

600 State Street, Suite 2
Portsmouth, NH 03801
tel 603-433-1935 fax 603-433-1942

December 22, 2017

StoneHill Project No. 15046

Mr. Mike McCluskey
Oil Remediation & Compliance Bureau
New Hampshire Department of Environmental Services
P.O. Box 95, Concord, NH 03302-0095

RE: Supplemental Site Investigation and Remedial Action Plan
Former Dagostino Rose Farm
Oak Street Extension, Exeter, NH
NHDES Site #201203003

Dear Mr. McCluskey:

This is to inform you that a Supplemental Site Investigation (SSI) Report and Remedial Action Plan (RAP) Report, completed by StoneHill Environmental, Inc., has been uploaded to the New Hampshire Department of Environmental Services One Stop Data and Information database. The SSI and RAP is specific to the remediation of lead contaminated soil in the area of three former greenhouses, solid waste and soil containing ash in the former boiler and packing building area, and sediments in a manmade retention basin located south of the former greenhouses at the former Dagostino Rose Farm, Oak Street Extension, Exeter, NH.

Please do not hesitate to call us with any questions you may have concerning the report.

Sincerely,

StoneHill Environmental, Inc.

Allen Wyman
Project Manager

Timothy S. Stone, PG
President

cc: Todd Baker, Exeter Rose Farm, LLC
Brenda Kolbow, MSC

Department of Environmental Services **Contaminated Site Management** **Remedial Action Plan Check List**

The objective of this document is to improve the quality of the Remedial Action Plans, submitted under New Hampshire Code of Administrative Rules Env-Or 600 *Contaminated Site Management*. Quality reports are fundamental to reducing DES review time and backlog, and will lead to faster remediation and site closures.

It is recommended that this check list be submitted with all Remedial Action Plans. All items must be checked. For items that are not applicable, “N/A” is to be checked and provide an explanation in the comments column. If you have questions as to the applicability of any items please contact DES staff. Check “Yes” only if the Remedial Action Plan adequately documents the required information and include in the comments field the page number where the item can be found in the Remedial Action Plan. Failure to provide adequate information required by Env-Or 600, will result in department disapproval of the Remedial Action Plan.

Site Number: ____ NHDES# 201203003_____

Document Title: _____Remedial Action Plan_____

Site Name: _____Dagostino Rose Farm_____

Document Date: _____December 21, 2017_____

Site Address: _____Oak Street Extension_____

Consultant Company: __StoneHill Environmental, Inc._____

Site City/Town: ____Exeter_____

Licensed Professional: __Timothy Stone_____

REMEDIAL ACTION PLAN CRITERIA	YES N/A	COMMENTS	DES USE ONLY	
			Adequate	Inadequate
1. Professional Registration a. Professional Engineer Seal (Env-Or 606.10(c))	<input checked="" type="checkbox"/> <input type="checkbox"/>	Timothy Stone	<input type="checkbox"/>	<input type="checkbox"/>

REMEDIAL ACTION PLAN CRITERIA	YES N/A		COMMENTS	DES USE ONLY	
				Adequate	Inadequate
2. Provide recommendations to: <ul style="list-style-type: none"> a. Remove or treat the source of contamination, Env Or 606.10(d)(3)a. b. Contain the contamination source to limit the impact to groundwater, surface water, and soil to the extent feasible, Env-Or 606.10(d)(3)b. c. Protect human health from exposure through the indoor air exposure pathway, Env-Or 606.10(d)(3)c. d. Protect human health from exposure through the direct contact exposure pathway, Env-Or 606.10(d)(3)d. e. Contain contaminated groundwater within the limits of a groundwater management zone, Env-Or 606.10(d)(3)e. f. Restore groundwater quality to Ambient groundwater Quality Standards (AGQS), Env-Or 606.10(d)(3)f. g. Restore soil quality to the S-1 soil cleanup standards, Env-Or 606.10(d)(3)g. 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lead impacted soils and sediments	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Provide a summary of the site investigation including: <ul style="list-style-type: none"> a. Site Background Information, Env-Or 606.12(a). b. Summary of Subsurface Explorations and Sampling, Env-Or 606.12(a). c. Site Geology and Hydrology, Env-Or 606.12(a). d. Conceptual Model including contaminant contour maps, Env-Or 606.12(a). 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Additional details of background, geology, hydrology and contaminants can be found in historical reports.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Figure 6, contouring not applicable	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Provide a remedial alternative evaluation of a minimum of 2 alternatives or combination of alternatives which includes: <ul style="list-style-type: none"> a. Effectiveness and reliability comparison, Env-Or 606.12(c)(1). b. Feasibility and ease of implementation comparison, Env-Or 606.12(c)(2). c. A risk/benefit comparison, Env-Or 606.12(c)(3). d. A cost effectiveness comparison using the present worth of all future costs, Env-Or 606.12(c)(4). e. A clean-up time comparison, Env-Or 606.12(c)(5). f. A justification for the recommended alternative; Env-Or 606.12(d). 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Excavation and off-site disposal of lead contaminated soils is the only option given the proposed residential use of the property.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

REMEDIAL ACTION PLAN CRITERIA	YES N/A	COMMENTS	DES USE ONLY Adequate Inadequate	
5. For the recommended alternative, provide the following information: <ul style="list-style-type: none"> a. A site map showing the remedial system lay out including areas of influence, Env-Or 606.12(e)(1). b. A preliminary process flow diagram showing major system components and controls, Env-Or 606.12(e)(2). c. Final and interim contaminant reduction performance standards including target dates, Env-Or 606.12(e)(3). d. Recommendations for conducting any additional investigations, pilot tests, or bench scale studies, Env-Or 606.12(e)(4). e. A description of performance monitoring, including monitoring locations and frequency, Env-Or 606.12(e)(5). f. A schedule for implementing the recommended alternative, Env-Or 606.12(e)(7). g. A list of federal, state, and local permits required, Env-Or 606.12(e)(8). h. A description of any activity and use restrictions being proposed at the site, Env-Or 606.12(e)(9). 	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	Remediate until lead in soils < NHDES SRS and sediments < ecological PEC Post excavation soil sampling Between spring 2017 and winter 2018 Wetland permit to be submitted by Marc Jacobs, certified wetland scientist	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
6. Provide the following: <ul style="list-style-type: none"> a. Recommendations for potable water to receptors when a water supply well exceeds AQGS Env-Or 606.12(f). b. A proposed GMZ overlaid on a tax map, Env-Or 606.12(g). c. Water Well Board Completion Report Prepared by Licensed Technical Driller (HB 459). 	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

DES USE ONLY

Overall Report: ☐ **Approved** ☐ **Disapproved**

Approval Decision Comments:

Type of Submittal (check one)	Petroleum Reimbursement Fund Phase (check one)	
<input type="checkbox"/> Workscope/Budget <input checked="" type="checkbox"/> Technical Report <input type="checkbox"/> Reimbursement Request <input type="checkbox"/> Monitoring Result (Pre-permit) <input type="checkbox"/> Monitoring Result (Post-permit)	<input type="checkbox"/> Initial Response Action <input type="checkbox"/> Free Product Removal <input type="checkbox"/> Initial Site Characterization <input type="checkbox"/> Site Investigation <input checked="" type="checkbox"/> Remedial Action Plan	<input type="checkbox"/> Remedial Design Plan <input type="checkbox"/> Remedial Implementation Operations/Monitoring <input type="checkbox"/> Groundwater Management Permit

Supplemental Site Investigation and Remedial Action Plan

Former Dagostino Rose Farm
Oak Street Extension, Exeter, NH
NHDES Site #201203003

Prepared For:

Exeter Rose Farm, LLC
953 Islington Street, Suite 23D
Portsmouth, NH 03801
(603) 425-8598
Contact: Mr. Todd Baker

Prepared by:

StoneHill Environmental, Inc.
600 State Street, Suite 2
Portsmouth, NH 03801
(603) 433-1935
Contact: Timothy Stone

December 21, 2017
StoneHill Project No. 15046

RECOMMENDED	RISK (Check one)	CATEGORY
<input type="checkbox"/> 1. Immediate Human Health Risk (Impacted Water Well, etc.) <input type="checkbox"/> 2. Potential Human Health Risk (Residential well within 1000' or site within wellhead area) <input type="checkbox"/> 3. Free Product or Source Hazard	<input type="checkbox"/> 4. Surface Water Impact (Actual Impact to Class B or Potential Impact to Class B) <input type="checkbox"/> 5. No Alternate Water Available/ No Existing Wells in Area <input type="checkbox"/> 6. Alternate Water Available/ High Level Groundwater Con- tamination (> 1,000 x AGQS)	<input type="checkbox"/> 7. Alternate Water Available Low Level Groundwater Contamination (< 1,000 x AGQS) <input checked="" type="checkbox"/> 8. No AGQS Violation/ No Source Remaining

Supplemental Site Investigation and Remedial Action Plan

Former Dagostino Rose Farm Oak Street
Extension, Exeter, NH NHDES Site
#201203003

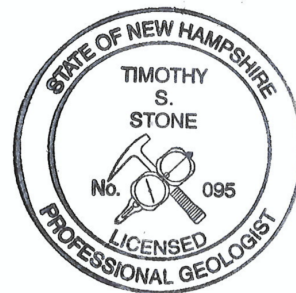
Prepared for:

Exeter Rose Farm, LLC
953 Islington Street, Suite 23D
Portsmouth, NH 03801

Prepared by:


StoneHill Environmental, Inc.
600 State Street, Suite 2
Portsmouth, NH 03801

December 21, 2017
StoneHill Project No. 15046



Allen Wyman
Project Manager

Timothy S. Stone, PG
President


Roger B. Keilig, P.E., PG

Project Reviewer

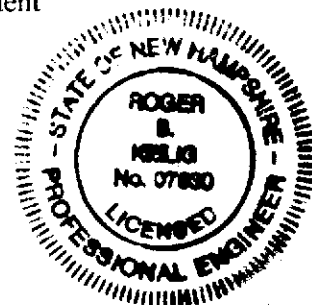


Table of Contents

Supplemental Site Investigation and
Remedial Action Plan
Former Dagostino Rose Farm
Oak Street Extension, Exeter, NH

<u>Section</u>	<u>Page No.</u>
1.0 INTRODUCTION	5
2.0 SUMMARY OF SITE CONDITIONS.....	6
2.1 Site Description	6
2.2 Assessment of Lead Impacted Soils in the Former Greenhouse Area.....	8
2.3 Test Pitting and the Extent of Ash Impacted Soil in the BPB Area.....	9
2.4 Sources of Contamination.....	9
3.0 CONCEPTUAL SUMMARY.....	12
3.1 Former Greenhouse Area.....	12
3.2 Former Boiler and Packing Buildings Area.....	12
3.3 Retention Basin #4 and Wetland H.....	13
4.0 REMEDIAL ALTERNATIVES	13
4.1 Former Greenhouse Area.....	13
4.2 Former Boiler and Packing Buildings Area.....	13
4.3 Retention Basin #4 and Wetland H.....	14
5.0 REMEDIAL ACTION PLAN	14
5.1 Former Greenhouse Area.....	15
5.2 Former Boiler and Packing Buildings Area.....	16
5.3 Retention Basin #4 and Wetland H.....	19
5.4 Implementation Schedule.....	19
6.0 LIMITATIONS.....	19

LIST OF FIGURES

- Figure 1 – Site Location Map
- Figure 2 – Tax Map
- Figure 3 – Site Plan
- Figure 4 – Groundwater Contour Plan
- Figure 5 – Remediation Areas
- Figure 6 – Former Greenhouse Area Field Investigation
- Figure 7 – BPB Area Pre-consolidation
- Figure 8 – BPB Area Post-consolidation
- Figure 9 – Grid - Former Greenhouse Area

LIST OF TABLES

- Table 1 – Summary of Groundwater Elevation Data
- Table 2 – Former Greenhouse Area Field Investigation XRF Lead Results
- Table 3 – Former Greenhouse Area Field Investigation XRF and Laboratory Data Results
- Table 4 – PBP Area Test Pit Descriptions, StoneHill
- Table 5 – Summary of BPB Area Soil Analytical Data & Credere Test Pit Descriptions
- Table 6 – Summary of Groundwater Sample Analytical Results
- Table 7 – Summary of Sediment Sample Analytical Results

LIST OF PHOTOGRAPHS

- Photograph 1 – Aerial view to the north of greenhouses circa 1958.
- Photograph 2 – Current view of former greenhouse area facing east.
- Photograph 3 – View facing north of former packing building.
- Photograph 4 – View of solid wastes and appliances in Former Boiler and Packing Buildings Area.
- Photograph 5 – View facing east of concrete and solid wastes discarded on bank behind former packing building.
- Photograph 6 – View facing south of solid wastes on bank behind former boiler building.
- Photograph 7 – View west of 12-inch pipe behind former packing building.
- Photograph 8 – View looking east of interior of former packing building.
- Photograph 9 – View of trench in GH #3.
- Photograph 10 – View looking west of Basin #4.
- Photograph 11 – View looking west of 12-inch culvert in Basin #4.
- Photograph 12 – View looking west of 12-inch culvert in Wetland H.
- Photograph 13 – View of concrete in GH Area.
- Photograph 14 – View of concrete in GH Area.

LIST OF APPENDICES

- Appendix A - Credere Test Pit and Boring Logs
- Appendix B - Laboratory Analytical Data

**Supplemental Site Investigation and
Remedial Action Plan**

Former Dagostino Rose Farm
Oak Street Extension, Exeter, NH
NHDES Site #201203003

1.0 INTRODUCTION

The Former Dagostino Rose Farm, Oak Street Extension, Exeter, NH (Site), approximately 41 acres, is located in “The Oaklands” section of Exeter, on the north end of the downtown area (Figure 1 and 2). The historical use of the property included the construction of three large greenhouses (GH1 to GH3), a boiler building and rose packing building circa 1940, in which a commercial rose growing facility was active until the 1990s (Photograph 1). Activities at the Site have remained relatively inactive following the closure of the rose farm. Decades prior to that, the Site was used for brick manufacturing. At some point during these activities, man-made apparent unlined water containment basins (Retention Basins) were also constructed (Figure 3). The historical uses of the Site have, by best current estimate, resulted in:

1. A release of lead to soils within the area of the three former greenhouses (± 3 acres).
2. Deposition of fill containing coal ash, brick, concrete, metal and large electrical goods (such as a washing machine) west of the former boiler and packing buildings (BPB Area), of approximately 1 acre.
3. Lead impacted soil and/or sediments in man-made Retention Basins #1, #2, #3 and #4 (± 0.3 acres).

The soil (shallow) lead contamination is believed to be the result of a lead based caulking used while glazing the greenhouse windows, likely scattered throughout the Former Greenhouse Area upon the greenhouse demolitions in the 1990s. Given the lead impacted soils were thereafter exposed to precipitation events, it is likely the lead contamination discovered in the man-made retention basin sediments were the result of overland flow from the greenhouse area. The deposition of soil containing ash, filled in along a slope behind the boiler building on the western side of the property, was likely the result of soil mixed with ash from the former brick manufacturing operations. These areas of fill and lead contamination were first identified via site investigations conducted by Credere Associates, LLC, Westbrook, ME (Credere) between 2012 and 2016 in support of the Rockingham Planning Commission, Exeter, NH (Commission). The Credere reports on file with the New Hampshire Department of Environmental Services (NHDES) include:

- Phase I Environmental Assessment (ESA) Report, April 2012
- Site-Specific QAPP Addendum, November 2012
- Supplemental Phase II ESA Work Plan, July 2015
- Phase II Environmental Site Assessment, November 2015
- Phase II Environmental Site Assessment, April 2016
- Supplemental Phase II Environmental Site Assessment, July 2016
- Amendment to Supplemental Phase II Environmental Site Assessment, September 2016

On January 27, 2016, following the Credere November 2015 Phase II Site Assessment report, the NHDES provided the Commission a letter requesting additional investigations, remedial actions, or longer-term monitoring of contamination at the Site. Specifically, the NHDES requested additional soil sample collection and analysis to determine the extent of lead contamination in the Former Greenhouse Area, further delineation of the soil containing ash in the BPB Area, as well as a proposed approach to address sediment impacts in areas now designated as Basin #4 and Wetland H. Credere began additional investigative work and submitted an amendment to the Phase II in September 2016, addressing some of the concerns identified in the NHDES letter. By this point, however, Exeter Rose Farm, LLC, Portsmouth, NH (Exeter Rose) had declared their interest in, and eventually purchased the Site in August 2017 for a proposed residential development. As a follow-up to the work completed by Credere and NHDES request for additional actions, Exeter Rose retained StoneHill Environmental, Inc., Portsmouth, NH (StoneHill) to complete the additional site investigations and develop a Remedial Action Plan (RAP). This Site Investigation Report (SIR) and RAP is the result of work conducted by StoneHill to address portions of the NHDES letter and includes recent test pits, soil data and groundwater elevation measurements. This additional assessment determined the extent of site contamination and/or fill in three areas; i) the lead impacted soil within the footprint of the former greenhouses, ii) the lead impacted sediments in Basin #4 and Wetland H, and iii) the soil containing coal ash and solid waste deposition in the BPB Area. This RAP recommends methods of addressing these three areas. This RAP does not address building demolition regulated material abatement, such as for asbestos or lead paint. This RAP is specific to the lead in the surficial soils within the Former Greenhouse Area, fill in the Former Boiler and Packing Building Area, and mitigation of lead in the sediments of Basin #4.

This RAP requires no direct engineering of the recommended remedial actions. MSC Civil Engineers (MSC), 170 Commerce Way, Suite 102, Portsmouth, NH, is working with Exeter Rose to submit final grading elevations to the town and will be responsible for post remedial site grading and completion as necessary for the proposed development. Similarly, Marc Jacobs, New Hampshire certified wetland and soil scientist will be acquiring any necessary state and local wetland permits prior to StoneHill implementing the recommendations in this RAP.

2.0 SUMMARY OF SITE CONDITIONS

2.1 Site Description

The property includes three parcels of land totaling 41+/- acres of primarily undeveloped, wooded area with a brook, a natural spring and several man-made retention basins. Aside from a three car garage on the property intermittently used for automobile repair, there are currently no commercial or industrial operations ongoing at the property. There are four occupied residential structures located on the southern portion of the property. Additionally there are three dilapidated mobile homes and one house, uninhabitable and unoccupied, located on the northern portion of the property. A detailed description of the historical uses of the property can be found in the Credere reports listed above and on file at the NHDES. Currently, the property is owned by Exeter Rose for the proposed development as a residential subdivision with municipally supplied water and sewer. Groundwater elevation data (Table 1) reveals groundwater flow through the Former Greenhouse Area is to the west toward Norris Brook, which flows southerly (Figure 4).

The subjects of this RAP include three areas on the property; one area is approximately 3 acres within the footprint of the former greenhouses used between the 1940s to the 1990s to grow roses. The second is an area of fill containing coal ash, concrete, brick and solid waste historically disposed of over an embankment on the western edge of the property in the BPB Area (± 1 acre). The third area is a man-made retention basin (Basin #4) of approximately 0.2 acres and jurisdictional wetland (Wetland H) on the east and west sides of Oak Street Extension, respectively.

The Former Greenhouse Area

The Former Greenhouse Area is currently covered in grass, bushes and trees (Photograph 2). Concrete slabs and metal greenhouse window frames are partially buried throughout the footprint of each of the three former greenhouses. Several concrete drainage troughs exist throughout the length of and perpendicular to each of the former greenhouses (Figure 5). These appear to have historically drained water used in the greenhouses to piping along the south edge of the southernmost greenhouse (GH#3), which likely drained into Basin #4.

Glass, wood and caulking is mixed to approximately two feet below ground surface (bgs) within the dark sand, silt and organic matter (loam) throughout areas of the Former Greenhouse Area. Native silt and clay is present below the loam. Three small man-made retention basins (Basin #1, #2, and #3), dug into the silt and clay, currently exist within the Former Greenhouse Area. Shallow exploratory excavations within the Former Greenhouse Area reveal groundwater perched intermittently on the silt and clay after precipitation events. However, groundwater elevation measurements collected from monitoring well CA-MW-102, located in the approximate center of the Former Greenhouse Area, reveal a groundwater level at 11.78 feet below the existing grade on September 25, 2017.

Former Boiler and Packing Buildings Area

An area of mixed soil and coal ash as well as solid waste debris (fill) is located off the southern edge of the former BPB Area, and covers an area approximately 550 feet by 150 feet along the west side of Oak Street Extension (Photograph 3). Soil containing coal ash, concrete pieces, household appliances, asphalt, bricks, glass, and other debris vary in depth in this area between 3 to 13 feet bgs (Photographs 4 – 6). There is a 12-inch metal pipe (within which is a smaller diameter pipe) coming from the embankment beneath the existing packing building, thought to be associated with a floor drain within the packing building (Photograph 7). The 12-inch pipe is believed to have been placed to protect the smaller pipe. StoneHill observations of the packing building revealed layers of white goods and wood debris (from the collapsing roof) covering the floor throughout the packing building, thus making identification of the floor drain infeasible without significant debris removal (Photograph 8).

Retention Basin #4 and Wetland H

As discussed above, it appears that excess water from the greenhouse operations drained through troughs (Photograph 9) within the former greenhouses to pipes located adjacent the south side of GH#3 to the man-made retention Basin #4 (Photograph 10). The depth of Basin #4 is unknown. The overflow from Basin #4 drains through a 12-inch diameter concrete pipe (Photograph 11) that runs westerly under Oak Street Extension to Wetland H (Photograph 12). The inlet of the concrete pipe is significantly higher than high-water staining and flora elevations within the banks of Basin #4 indicating the likelihood that the pipe currently drains water from Basin #4 only during significant rainfall events. It is possible, during the active use of the greenhouses, greater quantities of water resulted in higher water levels within Basin #4, thus explaining the need for overflow drainage from Basin #4, beneath Oak Street Extension into Wetland H.

Wetland H is a shallow depression located adjacent the Oak Street Extension westerly embankment, beyond which is another jurisdictional wetland (Wetland B) that borders Norris Brook. Although the ground surface in Wetland H was wet during the spring of 2017, it does not retain surface water.

2.2 Assessment of Lead Impacted Soils in the Former Greenhouse Area

In response to the NHDES request to delineate the lead contaminated soil in the Former Greenhouse Area initially identified by Credere, StoneHill completed sampling and lead analyses of surficial soils around and throughout the footprint of the former green houses (Figure 6). On May 17th, 18th and June 9th 2017, StoneHill sampled 121 locations (F-1 through F-106, and A through O) at multiple depths (surface to 18 inches), 11 wood samples (W1 through W11), and 8 caulking samples (G1 through G8). Field concentrations of lead in each sample (204 samples in total) were measured using a Scientific Niton XL3t GOLDD+ XRF Analyzer (XRF). These samples were collected primarily from a layer of loam which is present to depths up to 2 feet bgs. The results are presented in Table 2. Based upon the XRF results, select sample locations were resampled and submitted to Absolute Resource Associates, Portsmouth, NH, for laboratory confirmation of the field measured lead results (Table 3). Comparison of the laboratory and field results indicated that the XRF could be relied upon to read at least 75 percent of lead concentrations reported by the laboratory. The laboratory and field measurement results indicate that lead contaminated soils, likely above the NHDES Soil Remediation Standards (SRS) of 400 mg/kg, are scattered throughout the Former Greenhouse Area. The laboratory analytical data is provided in Appendix B.

As shown by the field and laboratory analytical data of soil samples (A through M) collected from outside of the perimeter of the Former Greenhouse Area, the lead impacted soils are contained within a few feet of the footings of the former greenhouses.

To assess the vertical extent of the lead contamination, clay and silt samples were collected from 18 and 24 inches bgs, beneath the layer of loam, at select locations (F11, F23, F40, and F86) throughout the Former Greenhouse Area. These samples were submitted to Aquarian Analytical Laboratory in Canterbury, NH (Aquarian) for total lead analyses. The highest lead concentration

reported was 20.1 mg/kg, indicating that the lead contamination is likely confined within the loam. Lead soil sample locations and the corresponding XRF field measurement results are depicted in yellow on Figure 6.

This additional investigation revealed that lead contaminated soil above the NHDES SRS of 400 mg/kg exists in the loam throughout, but is primarily contained within, the Former Greenhouse Area to depths of approximately 2 feet bgs.

