDEP files, approximately 50 gallons of No. 2 fuel oil was released from an aboveground storage tank (AST) and was reported to MassDEP on December 29, 2008 at which time RTN 3-28244 was assigned. Remedial actions included removal of oil, soil excavation, offsite disposal, sampling, and indoor air assessment. A Class A-2 RAO was submitted for the release on January 4, 2010, indicating that a permanent solution has been achieved. Contamination has not been reduced to background. Based on the regulatory status, the release associated with RTN 3-28244 is not expected to impact subsurface conditions at the Site No. 2. |

4.2.1.2 <u>Surrounding Properties</u>

Surrounding property information included in the database search report is summarized in the following table(s):

| Facility Name(s) and/or Address(es) | Cass House – 140 Humboldt Ave, Roxbury, MA 02121 | | |
|--|--|--|--|
| Approximate Location Relative to Site | 931 feet south east to Site Nos. 2 and 3 and 480 feet west to Site Nos.4 and 5. | | |
| EDR Map No(s). | 8 | | |
| Database(s) | SHWS, RELEASE, LEAD | | |
| Description/ID No(s). | 3-0033495 | | |
| Presumed Hydrogeologic Setting | Up/Cross-gradient (Site Nos. 2-5) | | |
| Database Review Summary | According to the EDR report, pyrene and lead in groundwater and volatile petroleum hydrocarbon (VPH) in soil were detected at concentrations above reporting limits and was reported to MassDEP on March 28 2015, at which time RTN 3-0033495 was assigned. This release is unclassified and has 120 days to submit a release abatement measure (RAM) plan or response action outcome (RAO). According to MassDEP online file review, TRC is not aware if remedial activities have begun to date. Based on the presumed groundwater flow, the release associated with RTN 3-33495 is not expected to adversely impact the subsurface conditions at Site Nos. 2 through 5. | | |



4.3 Previous Reports

The following environmental reports regarding the Site were reviewed by TRC:

- December 31, 2009, Response Action Outcome Statement No. 2 Oil Release 69
 Holworthy Street, Dorchester, MA RTN 3-28244, Prepared by Clean Harbors
 Environmental Services, Inc.; and
- March 28, 2016, *MassDEP Release Notification Form BWSC103-120 Day*, Prepared by PNC Real Estate.

Information provided in these reports is summarized throughout this report.

4.4 Other Environmental Record Sources

Per the ASTM standard, local or additional state records were reviewed to enhance and supplement the ASTM-required federal and state records reviewed and discussed earlier in this report. These additional records include state agency lists of: waste disposal facilities; brownfield properties; hazardous waste/contaminated facilities; registered storage tanks; records of emergency release reports; and records of contaminated public wells. Local sources that were contacted to obtain this information include: Department of Health; Fire Department; Building Permit/Inspection Department; and land records (for AULs). Information from these sources is discussed below:

Table 4.4 - Other Environmental Record Sources

| STATE REGULATORY AGENCY LISTIES/ DEPARTMENTS | Available Information – Site No. 1 – 24 Westminster |
|---|---|
| Department of Health/ Environmental Division | TRC contacted the City of Boston Health Department. No environmentally pertinent information was identified. |
| Fire Department | TRC contacted the City of Boston Fire Department. No environmentally pertinent information was identified. |
| Building Permit/Inspection/ Construction/Engineering Department | TRC accessed the City of Boston Building Department online database. No environmentally pertinent information was identified. |
| Land Records | TRC searched the Suffolk County Registry of Deeds online data base and no deeds were identified, however taking documents were. |
| State Agency List(s) | TRC reviewed the online MassDEP UST Query Tool on July 7, 2016. No records for USTs were identified. |

| STATE REGULATORY AGENCY LISTIES/ DEPARTMENTS | Available Information – Site No. 2 – 71 Holworthy |
|---|--|
| Department of Health/ Environmental Division | TRC contacted the City of Boston Health Department. No environmentally pertinent information was identified. |
| Fire Department | TRC contacted the City of Boston Fire Department. No environmentally pertinent information was identified. |





| Building Permit/Inspection/ Construction/Engineering Department | TRC accessed the City of Boston Building Department online database. No environmentally pertinent information was identified. |
|---|---|
| Land Records | TRC searched the Suffolk County Registry of Deeds online data base and no deeds were identified. |
| State Agency List(s) | TRC reviewed the online MassDEP UST Query Tool on July 7, 2016. No records for USTs were identified. |