2.3 Test Pitting and the Extent of Ash Impacted Soil in the BPB Area

To address the NHDES request to provide further information in the delineation of the soil containing coal ash and solid waste fill in the BPB Area, StoneHill conducted several test pits (TP-107 through TP-114) on June 2, 2017 (Figure 7). The StoneHill test pits were located primarily along the edges of the impacted area previously identified by Credere. Based on the test pit descriptions provided in Table 4 and a visual assessment of the area, the extent of fill identified by Credere was decreased slightly in the south end of the area identified by Credere. Specifically, Credere identified fill material in the eastern edge of Wetland B. StoneHill noted no significant amount of solid waste in that area. Further, to address the NHDES request to revise the location of coal ash containing soil in relation to the solid waste area to better reflect current conditions, StoneHill reviewed the analytical data and test pit descriptions provided in the Credere test pit and boring logs (Appendix A) along with descriptions from the recent StoneHill test pits. The review resulted in the locations of coal ash impacted soil and solid waste as depicted in Figure 7. This reflects differences in the solid waste fill and ash locations identified in the July 29, 2016, "*Supplemental Phase II Environmental Site Assessment*," Figure 2. Specifically, it appears Credere transposed the identifiers in the legend on Figure 2 between the "Approximate Area of Coal Ash and Clinker" and "Approximate Area of Solid Waste Fill." That is, StoneHill's review of the Credere logs indicate that the coal ash area identified by Credere is actually solid waste and the area identified as solid waste is actually soil containing ash. Also, what was identified as coal ash and clinker in Credere Figure 2, according to the Credere boring logs, is more accurately identified as sand, silt, clay, gravel, clinker and ash. Given this, it does not appear that the embankment in the BPB Area is just coal ash but rather fill material generated elsewhere on the property and used to fill the embankment in the BPB Area prior to the construction of the former boiler building. It is likely that coal ash generated as part of the historical use of the Site for brick manufacturing was, at some point, mixed with sand, silt, clay, and gravel for the purpose of filling the embankment on which the boiler and packing buildings were constructed.

2.4 Sources of Contamination

Former Greenhouse Area

It is likely that the source of lead contamination in soils within the Former Greenhouse Area is lead based caulking used when glazing the greenhouses. The laboratory result for total lead of a composite sample of caulking collected from various locations throughout the Site was 5,600 mg/kg. Mr. Dagostino, the former owner and operator of the greenhouses, also indicated that lead powder was used to make caulking that was then used during the replacement of window panes. During field activities, StoneHill noted that the caulking is primarily adhered to pieces of

old wood and metal trim used to hold the greenhouse window panes in place.

The composite sample of caulking was also analyzed for polychlorinated biphenyls (PCBs), often associated with old caulking. The results identified PCBs (Aroclor 1254) at 0.224 mg/kg. Although the PCB result from the caulking is lower than the NHDES SRS of 1 mg/kg, the existence of PCBs within the caulking raised the question as to the existence of PCBs in the area soils. It was assumed that soil samples with high lead levels were the best candidates for PCB analyses because the same soils exposed to lead leaching from the caulking would be the most likely to be exposed to PCB leaching from that same caulking. To assess the possibility that PCBs leached from the caulking into the soils, three known lead contaminated soil samples (F-20, F-24 and F-63) were analyzed for PCBs. The analytical results for PCBs were all below the laboratory detection limit of 0.0720 mg/kg.

To assess the possibility of removing the lead contaminated soils to an off-site disposal facility, the three lead contaminated soils were also analyzed for eight Resource Conservation and Recovery Act (RCRA) total metals and leachable lead via total characteristic leaching procedure (TCLP). The TCLP result associated with the greatest reported concentration of total lead in the three samples (1,570 mg/kg) was 1.51 milligrams per liter (mg/l). This is below the TCLP lead limit of 5 mg/l for acceptance of lead contaminated soils at various New Hampshire soil disposal facilities. Aside from lead, none of the other seven total metals results were above the NHDES SRS.

Former Boiler and Packing Building Area

Relative to the source of the low concentrations of PAHs identified in two samples (CA-SB-1 and CA-SB-4) collected from the historical fill in the BPB Area, these are likely the result of asphalt noted to be within the samples submitted to the laboratory. Further, no source was discovered for the arsenic concentrations reported in sand, silt, and clay samples collected from CA-SB-4 (67 mg/kg) and CA-TP-102 (45 mg/kg) in the BPB Area. However, these results are well within one order of magnitude of the site established background (up to 27 mg/kg). Given no clear source of arsenic and the similar background levels, it is likely the arsenic reported in CA-SB-4 and CA-TP-102 is background.

The above stated conclusions are based upon a review of test pit and boring descriptions and laboratory data of debris samples collected by Credere. In all, nine locations were sampled at multiple depths throughout the BPB Area (CA-TP-100A, 101, 102, 104, 105, and CA-SB-1, 2, 4, 5). In total, 14 samples were collected and submitted for laboratory analyses of TPH, VOCs, PAHs, metals, pesticides, and/or PCBs (Table 5). Of those, two samples (CA-SB/MW-1 and CA-SB/MW-4) contained benzo(a)anthracene (2.4 mg/kg), benzo(b)fluoranthene (1.8 mg/kg), and/or benzo(a)pyrene (2.1 mg/kg), above the NHDES SRSs of 1 mg/kg, 1 mg/kg, and 0.70 mg/kg, respectively. As the development of the NHDES SRS standards includes a leaching component, and the three PAHs from these two locations were above the NHDES SRS Standards, the groundwater sample results from MW-1 and MW-4 were reviewed to assess whether the PAH impacted soils were leaching and thus affecting the groundwater at those locations. The three PAH compounds were below the groundwater method detection limits of 0.7 ug/l, 0.7 ug/l, and 0.3 ug/l, respectively. It should be noted, however, that the method detection limits are above the NHDES

GW-1 standards of 0.1 ug/l, 0.1 ug/l, and 0.2 ug/l, respectively.

The sample descriptions for CA-SB/MW-1 and CA-SB/MW-4 contain no reference to coal, coal ash, or coal clinkers. These two soil samples are identified as sand, silt, gravel, concrete, and asphalt. Given this, and the existence of anthracene and phenanthrene (petrogenic PAHs) in these two samples, it is likely the benzo(a)anthracene, benzo(b)fluoranthene, and/or benzo(a)pyrene are associated with the asphalt in the sample and not coal ash. Further, the anthracene and phenanthrene that were found in the asphalt containing samples were not found in the ash containing samples CA-SB-2, CA-SB-5, CA-TP-101s, and CA-TP-105s, thus confirming the petrogenic nature of the PAHs. It is also unlikely the PAHs found in the two asphalt containing samples are the result of a release of a petroleum product such as diesel, oil/waste oil or gasoline given the laboratory results of the diesel range organics and volatile organic compounds in these two samples were below their respective analytical method detection limits. Given the available lines of evidence, it is likely the three PAHs detected above the NHDES SRS in CA-SB/MW-1 and CA-SB/MW-4 are the result of asphalt and thus considered background conditions per NHDES Env-Or 602.03¹.

The laboratory results of arsenic in soil samples CA-SB/MW-4 (67 mg/kg) and CA-TP-102 (45 mg/kg) were above the background concentrations (up to 27 mg/kg), identified via samples BKG-1 and BKG-2. However, the soil sample descriptions for these two samples were sand, silt, and clay. There was no indication of ash, clinker, or cinders. Also, the difference in arsenic concentrations between these two samples (67 mg/kg and 45 mg/kg, respectively) and background (27 mg/kg) is well within an order of magnitude, and thus could be the result of Site or laboratory analysis variations. Also, the results of arsenic in the four “coal ash” reference samples (CA-SB-1 and 5, CA-TP-101S and 105S) were no greater than 13 mg/kg and thus the arsenic detected in CA-SB/MW-4 and CA-TP-102 are unlikely the result of coal ash or anything in the fill from which the four reference samples were collected. That is, the boring descriptions throughout the “ash filled” area are similarly identified as sand, silt, clay, or gravel and ash as is the case with the four reference samples. Thus, the analytical results for the four samples should be indicative of the fill throughout the “ash filled” area. Given the fill is unlikely a source and there are no other indications of a source of arsenic, it is likely these arsenic results are indicative of background.

To assess whether the arsenic identified in CA-SB/MW-4 and CA-TP-102 is leaching, arsenic results in groundwater samples collected from MW-4 and MW-1 (immediately downgradient of CA-TP-102) were reviewed and found to be non-detectable (<8 ug/l) and 9 ug/l, respectively. Both are below the NHDES GW-1 standard of 10 ug/l (Table 6). Given such, it is unlikely the arsenic reported in soils collected from CA-SB/MW-4 and CA-TP-102 is impacting groundwater above the NHDES GW-1 Standard.

Retention Basin #4 and Wetland H

The drainage piping, which runs along the south side of GH#3, leads to a man-made retention basin immediately adjacent the east side of Oak Street Extension (Basin #4), through a culvert beneath Oak Street Extension, to a wetland down slope of the west side of Oak Street Extension (Wetland H). Sediment samples collected from Basin #4 and Wetland H revealed lead levels up to

180 mg/kg and 220 mg/kg, respectively (Table 7). Although these are above the ecological probable effect concentration (PEC) for lead of 128 mg/kg (levels above which benthic invertebrates may be adversely impacted), these concentrations are below the NHDES SRS for lead of 400 mg/kg. As previously stated, it is likely that the lead contamination identified in Basin #4 and Wetland H is the result of sediment transport from the Former Greenhouse Area.

3.0 CONCEPTUAL SUMMARY

3.1 Former Greenhouse Area

As reported in the Credere April 2012 ESA, the property was purchased by the historical Exeter Rose Farm, Inc. in 1939 and the greenhouses were constructed by 1942. The property was reportedly operated by the Dagostino family as a rose farm until the 1990s and the greenhouses were razed by 1998. Lead contaminated soils, initially identified by Credere and further defined by StoneHill, are mixed with several concrete drainage troughs and large concrete slabs likely associated with the foundations and drainage systems of the three former greenhouses. Also, present within the soils is glass, wood and caulking. Although Credere reported their belief that the lead contamination in the area may be the result of lead based paint, additional investigation by StoneHill revealed lead levels, via XRF field measurements, up to 3,600 ppm in loam sampled from within the footprint of the former greenhouses. A composite sample of caulking (G1, G4, and G5) contained lead at 5,600 mg/kg. While sampling for lead in the Former Greenhouse Area, StoneHill noted that much of the caulking was found adhered to pieces of wood located around the perimeter of the three greenhouses and in the eastern portions of Greenhouses GH#2 and GH#3. Lead contaminated soils are contained within a few feet of the perimeter of the Former Greenhouse Area.

As previously discussed and depicted in Figure 6, the extent of lead contaminated soils within and beyond the former greenhouse locations is defined sufficiently to pursue the remediation plan proposed in this RAP, the objective of which will be the off-site disposal of soils contaminated with lead equal to or above the NHDES SRS for lead of 400 mg/kg.

3.2 Former Boiler and Packing Buildings Area

Prior to operation as a rose farm, the Site was reportedly used for the manufacturing of brick. Given that brick and coal ash are mixed in with the fill in the area behind the former boiler building location, it is likely coal was used for that process. This filled area slopes significantly downhill to the west and away from the boiler building, impacting jurisdictional Wetlands B and G at the toe of the slope. It appears that the soil containing coal ash, along with solid waste such as brick, concrete and residential appliances, was used to fill this area (Photographs 3 and 4). Given the varying ages of the mix of concrete, brick, coal ash, and appliances, it is likely this area was filled over decades. Several test pits, borings, and soil sampling and laboratory analyses conducted by Credere and StoneHill in and around the BPB Area resulted in the characterization and extent of the fill such that a recommendation can be made for managing this fill.

3.3 Retention Basin #4 and Wetland H

During site investigation activities, StoneHill noted concrete drainage troughs within the former greenhouses. It appears these troughs were used historically to drain excess water during the greenhouse operations to pipes located in a trench that runs east to west, along GH#3. The pipes subsequently drain into Basin #4. Given the concentrations of lead in soil samples collected from the Former Greenhouse Area, it is likely that the lead concentrations identified in sediments collected from Basin #4 and Wetland H are the result of sediment transport from the Former Greenhouse Area being deposited into these features. Rather than conducting an ecological assessment of the effects of the lead impacted sediment on benthic invertebrates, a sufficient understanding of the conditions exists to recommend a remedial alternative in lieu of additional study.

4.0 REMEDIAL ALTERNATIVES

4.1 Former Greenhouse Area

The proposed use of the property is as a residential development, some of which will be located in and around the Former Greenhouse Area. As such, the lead contaminant levels in area soils must be brought below the NHDES SRS of 400 mg/kg. This cannot be accomplished via on-site encapsulation or treatment. The only feasible means of lessening lead contaminated soils below residential levels in the Former Greenhouse Area is via the excavation and removal of the lead contaminated soils. Given this, Exeter Rose will remove soils contaminated with lead equal to or above the NHDES SRS lead standard of 400 mg/kg. These soils will be disposed off-site at a facility permitted to accept lead contaminated soils. As a preliminary assessment of acceptance of the material for daily cover, three lead contaminated soil samples (F-20, F-24, and F-63) were collected and analyzed for 8 RCRA metals and TCLP lead. Of the results for the 8 RCRA metals, only lead required further analyses via TCLP. Of the three soil samples, the highest total lead level was 1,570 mg/kg and the TCLP result was 1.51 mg/l. These results are within the acceptable criteria for disposal as daily cover at disposal sites within New Hampshire. As such, the remedial alternative will be the excavation and off-site removal of soil contaminated with lead equal to or greater than 400 mg/kg.

4.2 Former Boiler and Packing Buildings Area

This area, in part, currently impacts jurisdictional Wetland G. The only alternative for mitigating the wetland impacts is to remove the fill from within the jurisdictional wetlands and return the wetlands to their natural condition. To that end, the solid waste will be removed and the concrete and brick will be consolidated (Figure 8) in place east of the wetland boundary or otherwise used as road base elsewhere on the property. Similarly, the sand, silt, clay, gravel and coal ash impacted soil will be encased in place.

4.3 Retention Basin #4 and Wetland H

The NHDES January 27, 2016 response to the Credere Phase II requested an ecological risk characterization or the remediation of areas with sediments impacted with lead above the ecological PEC. If an ecological risk characterization is proposed, the NHDES requires that this RAP include a description of how the EPA Sediment Quality Triad ecological risk assessment will be conducted. The purpose would be to determine whether lead in sediments from man-made Basin #4 and Wetland H are detrimentally impacting benthic or higher trophic organisms that may consume aquatic life. Benthic (meaning “bottom-dwelling”) organisms spend all or most of their time in water. Basin #4 is a waterbody that may sustain benthic organisms. Wetland H, however, is a distinct wetland area that does not retain surface water and thus cannot sustain benthic organisms. Also, relative to higher trophic organisms that may consume aquatic life, inorganic forms of lead do not bio-magnify within the food chain. Thus, the consumption of aquatic life from Basin #4 will not impact higher level trophic organisms. Even so, the sediment lead levels in Basin #4 are in excess of the ecological PEC for lead of 128 mg/kg. Given this, either an ecological assessment of lead impacts to benthic organisms living in Basin #4 must be performed or otherwise the sediments in Basin #4 must be remediated.

Given Wetland H does not sustain benthic organisms, lead does not bio-magnify, the strong adhesion characteristics of lead to soils, and laboratory results indicating lead concentrations in Wetland H being below the NHDES SRS, there is no beneficial justification for disturbing the wetland and associated flora for the sole purpose of removing lead impacted soils. Also, it is likely this area will be filled during the widening of the road. Thus, soils in Wetland H will not be removed and are not being considered while assessing remedial alternatives for this area.

As stated in the NHDES January 27, 2016 letter, “Depending on the volume of impacted sediment, a responsible party may determine it is more cost-effective to assume toxicity to organisms and move forward with remediation.” Similarly, as stated in the 2005 NHDES Evaluation of Sediment Quality Guidance Document, “it may be more efficient to initially skip the triad and move directly to remediation.” Given the cost of conducting an ecological risk assessment, and the uncertain outcome, sediments from Basin #4 will be remediated. There is no means of conducting in-situ encapsulation of the lead impacted sediments. As such, excavation of the sediments is recommended.

5.0 REMEDIAL ACTION PLAN

Site remediation activities will temporarily alter or eliminate site drainage features or other areas that involve wetlands which may trigger local, state or federal jurisdiction. Wetland permit applications will be prepared by Marc Jacobs, wetland scientist and submitted to the State of New Hampshire and Town of Exeter as appropriate prior to commencing excavation and remediation activities.

5.1 Former Greenhouse Area

Soil Excavation and Staging

Remedial actions in the Former Greenhouse Area will be completed by removing the largest pieces of concrete and metal (Photographs 13 and 14) and the material will be staged on 6 mil poly sheeting. Afterwards a pattern of 50 foot by 50 foot grids will be laid across the Former Greenhouse Area (Figure 9). Starting at the east end of the Former Greenhouse Area, soil will be removed to the native silt and clay (approximately 2 feet bgs) from each grid and stockpiled on 6 mil poly sheeting resulting in multiple, approximate 200 ton piles.

Any residual pieces of concrete and metal not previously removed will be staged separately. Representative composite soil samples will be collected from each stockpile and submitted to a NHDES certified laboratory for total lead analysis. Soil samples from stockpiles shown to contain total lead concentrations equal to or greater than the NHDES SRS of 400 mg/l will be further analyzed for the disposal parameters necessary for off-site disposal and transported from the staging area to the receiving facility. This will be ongoing, thus allowing for additional staging as the excavation in the Former Greenhouse Area continues west. Stockpiles shown to contain lead concentrations below 400 mg/kg will remain stockpiled for eventual reuse on site. All stockpiles will be covered with 6 mil poly sheeting until otherwise found to contain total lead levels below 400 mg/kg or while being removed for off-site disposal. It is estimated that 5,500 to 7,500 cubic yards of lead contaminated soil may need to be removed and transported off site for disposal.

The remediation of lead contaminated soils in the Former Greenhouse Area will result in the removal of man-made retention Basins #1, #2, and #3, which also contain lead contaminated soils. The fate of the metal and concrete will be determined as explained in Section 5.2, "Former Boiler and Packing Buildings Area," below.

Off-Site Disposal

A representative composite soil sample is required for every 200 tons of the first 2,000 tons of contaminated soil taken to the receiving facility. Representative composite soil samples will be collected for every 500 tons (or approximately every two soil piles) beyond the initial 2,000 tons. These samples will be analyzed for the disposal parameters dictated by the receiving facility and may include total RCRA metals, total volatiles and semi-volatiles, pesticides, herbicides, PCBs, ignitability, corrosivity, reactive sulfide and cyanide. After the first five rounds of sampling, if the data consistently reveals certain chemical compounds consistent with background conditions and there are no known sources, StoneHill recommends working with the receiving facility and the NHDES to have an agreement in place to assess whether the disposal parameters can be updated to better reflect actual site conditions. That is, if the stockpile results consistently reveal no semi-volatile or volatile organic compounds or ignitability, StoneHill will request the requirement of laboratory analyses for PAH, VOC, and ignitability be replaced by the use of a ppbRAE 3000 Photoionization Detector for the measurement of volatile organic compounds and ignitability and Oil IN Soil™, a colorimetric field test kit with a total petroleum hydrocarbon detection limit of 500 parts per million.

The contaminated stockpiles will be loaded and transported to the disposal facility via a non-hazardous waste manifest. If necessary, water will be sprayed over the remedial area to minimize the dust created during remedial activities. Further, steps will be taken to manage and maintain the loading area such that it remains clear of lead contaminated soil.

The Town of Exeter will be notified and the necessary town permits acquired and agreements with the receiving facility, including whether the laboratory data receiving parameters can be modified as recommended above, will be put in place prior to the start of the excavation of lead contaminated soils.

Post Excavation Sampling and Analyses

Simultaneous with the excavation and off-site disposal of the lead contaminated soils, several post excavation soil samples will be collected from within each grid to assess total lead using the XRF. Upon verification that the soils remaining in the grid are below 300 ppm as measured using the XRF, a confirmatory composite soil sample from each grid will be collected and submitted to a NH certified laboratory for total lead analyses. The grids will not be backfilled until the confirmatory total lead results for each grid are received by StoneHill, confirming the efficacy of the lead contaminated soil removal.

This RAP is specific to the removal and off-site disposal of up to 2 feet of loam from a large swath of the Former Greenhouse Area, the removal of which requires no post remedial backfilling for conformance with this RAP. If backfilling occurs it will be overseen by the construction contractor for the purposes of completing the residential construction as proposed in the pre-approved Exeter Town permits.

Once all the stockpiles are removed StoneHill will collect several surficial soil samples throughout the stockpile areas and perform field measurements for lead using the XRF. Any soil sample locations found to be in excess of 300 ppm will be excavated, stockpiled, sampled and submitted to a NH certified laboratory for total lead analysis. Stockpiles containing total lead levels equal to or in excess of 400 mg/kg will be further assessed for off-site disposal. The purpose is to assure the areas used for stockpiling the lead contaminated soils, even though protected by poly sheeting, were not contaminated by lead as a result of the stockpiling efforts.

5.2 Former Boiler and Packing Buildings Area

The primary strategy in this area, which currently impacts jurisdictional wetlands downslope to the west of the BPB Area, is to remove an estimated 1,100 cubic yards of fill from the wetlands and the adjacent slope such that the area between Oak Street Extension and the wetlands can be graded to the specifications proposed by MSC in their construction plans and as further described in the Wetland Restoration Program prepared by Marc Jacobs. The final construction of the banking will be completed by the construction contractor as specified by MSC. This RAP is specific to the removal and disposal, as necessary, to allow MSC to meet those slope specifications and to assure that fill remaining in the final slope is properly encapsulated as detailed below. Erosion and siltation control measures will be implemented to contain potential

migration of sediment into the wetland.

For disposal purposes, any material removed from the BPB Area will be sifted, likely resulting in the creation of four piles of differing materials, including:

1. Metal debris
2. concrete and brick,
3. plastics and white goods (such as couches and mattresses), and
4. fill containing coal ash.

These materials will be stockpiled separately west of the Former Greenhouse Area.

Metal Debris

The metal debris will be transported off-site to a recycling facility or a solid waste landfill.

Concrete and Brick

The proper management of solid waste and the facilities that collect, process and dispose of solid waste such as concrete and brick are regulated per Env-Sw 100-2100 and is overseen by the NHDES Solid Waste Management Bureau (SW Bureau). As per NHDES Env-Sw 103.26ⁱⁱ, concrete and brick are considered inert construction and demolition debris. Thus, per NHDES Env-Sw 302.03(b)(9)ⁱⁱⁱ, the disposal of waste concrete, cement, and brick does not require a permit from the SW Bureau if the material meets the specifications outlined in that section of the regulation and the disposal occurs after March 30, 1999. The specifications include concrete and brick that was derived from waste materials, is fully cured, and will not leach. The concrete and brick is cured and not expected to leach as confirmed via the groundwater analytical data as previously discussed.

Further, per NHDES Env-Sw 810.04^{iv}, *“On-site Asphalt and Masonry Debris Landfills,”* On-site concrete fill does not need to be removed if it is located at least 75 feet from surface waters and at least 4 feet above the mean high water table (presumably to avoid inundating the material, thus causing the potential for chemicals from the material to leach and impact nearby surface and groundwater). Given this, any concrete and brick noted in the banking (75 feet and more from Norris Brook) that does not need to be removed to implement the proposed grade, may be left in place if doing so results in less damage to the surrounding wetland flora.

Exeter Rose intends to remove concrete from wetland areas and as much of the concrete and brick from the banking as necessary to open the area west of the BPB Area to allow for a properly engineered slope beyond the west side of Oak Street Extension. Concrete and brick that is removed will be pulverized and re-used, if engineering specifications allow, in a base material mix placed beneath roads constructed throughout the property. Residual concrete and brick not re-used beneath roadways will be pulverized and re-used on-site as necessary with the understanding that the material will be buried 2 feet and more bgs, 4 feet above mean high groundwater, and 75 feet from the water bodies. Concrete removed from the Former Greenhouse Area will be similarly re-used.

Plastics and White Goods

The pile of plastic and white goods will be separated between waste types such as tires, couches/mattresses, plastics, etc. or a combination thereof as applicable to the specific disposal facility and transported off-site to facilities accepting the specific types of materials for disposal or recycling.

Soil Containing Coal Ash

In their January 27, 2016 letter to the Commission the NHDES stated that the coal ash did not meet the definition of background per NHDES ENV-Or 602.03(c) which states that [Background] means the concentration of a chemical...that is ubiquitous and consistently present at or in the vicinity of the site such as chemicals associated with: (a) Coal ash associated with fill material and (c) Asphalt pavement. The NHDES specifically stated that the concentrations of arsenic and PAHs were associated with the coal ash and that these two chemicals were not “ubiquitous and consistently present at or in the vicinity of the site.”

However, as previously stated the arsenic is consistent with background conditions and further, given the low levels of arsenic in the coal ash samples, not associated with the coal ash. Also, the PAHs are not pyrogenic and are considered the result of asphalt in the samples and thus also not associated with the coal ash. Further, the soil boring and test pit logs indicate the fill to be a mixture of sand, gravel and coal ash as identified in samples collected throughout the bank, revealing that the coal ash is universal throughout the fill used in the area. Further, no other PAHs or metals identified in the soil samples containing coal ash were above the NHDES SRS Standards. Given the PAHs in excess of the NHDES SRS Standards are chemicals associated with asphalt, the PAHs are considered background, and no other chemicals were noted above NHDES SRS, the soil containing coal ash that is not removed to meet the engineers specifications, will be left in place. The area will be covered with a minimum of two feet of clean fill or a geotextile fabric and one foot of riprap and graded as required per engineering specifications and Env-Sw 810.03(f)(1) and (2)^v. Soil containing coal ash removed from the northern portion of the embankment (slated as a residential lot) will be returned to the embankment, as feasible, prior to the encapsulation discussed above. Any soil containing coal ash that is not encapsulated in this manner will be transported off-site to a facility for recycling as a raw material for commercial and/or industrial purposes.

As stated, the coal ash that remains in place over the westerly embankment of the BPB Area will be covered with a moisture barrier and 2 feet of clean fill if the final pitch of the westerly slope allows. If the final finish ground surface grade is too steep to allow for 2 feet of soil, the material will be covered with a geotextile fabric and one foot of 4-inch minimum diameter rip-rap. The final finish ground surface grade will be no steeper than 2 horizontal to 1 vertical (2H:1V).

The laboratory results for samples collected throughout this area were indicative of background concentrations or below NHDES SRS standards and thus there is no known risk associated with the material. However, as per Env-Sw 810.03(c), (e) and (f)(3) and (4)^{vi}, required monitoring and maintenance will be included in the condominium association activity and use restriction relative to any fill left in place and encapsulated by either of these two means. As referenced in the above stated regulations, the purpose of including monitoring, maintenance, and use restrictions will be

to assure the area is regularly inspected to assess the integrity of the bank and cover material and to implement repairs if necessary.

5.3 Retention Basin #4 and Wetland H

The remediation of sediments within Basin #4 will require dewatering and excavation. A surface water sample (CA-SW-100) from Basin #4, collected by Credere on August 6, 2015, was analyzed for VOCs, SVOCs, pesticides, RCRA 8 metals, and hardness. No contaminants were reported above their respective laboratory method detection limits. Given no obvious changes in conditions at the site, this sample is considered indicative of current surface water conditions in Basin #4 and thus the quality of the surface water presents no concern to dewatering.

A NHDES Groundwater Discharge Permit will be obtained and Basin #4 will be hydraulically isolated and dewatered onto the western portion of the Former Greenhouse Area. The discharge will be contained to the known areas of lead contamination in the Former Greenhouse Area via the use of bales and other erosion control measures per instruction of Marc Jacobs, Certified Professional in Erosion and Sediment Control. Given lead is highly adsorbed to soil, the low leaching potential as noted by the TCLP lead data from the Former Greenhouse Area, and the soil samples collected in the Former Greenhouse Area between 18" and 24" revealed little lead impacts (20.1 mg/kg), it is unlikely dewatering onto the lead contaminated soils in the Former Greenhouse Area will change the soil conditions, impact groundwater, or otherwise prevent soil remediation in that area.

Once dewatering allows for sufficient access to the sediments, excavating within Basin #4 will begin. One to two feet of lead impacted sediment will be removed and separated into 200 ton stockpiles. A composite sample will be collected from each pile and submitted for laboratory analysis of total lead. Stockpiles found to contain total lead below the NHDES SRS standard will be re-used on site. Piles found to contain total lead equal to or above the NHDES SRS for lead will be resampled for disposal parameters and disposed off-site. Post excavation sediment samples will be collected from within Basin #4, and analyzed for total lead. Remedial actions will continue until lead concentrations within Basin #4 are below the ecological PEC for lead of 128 mg/kg as confirmed via laboratory analyses.

5.4 Implementation Schedule

Ideally, all permits and approvals would be in place to begin excavation activities in the Spring of 2018 and complete the field activities associated with the RAP prior to the Winter of 2019.

6.0 LIMITATIONS

This Supplemental Site Investigation Report and Remedial Action Plan was prepared to further assess site conditions and to propose remedial actions for contamination in the Former Greenhouse Area, management of fill in the BPB Area, and to propose an approach to address sediment impacts in man-made drainage Basin #4 and Wetland H at the former Dagostino Rose Farm, Oak Street Extension, Exeter, NH. This plan is not intended to be a complete

environmental site assessment, audit or industrial hygiene survey which would ascertain compliance with federal and state regulations other than those explicitly stated herein.

The information provided in this report is based upon personal interviews and research of publically available documentation, field investigations, records and maps. Therefore, the information in this report is subject to the limitations of historical documentation, the availability and accuracy of pertinent data analyses, records, and the personal recollection of the persons interviewed during the course of the investigation. The information presented in this report is applicable only to the dates of the records and lists reviewed as indicated within.

It should be noted that the findings and conclusions of this report do not constitute scientific certainties, but rather probabilities based upon our professional judgement concerning data gathered during the course of the investigation. Information potentially obtained during further investigative activities, which were beyond the scope of the work completed for this report, could result in a modification of the findings stated above. This report has been prepared in accordance with generally accepted remedial action plan preparation practices and a degree of care and skill exercised by other environmental consulting firms undertaking similar studies at the same time in the same geographical area. No other warranty, expressed or implied, is made.

ⁱ Env-Or 602.03 "Background" means the concentration of a chemical in the environment that would exist at a site in the absence of a discharge, including chemicals that are ubiquitous and consistently present at or in the vicinity of the site such as: (a) Coal or wood ash associated with fill material; (b) Petroleum residues that are incidental to the normal operation of motor vehicles; (c) Asphalt pavement and petroleum compounds contained in associated sub-base materials...

ⁱⁱ ENV-Sw 103.26 "Inert construction and demolition debris means construction and demolition debris which is comprised of materials that do not degrade, combust or generate leachate."

ⁱⁱⁱ ENV-Sw 302.03(b)(9) – Solid Waste Exemptions, "no permit shall be required to: Collect, store, transfer, process, treat, or dispose of waste concrete, cement, brick, or other inert masonry materials, or bituminous concrete, provided that..." the waste is actively managed in a way that complies with Env-Sw 1000, is derived from virgin materials, are fully cured, will not leach contaminants to ground or surface waters, the asphalt is not pulverized, and the activity occurs after March 30, 1999.

^{iv} Env-Sw 810.04 – Effective as of October 29, 1997, asphalt and masonry debris buried at the waste generation site shall not be required to be removed provided that the facility buried the following wastes only: Fully cured asphalt, concrete, brick and cement, the asphalt is not pulverized, and the material is buried 4 feet above seasonal high water table and 75 feet from surface waters and water supply wells.

^v Env-Sw 810.03(f) Exemption Conditions – All permit-exempt landfills shall... place at least 2 feet of clean, compacted soil as a final cover over the material and the cover be, "graded, seeded and mulched to produce and sustain vegetative growth, or otherwise stabilized to prevent erosion."

^{vi} Env-Sw 810.03 Exemption Conditions – The owner of the property on which exists a permit-exempt landfill shall be designated as the permittee and subject to the requirements of the permit exemption as well as prevent dumping, regularly inspect the integrity of the cover, check for sinkholes or otherwise check that the area is protective of human health and environment, and implement repairs as necessary.

FIGURES

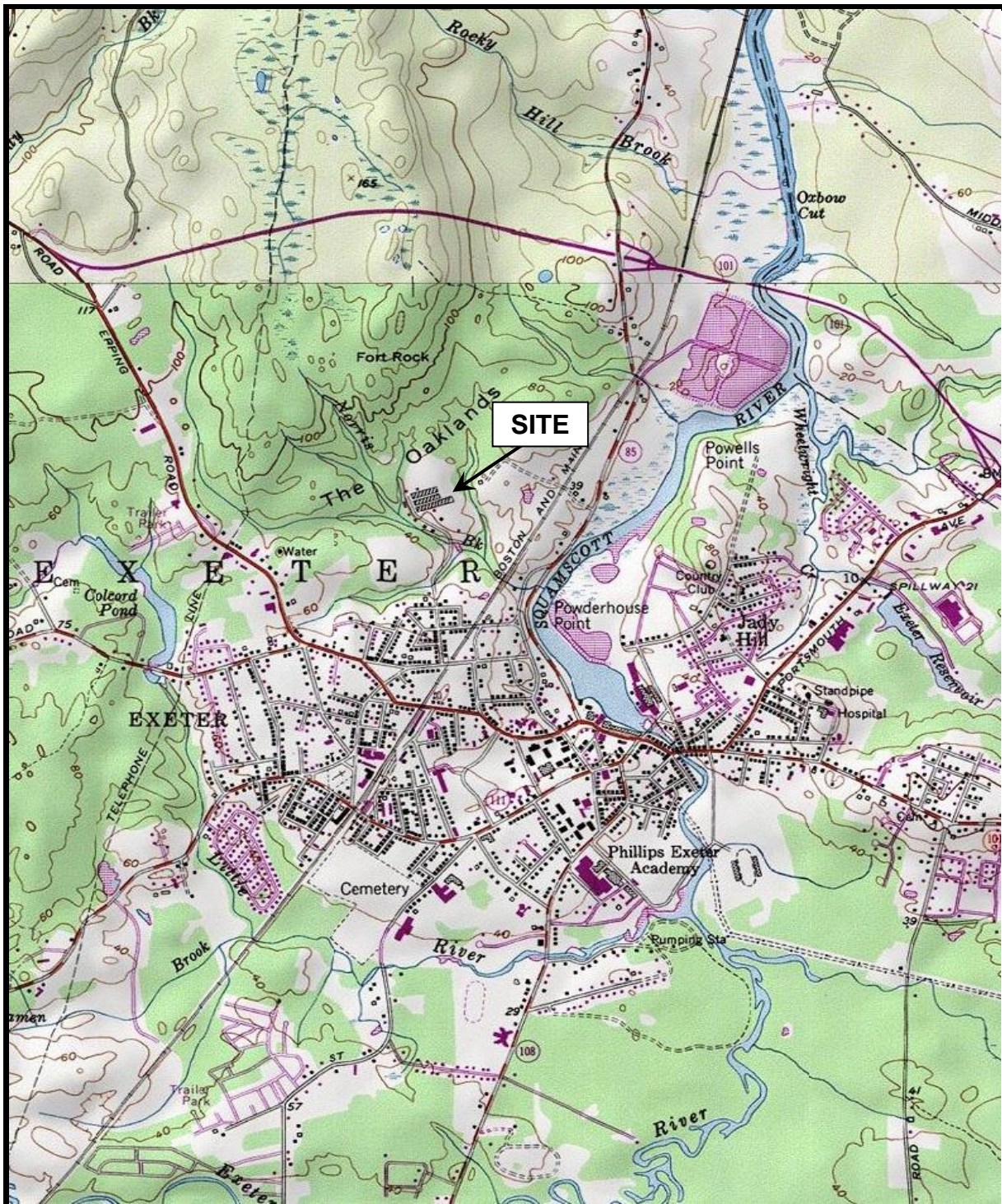


FIGURE 1

SITE LOCATION MAP

Dagostino Rose Farm
Oak Street Extension
Exeter, NH

Prepared by:
StoneHill Environmental, Inc.
Project No. 15046

0 2000 4000

approximate scale in feet
Contour Interval 10 feet

Map Source:
USGS 7.5 Minute
Topographic Quadrangle
Exeter, NH



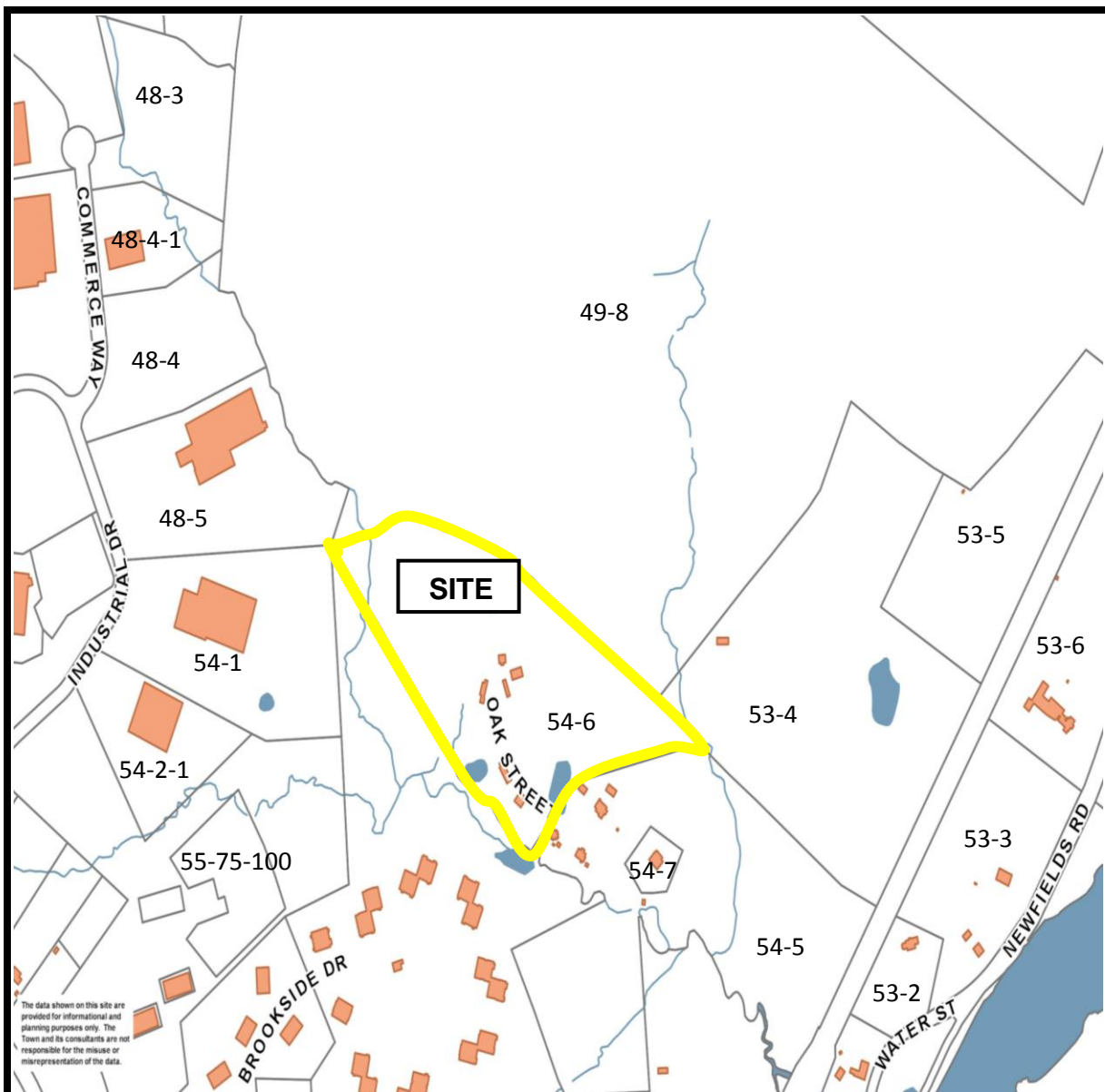


FIGURE 2

TAX MAP

**Oak Street Extention
Exeter, NH**

**Prepared by:
StoneHill Environmental, Inc.
Project No. 15046**

0 660 1320

approximate scale in feet



**Map Source:
Town of Exeter, NH
Tax Assessor's Map**

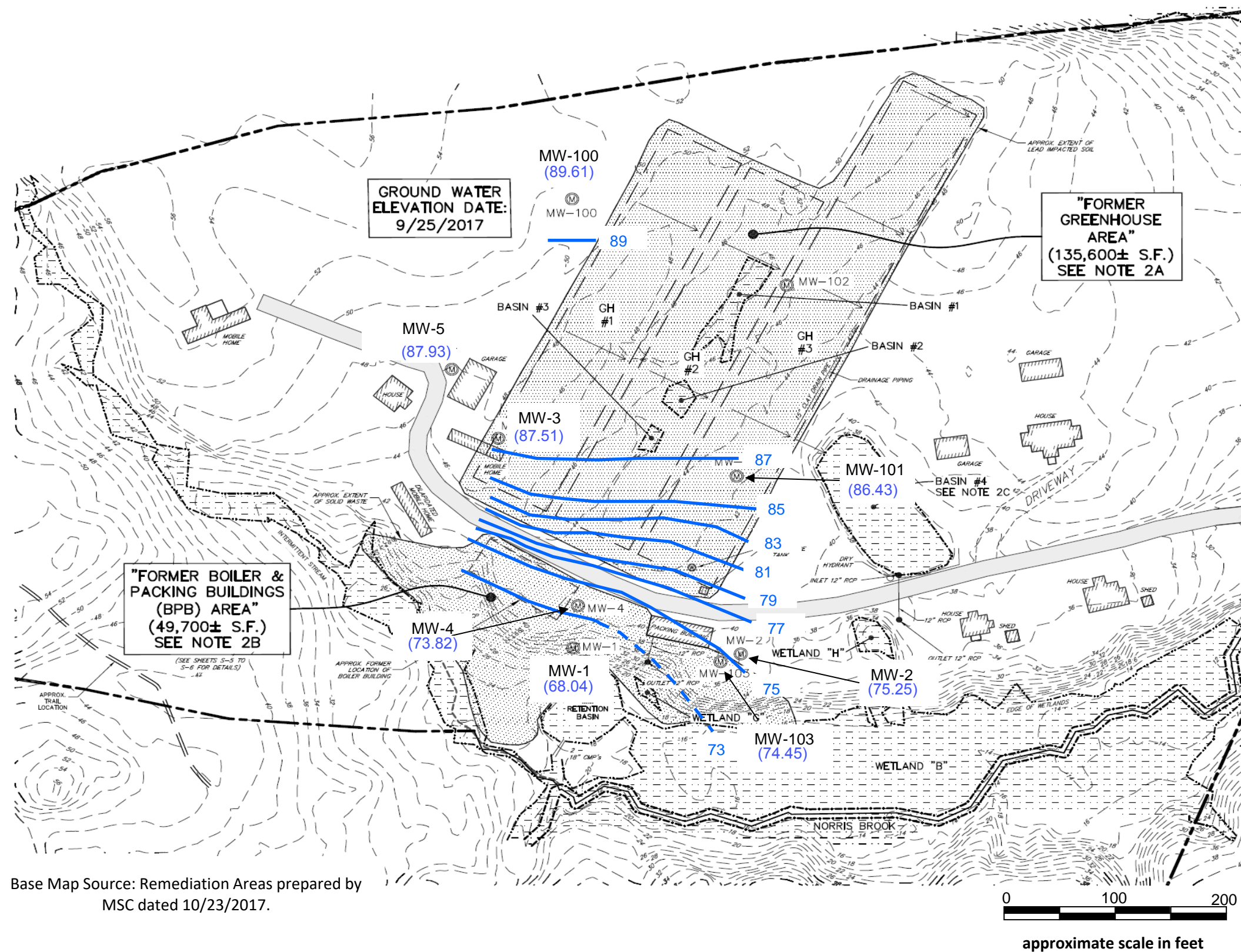


FIGURE 4
GROUNDWATER CONTOUR PLAN
(September 25, 2007)

Dagostino Rose Farm
Oak Street Extension
Exeter, NH

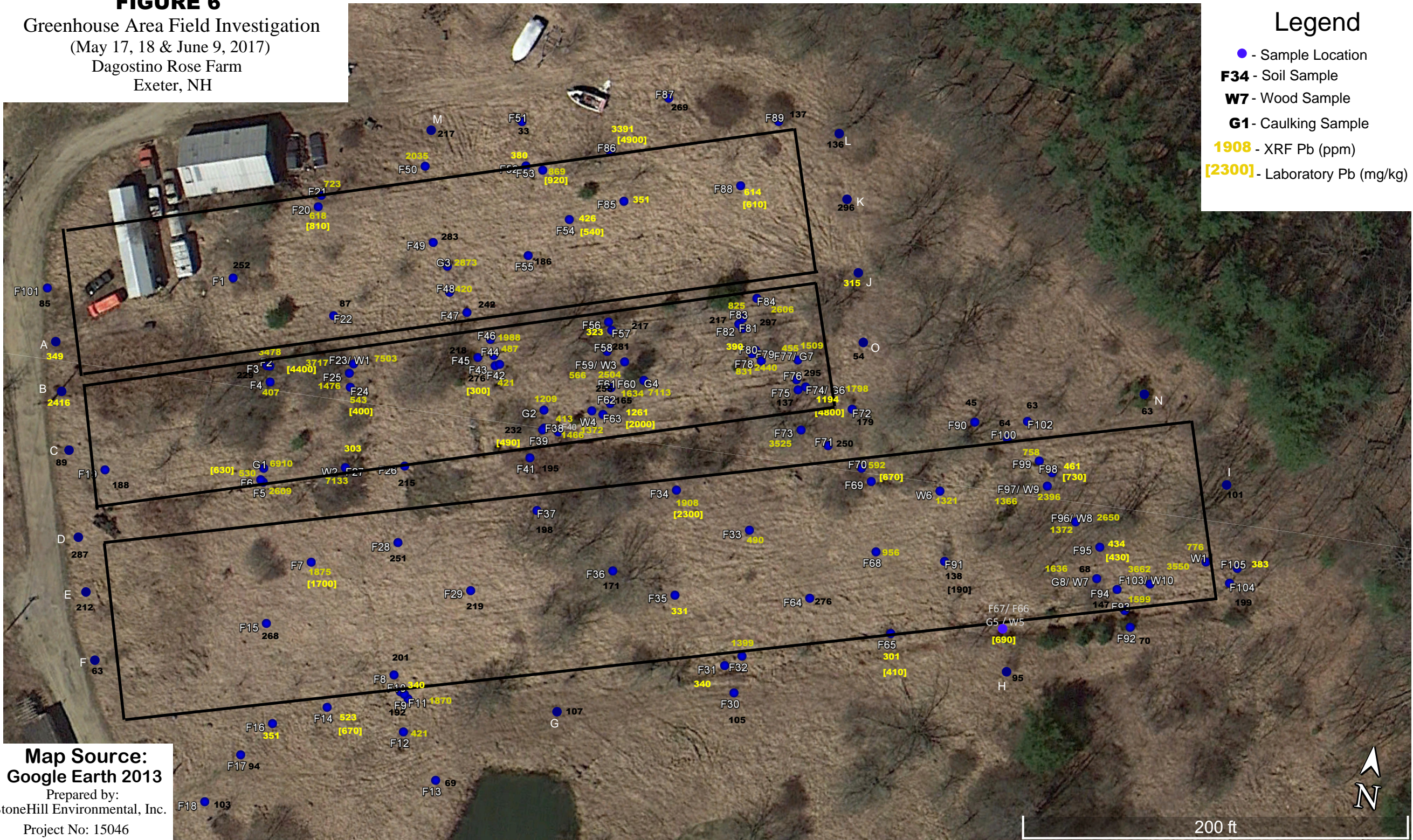
Prepared by:
StoneHill Environmental, Inc.
Project No. 15046

Base Map Source: Remediation Areas prepared by
MSC dated 10/23/2017.