| STATE REGULATORY AGENCY LISTIES/ DEPARTMENTS | Available Information – Site No. 3 – 73 Holworthy |
|---|---|
| Department of Health/ Environmental Division | TRC contacted the City of Boston Health Department. No environmentally pertinent information was identified. |
| Fire Department | TRC contacted the City of Boston Fire Department. No environmentally pertinent information was identified. |
| Building Permit/Inspection/ Construction/Engineering Department | TRC accessed the City of Boston Building Department online database. No environmentally pertinent information was identified. |
| Land Records | TRC searched the Suffolk County Registry of Deeds online data base and no deeds were identified. |
| State Agency List(s) | TRC reviewed the online MassDEP UST Query Tool on March 9, 2016. No records for USTs were identified. |

| STATE REGULATORY AGENCY LISTIES/ DEPARTMENTS | Available Information – Site No. 4 – 31 Hollander | | |
|---|--|--|--|
| Department of Health/ Environmental Division | TRC contacted the City of Boston Health Department. No environmentally pertinent information was identified. | | |
| Fire Department | TRC contacted the City of Boston Fire Department. No environmentally pertinent information was identified. | | |
| Building Permit/Inspection/ Construction/Engineering Department | TRC accessed the City of Boston Building Department online database. No environmentally pertinent information was identified. | | |
| Land Records | TRC searched the Suffolk County Registry of Deeds online data base and no deeds were identified, however taking documents were identified. | | |
| State Agency List(s) | TRC reviewed the online MassDEP UST Query Tool on March 9, 2016. No records for USTs were identified. | | |

| STATE REGULATORY AGENCY LISTIES/ DEPARTMENTS | Available Information – Site No. 5 – 29 Hollander |
|---|---|
| Department of Health/ Environmental Division | TRC contacted the City of Boston Health Department. No environmentally pertinent information was identified. |
| Fire Department | TRC contacted the City of Boston Fire Department. No environmentally pertinent information was identified. |
| Building Permit/Inspection/ Construction/Engineering Department | TRC accessed the City of Boston Building Department online database. No environmentally pertinent information was identified. |





| Land Records | TRC searched the Suffolk County Registry of Deeds online data base and no deeds were identified, however taking documents were identified. |
|----------------------|--|
| State Agency List(s) | TRC reviewed the online MassDEP UST Query Tool on July 7, 2016. No records for USTs were identified. |



5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Mrs. Nicole Hudson, TRC Geologist II, and Mr. Max Scott, TRC Environmental Scientist conducted a Site reconnaissance of accessible areas on and around the Site on July 6, 2016 for the purpose of identifying potential RECs. TRC was not accompanied by the City of Boston as Site access was not restricted. Photographs taken during the reconnaissance are provided in **Appendix D**. A Site layout plan is included as **Figure 2**.

5.2 Interior and Exterior Site Observations

Unless otherwise noted, the items listed in the table below appeared in good condition with no visual evidence of staining, deterioration or a discharge of hazardous materials; and there are no records of a release in these areas. Items where further description is warranted are discussed in the section(s) following the table.

Table 5.1 – Interior and Exterior Site Observations

| Item | Present (Current/ Historic/ No) | Description– Site Nos. 1 through 5 |
|--|--|--|
| Underground storage tanks (USTs) and associated piping | No | Not Applicable |
| Drums & containers (≥5 gallons) | No | Not Applicable |
| Odors | No | Not Applicable |
| Pools of liquid, including surface water bodies and sumps (handling hazardous substances or substances likely to be hazardous only) | No | Not Applicable |
| Polychlorinated Biphenyls (PCBs) / Transformers | No | Not Applicable |
| Stains or corrosion | No | Not Applicable |
| Drains & sumps | No | Not Applicable |
| Pits, ponds & lagoons | No | Not Applicable |
| Stressed vegetation | No | Not Applicable |
| Historic fill or any other fill material | No | Not Applicable |
| Wastewater (including storm water or any discharge into a drain, ditch, underground injection system, or stream on or adjacent to the Site) | No | Not Applicable |
| Wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells) | No | Not Applicable |
| Septic systems or cesspools | No | Not Applicable |
| Other | Current | Site Nos. 1 through 5 – Partially fenced around the sites. |
| Other | Current | Site Nos. 4 and 5 – Along the northern edge of the Sites there is a heavy amount of trash and potential illegal dumping. |



Table 5.1 – Interior and Exterior Site Observations

| Item | Present (Current/ Historic/ No) | Description– Site Nos. 1 through 5 |
|-------|--|--|
| Other | Current | Site Nos 1 through 3 – Demolition debris was observed located on the center of the Site. |

5.2.1 Hazardous Substances

No hazardous substances including raw materials; finished products and formulations; hazardous wastes; hazardous constituents and pollutants including intermediates and byproducts that are currently present at the Sites or identified during site reconnaissance.

5.3 Adjoining and Surrounding Properties Reconnaissance

5.3.1 Adjoining Properties

During the Site reconnaissance, TRC viewed the adjoining properties from the Site and publicly accessible areas (e.g., public roadways, etc.).