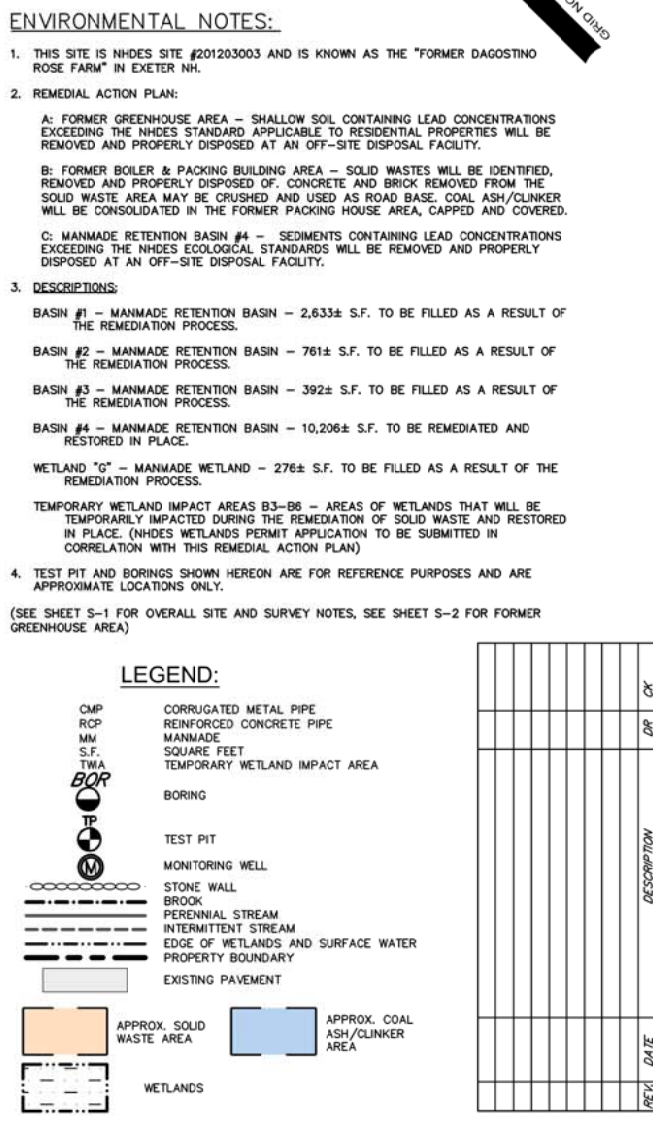


Greenhouse Area Field Investigation
(May 17, 18 & June 9, 2017)
Dagostino Rose Farm
Exeter, NH

- - Sample Location
- F34** - Soil Sample
- W7** - Wood Sample
- G1** - Caulking Sample
- 1908** - XRF Pb (ppm)
- [2300]** - Laboratory Pb (mg/kg)



StoneHill Environmental, Inc.



BPB Area Pre-consolidation

"FORMER DAGOSTINO ROSE FARM"

OK STREET EXTENSION

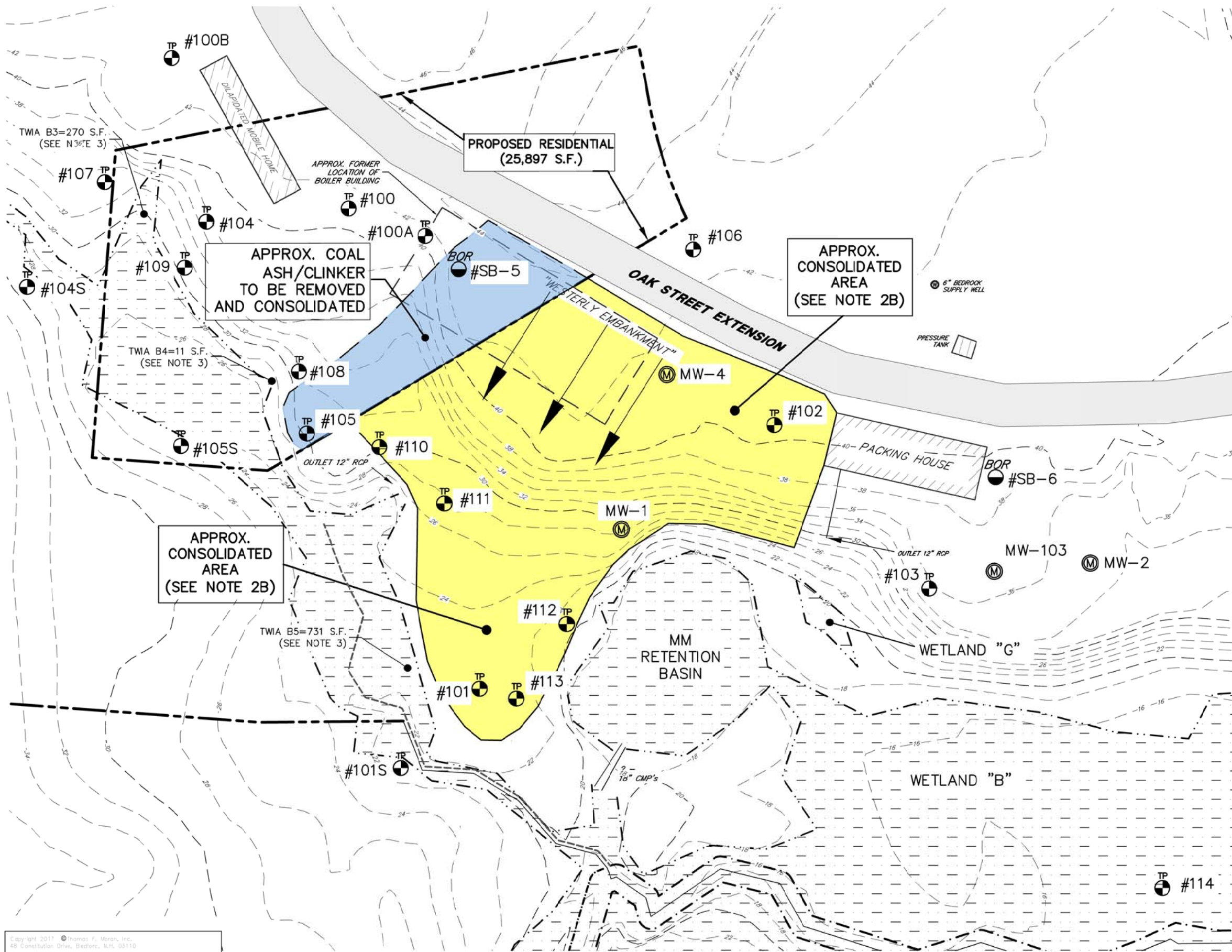
EXETER, NEW HAMPSHIRE, COUNTY OF ROCKINGHAM

OWNED BY

EXETER ROSE FARM, LLC

PREPARED FOR

EXETER ROSE FARM, LLC



ENVIRONMENTAL NOTES:

- THIS SITE IS NHDES SITE #201203003 AND IS KNOWN AS THE "FORMER DAGOSTINO ROSE FARM" IN EXETER, NH.
- REMEDIAL ACTION PLAN:
 - A: FORMER GREENHOUSE AREA - SHALLOW SOIL CONTAINING LEAD CONCENTRATIONS EXCEEDING THE NHDES STANDARD APPLICABLE TO RESIDENTIAL PROPERTIES WILL BE REMOVED AND PROPERLY DISPOSED AT AN OFF-SITE DISPOSAL FACILITY.
 - B: FORMER BOILER & PACKING BUILDING AREA - SOLID WASTES WILL BE IDENTIFIED, REMOVED AND PROPERLY DISPOSED OF. CONCRETE AND BRICK REMOVED FROM THE SOLID WASTE AREA MAY BE CRUSHED AND USED AS ROAD BASE. COAL ASH/CLINKER WILL BE CONSOLIDATED IN THE FORMER PACKING HOUSE AREA, CAPPED AND COVERED.
 - C: MANMADE RETENTION BASIN #4 - SEDIMENTS CONTAINING LEAD CONCENTRATIONS EXCEEDING THE NHDES ECOLOGICAL STANDARDS WILL BE REMOVED AND PROPERLY DISPOSED AT AN OFF-SITE DISPOSAL FACILITY.
- DESCRIPTIONS:
 - BASIN #1 - MANMADE RETENTION BASIN - 2,633± S.F. TO BE FILLED AS A RESULT OF THE REMEDIATION PROCESS.
 - BASIN #2 - MANMADE RETENTION BASIN - 761± S.F. TO BE FILLED AS A RESULT OF THE REMEDIATION PROCESS.
 - BASIN #3 - MANMADE RETENTION BASIN - 392± S.F. TO BE FILLED AS A RESULT OF THE REMEDIATION PROCESS.
 - BASIN #4 - MANMADE RETENTION BASIN - 10,206± S.F. TO BE REMEDIATED AND RESTORED IN PLACE.
 - WETLAND "G" - MANMADE WETLAND - 276± S.F. TO BE FILLED AS A RESULT OF THE REMEDIATION PROCESS.
 - TEMPORARY WETLAND IMPACT AREAS B3-B6 - AREAS OF WETLANDS THAT WILL BE TEMPORARILY IMPACTED DURING THE REMEDIATION OF SOLID WASTE AND RESTORED IN PLACE. (NHDES WETLANDS PERMIT APPLICATION TO BE SUBMITTED IN CORRELATION WITH THIS REMEDIAL ACTION PLAN)
- TEST PIT AND BORINGS SHOWN HEREON ARE FOR REFERENCE PURPOSES AND ARE APPROXIMATE LOCATIONS ONLY.
(SEE SHEET S-1 FOR OVERALL SITE AND SURVEY NOTES, SEE SHEET S-2 FOR FORMER GREENHOUSE AREA)

LEGEND:

CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
MM	MANMADE
S.F.	SQUARE FEET
TWA	TEMPORARY WETLAND IMPACT AREA
BOR	BORING
TP	TEST PIT
M	MONITORING WELL
○	STONE WALL
—	BROOK
—	PERENNIAL STREAM
—	INTERMITTENT STREAM
—	EDGE OF WETLANDS AND SURFACE WATER
—	PROPERTY BOUNDARY
—	EXISTING PAVEMENT
■	APPROX. COAL ASH/CLINKER TO BE REMOVED
■	APPROX. CONSOLIDATED AREA
—	WETLANDS

REV.	DATE	DESCRIPTION

BPB Area Post-consolidation
"FORMER DAGOSTINO ROSE FARM"
OAK STREET EXTENSION
EXETER, NEW HAMPSHIRE, COUNTY OF ROCKINGHAM

OWNED BY
EXETER ROSE FARM, LLC
 PREPARED FOR
EXETER ROSE FARM, LLC

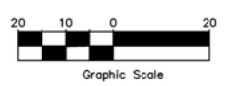
SCALE: 1"=20' **OCTOBER 23, 2017**

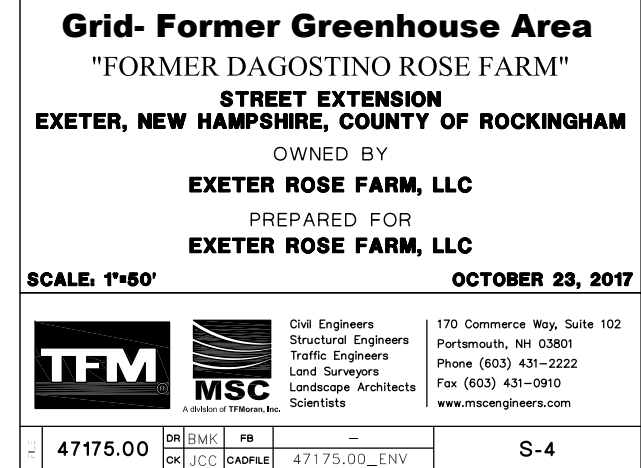
TFM	MSC <small>A Division of TFM/Man, Inc.</small>	Civil Engineers	170 Commerce Way, Suite 102 Portsmouth, NH 03801 Phone (603) 431-2222 Fax (603) 431-0910 www.mscengineers.com
		Structural Engineers Traffic Engineers Land Surveyors Landscape Architects Scientists	

47175.00	DR	BMK	FB	—	S-6
OK	JCC	CADFILE	47175.00_ENV		

Oct 23, 2017 - 4:26pm
F:\MSC Projects\47175 - Oak Street Extension - Exeter\47175.00 - Baker Properties\Drawings\ENVIRONMENTAL\47175-00_Detail.dwg

Copyright 2017 © Thomas F. Moran, Inc.
48 Constitution Drive, Bedford, N.H. 03110
All rights reserved. These plans and materials may not be copied, duplicated, replicated or otherwise reproduced in any form whatsoever without the prior written permission of Thomas F. Moran, Inc.
This plan is not effective unless signed by a duly authorized officer of Thomas F. Moran, Inc.





TABLES

Table 1
Summary of Groundwater Elevation Data
 Dagostino Rose Farm
 Oak Street Extension, Exeter, NH

Monitoring Well	Well Depth (feet bgs)	Well Screen (feet bgs)	Top of Casing Elevation ¹	Measurement Date	Depth to Groundwater ² (feet)	Groundwater Elevation
MW-1	27.41	17-27	92.01	9/23/2016	Dry	N/A
				8/4/2017	21.14	70.87
				8/10/2017	21.39	70.62
				9/25/2017	23.97	68.04
MW-2	19.96	10-20	86.76	9/23/2016	12.19	74.57
				8/4/2017	NM	NM
				8/10/2017	10.92	75.84
				9/25/2017	11.51	75.25
MW-3	17.31	7-17	98.96	9/23/2016	12.88	86.08
				8/4/2017	10.31	88.65
				8/10/2017	10.60	88.36
				9/25/2017	11.45	87.51
MW-4	27.18	17-27	93.14	9/23/2016	19.88	73.26
				8/4/2017	NM	NM
				8/10/2017	NM	NM
				9/25/2017	19.32	73.82
MW-5	17.35	7-17	100.00	9/23/2016	13.50	86.50
				8/4/2017	10.67	89.33
				8/10/2017	10.90	89.10
				9/25/2017	12.07	87.93
MW-100	14.35	5-15	101.63	8/6/2015	11.00	90.63
				4/29/2016	5.55	96.08
				9/23/2016	13.46	88.17
				8/4/2017	9.22	82.12
				8/10/2017	10.73	80.61
				9/25/2017	12.02	89.61
MW-101	11.65	2-12	91.34	8/6/2015	4.55	86.79
				4/29/2016	2.70	88.64
				9/23/2016	6.33	85.01
				8/4/2017	4.43	86.91
				8/10/2017	4.62	86.72
				9/25/2017	4.91	86.43
MW-102	14.45	5-15	94.60	8/6/2015	9.45	85.15
				4/29/2016	3.40	91.2
				9/23/2016	13.72	80.88
				8/4/2017	NM	NM
				8/10/2017	8.80	85.80
				9/25/2017	11.78	82.82
MW-103	20.35	10-20	87.60	4/29/2016	11.25	76.35
				9/23/2016	14.37	73.23
				8/4/2017	NM	NM
				8/10/2017	NM	NM
				9/25/2017	13.15	74.45

Notes:¹MW-5 - Arbitrary Bench Mark set to 100 ft.²Elevation data collected prior to 8/4/2017 collected by Credere Associates, LLC

Depths measured from top of riser

NM = Not measured

N/A = Not applicable

bgs- below ground surface

TABLE 2

Former Greenhouse Area Field Investigation

XRF Lead Results

(May 17 & 18, 2017)

Dagostino Rose Farm

Oak Street Extension, Exeter, NH

Sample Location	Coordinates	Field Samples XRF Lead Results (mg/kg)	Re-Sampled for Laboratory Analysis?
F1	42° 59' 28.95" -70° 57' 27.61"	s-226 6"-252 concrete	--
F2	28.53 27.27	s-3478 concrete	--
F3	28.53 27.29	s-229 6"-217	--
F4	28.45 27.25	s-407	--
F5	27.94 27.20	s-2609 concrete	--
F6	27.95 27.22	s-638 6"-448	yes
G1 glaze	28.01 27.21	6910	--
F7 glaze	27.57 26.79	s-898 6"-1574 12"-582 (clay)	yes
F8	27.06 26.11	s-141 6"-201	--
F9	26.97 26.02	s-134 6"-192	--
F10	26.98 26.05	s-340 concrete	--
F11	26.95 25.99	s-644 6"-600 8-10"-1870 12"-1059	--
F12	26.78 25.99	s-421 6"-411	--
F13	26.56 25.72	s-69 6"-26	--
F14	26.85 26.54	s-393 concrete	yes
F15	27.23 27.04	s-249 6"-268	--
F16	26.73 26.90	s-322 6"-351 concrete	--
F17	26.55 27.09	s-81 6"-94	--
F18	26.29 27.29	s-93 6"-103	--
F19	27.89 28.31	s-103 6"-188	--
F20	29.37 27.09	6"-702	yes
F21	29.43 27.08	s-446 4"-723	--
F22	28.83 26.88	s-87 concrete	--

Sample Location	Coordinates	Field Samples XRF Lead Results (mg/kg)	Re-Sampled for Laboratory Analysis?
W1	28.60 26.69	7503	--
F23	28.60 26.69	s-3197 concrete	yes
F24	28.48 26.69	s-552 6"-315	yes
F25	28.55 26.71	s-1476 concrete	--
F26	28.12 26.24	s-191 6"-215 concrete	--
W2	28.07 26.65	7133	--
F27	28.07 26.65	6"-303	--
F28	27.73 26.21	s-234 3"-251 concrete	--
F29	27.54 25.66	s-194 6"-219	--
F30	27.21 23.75	s-105	--
F31	27.34 23.84	s-340	--
F32	27.40 23.73	s-1399	--
F33	28.04 23.80	s-490 6"-472	--
F34	28.19 24.34	s-1187 6"-1536 12"-515	yes
F35	27.66 24.25	s-331	--
F36	27.74 24.70	6"-171	--
F37	27.99 25.24	s-198 6"-185	--
F38	28.40 25.21	s-413 concrete	--
G2	28.50 25.33	1209	--
F39	28.40 25.32	278	yes
F40 glass	28.41 25.31	1466	--
F41 glass	28.25 25.38	s-195 6"-99	--
F42	28.70 25.68	421	--
F43	28.69 25.71	s-690 6"-351	yes
F44	28.74 25.73	s-487	--
F45	28.72 25.84	s-218 6"-91	--
F46	28.82 25.77	s-1988 concrete	--
F47	28.94 25.96	s-243	--

Sample Location	Coordinates	Field Samples XRF Lead Results (mg/kg)	Re-Sampled for Laboratory Analysis?
F48	29.03 26.10	s-219 6"-420 12"-177	--
G3	29.16 26.14	2873	--
F49	29.27 26.26	s-185 6"-283 concrete	--
F50	29.65 26.39	s-1256 3-6"-2023 8"-2035	--
F51	29.94 25.76	s-33 6"-15	--
F52	29.72 25.69	s-380 concrete	--
F53	29.71 25.57	s-690 6"-470	yes
F54	29.48 25.34	s-410 6"-223	yes
F55	29.27 25.59	s-186	--
F56	28.99 24.97	s-323	--
F57	28.95 24.94	s-172 6"-217	--
F58	28.84 24.95	s-281	--
W3	28.80 24.82	2504	--
F59	28.80 24.82	s-511 3"-566 concrete	--
G4	28.72 24.67	7113	--
F60	28.72 24.67	3"-1634 concrete	--
F61	28.66 24.89	s-255 6"-142	--
F62	28.58 24.88	s-165	--
F63	28.52 24.92	s-1088	yes
W4	28.53 25.00	1372	--
F64	27.74 23.32	2"-255 6"-276	--
F65	27.62 22.73	s-292 6"-313	yes
F66	N/A	s-690	--
F67	N/A	s-144	--
G5	N/A	3235	--
W5	N/A	11300	--
F68	28.02 22.91	s-956 6"-744 concrete	--
F69	28.37 23.01	s-262	--

Sample Location	Coordinates	Field Samples XRF Lead Results (mg/kg)	Re-Sampled for Laboratory Analysis?
F70	28.43 23.09	s-410 6"-395	yes
F71	28.52 23.34	s-227 6"-250 concrete	--
F72	28.72 23.21	s-179 12"-88	--
F73	28.58 23.54	s-1315 6"-3525 12"-2837	--
G6	28.80 23.55	1798	--
F74	28.80 23.55	s-801	yes
F75	28.78 23.60	s-137 concrete	--
F76	28.83 23.62	s-295	--
F77	28.93 23.63	s-455	--
G7	28.93 23.63	1509	--
F78	28.90 23.88	s-831 concrete	--
F79	28.95 23.93	s-2440	--
F80	28.93 23.95	s-390	--
F81	29.07 24.07	s-297	--
F82	29.05 24.04	s-108 6"-217	--
F83	29.10 24.05	s-825	--
F84	29.21 23.97	s-2606	--
F85	29.61 24.98	s-351 6"-258 concrete	--
F86	29.85 25.12	s-1941 6"-3712	yes
F87	30.16 24.77	s-269 6"-126	--
F88	29.77 24.19	s-445 6"-460 concrete	yes
F89	30.12 23.99	s-137 6"-48	--
F90	28.74 22.36	s-40 6"-pond water 45	--
W6	28.37 22.53	1321	--
F91	28.02 22.43	136 concrete	yes
F92	27.82 21.10	s-70	--
F93	27.90 21.15	s-540 6"-1599	--
F94	28.00 21.22	s-147	--
G8	28.04 21.37	1636	--

Sample Location	Coordinates	Field Samples XRF Lead Results (mg/kg)	Re-Sampled for Laboratory Analysis?
W7	28.04 21.37	68	--
F95	28.20 21.38	s-246 6"-307 concrete	yes
F96	28.31 21.57	s-1372	--
W8	28.31 21.57	2650	--
F97	28.47 21.80	s-1366	--
W9	28.47 21.80	2396	--
F98	28.54 21.78	s-346 6"-431 12"-263	yes
F99	28.59 21.88	s-758	--
F100	28.68 22.12	s-64 6"-18	--
F101	28.77 21.99	s-85 6"-81	--
F102	28.78 22.00	s-43 6"-63	--
F103	28.05 21.00	3662	--
W10	28.05 21.00	3550	--
F104	28.11 20.46	s-168 6"-199	--
F105	28.19 20.42	s-383	--
W11	28.20 20.64	776	--
F106	N/A	s-966 6"-1262	--
A	N/A	349	--
B	N/A	2416	--
C	N/A	89	--
D	N/A	287	--
E	N/A	212	--
F	N/A	63	--
G	N/A	107	--
H	N/A	95	--
I	N/A	101	--
J	N/A	315	--
K	N/A	296	--
L	N/A	136	--
M	N/A	217	--
N	N/A	63	--
O	N/A	54	--

Notes:

Field results measured using a Thermofisher Niton XL3t GOLDD+ XRF

mg/kg = milligrams per kilogram

s = Surface sample

6" = depth below ground surface

N/A =not available

"yes" = Sample locations resampled and submitted for laboratory confirmation

"--" = Sample locations not resampled for laboratory confirmation

TABLE 3Former Greenhouse Area Field Investigation
XRF and Laboratory Data Results for Lead

(May 17 & 18, 2017)

Dagostino Rose Farm

Oak Street Extension, Exeter, NH

Sample Location	Coordinates	Field Results from Prior Samples (mg/kg)	Field Results of New Samples (mg/kg)	Laboratory Results of New Samples (mg/kg)
F6	42° 59' 27.95" -70° 57' 27.22"	s-638 6"-448	530	630
F7 glass	27.57 26.79	s-898 6"-1574 12"-582 (clay)	1875	1700
F14	26.85 26.54	s-393	523	670
F20	29.37 27.09	6"-702	618	810
F23	28.60 26.69	s-3197	3717	4400
F24	28.48 26.69	s-552 6"-315	543	400
F34	28.19 24.34	s-1187 6"-1536 12"-515	1908	2300
F39	28.40 25.32	278	232	490
F43	28.69 25.71	s-690 6"-351	276	300
F53	29.71 25.57	s-690 6"-470	869	920
F54	29.48 25.34	s-410 6"-223	426	540
F63	28.52 24.92	s-1088	1261	2000
F65	27.62 22.73	s-292 6"-313	301	410
F70	28.43 23.09	s-410 6"-395	592	670
F74	28.80 23.55	s-801	1194	4800
F86	29.85 25.12	s-1941 6"-3712	3391	4900
F88	29.77 24.19	s-445 6"-460	614	610
F91	28.02 22.43	136	138	190
F95	28.20 21.38	s-246 6"-307	434	430
F98	28.54 21.78	s-346 6"-431 12"-263	461	730

SAMPLES OF SILTY CLAY (June 2, 2017)			
Sample Location	Coordinates	Sample Depth (inches)	Laboratory Results (mg/kg)
F11	26.95 25.99	24	20.1
F23	28.60 26.69	24	4.99
F40	28.41 25.31	18-20	10
F86	29.85 25.12	18-20	10.6

Notes:

Field results measured using a Thermofisher Niton XL3t GOLDD+ XRF
 Sample locations identified in Table 2 were resampled and submitted for
 laboratory analysis for duplication and field confirmation purposes.

mg/kg = milligram per kilogram

s = Surface sample

6" = depth below ground surface

TABLE 4

BPB Area Field Investigation
 Test Pit Descriptions
 StoneHill, June 2, 2017
 Dagostino Rose Farm
 Oak Street Extension, Exeter, NH

Test Pit ID	Description (feet)
TP-107	0.5 - 1 - loam 1-4 - Brown clayey sand All virgin soils, no fill
TP-108	0-4 - Virgin soils - No fill noted
TP-109	1-4.5 - Brick, glass, wire, metal 4.5 - Virgin soils
TP-110	0-4 - Virgin soils - No fill noted
TP-111	0-3 - Brick 3 - Virgin soils
TP-112	0-4 - Virgin soils - No fill noted
TP-113	0-5 - Coal clinkers 5 - Virgin soils
TP-114	0-4 - Sand - No fill noted

Notes:

TP = Test Pit

(0-4) = feet below ground surface

Sample ID	NHDES SRS (mg/kg)	CA-SB-1	CA-SB-2	CA-SB-2	CA-SB-4	CA-SB-4	CA-SB-5	CA-SB-6	CA-TP-100A	CA-TP-101	CA-TP-101S	CA-TP-102	CA-TP-104S	CA-TP-105	CA-TP-105S
Sample Date		12/11/2012 ¹	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	08/06/15	08/06/15	08/06/15	08/06/15	08/06/15	08/06/15	08/06/15
Sample Depth (inches)		5-7.5	0-2.5	12.5-15	0-2.5	7.5-10	5-7	7.5-10	9-10/9	5-5.5	0-2	4-5	0-2	5-6	0-2
Sample Description		Sand, Silt, Concrete, Asphalt	Sand, Clinker, Gravel	Sand, Silt	Sand, Silt, Gravel, Asphalt	Sand, Silt	Gravel, Coal, Clinker, Cinder	Sand, Silt	Silt, Clay	Sand, Silt	Sand, Ash	Sand, Clay, Silt	Hose, Car Parts, Plastic, Fabric	Silt, Clay	Ash, Clinkers, Bottles, Brick
FIELD HEADSPACE (ppmv)	NS	0.80	ND	0.50	ND	1.20	1.90	ND	ND	ND	ND	ND	ND	ND	ND
PAH by EPA Method 8270 (mg/kg)															
acenaphthylene	490	0.53	ND<0.6	ND<0.6	0.38	ND<0.07	ND<0.05	NA	ND<0.06	ND<0.06	ND<0.09	ND<0.6	ND<0.6	ND<0.8	ND<0.6
naphthalene	5	NA	NA	NA	NA	NA	NA	NA	ND<0.06	ND<0.06	ND<0.09	ND<0.6	ND<0.6	ND<0.8	ND<0.6
2-methylnaphthalene	96	NA	NA	NA	NA	NA	NA	NA	ND<0.06	ND<0.06	ND<0.09	ND<0.6	ND<0.6	ND<0.8	ND<0.6
phenanthrene	NS	3.8	ND<0.6	ND<0.6	0.74	ND<0.07	ND<0.05	NA	ND<0.06	ND<0.06	ND<0.09	ND<0.6	ND<0.6	ND<0.8	ND<0.6
anthracene	1000	0.72	ND<0.6	ND<0.6	0.2	ND<0.07	ND<0.05	NA	ND<0.06	ND<0.06	ND<0.09	ND<0.6	ND<0.6	ND<0.8	ND<0.6
fluoranthene	960	5.3	ND<0.6	ND<0.6	1.4	ND<0.07	0.1	NA	ND<0.06	ND<0.06	0.12	ND<0.6	ND<0.6	ND<0.8	ND<0.6
pyrene	720	4.2	ND<0.6	ND<0.6	1.5	ND<0.07	0.09	NA	ND<0.06	ND<0.06	0.1	ND<0.6	ND<0.6	ND<0.8	ND<0.6
benzo(a)anthracene	1	2.4	ND<0.6	ND<0.6	0.76	ND<0.07	0.06	NA	ND<0.06	ND<0.06	ND<0.09	ND<0.6	ND<0.6	ND<0.8	ND<0.6
chrysene	120	2.6	ND<0.6	ND<0.6	0.77	ND<0.07	0.08	NA	ND<0.06	ND<0.06	0.1	ND<0.6	ND<0.6	ND<0.8	ND<0.6
benzo(b)fluoranthene	1	1.8	ND<0.6	ND<0.6	0.8	ND<0.07	0.09	NA	ND<0.06	ND<0.06	0.12	ND<0.6	ND<0.6	ND<0.8	ND<0.6
benzo(k)fluoranthene	12	2.1	ND<0.6	ND<0.6	0.7	ND<0.07	0.11	NA	ND<0.06	ND<0.06	ND<0.09	ND<0.6	ND<0.6	ND<0.8	ND<0.6
benzo(a)pyrene	0.7	2.1	ND<0.6	ND<0.6	0.79	ND<0.07	0.06	NA	ND<0.06	ND<0.06	ND<0.09	ND<0.6	ND<0.6	ND<0.8	ND<0.6
indeno(1,2,3-cd)pyrene	1	0.9	ND<0.6	ND<0.6	0.22	ND<0.07	ND<0.05	NA	ND<0.06	ND<0.06	ND<0.09	ND<0.6	ND<0.6	ND<0.8	ND<0.6
dibenzo(a,h)anthracene	0.7	0.44	ND<0.6	ND<0.6	0.12	ND<0.07	ND<0.05	NA	ND<0.06	ND<0.06	ND<0.09	ND<0.6	ND<0.6	ND<0.8	ND<0.6
benzo(g,h,i)perylene	NS	0.91	ND<0.6	ND<0.6	0.21	ND<0.07	ND<0.05	NA	ND<0.06	ND<0.06	ND<0.09	ND<0.6	ND<0.6	ND<0.8	ND<0.6
VOC by EPA Method 8260 (mg/kg)															
All compounds	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Pesticides by EPA Method 8081 (mg/kg)															
4,4'-DDE	4	--	--	--	--	--	--	--	ND<0.04	ND<0.05	ND<0.07	NA	NA	NA	NA
4,4'-DDT	4	--	--	--	--	--	--	--	0.27	ND<0.05	ND<0.07	NA	NA	NA	NA
TPH by EPA Method 3550 (mg/kg)															
TPH	10,000	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA
TPH by EPA Method 8015 (mg/kg)															
Gasoline Range Organics (GRO)	10,000	NA	NA	NA	NA	NA	NA	ND<4	--	--	--	--	--	--	--
Diesel Range Organics (DRO) C10-C28	10,000	ND<190	NA	NA	ND<220	ND<260	ND<200	NA	--	--	--	--	--	--	--
PCB by EPA Method 8082 (mg/kg)															
Total PCBs	1	NA	ND<0.2	ND<0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Priority Pollutant Metals by EPA Method 6010 & 7471 (mg/kg)															
arsenic	11	5.6	8.7	5.2	10	67	13	NA	20	11	9.8	45	7.8	23	13
barium	1,000	20	20	45	37	100	58	NA	110	80	90	59	65	100	100
cadmium	33	ND<0.2	ND<0.2	ND<0.2	ND<0.2	ND<0.3	0.3	NA	ND<0.5	ND<0.5	ND<0.7	ND<0.5	ND<0.5	ND<0.5	ND<0.6
chromium (total)	130	17	17	21	31	37	40	NA	17	31	31	24	36	33	36
lead	400	32	32	7.7	120	17	73	2.1	25	13	57	15	39	79	59
mercury	7	ND<0.15	ND<0.15	ND<0.19	ND<0.16	ND<0.20	0.16	NA	ND<0.20	ND<0.22	0.34	ND<0.20	ND<0.23 UJ	ND<23	ND<0.26
selenium	180	ND<3	ND<3	ND<3	ND<3	7	ND<3	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
NHDES SRS = New Hampshire Department of Environmental Services Soil Remediation Standards
bold = concentrations above NHDES SRS
ND = Not detected above laboratory method detection limit
NA = Not Analyzed
NS = No Standard
ppmv = parts per million by volume
¹Sample tested positive for 0.32 mg/kg of fluorene, which is not over the NHDES SRS of 77 mg/kg.

Source - Table from Credere Associates, LLC

TABLE 6 Dagostino Rose Farm Property Oak Street Extension, Exeter, New Hampshire NHDES #201203003								
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS								
Parameter ⁽¹⁾	Regulatory Standard	Sample ID, Sample Date						
	NH AGQS ⁽²⁾ (µg/L)	DW-1	DW-2	CA-MW-1	CA-MW-2	CA-MW-3	CA-MW-4	CA-MW-5
		1/3/2013	1/3/2013	1/4/2013	1/3/2013	1/3/2013	1/4/2013	1/3/2013
Volatile Organic Compounds (µg/L) EPA Method 8260B								
carbon disulfide	70	ND< 0.5	ND< 0.5	21	ND< 2	ND< 2	ND< 2	ND< 2
methyl t-butyl ether (MTBE)	13	ND< 0.5	0.5	ND< 2	ND< 2	ND< 2	ND< 2	ND< 2
chloroform	70	ND< 0.5	2.3	ND< 2	ND< 2	ND< 2	ND< 2	ND< 2
Low Level EDB & 1,4-dioxane (µg/L) EPA Method 8260 SIM								
1,4-dioxane	3	ND< 0.25	ND< 0.25	ND< 0.25	ND< 0.25	ND< 0.25	ND< 0.25	ND< 0.25
1,2-dibromoethane (EDB)	0.05	ND< 0.05	ND< 0.05	ND< 0.05	ND< 0.05	ND< 0.05	ND< 0.05	ND< 0.05
Semi-volatile Organic Compounds Including Polycyclic Aromatic Hydrocarbons (ug/L) EPA Method 8270D								
di-n-butylphthalate	800	5	6	11	NS	8	24	12
Metals (mg/L)	NH AGQS (mg/L)							
arsenic	0.01	0.008	ND< 0.008	0.009	ND< 0.008	ND< 0.008	ND< 0.008	ND< 0.008
barium	2	ND< 0.05	ND< 0.05	0.05	ND< 0.05	ND< 0.05	0.05	ND< 0.05
NOTES: ⁽¹⁾ With the exception of low level VOCs, which are shown for reference, only analytes identified above detection limit are summarized herein. ⁽²⁾ New Hampshire Code of Administrative Rules Ambient Groundwater Quality Standards, July 23, 2008. µg/L = micrograms per liter mg/L = milligrams per liter ND = Not detected above practical quantitation limit (i.e. 0.2 µg/L) NS = Not sampled Bold Exceeds laboratory quantitation limit Exceeds NH AGQS								

Table 7

Summary of Sediment Sample Analytical Results
Dagostino Rose Farm
Oak Street Extension, Exeter, NH

Source - Credere Associates, LLC

Parameter*	Regulatory Criteria ¹ (mg/kg)		Sample ID, Depth, Sample Date									
			SED-BKG	CA-SED-100	CA-SED-101	CA-SED-102	CA-SED-103	CA-SED-104	CA-SED-105	CA-SED-106	CA-SED-107	CA-SED-108
	TEC	PEC	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
			7/23/2015	7/23/2015	7/23/2015	7/23/2015	4/8/2016	4/8/2016	4/8/2016	4/8/2016	4/8/2016	4/8/2016
Volatile Organic Compounds (VOCs) by EPA Method 8260C (mg/kg)												
All compounds	NA	NA	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS
Semivolatile Organic Compounds (SVOCs) or Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270D (mg/kg)												
fluoranthene	0.423	2.23	ND<0.07	ND<0.09	0.76	ND<0.41	NS	NS	NS	ND<1.1	ND<0.96	ND<0.66
pyrene	0.195	1.52	ND<0.07	ND<0.09	0.75	ND<0.41	NS	NS	NS	ND<1.1	ND<0.96	ND<0.66
chrysene	0.166	1.29	ND<0.07	ND<0.09	0.53	ND<0.41	NS	NS	NS	ND<1.1	ND<0.96	ND<0.66
benzo(b)fluoranthene	0.24	13.4	ND<0.07	ND<0.09	0.53	ND<0.41	NS	NS	NS	ND<1.1	ND<0.96	ND<0.66
benzo(a)pyrene	0.15	1.45	ND<0.07	ND<0.09	0.56	ND<0.41	NS	NS	NS	ND<1.1	ND<0.96	ND<0.66
Pesticides by EPA Method 8081B (mg/kg)												
All compounds	NA	NA	ND	ND	ND	ND	NS	NS	NS	NS	NS	NS
Priority Pollutant Metals by EPA Method 6010C & 7471B (mg/kg)												
arsenic	9.79	33	32	9.5	12	14	NS	NS	NS	NS	NS	NS
barium	NE	NE	64	460	39	47	NS	NS	NS	NS	NS	NS
cadmium	0.99	4.98	1.8	1.3	1.0	ND<0.6	NS	NS	NS	NS	NS	NS
chromium (total)	43.4	111	29	ND<9	ND<9	14	NS	NS	NS	NS	NS	NS
lead	35.8	128	44	180	140	46	110	140	81	220	66	57

NOTES:

Gray and Bold headings are new samples collected during this Supplemental Phase II ESA

mg/kg - milligrams per kilogram

*Only analytes with detections are shown, all other sample results analyses were below the laboratory reporting limits.

1 - New Hampshire Department of Environmental Services, DRAFT Evaluation of Sediment Quality Guidance Document, April 2005.

NE - not established

ND<0.2 - Results were below the laboratory reporting limits, laboratory reporting limit shown

ND - Results were below the laboratory reporting limits and reporting limits vary between compounds

Bold Exceeds laboratory reporting limit

White and not bold headings are historical samples collected during the prior Phase II ESA

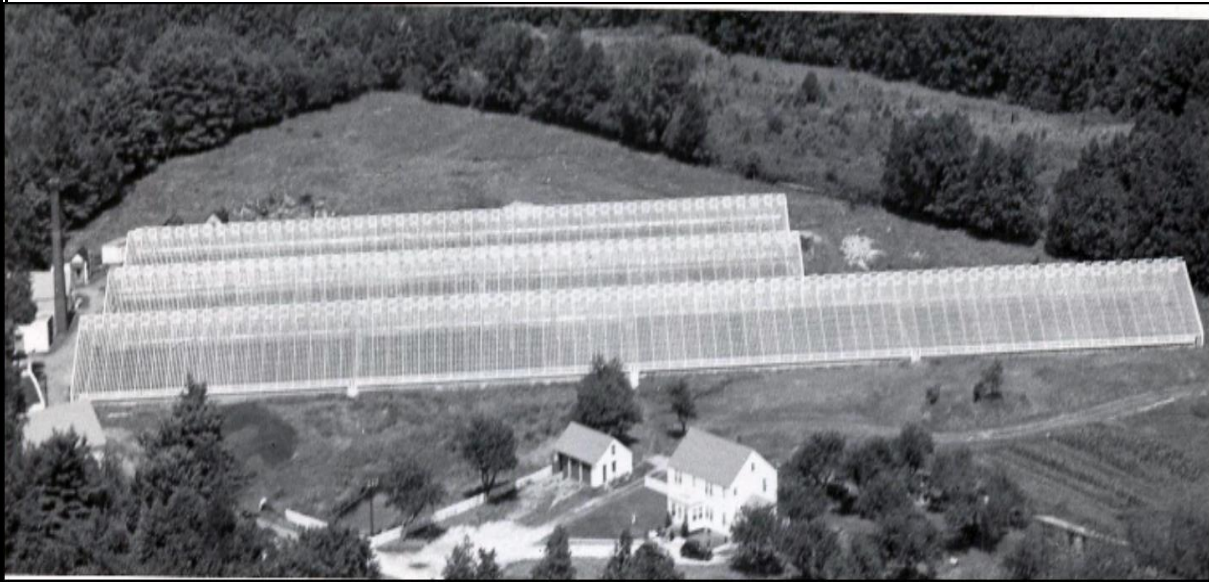
Reporting limit exceeds regulatory criteria

Exceeds applicable TEC or PEC but is consistent with site-specific background sample SED-BKG

Exceeds applicable TEC but is below applicable PEC

Exceeds applicable TEC and PEC

PHOTOGRAPHS



Photograph 1 - Aerial view to the north of greenhouses circa 1958.



Photograph 2- Current view of former greenhouse area facing east.
(StoneHill, May 17, 2017)



Photograph 3 - View facing north of former packing building.
(StoneHill, October 11, 2017)



Photograph 4 - View of solid wastes and appliances in Former Boiler and Packing Buildings Area.
(StoneHill, May 17, 2017)



Photograph 5 - View facing east of concrete and solid wastes discarded on bank behind former packing building. (StoneHill, May 17, 2017)



Photograph 6- View facing south of solid wastes on bank behind former boiler building. (StoneHill, September 26, 2016)



Photograph 7 - View west of 12-inch pipe behind former packing building.
(StoneHill, September 26, 2016)



Photograph 8 - View looking east of interior of former packing building.
(StoneHill, September 26, 2016)



Photograph 9 - View of trench in GH #3.
(StoneHill, September 26, 2016)



Photograph 10- View looking west of Basin #4.
(StoneHill, October 11, 2017)



Photograph 11 - View looking west of 12-inch culvert in Basin #4.
(StoneHill, October 11, 2017)



Photograph 12 - View looking west of 12-inch culvert in Wetland H.
(StoneHill, October 11, 2017)




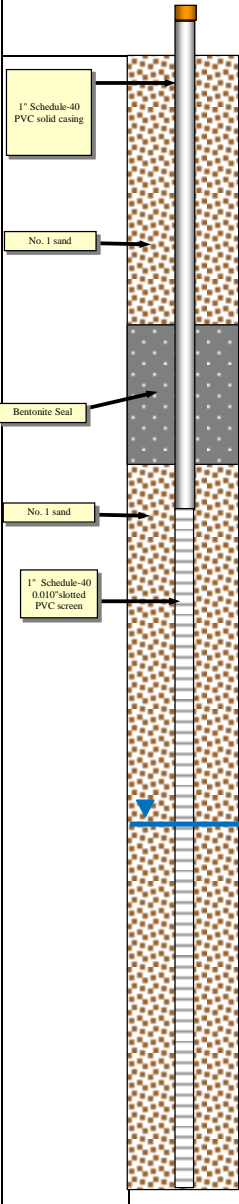
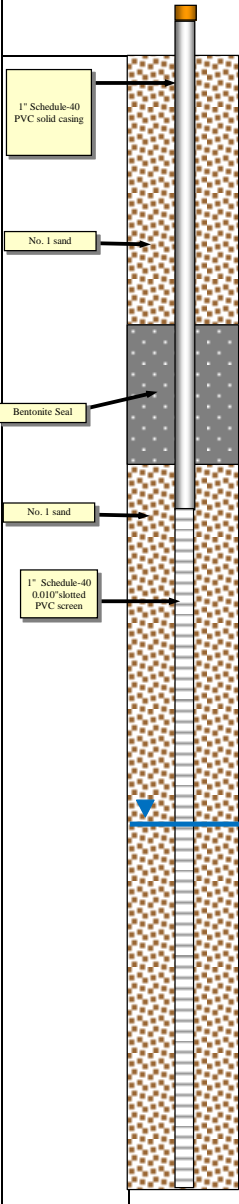
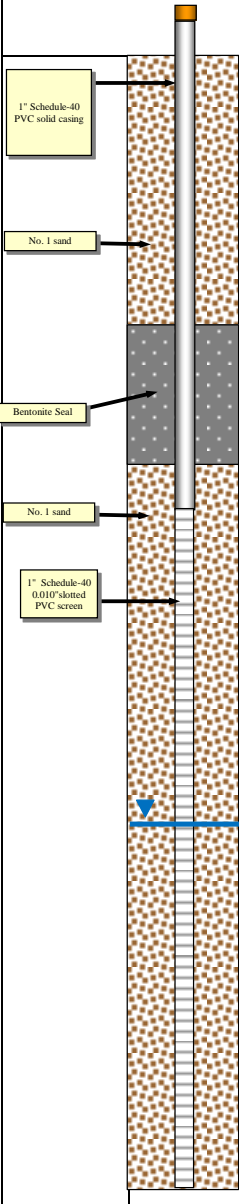
Photograph 13- View of concrete in GH Area.
(StoneHill, October 11, 2017)




Photograph 14 - View of concrete in GH Area.
(StoneHill, October 11, 2017)

APPENDIX A

GEOLOGIC LOG									
SITE INFORMATION						WELL SPECIFICATIONS			
 Credere Associates, LLC 776 Main Street Westbrook, ME 04092						Project Number/Client: 11001122		Well Depth (feet): 25	
Site Location: Dagostino Rose Farm Property						Screen Length (feet): 15			
Date Start/Finish: 12/11/2012						TOC Elevation: -			
Credere, LLC Representative: Judd R. Newcomb, CG, PG						Well Material 1" PVC; 0.010" Slot Screen; No. 1 Sand; standpipe			
CONTRACTOR						DRILLING EQUIPMENT			
Drilling Contractor: Eastern Analytical						Equipment: Track-mounted Geoprobe			
Foreman: David Nevison						Casing Diameter: NA			
Drilling Method: Direct-Push						Casing Material: NA			

Sample Information						Soil Description and Classification	Strata	USCS Code	Equipment Installed	
Depth	Sample No.	Depth (Ft.)	Pen/Rec (Feet)	Blows (/0.5')	PTD (gpm) (RF=1.0)				Depth	
	S-1	0-5	5/4	NA		Moist, brown fine to medium SAND, little coarse SAND, Silt, and Concrete, trace Asphalt.	Fill Materials	SW		
2					ND					2
4					0.4					4
	S-2	5-10	5/5	NA						
6					0.8*	Same as above.				6
8					0.7	Moist, tan fine SAND.		SP		8
10	S-3	10-15	5/5	NA		Moist, gray SILT, trace fine Sand.	Glaciomarine Deposits	SM		10
12					ND					12
14					ND					14
	S-4	15-20	5/5	NA						
16					ND	Moist to wet, gray SILT.				16
18					ND	Same as above.	ML			18
20	S-5	20-25	5/5	NA					20	
22					ND				22	
24					ND				24	
End of exploration at 25' bgs.										

Remarks: Groundwater was encountered at approximately 17' bgs in this boring.