Table 5.2 - Adjoining Properties Reconnaissance

| Direction from Site | Current Land Use Description: Site No. 1 – 24 Westminster |
|------------------------|---|
| North | Residential building |
| East | Residential building |
| South | Westminster Ave and residential building |
| West | Residential building |

| Direction from Site | Current Land Use Description: Site No. / _ / L Holworthy | |
|---------------------|--|--|
| North | Residential building | |
| East | Residential building | |
| South | Holworthy Street and vacant lot | |
| West | Site No. 3 | |

| Direction from Site | Current Land Use Description: Site No. 3 – 73 Holworthy |
|---------------------|---|
| North | Residential building |
| East | Site No. 2 |
| South | Holworthy Street and vacant lot |
| West | Residential building |

| Direction from Site | Current Land Use Description: Site No. 4 – 31 Hollander |
|---------------------|---|
| North | Residential building |



| Direction from Site | Current Land Use Description: Site No. 4 – 31 Hollander |
|---------------------|---|
| East | Site No. 5 |
| South | Hollander Street and residential building |
| West | Residential building |

| Direction from Site | Current Land Use Description: Site No. 5 – 29 Hollander |
|---------------------|---|
| North | Residential building |
| East | Residential building |
| South | Hollander Street and residential building |
| West | Site No. 4 |

5.3.2 Surrounding Properties

Surrounding properties of the Sites generally include residential to the north, south, east, and west.



6.0 INTERVIEWS

The following persons were interviewed to obtain historically and/or environmentally-pertinent information regarding RECs associated with the Site. Interview documentation is included in **Appendix B.**

• Mr. James Smith (City of Boston - DND - Senior Project Manager) – *Key Site Manager* (as defined by the ASTM standard and identified by the property Owner and User)

The information provided by each is discussed and referenced in the text. Other references and sources of information are included in **Appendix E**.



7.0 FINDINGS, OPINIONS AND CONCLUSIONS

Potential findings can include RECs, historical RECs (HRECs), controlled RECs (CRECs) and *de minimis* conditions, pursuant to the ASTM E 1527-13 standard.

RECs are defined as the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (1) due to any *release* to the environment; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of a future *release* to the *environment*.

CRECs are defined as a REC resulting from a past *release* of *hazardous substances* or *petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances* or *petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property* use restrictions, *activity and use limitations, institutional controls*, or *engineering controls*).

HRECs are defined as a past *release* of any *hazardous substances* or *petroleum products* that has occurred in connection with the *property* and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the *property* to any required controls (for example, *property* use restrictions, *activity and use limitations, institutional controls*, or *engineering controls*).

De minimis conditions are defined as a condition that generally does not present a threat to human health or the *environment* and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis conditions* are not RECs nor CRECs.

TRC has performed a Phase I ESA in conformance with the scope and limitations of ASTM E 1527-13 at the property located at 5 parcels located in Boston, Suffolk County, Massachusetts (Site), see **Appendices F and G**. Deviations from this standard are described in Sections 1.3 and 7.5 of this report.

7.1 RECs and CRECs

This assessment has revealed no evidence of RECs (including CRECs) in connection with the Sites.

7.2 HRECs

This assessment has revealed no evidence of HRECs in connection with the Site.



7.3 *De Minimis* Conditions

This assessment has revealed no evidence of *de minimis* conditions in connection with the Site except for the following:

• Potential dumping (i.e., trash/general refuse, landscaping, and construction/demolition debris) at Site Nos. 1 through Site No. 5.

7.4 Data Gaps

TRC has made an appropriate inquiry into the commonly known and reasonably ascertainable resources concerning the historical ownership and use of the Site back to the first development per 40 CFR Part 312.24 (*Reviews of Historical Sources of Information*). Data gaps identified during this assessment include the following:

- 1. Ownership records prior to Louis Bell foreclosed on Site No. 1 in 1989;
- 2. Ownership records prior to City of Boston obtaining Site Nos. 2 and 3;
- 3. Ownership records prior to Melford Mesquitts foreclosed on Site No. 4 in 1974; and
- 4. Ownership records prior to James and Louise Carter foreclosed on Site No. 5 in 1974.

Based on EDR report and state databases, Data Gap Nos. 1 - 4 are not considered *significant* as historical records review that the Sites are primarily used as residential since the late 1800s.

7.5 Limiting Conditions and Deviations

7.5.1 Accuracy and Completeness

The ASTM E 1527-13 standard recognizes inherent limitations for Phase I ESAs that apply to this report, including:

- Uncertainty Not Eliminated No Phase I ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Data gaps identified during this Phase I ESA are listed in Section 7.5.
- Not Exhaustive A Phase I ESA is not an exhaustive investigation.
- Past Uses of the Property A review of standard historical sources at intervals less than five years is not required.

The Client is advised that the Phase I ESA conducted at the Site is a <u>limited inquiry</u> into a property's environmental status, cannot wholly eliminate uncertainty, and is not an exhaustive assessment to discover every potential source of environmental liability at the Site. Therefore, TRC does not make a statement i) of warranty or guarantee, express or implied for any specific use; ii) that the Site is free of RECs or environmental impairment; iii) that the Site is "clean"; or iv) that impairments, if any, are limited to those that were discovered while TRC was performing



the Phase I ESA. This limiting statement is not meant to compromise the findings of this report; rather, it is meant as a statement of limitations within the ASTM standard and intended scope of this assessment. Specific limiting conditions identified during the Site reconnaissance are described in Section 5.1. Subsurface conditions may differ from the conditions implied by surface observations, and can be evaluated more thoroughly through intrusive techniques that are beyond the scope of this assessment. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other construction purposes.

This report presents TRC's site reconnaissance observations, findings, and conclusions as they existed at the time of the Site reconnaissance. TRC makes no representation or warranty that the past or current operations at the property are, or have been, in compliance with all applicable federal, state and local laws, regulations and codes. TRC makes no guarantees as to the accuracy or completeness of information obtained from others during the course of this Phase I ESA report. It is possible that information exists beyond the scope of this assessment, or that information was not provided to TRC. Additional information subsequently provided, discovered, or produced may alter findings or conclusions made in this Phase I ESA report. TRC is under no obligation to update this report to reflect such subsequent information. The findings presented in this report are based upon reasonably ascertainable information and observed Site conditions at the time of the assessment.

This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not assessed. Regardless of the findings stated in this report, TRC is not responsible for consequences or conditions arising from facts that were not fully disclosed to TRC during the assessment.

An independent data research company provided the government agency database referenced in this report. Information regarding surrounding area properties was requested for approximate minimum search distances and was assumed to be correct and complete unless obviously contradicted by TRC's observations or other credible referenced sources reviewed during the assessment.

TRC is not a professional title insurance or land surveyor firm and makes no guarantee, explicit or implied, that any land title records acquired or reviewed, or any physical descriptions or depictions of the property in this report, represent a comprehensive definition or precise delineation of property ownership or boundaries.

7.5.2 Warranties and Representations

This report does not warrant against: (1) operations or conditions which were not evident from visual observations or historical information provided; (2) conditions which could only be determined by physical sampling or other intrusive investigation techniques; (3) locations other than the client-provided addresses and/or legal parcel description; or (4) information regarding off-site location(s) (with possible impact to the Site) not published in publicly available records.



7.5.3 Continued Validity/User Reliance

This report is presumed to be valid, in accordance with, and subject to, the limitations specified in the ASTM E 1527-13 standard, for a period of 180 days from completion, or until the Client obtains specific information that may materially alter a finding, opinion, or conclusion in this report, or until the Client is notified by TRC that it has obtained specific information that may materially alter a finding, opinion, or conclusion in this report. Additionally, pursuant to the ASTM E 1527-13 standard, this report is presumed valid if completed less than 180 days prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction.

7.5.4 Significant Assumptions

During this Phase I ESA, TRC relied on database information; interviews with Site representatives, regulatory officials, and other individuals having knowledge of Site operations; and information provided by the User as requested in our authorized Scope of Work. TRC has assumed that the information provided is true and accurate. Reliance on electronic database search reports is subject to the limitations set forth in those reports. TRC did not independently verify the information provided. TRC found no reason to question the validity of the information received unless explicitly noted elsewhere in this report. If other information is discovered and/or if previous reports exist that were not provided to TRC, our conclusions may not be valid.



8.0 REFERENCES

Table 8.1 - References Information

| Description/Title of Document(s) Received or Agency Contacted | Date Information Request Filled/Date of Agency Contact | Information Updated | Reference Source |
|--|---|------------------------|-------------------------------------|
| United States Geological Survey 7.5 Minute Topographic Quadrangle: Boston South, dated 2012 | NA | Current | USGS |
| Aerial photographs dated (scale: 1" = 500') dated 1938, 1952, 1955, 1960, 1969, 1970, 1978, 1980, 1985, 1995, 1996, 2008, 2010, and 2012; | Request No.4667164.9 on July 7, 2016 | Current | EDR |
| Topographic maps dated 1944, 1946, 1949, 1954, 1956, 1970, 1979, 1987 and 2012; | Request No. 4667164.4 on July 7, 2016 | Current | EDR |
| Sanborn maps dated 1897, 1919, 1950, 1964, 1988, 1990, 1992, 1993, 1994, 1995, 1998 and 2002; | Request No. 4667164.3 on July 7, 2016 and 4668182.1 on July 8, 2016 | Current | EDR |
| American Society for Testing and Materials (ASTM). Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation E1527-13. 2013. | NA | Current | ASTM |
| MassDEP Reportable Release Sites | July 7, 2016 | Current | MassDEP Website (eDEP) |
| Radius Map Report / EDR – Five Vacant Parcels | Request No. 04667164.2r on July 7, 2016 | Current | Multiple federal and state agencies |
| Previous Reports | July 2016 | Current | See Section 4.3 |