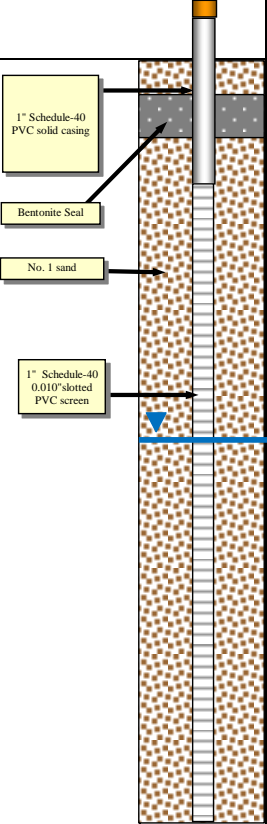
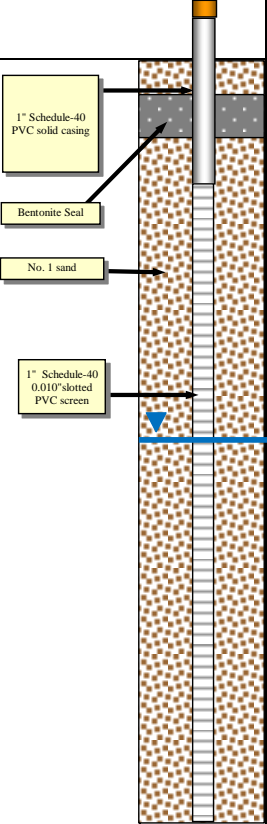
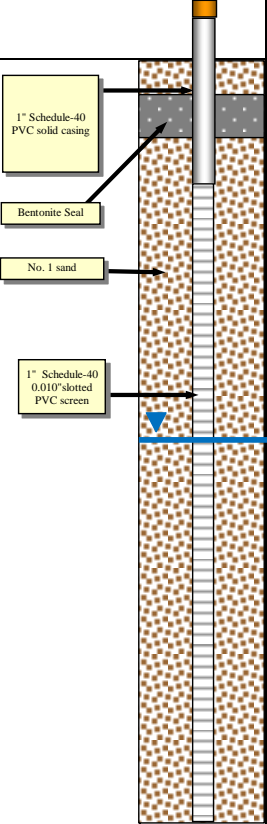
bgs - below ground surface  Approximate groundwater level


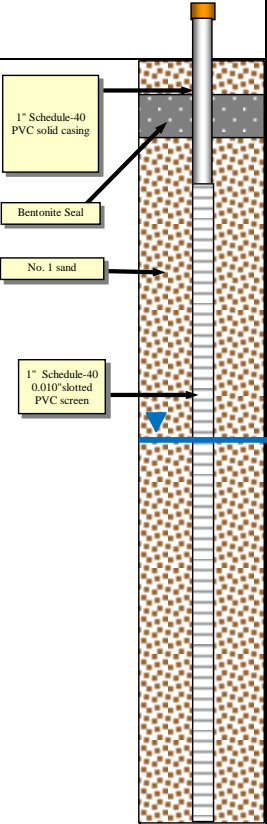
*indicates that this sample interval was sent to laboratory for offsite analysis.


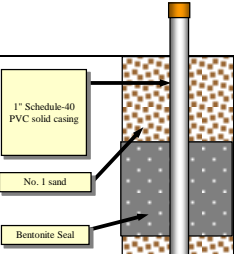

The modified Burmeister system was used to describe soils observed at the Site. Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other


Page 1 of 1

Boring No: CA-SB-1/CA-MW-1

GEOLOGIC LOG																																																																																																																											
SITE INFORMATION				WELL SPECIFICATIONS																																																																																																																							
 <p>Credere Associates, LLC 776 Main Street Westbrook, ME 04092</p>				<p>Project Number/Client: 11001122</p> <p>Well Depth (feet): 15</p>																																																																																																																							
<p>Site Location: Dagostino Rose Farm Property</p> <p>Screen Length (feet): 12.5</p>				<p>TOC Elevation: -</p>																																																																																																																							
<p>Date Start/Finish: 12/11/2012</p>				<p>Well Material 1" PVC; 0.010" Slot Screen; No. 1 Sand; standpipe</p>																																																																																																																							
<p>Credere, LLC Representative: Judd R. Newcomb, CG, PG</p>				<p>CONTRACTOR</p>																																																																																																																							
<p>Drilling Contractor: Eastern Analytical</p>				<p>DRILLING EQUIPMENT</p>																																																																																																																							
<p>Foreman: David Nevison</p>				<p>Equipment: Track-mounted Geoprobe</p>																																																																																																																							
<p>Drilling Method: Direct-Push</p>				<p>Casing Diameter: NA</p>																																																																																																																							
<p>Casing Material: NA</p>				<p>Equipment Installed</p>																																																																																																																							
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>CA-SB-2/ CA-MW-2</p> </div> <div style="width: 65%;"> <table border="1"> <thead> <tr> <th colspan="6">Sample Information</th> <th rowspan="2">Soil Description and Classification</th> <th rowspan="2">Strata</th> <th rowspan="2">USCS Code</th> <th rowspan="2">Equipment Installed</th> <th rowspan="2">Depth</th> </tr> <tr> <th>Depth</th> <th>Sample No.</th> <th>Depth (ft.)</th> <th>Pen/Rec (feet)</th> <th>Blows (/0.5')</th> <th>PID (ppm) (RE=1.0)</th> </tr> </thead> <tbody> <tr> <td></td> <td>S-1</td> <td>0-5</td> <td>5/4</td> <td>NA</td> <td></td> <td rowspan="3">Dry, brown fine to medium SAND and CLINKER, trace fine Gravel.</td> <td rowspan="3">Fill Materials</td> <td rowspan="3">SP</td> <td rowspan="3">  </td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3" Moist, gray fine SAND and SILT.</td> <td>SM</td> <td>2</td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Moist, tan fine to medium SAND.</td> <td rowspan="3">SP</td> <td>4</td> </tr> <tr> <td>6</td> <td>S-2</td> <td>5-10</td> <td>5/5</td> <td>NA</td> <td></td> <td>Same as above.</td> <td>6</td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td rowspan="3">Wet, light gray fine SAND and SILT.</td> <td rowspan="3">Glaciomarine Deposits</td> <td>8</td> </tr> <tr> <td>10</td> <td>S-3</td> <td>10-15</td> <td>5/5</td> <td>NA</td> <td></td> <td>Same as above.</td> <td>10</td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td rowspan="3">Wet, tan fine SAND and SILT.</td> <td rowspan="3">SM</td> <td>12</td> </tr> <tr> <td>14</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.5*</td> <td>14</td> </tr> <tr> <td>16</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>End of exploration at 15' bgs.</td> <td></td> <td>16</td> </tr> <tr> <td>18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>18</td> </tr> <tr> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>20</td> </tr> </tbody> </table> </div> </div>							Sample Information						Soil Description and Classification	Strata	USCS Code	Equipment Installed	Depth	Depth	Sample No.	Depth (ft.)	Pen/Rec (feet)	Blows (/0.5')	PID (ppm) (RE=1.0)		S-1	0-5	5/4	NA		Dry, brown fine to medium SAND and CLINKER, trace fine Gravel.	Fill Materials	SP			2						3" Moist, gray fine SAND and SILT.	SM	2	4						Moist, tan fine to medium SAND.	SP	4	6	S-2	5-10	5/5	NA		Same as above.	6	8						Wet, light gray fine SAND and SILT.	Glaciomarine Deposits	8	10	S-3	10-15	5/5	NA		Same as above.	10	12						Wet, tan fine SAND and SILT.	SM	12	14						0.5*	14	16						End of exploration at 15' bgs.		16	18									18	20									20
Sample Information						Soil Description and Classification	Strata	USCS Code	Equipment Installed	Depth																																																																																																																	
Depth	Sample No.	Depth (ft.)	Pen/Rec (feet)	Blows (/0.5')	PID (ppm) (RE=1.0)																																																																																																																						
	S-1	0-5	5/4	NA		Dry, brown fine to medium SAND and CLINKER, trace fine Gravel.	Fill Materials	SP																																																																																																																			
2										3" Moist, gray fine SAND and SILT.	SM	2																																																																																																															
4										Moist, tan fine to medium SAND.	SP	4																																																																																																															
6	S-2	5-10	5/5	NA		Same as above.	6																																																																																																																				
8						Wet, light gray fine SAND and SILT.	Glaciomarine Deposits	8																																																																																																																			
10	S-3	10-15	5/5	NA				Same as above.	10																																																																																																																		
12								Wet, tan fine SAND and SILT.	SM	12																																																																																																																	
14						0.5*	14																																																																																																																				
16						End of exploration at 15' bgs.				16																																																																																																																	
18									18																																																																																																																		
20									20																																																																																																																		
<p>Remarks: Groundwater was encountered at approximately 7.5' bgs in this boring.</p> <p>bgs - below ground surface</p> <p>*indicates that this sample interval was sent to laboratory for offsite analysis.</p>																																																																																																																											
<p>The modified Burmeister system was used to describe soils observed at the Site. Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.</p>																																																																																																																											

GEOLOGIC LOG						
SITE INFORMATION			WELL SPECIFICATIONS			
 <p>Credere Associates, LLC 776 Main Street Westbrook, ME 04092</p>			Project Number/Client: 11001122		Well Depth (feet): 15	
Site Location: Dagostino Rose Farm Property			Screen Length (feet): 12.5		TOC Elevation: -	
Date Start/Finish: 12/11/2012			Credere, LLC Representative: Judd R. Newcomb, CG, PG		Well Material 1" PVC; 0.010" Slot Screen; No. 1 Sand; standpipe	
CONTRACTOR			DRILLING EQUIPMENT			
Drilling Contractor: Eastern Analytical			Equipment: Track-mounted Geoprobe			
Foreman: David Nevison			Casing Diameter: NA			
Drilling Method: Direct-Push			Casing Material: NA			
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: #808080; color: white; padding: 20px; text-align: center; font-size: 2em; font-weight: bold;"> CA-SB-3/ CA-MW-3 </div> </div>						
Sample Information						
Depth	Sample No.	Depth (ft.)	Pen/Rec (feet)	Blows (/0.5')	PTD (ppm) (RE=1.0)	
	S-1	0-5	5/3.5	NA		
2					1.0*	
4					0.8	
	S-2	5-10	5/5	NA		
6					0.8	
8					0.6*	
10	S-3	10-15	5/5	NA		
12					0.2	
14					ND	
16						
18						
20						
Soil Description and Classification						Strata
Moist, brown fine to coarse SAND, little Concrete and Brick.						Fill Materials
Moist, tan fine SAND.						SP
Moist to wet, light gray fine SAND and SILT.						SM
Wet, tan fine to medium SAND.						SP
Same as above.						SP
End of exploration at 15' bgs.						
Equipment Installed						
						
Remarks: Groundwater was encountered at approximately 7.5' bgs in this boring. bgs - below ground surface						
*indicates that this sample interval was sent to laboratory for offsite analysis.						
The modified Burmeister system was used to describe soils observed at the Site. Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.						
Boring No: CA-SB-3/CA-MW-3						

GEOLOGIC LOG													
SITE INFORMATION						WELL SPECIFICATIONS							
 <p>Credere Associates, LLC 776 Main Street Westbrook, ME 04092</p>						Project Number/Client: 11001122		Well Depth (feet): 25					
Site Location: Dagostino Rose Farm Property						Screen Length (feet): 20							
Date Start/Finish: 12/11/2012						TOC Elevation: -							
Credere, LLC Representative: Judd R. Newcomb, CG, PG						Well Material 1" PVC; 0.010" Slot Screen; No. 1 Sand; standpipe							
CONTRACTOR						DRILLING EQUIPMENT							
Drilling Contractor: Eastern Analytical						Equipment: Track-mounted Geoprobe							
Foreman: David Nevison						Casing Diameter: NA							
Drilling Method: Direct-Push						Casing Material: NA							
<div style="background-color: #808080; color: white; padding: 10px; text-align: center; font-size: 24px; font-weight: bold;"> CA-SB-4/ CA-MW-4 </div>													
Sample Information						Soil Description and Classification	Strata	USCS Code	Equipment Installed				
Depth	Sample No.	Depth (Ft.)	Pen/Rec (Feet)	Blows (/0.5')	PTD (gpm) (RF=1.0)				Depth				
	S-1	0-5	5/3	NA		Moist, brown fine to medium SAND, little Silt and fine Gravel, trace asphalt.		SW/Fill					
2										ND*			2
										0.3			
4													4
	S-2	5-10	5/5	NA		Dry, black medium to coarse SAND, COAL, CLINKER, and fine GRAVEL.							
6										0.6			6
						Same as above.							
8										1.2*			8
						Wet, tan fine SAND and SILT.		SM					
10	S-3	10-15	5/5	NA						0.9			10
12										0.3			12
						Moist, gray SILT.							
14													14
	S-4	15-20	5/5	NA						ND			16
16													
						Moist to wet, same as above.		ML					
18										ND			18
20	S-5	20-25	5/5	NA						ND			20
						Wet, same as above.							
22													22
										ND			
24													24
End of exploration at 25' bgs.													
Remarks: Groundwater was encountered at approximately 17' bgs in this boring.													
bgs - below ground surface  Approximate groundwater level 													
*indicates that this sample interval was sent to laboratory for offsite analysis.													
The modified Borelster system was used to describe soils observed at the Site. Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other													
Boring No: CA-SB-4/CA-MW-4													

GEOLOGIC LOG									
SITE INFORMATION						WELL SPECIFICATIONS			
 <p>Credere Associates, LLC 776 Main Street Westbrook, ME 04092</p>						Project Number/Client:		Well Depth (feet):	
						11001122		NA	
						Site Location:		Screen Length (feet):	
						Dagostino Rose Farm Property		NA	
<div style="background-color: #cccccc; padding: 20px; text-align: center; font-size: 2em; font-weight: bold;">CA-SB-5</div>						Date Start/Finish:		TOC Elevation:	
						12/11/2012		NA	
						Credere, LLC Representative:		Well Material	
						Judd R. Newcomb, CG, PG		NA	
CONTRACTOR						DRILLING EQUIPMENT			
Drilling Contractor:						Equipment:			
Eastern Analytical, Inc.						Track-mounted Geoprobe			
Foreman:						Casing Diameter:			
David Nevison						NA			
Drilling Method:						Casing Material:			
Direct-Push						NA			


Sample Information						Soil Description and Classification	Strata	USCS Code	Equipment Installed			Depth				
Depth	Sample No.	Depth (Ft.)	Pen/Rec (Feet)	Blows (/0.5')	PTD (ppm) (RE=1.0)											
	S-1	0-5	5/3	NA		Dry, gray fine to coarse SAND, fine GRAVEL, COAL, and CINDERS.	Fill Materials	SW/Fill								
2					ND											
4						Moist, gray fine to medium SAND and SILT, trace Ash, Brick, and Concrete.		SM								
					0.7											
	S-2	5-9	4/2	NA		Moist, gray fine to coarse GRAVEL, little Coal, Clinker, and Cinders.		GW								
6					1.9*											
8						Moist gray, fine to coarse SAND, CONCRETE, and BRICK.		SW/Fill								
					0.8											
10						Refusals on suspected boulder fill material at 7, 8, and 9 feet bgs.										
12																
14																
16																
18																
20																

Remarks: Groundwater was not encountered in this boring.
bgs - below ground surface
*indicates that this sample interval was sent to laboratory for offsite analysis.

Page 1 of 1

The modified Burmeister system was used to describe soils observed at the Site. Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No: CA-SB-5


GEOLOGIC LOG									
SITE INFORMATION						WELL SPECIFICATIONS			
 <p>Credere Associates, LLC 776 Main Street Westbrook, ME 04092</p>						Project Number/Client:		Well Depth (feet):	
						11001122		NA	
						Site Location:		Screen Length (feet):	
						Dagostino Rose Farm Property		NA	
<div style="background-color: #cccccc; padding: 20px; text-align: center; font-size: 2em; font-weight: bold;">CA-SB-6</div>						Date Start/Finish:		TOC Elevation:	
						12/11/2012		NA	
						Credere, LLC Representative:		Well Material	
						Judd R. Newcomb, CG, PG		NA	
CONTRACTOR						DRILLING EQUIPMENT			
Drilling Contractor:						Equipment:			
Eastern Analytical, Inc.						Track-mounted Geoprobe			
Foreman:						Casing Diameter:			
David Nevison						NA			
Drilling Method:						Casing Material:			
Direct-Push						NA			

Sample Information						Soil Description and Classification	Strata	USCS Code	Equipment Installed			Depth					
Depth	Sample No.	Depth (Ft.)	Pen/Rec (Feet)	Blows (/0.5')	PTD (ppm) (RE=1.0)												
	S-1	0-5	5/3.5	NA		2" Grass and Loam 2" Asphalt Dry, orangish-tan fine to medium SAND.	Fill	Fill									
2					ND												2
4					ND												4
	S-2	5-10	5/5	NA								Dry, tan fine to medium SAND.	SP				
6					ND					6							
8					ND*	Wet, tan fine to medium SAND, little Silt.	SM										
10	S-3	10-15	5/4	NA	ND												
12					ND						Wet, organish-tan fine to medium SAND.	SP					
14					ND												
16										16							
18										18							
20						End of exploration at 15' bgs.						20					

Remarks: Groundwater was encountered at approximately 8' bgs in this boring.

bgs - below ground surface

*indicates that this sample interval was sent to laboratory for offsite analysis.




Approximate groundwater level

Page 1 of 1

The modified Burmeister system was used to describe soils observed at the Site. Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No: CA-SB-6

GEOLOGIC LOG						
Credere Associates, LLC 776 Main Street Westbrook, ME 04092			SITE INFORMATION		WELL SPECIFICATIONS	
<div style="text-align: center;">  </div> <div style="text-align: center; font-size: 2em; font-weight: bold; margin-top: 20px;"> CA-SB-7/ CA-MW-5 </div>			Project Number/Client: 11001122		Well Depth (feet): 15	
			Site Location: Dagostino Rose Farm Property		Screen Length (feet): 12.5	
			Date Start/Finish: 12/11/2012		TOC Elevation: -	
			Credere, LLC Representative: Judd R. Newcomb, CG, PG		Well Material 1" PVC; 0.010" Slot Screen; No. 1 Sand; standpipe	
			CONTRACTOR		DRILLING EQUIPMENT	
			Drilling Contractor: Eastern Analytical		Equipment: Track-mounted Geoprobe	
			Foreman: David Nevison		Casing Diameter: NA	
			Drilling Method: Direct-Push		Casing Material: NA	
Equipment Installed						
Depth	Sample No.	Depth (ft.)	Pen/Rec (feet)	Blows (/0.5')	PTD (ppm) (RE=1.0)	Depth
	S-1	0-5	5/4	NA		
2					ND*	
4					0.3	
	S-2	5-10	5/5	NA		
6					0.5	
8					0.6	
10	S-3	10-15	5/5	NA		
12					0.8*	
14					0.4	
16						
18						
20						
Soil Description and Classification						Strata
Moist, tan fine to medium SAND.						SP
Wet, tan fine SAND and SILT.						SM
Moist, gray SILT.						ML
Wet, tan fine SAND and SILT.						SM
Same as above.						
End of exploration at 15' bgs.						

Remarks: Groundwater was encountered at approximately 7.5' bgs in this boring.

bgs - below ground surface


*indicates that this sample interval was sent to laboratory for offsite analysis.

Approximate groundwater level

Page 1 of 1

The modified Burmeister system was used to describe soils observed at the Site. Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Boring No: CA-SB-7/CA-MW-5

GEOLOGIC LOG											
SITE INFORMATION						WELL SPECIFICATIONS					
 <p>Credere Associates, LLC 776 Main Street Westbrook, ME 04092</p>						Project Number/Client:		Well Depth (feet):			
						11001122		NA			
						Site Location:		Screen Length (feet):			
						Dagostino Rose Farm Property		NA			
<div style="background-color: #cccccc; padding: 20px; text-align: center; font-size: 2em; font-weight: bold;">CA-SB-8</div>						Date Start/Finish:		TOC Elevation:			
						12/11/2012		NA			
						Credere, LLC Representative:		Well Material			
						Judd R. Newcomb, CG, PG		NA			
CONTRACTOR						DRILLING EQUIPMENT					
Drilling Contractor:						Equipment:					
Eastern Analytical, Inc.						Track-mounted Geoprobe					
Foreman:						Casing Diameter:					
David Nevison						NA					
Drilling Method:						Casing Material:					
Direct-Push						NA					
Sample Information						Soil Description and Classification	Strata	USCS Code	Equipment Installed		
Depth	Sample No.	Depth (Ft.)	Pen/Rec (Feet)	Blows (/0.5')	PTD (ppm) (RE=1.0)					Depth	
	S-1	0-5	5/3.5	NA		5" Loam and Brick. Wet, tan fine SAND and SILT.	Fill	Fill	No Monitoring Well Installed		
					ND*		Glaciomarine Deposits	SM			2
2								ML			4
4					ND*						6
6						End of exploration at 5' bgs. Additional sampling was not possible due to darkness and time constraints.				8	
8									10		
10									12		
12									14		
14									16		
16									18		
18									20		
20											

Remarks: Groundwater was not encountered in this boring.
 bgs - below ground surface
 *indicates that this sample interval was sent to laboratory for offsite analysis.

The modified Burmeister system was used to describe soils observed at the Site. Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Page 1 of 1

Boring No: CA-SB-8



Creder Associates, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

Soil Boring Log

CA-SB-100/CA-MW-100

PAGE 1 OF 1

CLIENT Rockingham Planning Commission **PROJECT NAME** Dagostino Rose Farm
PROJECT # 15001275 **PROJECT LOCATION** Oak Street Extension, Exeter, NH
DATE STARTED 7/23/15 **LOGGED BY** M. Kennedy **DEPTH TO WATER** 11.0 **DIAMETER** 1
CONTRACTOR Geosearch, Inc./Brian Houle **WELL MATERIALS** PVC, 0.010" slotted screen, solid riser
DRILLING METHOD Direct Push **ANNULUS MATERIALS** #2 Silica Sand, Bentonite Chips
DRILLING EQUIPMENT Geoprobe 6610 Track Rig **TOC ELEVATION** _____ **GROUND ELEVATION** _____
NOTES Collected CA-SB-100(0-0.5) and CA-SB-100(0.5-2) for VOCs, SVOCs, Pesticides, and RCRA 8 Metals analyses

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/55		0.7	CA-SB-100 (0-0.5)		0-10" Topsoil	Casing Type: Flush-mount Cement Collar
			0.8	CA-SB-100 (0.5-2)		10-24" Dry, light brown fine-medium SAND	1" PVC Riser
			0.4			24-55" Dry, light brown SILT	Bentonite Seal
2.5			0.4				
			0.0				
5.0	60/60		0.0			0-40" Dry, light brown SILT	Silica Sand Pack
			0.0				
			0.0				
7.5			0.0				
			0.0			40-47" Wet, light brown SILT	
			0.0			47-53" Wet, light brown fine-medium SAND	
			0.0			53-60" Wet, light brown SILT	
10.0	60/60		0.0			0-13" Wet, light brown SILT	0.010" Slotted Screen
			0.0			13-18" Wet, light brown fine-medium SAND	
			0.0			18-40" Wet, light brown SILT and CLAY	
12.5			0.0				
			0.0			40-60" Wet, blue-gray CLAY	
15.0			0.0			End of Boring @ 15' bgs	



Credere Associates, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

Soil Boring Log

CA-SB-101/CA-MW-101

PAGE 1 OF 1

CLIENT Rockingham Planning Commission

PROJECT NAME Dagostino Rose Farm

PROJECT # 15001275

PROJECT LOCATION Oak Street Extension, Exeter, NH

DATE STARTED 7/23/15 LOGGED BY M. Kennedy

DEPTH TO WATER 4.55

DIAMETER 1

CONTRACTOR Geosearch, Inc./Brian Houle

WELL MATERIALS PVC, 0.010" slotted screen, solid riser

DRILLING METHOD Direct Push

ANNULUS MATERIALS #2 Silica Sand, Bentonite Chips

DRILLING EQUIPMENT Geoprobe 6610 Track Rig

TOC ELEVATION _____

GROUND ELEVATION _____

NOTES Collected CA-SB-101(0-0.5) and CA-SB-101(0.5-2) for VOCs, SVOCs, Pesticides, and RCRA 8 Metals analyses

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/44		0.0	CA-SB-101 (0-0.5)		0-6" Topsoil	<p>Casing Type: Flush-mount</p> <p>← Cement Collar</p> <p>← 1" PVC Riser</p> <p>← Bentonite Seal</p> <p>← Silica Sand Pack</p> <p>← 0.010" Slotted Screen</p>
			0.0	CA-SB-101 (0.5-2)		6-20" Dry, light brown fine-medium SAND	
			0.0			20-35" Moist, light brown fine-medium SAND	
2.5			0.0			35-44" Wet, light brown fine-coarse SAND	
			0.0			0-9" Wet, light brown fine-coarse SAND	
5.0	60/54		0.0			9-18" Wet, light gray SILT	
			0.0			18-36" Wet, light brown fine-medium SAND	
7.5			0.0			36-44" Wet, light gray SILT	
			0.0			44-49" Wet, orange/red/brown fine-coarse SAND	
			0.0			49-51" Wet, light gray SILT	
10.0			0.0			51-54", Wet, light brown fine-coarse SAND	
			0.0			Drilled to 12' to set well	
			0.0			End of Boring @ 12' bgs	
12.5							
15.0							



Credere Associates, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

Soil Boring Log

CA-SB-102/CA-MW-102

PAGE 1 OF 1

CLIENT Rockingham Planning Commission

PROJECT NAME Dagostino Rose Farm

PROJECT # 15001275

PROJECT LOCATION Oak Street Extension, Exeter, NH

DATE STARTED 7/23/15 LOGGED BY M. Kennedy

DEPTH TO WATER 9.45

DIAMETER 1

CONTRACTOR Geosearch, Inc./Brian Houle

WELL MATERIALS PVC, 0.010" slotted screen, solid riser

DRILLING METHOD Direct Push

ANNULUS MATERIALS #2 Silica Sand, Bentonite Chips

DRILLING EQUIPMENT Geoprobe 6610 Track Rig

TOC ELEVATION _____

GROUND ELEVATION _____

NOTES Collected CA-SB-102(0-0.5) and CA-SB-102(0.5-2) for VOCs, SVOCs, Pesticides, and RCRA 8 Metals analyses

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0.0	60/53		0.0	CA-SB-102 (0-0.5)		0-5" Topsoil	Casing Type: Flush-mount
			0.0	CA-SB-102 (0.5-2)		5-21" Dry, light brown SILT	Cement Collar
			0.0			21-53" Dry, brown SILT	1" PVC Riser
2.5			0.0				Bentonite Seal
			0.0				Silica Sand Pack
5.0	60/42		0.0			0-42", Dry, light gray SILT	
7.5			0.0				
10.0	36/33		0.0			0-33, Dry, SILT and fine-coarse SAND, some GRAVEL	0.010" Slotted Screen
12.5			0.0				
15.0						Refusal @ 13' bgs (Attempted to set well at four other nearby locations and encountered refusal at 2', 5', 6', and 11'. Well was set in location where soil consisted of light gray SILT and CLAY, groundwater was encountered at 9.5'. Well was set at 15'.)	