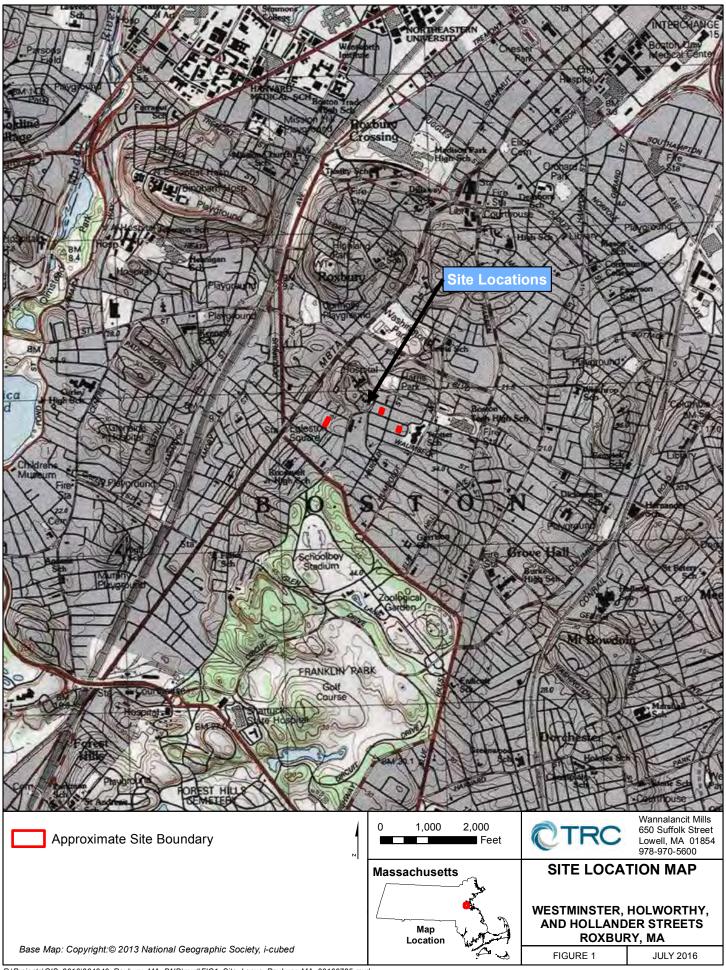
9.0 ADDITIONAL SERVICES

No additional services were performed during this Phase I ESA.

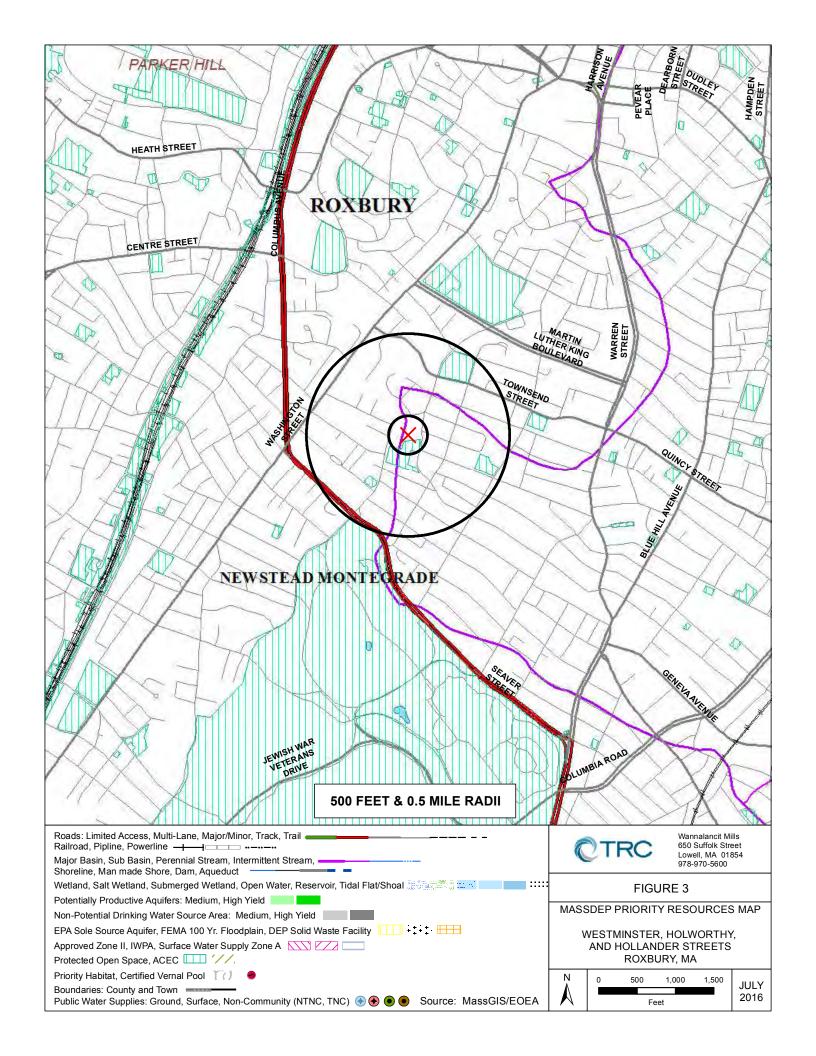


FIGURES









APPENDIX A: DATABASE RADIUS REPORT



APPENDIX B: USER QUESTIONNAIRE(S)





PHASE I ENVIRONMENTAL SITE ASSESSMENT INTERVIEW QUESTIONNAIRE

| SITE INFORMA | ATION | | |
|---|--|---|--|
| Site Name: | 24 Westmaster, 71-73 | Site Address: | , |
| INTERVIEWEE | INFORMATION | | Itallender |
| Name: | James Smith | Role: | |
| Title: | Sr. Environmental Compliance Ma | Company/Agency: | Bisten DNIS |
| Interview Date: | 7/27/16 | Years Associated with Site: | 5 |
| REQUESTED S | ITE KNOWLEDGE AND DO | CUMENTATION | |
| correspondence fro Site or relating to e | m any government agency relatin | g to past or current violations of e ne Site, hazardous waste generator r | cologic conditions, notices or othe invironmental laws with respect to the notices or reports, geotechnical studies |
| proceedings may in in, on, or from the petroleum products | clude: (a) any pending, threatened Site; (b) any pending, threatened in, on or from the Site; and (c) any | l, or past litigation relevant to hazar l, or past administrative proceeding y notices from any governmental en | proceedings involving the Site. Such dous substances or petroleum product gs relevant to hazardous substances of tity regarding any possible violation of |
| None 3.) TRC requests | | zardous substances or petroleum pro | g miscellaneous historically and/o |
| Nine | The state of the s | | |
| | | urrent use, or historic use of oil an veground petroleum storage for hea | d/or hazardous materials at the Site outing/fuel purposes). |
| None | | | |

PHASE I ENVIRONMENTAL SITE ASSESSMENT USER QUESTIONNAIRE

Pursuant to the American Society for Testing and Materials E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-13), in order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the User must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The User should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.

The "User" is defined in the ASTM E 1527-13 standard as the party seeking to use Practice E 1527 to complete an environmental site assessment of the Site. A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager.

Thank you for taking the time to complete this questionnaire. If you have any questions, please call Kevin Kitchin at (603) 621-9259 x27 or e-mail kkitchin@trcsolutions.com.

| | te: _// 6/ | 1/6 |
|--|--|--|
| 2 1 | | |
| s: 2i court st | | |
| Baston MA 02108 | | |
| | | |
| Address: Jamps. Smith @ bostongov | | |
| ire: Jw Wh | | |
| | ental condition | of the |
| 1 4 1 | | |
| Did a search of recorded land title records (or judicial records where appropriate, see Note 1 | | No C |
| | | |
| | | |
| | ame: James South any: Boston DND as: 24 (out 1st Boston MA 02108 ane No.: 617-635-0103 Address: James South O boston for are: Site Name & Address: 24 Westmaster 71-73 Holworthy 29-31 Hollander e of ASTM Phase I (potential purchase, potential sale, re-finance, update the environmentates termination or initiation, etc.) Environmental cleanup liens that are filed or recorded against the Site (40 CFR 312.25 Did a search of recorded land title records (or judicial records where appropriate, see Note I below) identify any environmental liens filed or recorded against the Site under federal, trib state or local law? NOTE 1 — In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specthat environmental liens and AULs be filed in judicial records rather than in land title record | size Name & Address: 24 Westminster Site Name & Address: 24 Westminster TI-73 Holwithy, 29-31 Hollinder e of ASTM Phase I (potential purchase, potential sale, re-finance, update the environmental condition rates termination or initiation, etc.) Environmental cleanup liens that are filed or recorded against the Site (40 CFR 312.25) Did a search of recorded land title records (or judicial records where appropriate, see Note 1 below) identify any environmental liens filed or recorded against the Site under federal, tribal, state or local law? NOTE 1 — In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. |