Creder Associates, LLC
776 Main Street
Westbrook, Maine 04092
Phone: 207-828-1272
Fax: 207-887-1051

Soil Boring Log

CA-SB-103/CA-MW-103

PAGE 1 OF 1

CLIENT Rockingham Planning Commission

PROJECT NAME Dagostino Rose Farm

PROJECT # 15001275

PROJECT LOCATION Oak Street Extension, Exeter, NH

DATE STARTED 4/8/16 LOGGED BY J. Newcomb

DEPTH TO WATER 10 DIAMETER 2 inch

CONTRACTOR Northern Test Boring/Mike Nedeau

WELL MATERIALS PVC, 0.010" slotted screen, solid riser

DRILLING METHOD Hollow Stem Auger

ANNULUS MATERIALS #2 Silica Sand, Bentonite Chips

DRILLING EQUIPMENT Diedrich Track Mount

TOC ELEVATION _____ GROUND ELEVATION _____

NOTES Collected CA-SB-103 (10-12) for VOCs, pesticides, and PAHs

Depth (ft)	Penetration/ Recovery (in)	Blow Counts	Field Screening (ppm)	Lab Analytical Sample	Graphic Log	LITHOLOGY	WELL DIAGRAM
0	24/10	3 4 4 3				0-10" Gray-brown fine SAND and fine to coarse GRAVEL and CONCRETE and ASPHALT [FILL].	Well Finish: Standpipe
	24/8	2 2 3 4	0.0			0-8" Gray-brown fine SAND and fine to coarse GRAVEL and CONCRETE and ASPHALT, with Brick [FILL].	← Silica Sand Backfill
	24/13	2 3 2 3	1.0			0-13" Gray, moist, fine to medium SAND, some Coal fragments or Asphalt.	← PVC Riser
5	24/4	2 3 15 5	1.4			0-4" Gray, moist, fine SAND, fine GRAVEL, WOOD and PLASTIC, 1 inch chunk of concrete.	← Bentonite Seal
	24/0	3 2 1 1	NA			No recovery	← Silica Sand Pack
10	24/20	1 1 1 1	0.0	CA-SB-103 (10-12)		0-20" Brown, wet, fine SAND.	
	24/24	1 2 3 4	0.0			0-24" Gray, wet, fine SAND.	
	24/16	1 2 2 3	0.0			0-16" Gray, wet, fine SAND.	
15	24/24	3 3 3 3	0.0			0-24" Light-gray, wet, fine SAND transitioning to gray clay.	← 0.010" Slotted Screen
						End of Boring @ 18 feet	

CREDERE ASSOCIATES, LLC
TEST PIT SAMPLING LOG
 Credere Associates, LLC - 776 Main Street, Westbrook, Main 04092 - (207) 828-1272

TEST PIT DATA:

PROJECT NAME:	<u>Dagostino Rose Farm</u>	DATE:	<u>8/6/2015</u>
PROJECT NUMBER:	<u>15001275</u>	LOCATION ACTIVITY	
SAMPLE LOCATION ID:	<u>CA-TP-100</u>	START:	<u>0840</u>
CREDERE REPRESENTATIVE:	<u>Allison Drouin</u>	END:	<u>1230</u>
CONTRACTOR/FOREMAN:	<u>Geosearch, Inc./Roger Jarry</u>		

NOTES:

FIELD ANALYSIS DATA:

DEPTH (FT)	SAMPLE DEPTH (FT)	SAMPLE NUMBER	MOISTURE	PID (ppm)	SOIL DESCRIPTION / NOTES
0	NA	CA-TP-100 (0-2/1)	Dry	0.0	0-2' Brown very fine SAND, some Silt, some Gravel.
1					
2	NA		Moist	0.0	2-4' Orange-brown fine to medium SAND, some Silt, some Clay.
3					
4			Moist	0.0	4-5' Brown-gray SILT and CLAY.
5					
6					End of Test Pit at 5 feet bgs
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

* - Submitted for laboratory analysis

CREDERE ASSOCIATES, LLC
TEST PIT SAMPLING LOG
Credere Associates, LLC - 776 Main Street, Westbrook, Main 04092 - (207) 828-1272

TEST PIT DATA:

PROJECT NAME:	<u>Dagostino Rose Farm</u>	DATE: <u>8/6/2015</u>
PROJECT NUMBER:	<u>15001275</u>	LOCATION ACTIVITY
SAMPLE LOCATION ID:	<u>CA-TP-100A</u>	START: <u>0855</u>
CREDERE REPRESENTATIVE:	<u>Allison Drouin</u>	END: <u>1250</u>
CONTRACTOR/FOREMAN:	<u>Geosearch, Inc./Roger Jarry</u>	

NOTES:

FIELD ANALYSIS DATA:

DEPTH (FT)	SAMPLE DEPTH (FT)	SAMPLE NUMBER	MOISTURE	PID (ppm)	SOIL DESCRIPTION / NOTES
0	NA			0.0	0-9' Solid waste FILL (washing machine, car batteries, fabric, foundations stones, bricks), bitter odor, white milky substance dripping down sidewall at 5 feet bgs.
1					
2	NA			0.0	
3					
4	NA			0.0	
5					
6	NA			0.0	
7					
8	NA			0.0	
9		CA-TP-100A (9-10/9)			
10					End of Test Pit at 10 feet bgs
11					
12					
13					
14					
15					
16					
17					

* - Submitted for laboratory analysis

CREDERE ASSOCIATES, LLC
TEST PIT SAMPLING LOG
 Credere Associates, LLC - 776 Main Street, Westbrook, Main 04092 - (207) 828-1272

TEST PIT DATA:

PROJECT NAME:	<u>Dagostino Rose Farm</u>	DATE: <u>8/6/2015</u>
PROJECT NUMBER:	<u>15001275</u>	LOCATION ACTIVITY
SAMPLE LOCATION ID:	<u>CA-TP-100B</u>	START: <u>1130</u>
CREDERE REPRESENTATIVE:	<u>Allison Drouin</u>	END: <u>1145</u>
CONTRACTOR/FOREMAN:	<u>Geosearch, Inc./Roger Jarry</u>	

NOTES:

FIELD ANALYSIS DATA:

DEPTH (FT)	SAMPLE DEPTH (FT)	SAMPLE NUMBER	MOISTURE	PID (ppm)	SOIL DESCRIPTION / NOTES
0	NA		Dry	0.0	0-1' Brown TOPSOIL.
1					1-4' Orange-brown fine to medium SAND.
2	NA		Dry-moist	0.0	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

* - Submitted for laboratory analysis

CREDERE ASSOCIATES, LLC
TEST PIT SAMPLING LOG
 Credere Associates, LLC - 776 Main Street, Westbrook, Main 04092 - (207) 828-1272

TEST PIT DATA:

PROJECT NAME:	<u>Dagostino Rose Farm</u>	DATE: <u>8/6/2015</u>
PROJECT NUMBER:	<u>15001275</u>	LOCATION ACTIVITY
SAMPLE LOCATION ID:	<u>CA-TP-101</u>	START: <u>1100</u>
CREDERE REPRESENTATIVE:	<u>Allison Drouin</u>	END: <u>1130</u>
CONTRACTOR/FOREMAN:	<u>Geosearch, Inc./Roger Jarry</u>	

NOTES:

CA-TP-101 (0-2)S collected from native surface soil west of CA-TP-101 across stream. Clinker appeared to extend to stream.

FIELD ANALYSIS DATA:

DEPTH (FT)	SAMPLE DEPTH (FT)	SAMPLE NUMBER	MOISTURE	PID (ppm)	SOIL DESCRIPTION / NOTES
0	NA		Dry	0.0	0-3' Dark-brown fine to medium SAND and ASH.
1					
2	NA		Dry	0.0	3-5' Red, white and black CLINKER and ASH.
3			Moist		
4	NA	CA-TP-101 (5-6)	Moist	0.0	5-6' Brown very fine SAND and SILT.
5					
6					End of Test Pit at 6 feet bgs Extended edge of test pit northwest to find edge of clinker
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

* - Submitted for laboratory analysis

CREDERE ASSOCIATES, LLC
TEST PIT SAMPLING LOG
 Credere Associates, LLC - 776 Main Street, Westbrook, Main 04092 - (207) 828-1272

TEST PIT DATA:

PROJECT NAME:	<u>Dagostino Rose Farm</u>	DATE: <u>8/6/2015</u>
PROJECT NUMBER:	<u>15001275</u>	LOCATION ACTIVITY
SAMPLE LOCATION ID:	<u>CA-TP-102</u>	START: <u>1310</u>
CREDERE REPRESENTATIVE:	<u>Allison Drouin</u>	END: <u>1330</u>
CONTRACTOR/FOREMAN:	<u>Geosearch, Inc./Roger Jarry</u>	

NOTES:

FIELD ANALYSIS DATA:

DEPTH (FT)	SAMPLE DEPTH (FT)	SAMPLE NUMBER	MOISTURE	PID (ppm)	SOIL DESCRIPTION / NOTES
0	NA		Dry	0.0	0-1' Brown TOPSOIL.
1			Dry		1-4' Black COAL, COAL ASH, and CLINKER.
2	NA		Dry	0.0	
3					
4	NA	CA-TP-102 (4-5)	Moist	0.0	4-7' Orange fine to medium SAND, some Clay, some Silt.
5					
6			Moist	0.0	End of Test Pit at 7 feet bgs
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

* - Submitted for laboratory analysis

CREDERE ASSOCIATES, LLC
TEST PIT SAMPLING LOG
Credere Associates, LLC - 776 Main Street, Westbrook, Main 04092 - (207) 828-1272

TEST PIT DATA:

PROJECT NAME:	<u>Dagostino Rose Farm</u>	DATE: <u>8/6/2015</u>
PROJECT NUMBER:	<u>15001275</u>	LOCATION ACTIVITY
SAMPLE LOCATION ID:	<u>CA-TP-103</u>	START: <u>1400</u>
CREDERE REPRESENTATIVE:	<u>Allison Drouin</u>	END: <u>1430</u>
CONTRACTOR/FOREMAN:	<u>Geosearch, Inc./Roger Jarry</u>	

NOTES:

FIELD ANALYSIS DATA:

DEPTH (FT)	SAMPLE DEPTH (FT)	SAMPLE NUMBER	MOISTURE	PID (ppm)	SOIL DESCRIPTION / NOTES
0	NA		Dry	0.0	0-12' Brown fine to medium SAND, some silt, little solid waste intermixed (modern waste such as cans, plastic sheeting, and plastic containers).
1					
2	NA		Dry	0.0	
3					
4	NA		Moist	0.0	
5					
6	NA		Moist	0.0	
7					
8	NA		Moist	0.0	
9					
10	NA		Moist	0.0	
11					
12			Moist	0.0	12-13' Solid Waste FILL (clinker, coal ash, bottles, metal scraps).
13					End of Test Pit at 13 feet bgs
14					
15					
16					
17					

* - Submitted for laboratory analysis

CREDERE ASSOCIATES, LLC
TEST PIT SAMPLING LOG
 Credere Associates, LLC - 776 Main Street, Westbrook, Main 04092 - (207) 828-1272

TEST PIT DATA:

PROJECT NAME: Dagostino Rose Farm DATE: 8/6/2015

PROJECT NUMBER: 15001275 LOCATION ACTIVITY

SAMPLE LOCATION ID: CA-TP-104 START: 0905

CREDERE REPRESENTATIVE: Allison Drouin END: 1010

CONTRACTOR/FOREMAN: Geosearch, Inc./Roger Jarry

NOTES:

CA-TP-104 (0-2)S collected from native surface soil northwest of CA-TP-101 across stream. Solid waste debris including drums and other waste were observed to extend to the stream.

Solid waste at surface surrounding test pit included a car frame, AST, grill, buckets, bottles, and other household debris.

FIELD ANALYSIS DATA:

DEPTH (FT)	SAMPLE DEPTH (FT)	SAMPLE NUMBER	MOISTURE	PID (ppm)	SOIL DESCRIPTION / NOTES
0	NA		Dry	0.0	0-3' Light-brown TOPSOIL and solid waste FILL intermixed (bottles, fabric, plastic sheeting, hoses, car parts).
1					
2					
3	NA		Moist	0.0	3-5' Roots and dark-brown fine to medium SAND.
4					
5	NA		Moist	0.0	5-8' Brown to gray SILT and CLAY.
6					
7	NA			0.0	
8					
9					End of Test Pit at 8 feet bgs
10					
11					
12					
13					
14					
15					
16					
17					

* - Submitted for laboratory analysis

CREDERE ASSOCIATES, LLC
TEST PIT SAMPLING LOG
Credere Associates, LLC - 776 Main Street, Westbrook, Main 04092 - (207) 828-1272

TEST PIT DATA:

PROJECT NAME:	<u>Dagostino Rose Farm</u>	DATE: <u>8/6/2015</u>
PROJECT NUMBER:	<u>15001275</u>	LOCATION ACTIVITY
SAMPLE LOCATION ID:	<u>CA-TP-105</u>	START: <u>1010</u>
CREDERE REPRESENTATIVE:	<u>Allison Drouin</u>	END: <u>1050</u>
CONTRACTOR/FOREMAN:	<u>Geosearch, Inc./Roger Jarry</u>	

NOTES:

CA-TP-105 (0-2)S collected from native surface soil west of CA-TP-105 across stream. Solid waste debris including clay pots and bottles and other waste were observed to extend to the stream.

FIELD ANALYSIS DATA:

DEPTH (FT)	SAMPLE DEPTH (FT)	SAMPLE NUMBER	MOISTURE	PID (ppm)	SOIL DESCRIPTION / NOTES
0	NA		Dry	0.0	0-5' Cultivation related FILL (miticide containers, clay pots, red clinker, bricks, ash, bottles, red powder).
1					
2					
3	NA		Dry	0.0	
4					
5	NA	CA-TP-105 (5-6)	Moist	0.0	5-6' Gray-brown SILT and CLAY, native.
6					End of Test Pit at 6 feet bgs
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

* - Submitted for laboratory analysis

CREDERE ASSOCIATES, LLC
TEST PIT SAMPLING LOG
 Credere Associates, LLC - 776 Main Street, Westbrook, Main 04092 - (207) 828-1272

TEST PIT DATA:

PROJECT NAME:	<u>Dagostino Rose Farm</u>	DATE: <u>8/6/2015</u>
PROJECT NUMBER:	<u>15001275</u>	LOCATION ACTIVITY
SAMPLE LOCATION ID:	<u>CA-TP-106</u>	START: <u>1300</u>
CREDERE REPRESENTATIVE:	<u>Allison Drouin</u>	END: <u>1315</u>
CONTRACTOR/FOREMAN:	<u>Geosearch, Inc./Roger Jarry</u>	

NOTES:

FIELD ANALYSIS DATA:

DEPTH (FT)	SAMPLE DEPTH (FT)	SAMPLE NUMBER	MOISTURE	PID (ppm)	SOIL DESCRIPTION / NOTES
0	NA	CA-TP-106 (0-2/1.5)	Dry	0.0	0-1' Brown TOPSOIL.
1			Moist		1-5' Orange-brown SILT and CLAY becoming gray towards bottom.
2	NA		Moist	0.0	
3					
4			Moist	0.0	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

* - Submitted for laboratory analysis

APPENDIX B

AQUARIAN ANALYTICAL LAB

A Division of Nelson Analytical, LLC

153 West Road
Canterbury, NH 03224
www.aquarianlabs.com
(603) 783-9097

14 June 2017

Mr. Allen Wyman
Stonehill Environmental, Inc.
600 State Street, Suite #2
Portsmouth, NH 03801
RE: Rose Farm - Exeter, NH

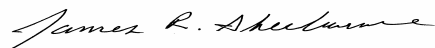
Dear Mr. Wyman:

Enclosed are the results of analytical testing performed on the following samples, which were received at 2.5 degrees C.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1706102-01	F20	Soil	18-May-17 00:00	09-Jun-17 00:00
1706102-02	F24	Soil	18-May-17 00:00	09-Jun-17 00:00
1706102-03	F63	Soil	18-May-17 00:00	09-Jun-17 00:00
1706102-04	Glaze	Glaze	09-Jun-17 00:00	09-Jun-17 00:00

The results in this report relate only to the submitted samples. Please refer to our website listed above for a complete list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James R. Sherburne
Laboratory Director

AQUARIAN ANALYTICAL LAB

A Division of Nelson Analytical, LLC



153 West Road
Canterbury, NH 03224
www.aquarianlabs.com

National Environmental Lab Accreditation Program
NELAP Accreditation #NH1004, VT1004, NH00035(ME)
MADEP Accreditation #M-NH035

(603) 783-9097
frontdesk@aquarianlabs.com

Stonehill Environmental, Inc.
600 State Street, Suite #2
Portsmouth NH, 03801

Project: Rose Farm - Exeter, NH
Project Number: [none]
Project Manager: Mr. Allen Wyman

Reported:
14-Jun-17 17:49

F20 1706102-01 (Soil)

Sampled: 18-May-2017 0:00

Polychlorinated biphenyls

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
Aroclor 1016	BD	0.0720	mg/Kg	12-Jun-17 14:58	8082	mwb	
Aroclor 1221	BD	0.0720	mg/Kg	12-Jun-17 14:58	8082	mwb	
Aroclor 1232	BD	0.0720	mg/Kg	12-Jun-17 14:58	8082	mwb	
Aroclor 1242	BD	0.0720	mg/Kg	12-Jun-17 14:58	8082	mwb	
Aroclor 1248	BD	0.0720	mg/Kg	12-Jun-17 14:58	8082	mwb	
Aroclor 1254	BD	0.0720	mg/Kg	12-Jun-17 14:58	8082	mwb	
Aroclor 1260	BD	0.0720	mg/Kg	12-Jun-17 14:58	8082	mwb	

Metals by ICPMS

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
Arsenic	7.16	1.00	mg/kg	14-Jun-17	EPA 200.8	SUBL	Sub
Barium	106	10.0	mg/kg	14-Jun-17	EPA 200.8	SUBL	Sub
Cadmium	BD	1.00	mg/kg	14-Jun-17	200.8	SUBL	Sub
Chromium	22.6	10.0	mg/kg	14-Jun-17	200.8	SUBL	Sub
Lead	755	1.00	mg/kg	14-Jun-17	200.8	SUBL	Sub
Mercury	BD	0.40	mg/kg	14-Jun-17	200.8	SUBL	Sub
Selenium	BD	10.0	mg/kg	14-Jun-17	200.8	SUBL	Sub
Silver	BD	10.0	mg/kg	14-Jun-17	200.8	SUBL	Sub

TCLP Metals by ICPMS

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
Lead	0.448	0.001	mg/L	13-Jun-17	200.8	SUBL	Sub

% Solids, dry weight

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
% Solids	68.9	0.1	[blank]	13-Jun-17 12:18	SM 2540G	ADH	

AQUARIAN ANALYTICAL LAB

A Division of Nelson Analytical, LLC



153 West Road
Canterbury, NH 03224
www.aquarianlabs.com

National Environmental Lab Accreditation Program
NELAP Accreditation #NH1004, VT1004, NH00035(ME)
MADEP Accreditation #M-NH035

(603) 783-9097
frontdesk@aquarianlabs.com

Stonehill Environmental, Inc.
600 State Street, Suite #2
Portsmouth NH, 03801

Project: Rose Farm - Exeter, NH
Project Number: [none]
Project Manager: Mr. Allen Wyman

Reported:
14-Jun-17 17:49

F24
1706102-02 (Soil)

Sampled: 18-May-2017 0:00

Polychlorinated biphenyls

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
Aroclor 1016	BD	0.0618	mg/Kg	12-Jun-17 16:02	8082	mwb	
Aroclor 1221	BD	0.0618	mg/Kg	12-Jun-17 16:02	8082	mwb	
Aroclor 1232	BD	0.0618	mg/Kg	12-Jun-17 16:02	8082	mwb	
Aroclor 1242	BD	0.0618	mg/Kg	12-Jun-17 16:02	8082	mwb	
Aroclor 1248	BD	0.0618	mg/Kg	12-Jun-17 16:02	8082	mwb	
Aroclor 1254	BD	0.0618	mg/Kg	12-Jun-17 16:02	8082	mwb	
Aroclor 1260	BD	0.0618	mg/Kg	12-Jun-17 16:02	8082	mwb	

Metals by ICPMS

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
Arsenic	5.94	1.00	mg/kg	14-Jun-17	EPA 200.8	SUBL	Sub
Barium	65.7	10.0	mg/kg	14-Jun-17	EPA 200.8	SUBL	Sub
Cadmium	BD	1.00	mg/kg	14-Jun-17	200.8	SUBL	Sub
Chromium	18.3	10.0	mg/kg	14-Jun-17	200.8	SUBL	Sub
Lead	289	1.00	mg/kg	14-Jun-17	200.8	SUBL	Sub
Mercury	BD	0.40	mg/kg	14-Jun-17	200.8	SUBL	Sub
Selenium	BD	10.0	mg/kg	14-Jun-17	200.8	SUBL	Sub
Silver	BD	10.0	mg/kg	14-Jun-17	200.8	SUBL	Sub

TCLP Metals by ICPMS

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
Lead	0.132	0.001	mg/L	13-Jun-17	200.8	SUBL	Sub

% Solids, dry weight

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
% Solids	80.2	0.1	[blank]	13-Jun-17 12:18	SM 2540G	ADH	

AQUARIAN ANALYTICAL LAB

A Division of Nelson Analytical, LLC



153 West Road
Canterbury, NH 03224
www.aquarianlabs.com

National Environmental Lab Accreditation Program
NELAP Accreditation #NH1004, VT1004, NH00035(ME)
MADEP Accreditation #M-NH035

(603) 783-9097
frontdesk@aquarianlabs.com

Stonehill Environmental, Inc.
600 State Street, Suite #2
Portsmouth NH, 03801

Project: Rose Farm - Exeter, NH
Project Number: [none]
Project Manager: Mr. Allen Wyman

Reported:
14-Jun-17 17:49

F63 1706102-03 (Soil)

Sampled: 18-May-2017 0:00

Polychlorinated biphenyls

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
Aroclor 1016	BD	0.0860	mg/Kg	12-Jun-17 16:33	8082	mwb	
Aroclor 1221	BD	0.0860	mg/Kg	12-Jun-17 16:33	8082	mwb	
Aroclor 1232	BD	0.0860	mg/Kg	12-Jun-17 16:33	8082	mwb	
Aroclor 1242	BD	0.0860	mg/Kg	12-Jun-17 16:33	8082	mwb	
Aroclor 1248	BD	0.0860	mg/Kg	12-Jun-17 16:33	8082	mwb	
Aroclor 1254	BD	0.0860	mg/Kg	12-Jun-17 16:33	8082	mwb	
Aroclor 1260	BD	0.0860	mg/Kg	12-Jun-17 16:33	8082	mwb	

Metals by ICPMS

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
Arsenic	7.38	1.00	mg/kg	14-Jun-17	EPA 200.8	SUBL	Sub
Barium	222	10.0	mg/kg	14-Jun-17	EPA 200.8	SUBL	Sub
Cadmium	BD	1.00	mg/kg	14-Jun-17	200.8	SUBL	Sub
Chromium	30.8	10.0	mg/kg	14-Jun-17	200.8	SUBL	Sub
Lead	1570	1.00	mg/kg	14-Jun-17	200.8	SUBL	Sub
Mercury	BD	0.40	mg/kg	14-Jun-17	200.8	SUBL	Sub
Selenium	BD	10.0	mg/kg	14-Jun-17	200.8	SUBL	Sub
Silver	BD	10.0	mg/kg	14-Jun-17	200.8	SUBL	Sub

TCLP Metals by ICPMS

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
Lead	1.51	0.001	mg/L	14-Jun-17	200.8	SUBL	Sub

% Solids, dry weight

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
% Solids	57.7	0.1	[blank]	13-Jun-17 12:18	SM 2540G	ADH	

AQUARIAN ANALYTICAL LAB

A Division of Nelson Analytical, LLC



153 West Road
Canterbury, NH 03224
www.aquarianlabs.com

National Environmental Lab Accreditation Program
NELAP Accreditation #NH1004, VT1004, NH00035(ME)
MADEP Accreditation #M-NH035

(603) 783-9097
frontdesk@aquarianlabs.com

Stonehill Environmental, Inc.
600 State Street, Suite #2
Portsmouth NH, 03801

Project: Rose Farm - Exeter, NH
Project Number: [none]
Project Manager: Mr. Allen Wyman

Reported:
14-Jun-17 17:49

Glaze 1706102-04 (Glaze)

Sampled: 09-Jun-2017 0:00

Polychlorinated biphenyls

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
Aroclor 1016	BD	0.0518	mg/Kg	12-Jun-17 17:05	8082	mwb	
Aroclor 1221	BD	0.0518	mg/Kg	12-Jun-17 17:05	8082	mwb	
Aroclor 1232	BD	0.0518	mg/Kg	12-Jun-17 17:05	8082	mwb	
Aroclor 1242	BD	0.0518	mg/Kg	12-Jun-17 17:05	8082	mwb	
Aroclor 1248	BD	0.0518	mg/Kg	12-Jun-17 17:05	8082	mwb	
Aroclor 1254	0.224	0.0518	mg/Kg	13-Jun-17 10:09	8082	mwb	
Aroclor 1260	BD	0.0518	mg/Kg	12-Jun-17 17:05	8082	mwb	

Metals by ICPMS

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
Lead	5600	1.00	mg/kg	13-Jun-17	200.8	SUBL	Sub

% Solids, dry weight

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
% Solids	96.4	0.1	[blank]	13-Jun-17 12:18	SM 2540G	ADH	

Notes and Definitions

Sub Analysis subcontracted to Nelson Analytical, Manchester, NH.