| (2.) | Activity and land use limitations (AULs) that are in place on the Site or that have been filed or recorded against the Site (40 CFR 312.26(a)(1)(v) and (vi)) Did a search of recorded land title records (or judicial records where appropriate, see Note 1 above) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the Site and/or have been filed or recorded against the Site under federal, tribal, state or local law? | Yes | No |
|------|--|-----|-------|
| (3.) | Specialized knowledge or experience of the person seeking to qualify for the Landowner Liability Protection (LLP) (40 CFR 312.28) Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business? | Yes | No II |
| (4.) | Relationship of the purchase price to the fair market value of the Site property (40 CFR 312.29) Does the purchase price being paid for the Site property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? | Yes | No No |
| (5.) | Commonly known or reasonably ascertainable information regarding the Site property (40 CFR 312.30) Are you aware of commonly known or reasonably ascertainable information about the Site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, (a.) Can you provide any information regarding the past uses of the Site? (b.) Can you provide any information regarding specific chemicals that are present or once were present at the Site? (c.) Can you provide any information regarding spills or other chemical releases that have occurred at the Site? (d.) Can you provide any information regarding any environmental cleanups that have occurred at the Site? | Yes | No Z |

| (6.) | The degree of obviousness of the presence or likely presence of contamination at the Site, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31) Based on your knowledge and experience related to the Site are there any obvious indicators that point to the presence or likely presence of releases at the Site? | Yes | No |
|------|---|----------|----------|
| (7.) | Proceedings Involving the Site Are you aware of: (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Site; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Site; and (3) any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products at the Site? | Yes | No |
| (8) | Questions Describing Helpful Desuments | | |
| (8.) | Questions Regarding Helpful Documents Are you aware of the presence of any of the documents listed below and, if so, whether copies can and will be provided to TRC within reasonable time and cost constraints? | | |
| | - Environment site assessment reports | Yes | No |
| | - Environment compliance audit reports | | |
| | Environmental permits (e.g., solid waste disposal permits; hazardous waste disposal permits; wastewater permits; National Pollutant Discharge Elimination System [NPDES] permits; or underground injection permits) | | |
| | - Registrations for underground and aboveground storage tanks | | |
| | - Registrations for underground injection systems | | 4 |
| | - Material Safety Data Sheets (MSDSs) | | 9 |
| | - Community Right-To-Know plan(s) | | 9 |
| | Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc., | | |
| | - Reports regarding hydrogeologic conditions at the Site and surrounding area | <u> </u> | d |
| | Notices or other correspondence from any government agency regarding current or previous violations of environmental laws with respect to the Site or relating to environmental liens encumbering the Site property | | |
| | - Hazardous waste generator notices or reports | | |
| | - Geotechnical studies | | |
| | - Risk assessments | | P |
| | - Recorded AULs. | | П |

APPENDIX C: HISTORICAL RESEARCH DOCUMENTATION



APPENDIX D: PHOTOGRAPH LOG



Appendix D Phase I ESA Photograph Log



Photo 1: View north towards Site No. 1 -24 Westminster Ave.



Photo 2: View of the adjoining property to the west of Site No. 1.



Photo 3: View of the adjoining property to the east of Site No. 1.



Photo 4: View of dumping on Site No. 1.



Photo 5: View of the adjoining property to the north of Site No. 1.



Photo 6: View south of the Site No. 1 and adjoining property to the south.

| TRC Job No. | Photographs Taken By: | Page No. | Client: | Site Name & Address: |
|-------------|---------------------------|---------------|---------|---|
| 204940.0029 | Ms. Nicole Hudson, TRC | 1 of 3 | DND | Five Vacant Parcels Westminster, Holworthy and Hollander, Roxbury, MA |



Appendix D Phase I ESA Photograph Log



Photo 7: View south across Holworthy Street to adjoin properties from Site No. 2-71 Holworthy and Site No. 3-73 Holworthy.



Photo 8: View of adjoining property to the east of Site No. 2.



Photo 9: View of adjoining property to the west of Site No. 3.



Photo 10: View north towards Site No. 2 and Site No. 3.



Photo 11: View of adjoining properties to the north of Site No. 2 and Site No. 3.



Photo 12: View of dumping on Site Nos. 2 and 3.

| TRC Job No. | Photographs Taken By: | Page No. | Client: | Site Name & Address: |
|-------------|---------------------------|----------|---------|---|
| 204940.0029 | Ms. Nicole Hudson, TRC | 2 of 3 | DND | Five Vacant Parcels Westminster, Holworthy and Hollander, Roxbury, MA |



Appendix D Phase I ESA Photograph Log



Photo 13: View south across Hollander Street of adjoining properties to Site No. 4-31 Hollander and Site No. 5-29 Hollander.



Photo 14: View north of the Site No. 4 and Site No. 5.



Photo 15: View of adjoining property to the east of Site No. 5.



Photo 16: View of adjoining property to the west of Site No. 4.



Photo 17: View of adjoining property to the north of Site Nos. 4 and 5.



Photo 18: View of the extensive dumping along the northern border od Site Nos. 4 and 5.

| TRC Job No. | Photographs Taken By: | Page No. | Client: | Site Name & Address: |
|-------------|---------------------------|---------------|---------|---|
| 204940.0029 | Ms. Nicole Hudson, TRC | 3 of 3 | DND | Five Vacant Parcels Westminster, Holworthy and Hollander, Roxbury, MA |



APPENDIX E: OTHER REFERENCE INFORMATION



APPENDIX F: TRC STAFF AND ENVIRONMENTAL PROFESSIONAL QUALIFICATIONS/RESUMES



Nicole M. Hudson (Environmental Professional)

B.S., Geological Sciences, Salem State University, 2008

Experience

Ms. Hudson is a Scientist II with TRC and holds a Bachelors of Science degree in Geological Science from Salem State University (2008). She has 8 years of experience in including managing and performing, due diligence, regulatory compliance, site assessment, Investigations, and remediation projects. Ms. Hudson's experiences include many field sampling procedures, contractor oversight with environmental monitoring and reporting experience including Phase I/Phase II reporting; as well as regulatory compliance status and completion reporting. She has experience in site inspection including location such as vacant lots, auto repair shops, residential, industrial and commercial properties.

Kevin M. Kitchin, PG (Project Manager)

B.S., Geological Sciences, Salem State University, 2004

Experience

Mr. Kitchin is a Professional Geologist with TRC and holds a Bachelors of Science degree in Geological Science from Salem State University (2004). He has 12 years of experience in including managing and performing Brownfields, due diligence, regulatory compliance, hazardous waste site assessment, and remediation projects. Mr. Kitchin's experiences include many field sampling procedures, contractor oversight with environmental monitoring and reporting experience including Phase I/Phase II reporting; as well as regulatory compliance status and completion reporting. He has experience in site inspection including location such as vacant lots, auto repair shops, laboratory space, industrial buildings and transportation infrastructure.

APPENDIX G: ENVIRONMENTAL PROFESSIONAL STATEMENT



DEFINITION OF ENVIRONMENTAL PROFESSIONAL AND RELEVANT EXPERIENCE THERETO PURSUANT TO 40 CFR 312

- (1) a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases (see §312.1(c)) on, at, in, or to a property, sufficient to meet the objectives and performance factors in §312.20(e) and (f).
- (2) Such a person must: (i) hold a current Professional Engineer's or Professional Geologist's license or registration from a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) and have the equivalent of three (3) years of full-time relevant experience; or (ii) be licensed or certified by the federal government, a state, tribe, or U.S. territory (or the Commonwealth of Puerto Rico) to perform environmental inquiries as defined in §312.21 and have the equivalent of three (3) years of full-time relevant experience; or (iii) have a Baccalaureate or higher degree from an accredited institution of higher education in a discipline of engineering or science and the equivalent of five (5) years of full-time relevant experience; or (iv) have the equivalent of ten (10) years of full-time relevant experience.
- (3) An environmental professional should remain current in his or her field through participation in continuing education or other activities.
- (4) The definition of environmental professional provided above does not preempt state professional licensing or registration requirements such as those for a professional geologist, engineer, or site remediation professional. Before commencing work, a person should determine the applicability of state professional licensing or registration laws to the activities to be undertaken as part of the inquiry identified in §312.21(b).
- (5) A person who does not qualify as an environmental professional under the foregoing definition may assist in the conduct of all appropriate inquiries in accordance with this part if such person is under the supervision or responsible charge of a person meeting the definition of an environmental professional provided above when conducting such activities.

Relevant experience, as used in the definition of environmental professional in this section, means: participation in the performance of all appropriate inquiries investigations, environmental site assessments, or other site investigations that may include environmental analyses, investigations, and remediation which involve the understanding of surface and subsurface environmental conditions and the processes used to evaluate these conditions and for which professional judgment was used to develop opinions regarding conditions indicative of releases or threatened releases (see §312.1(c)) to the Site. TRC personnel resume(s) are included in **Appendix F**.

I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

il Myhelen

| Signature of | |
|---------------|--|
| Environmental | |
| Professional: | |