BD - Analyte result is below the method reporting limit.

NR - Not reported.

Soil sample results are reported on a dry weight basis.

The reporting limit is the lowest value at which reliable quantitation has been demonstrated and verified.

Analytes in **bold** are values above the reporting limit.

1706
Catherine, NH 03224
Phone: (603) 3-9097

E-mail: frontdesk@aquarianlabs.com

A Division of Nelson Analytical, LLC

[illegible]

Laboratory Report



Absolute Resource *associates*

124 Heritage Avenue Portsmouth NH 03801

A. Wyman
Stonehill Environmental
600 State St
Suite 2
Portsmouth, NH 03801

PO Number: None
Job ID: 40355
Date Received: 5/24/17

Project: Rose Farm 15046

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

A handwritten signature in black ink that reads "Sue Sylvester (for)".

Sue Sylvester
Principal, General Manager

Date of Approval: 6/13/2017
Total number of pages: 7

Absolute Resource Associates Certifications

New Hampshire 1732
Maine NH903

Massachusetts M-NH902

Project ID: Rose Farm 15046

Job ID: 40355

Sample#: 40355-001

Sample ID: F-6

Matrix: Solid Percent Dry: 85% Results expressed on a dry weight basis.

Sampled: 5/18/17 13:00

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	7.8	2.4	ug/g	20	AM	5/31/17	9720	5/31/17	14:28	SW3051A6020A
Lead	630	12	ug/g	20	AM	5/31/17	9720	5/31/17	14:28	SW3051A6020A

Sample#: 40355-002

Sample ID: F-7

Matrix: Solid Percent Dry: 86.8% Results expressed on a dry weight basis.

Sampled: 5/18/17 13:10

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	12	2.3	ug/g	20	AM	5/31/17	9720	5/31/17	14:53	SW3051A6020A
Lead	1700	12	ug/g	20	AM	5/31/17	9720	5/31/17	14:53	SW3051A6020A

Sample#: 40355-003

Sample ID: F-14

Matrix: Solid Percent Dry: 67.6% Results expressed on a dry weight basis.

Sampled: 5/18/17 13:20

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	9.9	3.0	ug/g	20	AM	5/31/17	9720	5/31/17	14:59	SW3051A6020A
Lead	670	15	ug/g	20	AM	5/31/17	9720	5/31/17	14:59	SW3051A6020A

Sample#: 40355-004

Sample ID: F-23

Matrix: Solid Percent Dry: 60.5% Results expressed on a dry weight basis.

Sampled: 5/18/17 13:30

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	12	3.2	ug/g	20	AM	5/31/17	9720	5/31/17	15:05	SW3051A6020A
Lead	4400	16	ug/g	20	AM	5/31/17	9720	5/31/17	15:05	SW3051A6020A

Sample#: 40355-005

Sample ID: F-24

Matrix: Solid Percent Dry: 86.4% Results expressed on a dry weight basis.

Sampled: 5/18/17 13:40

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	8.8	2.3	ug/g	20	AM	5/31/17	9720	5/31/17	15:11	SW3051A6020A
Lead	400	12	ug/g	20	AM	5/31/17	9720	5/31/17	15:11	SW3051A6020A

Sample#: 40355-006

Sample ID: F-20

Matrix: Solid Percent Dry: 74.5% Results expressed on a dry weight basis.

Sampled: 5/18/17 13:50

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	9.9	2.4	ug/g	20	AM	5/31/17	9720	5/31/17	15:17	SW3051A6020A
Lead	810	12	ug/g	20	AM	5/31/17	9720	5/31/17	15:17	SW3051A6020A

Project ID: Rose Farm 15046

Job ID: 40355

Sample#: 40355-007

Sample ID: F-34

Matrix: Solid Percent Dry: 80.1% Results expressed on a dry weight basis.

Sampled: 5/18/17 14:00

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	14	2.3	ug/g	20	AM	5/31/17	9720	5/31/17	15:23	SW3051A6020A
Lead	2300	11	ug/g	20	AM	5/31/17	9720	5/31/17	15:23	SW3051A6020A

Sample#: 40355-008

Sample ID: F-39

Matrix: Solid Percent Dry: 72.7% Results expressed on a dry weight basis.

Sampled: 5/18/17 14:10

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	7.3	2.6	ug/g	20	AM	5/31/17	9720	5/31/17	15:29	SW3051A6020A
Lead	490	13	ug/g	20	AM	5/31/17	9720	5/31/17	15:29	SW3051A6020A

Sample#: 40355-009

Sample ID: F-43

Matrix: Solid Percent Dry: 83.1% Results expressed on a dry weight basis.

Sampled: 5/18/17 14:20

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	8.0	2.2	ug/g	20	AM	5/31/17	9720	5/31/17	15:36	SW3051A6020A
Lead	300	11	ug/g	20	AM	5/31/17	9720	5/31/17	15:36	SW3051A6020A

Sample#: 40355-010

Sample ID: F-53

Matrix: Solid Percent Dry: 76.6% Results expressed on a dry weight basis.

Sampled: 5/18/17 14:30

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	13	2.4	ug/g	20	AM	5/31/17	9720	5/31/17	15:42	SW3051A6020A
Lead	920	12	ug/g	20	AM	5/31/17	9720	5/31/17	15:42	SW3051A6020A

Sample#: 40355-011

Sample ID: F-54

Matrix: Solid Percent Dry: 77.9% Results expressed on a dry weight basis.

Sampled: 5/18/17 14:40

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	10	2.3	ug/g	20	AM	5/31/17	9720	5/31/17	15:48	SW3051A6020A
Lead	540	12	ug/g	20	AM	5/31/17	9720	5/31/17	15:48	SW3051A6020A

Sample#: 40355-012

Sample ID: F-63

Matrix: Solid Percent Dry: 67.2% Results expressed on a dry weight basis.

Sampled: 5/18/17 14:50

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	6.7	2.9	ug/g	20	AM	5/31/17	9720	5/31/17	16:12	SW3051A6020A
Lead	2000	15	ug/g	20	AM	5/31/17	9720	5/31/17	16:12	SW3051A6020A

Project ID: Rose Farm 15046

Job ID: 40355

Sample#: 40355-013

Sample ID: F-65

Matrix: Solid Percent Dry: 72.9% Results expressed on a dry weight basis.

Sampled: 5/18/17 15:00

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	10.0	2.6	ug/g	20	AM	5/31/17	9720	5/31/17	16:18	SW3051A6020A
Lead	410	13	ug/g	20	AM	5/31/17	9720	5/31/17	16:18	SW3051A6020A

Sample#: 40355-014

Sample ID: F-70

Matrix: Solid Percent Dry: 80.2% Results expressed on a dry weight basis.

Sampled: 5/18/17 15:10

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	13	2.4	ug/g	20	AM	5/31/17	9720	5/31/17	16:24	SW3051A6020A
Lead	670	12	ug/g	20	AM	5/31/17	9720	5/31/17	16:24	SW3051A6020A

Sample#: 40355-015

Sample ID: F-74

Matrix: Solid Percent Dry: 44% Results expressed on a dry weight basis.

Sampled: 5/18/17 15:20

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	20	4.3	ug/g	20	AM	5/31/17	9721	5/31/17	16:49	SW3051A6020A
Lead	4800	21	ug/g	20	AM	5/31/17	9721	5/31/17	16:49	SW3051A6020A

Sample#: 40355-016

Sample ID: F-86

Matrix: Solid Percent Dry: 66.8% Results expressed on a dry weight basis.

Sampled: 5/18/17 15:30

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	13	2.9	ug/g	20	AM	5/31/17	9721	5/31/17	16:55	SW3051A6020A
Lead	4900	14	ug/g	20	AM	5/31/17	9721	5/31/17	16:55	SW3051A6020A

Sample#: 40355-017

Sample ID: F-88

Matrix: Solid Percent Dry: 86% Results expressed on a dry weight basis.

Sampled: 5/18/17 15:40

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	10	2.3	ug/g	20	AM	5/31/17	9721	5/31/17	17:01	SW3051A6020A
Lead	610	11	ug/g	20	AM	5/31/17	9721	5/31/17	17:01	SW3051A6020A

Sample#: 40355-018

Sample ID: F-91

Matrix: Solid Percent Dry: 89% Results expressed on a dry weight basis.

Sampled: 5/18/17 15:50

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	17	2.1	ug/g	20	AM	5/31/17	9721	5/31/17	17:07	SW3051A6020A
Lead	190	10	ug/g	20	AM	5/31/17	9721	5/31/17	17:07	SW3051A6020A

Project ID: Rose Farm 15046

Job ID: 40355

Sample#: 40355-019

Sample ID: F-95

Matrix: Solid Percent Dry: 74.9% Results expressed on a dry weight basis.

Sampled: 5/18/17 16:00

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	7.6	2.5	ug/g	20	AM	5/31/17	9721	5/31/17	17:31	SW3051A6020A
Lead	430	13	ug/g	20	AM	5/31/17	9721	5/31/17	17:31	SW3051A6020A

Sample#: 40355-020

Sample ID: F-98

Matrix: Solid Percent Dry: 74.4% Results expressed on a dry weight basis.

Sampled: 5/18/17 16:10

Parameter	Reporting		Instr Dil'n		Prep		Analysis			Reference
	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	
Arsenic	12	2.5	ug/g	20	AM	5/31/17	9721	5/31/17	17:37	SW3051A6020A
Lead	730	12	ug/g	20	AM	5/31/17	9721	5/31/17	17:37	SW3051A6020A



124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001

absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD
AND ANALYSIS REQUEST

40355

ANALYSIS REQUEST

Company Name: Stone Hill Environmental Inc.
Company Address: 600 State St. Portsmouth NH 03801
Report To: A. Wyman
Phone #: 603-433-1935
Invoice to: A. Wyman
Email: Awyman@stonehillevironmental.com
☐ Hard Copy Invoice Required ☐ PO # _____

Project Name: Rose Farm
Project #: 15046
Project Location: NH MA ME VT
Accreditation Required? N/Y: _____
Protocol: RCRA SDWA NPDES
MCP NHDES DOD
Reporting Limits: QAPP GW-1 S-1
EPA DW Other
Quote # _____
☐ NH Reimbursement Pricing

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix			Preservation Method					Sampling		
			WATER	SOLID	OTHER	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	DATE	TIME	SAMPLER
4035501	F-6	1	X								5-18-17	1:00	AW
-02	F-7	1	X								5-18-17	1:10	AW
-03	F-14	1	X								5-18-17	1:20	AW
-04	F-23	1	X								5-18-17	1:30	AW
-05	F-24	1	X								5-18-17	1:40	AW
-06	F-20	1	X								5-18-17	1:50	AW
-07	F-34	1	X								5-18-17	2:00	AW
-08	F-39	1	X								5-18-17	2:10	AW
-09	F-43	1	X								5-18-17	2:20	AW
-10	F-53	1	X								5-18-17	2:30	AW
-11	F-54	1	X								5-18-17	2:40	AW

<input type="checkbox"/> VOC 8260	<input type="checkbox"/> VOC 8260 NHDES	<input type="checkbox"/> VOC 8260 MADEP
<input type="checkbox"/> VOC 624	<input type="checkbox"/> VOC BTEX MBE, only	<input type="checkbox"/> VOC 8021VT
<input type="checkbox"/> VPH MADEP	<input type="checkbox"/> GRO 8015	<input type="checkbox"/> 1,4-Dioxane
<input type="checkbox"/> VOC 524.2	<input type="checkbox"/> VOC 524.2 NH List	<input type="checkbox"/> Gases-List:
<input type="checkbox"/> TPH	<input type="checkbox"/> DRO 8015	<input type="checkbox"/> EPH MADEP
<input type="checkbox"/> 8270PAH	<input type="checkbox"/> 8270ABN	<input type="checkbox"/> 625
<input checked="" type="checkbox"/> 8082 PCB	<input type="checkbox"/> 8081 Pesticides	<input type="checkbox"/> 608 Pest/PCB
<input type="checkbox"/> O&G 1664	<input type="checkbox"/> Mineral O&G SM5520F	
<input type="checkbox"/> pH	<input type="checkbox"/> BOD	<input type="checkbox"/> Conductivity
<input type="checkbox"/> TSS	<input type="checkbox"/> TDS	<input type="checkbox"/> TS
<input type="checkbox"/> RCRA Metals	<input type="checkbox"/> Priority Pollutant Metals	<input type="checkbox"/> TAL Metals
<input checked="" type="checkbox"/> Total Metals-list: Lead (Pb)		
<input type="checkbox"/> Dissolved Metals-list:		
<input type="checkbox"/> Ammonia	<input type="checkbox"/> COD	<input type="checkbox"/> TKN
<input type="checkbox"/> T-Phosphorus	<input type="checkbox"/> Phenols	<input type="checkbox"/> Bacteria P/A
<input type="checkbox"/> Cyanide	<input type="checkbox"/> Sulfide	<input type="checkbox"/> Nitrate + Nitrite
<input type="checkbox"/> Nitrate	<input type="checkbox"/> Nitrite	<input type="checkbox"/> Chloride
<input type="checkbox"/> Corrosivity	<input type="checkbox"/> Reactive CN	<input type="checkbox"/> Reactive S-
<input type="checkbox"/> TCLP Metals	<input type="checkbox"/> TCLP VOC	<input type="checkbox"/> TCLP SVOC
<input type="checkbox"/> Subcontract	<input type="checkbox"/> Grain Size	<input type="checkbox"/> Herbicides
<input type="checkbox"/> Grab (G)	<input type="checkbox"/> Composite (C)	

TAT REQUESTED

Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard ☐
(10 Business Days)
*Date Needed _____

See absoluteresourceassociates.com
for sample acceptance policy and
current accreditation lists.

SPECIAL INSTRUCTIONS

Samples may contain glass shards & high levels of Pb, As, & Hg. Just a heads up. Sampled by A. Wyman & T. Lane

REPORTING INSTRUCTIONS

☒ PDF (e-mail address) Awyman@stonehillevironmental.com
☐ HARD COPY REQUIRED ☐ EDD _____

RECEIVED ON ICE ☒ YES ☐ NO

TEMPERATURE 0 °C

CUSTODY
RECORD

QSD-01 Revision 12/22/16

Relinquished by Sampler: <u>Alexander</u>	Date: <u>5/24</u> Time: <u>943am</u>	Received by: <u>Seamus</u>	Date: <u>5/24/17</u> Time: <u>1043</u>
Relinquished by:	Date: Time:	Received by:	Date: Time:
Relinquished by:	Date: Time:	Received by Laboratory:	Date: Time:



absoluteresourceassociates.com

ANALYSIS REQUEST

Project Name:

Project #: 15046

Project Location: **NH** MA ME VT

Accreditation Required? N/Y:

Protocol:	RCRA	SDWA	NPDES
	MCP	NHDES	DOD

Reporting	QAPP	GW-1
Limits:	EPA DW	Other

Quote #

☐ NH Reimbursement Pricing

Company Address:

600 State St. Portsmouth NH 0380

Report To: A. Wyman

Phone #: 603-433-1935

Invoice to: A. Wyman

✓ Email: Awvman@stonehilleummanents.com

☐ Hard Copy Invoice Required ☐ PO #[illegible]

SPECIAL INSTRUCTIONS

See absoluteresourceassociates.com
for sample acceptance policy and
current accreditation lists.

SPECIAL INSTRUCTIONS

See page 1 of 2.

Sampled by AnWeyman & C. Lane

REPORTING INSTRUCTIONS

☐ HARD COPY REQUIRED ☐ EDD

PDF (e-mail address) Awyman@stonehillenvironmental.com

RECEIVED ON ICE ☒ YES ☐ NO

TEMPERATURE 0 °C

CUSTODY RECORD

QSD-01 Revision 12/22/16

Relinquished by Sampler:

Relinquished by:

Relinquished by:

Date 5/24 | Time 9:43am

Date	Time
------	------

Date	Time
------	------

Received by:

Received by:

Received by Laboratory:

Date 5/24/17 Time 09:43

Date _____ Time _____

Date	Time
------	------

AQUARIAN ANALYTICAL LAB



A Division of Nelson Analytical, LLC

153 West Road
Canterbury, NH 03224
www.aquarianlabs.com
(603) 783-9097

08 June 2017

Mr. Allen Wyman
Stonehill Environmental, Inc.
600 State Street, Suite #2
Portsmouth, NH 03801
RE: Rose Farm - Exeter, NH

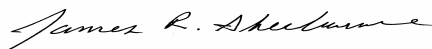
Dear Mr. Wyman:

Enclosed are the results of analytical testing performed on the following samples, which were received at 7.0 degrees C.

Laboratory ID	Sample ID	Sample matrix	Date sampled	Date received
1706048-01	1	Soil	02-Jun-17 00:00	06-Jun-17 09:10
1706048-02	2	Soil	02-Jun-17 00:00	06-Jun-17 09:10
1706048-03	3	Soil	02-Jun-17 00:00	06-Jun-17 09:10
1706048-04	4	Soil	02-Jun-17 00:00	06-Jun-17 09:10

The results in this report relate only to the submitted samples. Please refer to our website listed above for a complete list of accredited parameters. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James R. Sherburne
Laboratory Director

AQUARIAN ANALYTICAL LAB

A Division of Nelson Analytical, LLC



153 West Road
Canterbury, NH 03224
www.aquarianlabs.com

National Environmental Lab Accreditation Program
NELAP Accreditation #NH1004, VT1004, NH00035(ME)
MADEP Accreditation #M-NH035

(603) 783-9097
frontdesk@aquarianlabs.com

Stonehill Environmental, Inc.
600 State Street, Suite #2
Portsmouth NH, 03801

Project: Rose Farm - Exeter, NH
Project Number: [none]
Project Manager: Mr. Allen Wyman

Reported:
08-Jun-17 11:21

1

1706048-01 (Soil)

Sampled: 02-Jun-2017 0:00

A-01

Metals by ICPMS

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
Lead	20.1	0.001	mg/kg	06-Jun-17	200.8	SUBL	Sub

AQUARIAN ANALYTICAL LAB

A Division of Nelson Analytical, LLC



153 West Road
Canterbury, NH 03224
www.aquarianlabs.com

National Environmental Lab Accreditation Program
NELAP Accreditation #NH1004, VT1004, NH00035(ME)
MADEP Accreditation #M-NH035

(603) 783-9097
frontdesk@aquarianlabs.com

Stonehill Environmental, Inc.
600 State Street, Suite #2
Portsmouth NH, 03801

Project: Rose Farm - Exeter, NH
Project Number: [none]
Project Manager: Mr. Allen Wyman

Reported:
08-Jun-17 11:21

2

1706048-02 (Soil)

Sampled: 02-Jun-2017 0:00

A-01

Metals by ICPMS

<u>Analyte</u>	<u>Result</u>	<u>Rpt Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>Method</u>	<u>Analyst</u>	<u>Notes</u>
Lead	4.99	0.001	mg/kg	06-Jun-17	200.8	SUBL	Sub

AQUARIAN ANALYTICAL LAB

A Division of Nelson Analytical, LLC



153 West Road
Canterbury, NH 03224
www.aquarianlabs.com

National Environmental Lab Accreditation Program
NELAP Accreditation #NH1004, VT1004, NH00035(ME)
MADEP Accreditation #M-NH035

(603) 783-9097
frontdesk@aquarianlabs.com

Stonehill Environmental, Inc.
600 State Street, Suite #2
Portsmouth NH, 03801

Project: Rose Farm - Exeter, NH
Project Number: [none]
Project Manager: Mr. Allen Wyman

Reported:
08-Jun-17 11:21

3

1706048-03 (Soil)

Sampled: 02-Jun-2017 0:00

A-01

Metals by ICPMS

<u>Analyte</u>	<u>Result</u>	<u>Rpt Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>Method</u>	<u>Analyst</u>	<u>Notes</u>
Lead	10.0	0.001	mg/kg	06-Jun-17	200.8	SUBL	Sub

AQUARIAN ANALYTICAL LAB

A Division of Nelson Analytical, LLC



153 West Road
Canterbury, NH 03224
www.aquarianlabs.com

National Environmental Lab Accreditation Program
NELAP Accreditation #NH1004, VT1004, NH00035(ME)
MADEP Accreditation #M-NH035

(603) 783-9097
frontdesk@aquarianlabs.com

Stonehill Environmental, Inc.
600 State Street, Suite #2
Portsmouth NH, 03801

Project: Rose Farm - Exeter, NH
Project Number: [none]
Project Manager: Mr. Allen Wyman

Reported:
08-Jun-17 11:21

4

1706048-04 (Soil)

Sampled: 02-Jun-2017 0:00

Metals by ICPMS

A-01

Analyte	Result	Rpt Limit	Units	Analyzed	Method	Analyst	Notes
Lead	10.6	0.001	mg/kg	06-Jun-17	200.8	SUBL	Sub

Notes and Definitions

Sub Analysis subcontracted to Nelson Analytical, Manchester, NH.

A-01 Sample results reported as received; no dry weight correction made.

BD - Analyte result is below the method reporting limit.

NR - Not reported.

Soil sample results are reported on a dry weight basis.

The reporting limit is the lowest value at which reliable quantitation has been demonstrated and verified.

Analytes in **bold** are values above the reporting limit.

048
153 West Road
Cambridge, NH 03224
Phone: (603) 783-9097
E-mail: frontdesk@quarterhills.com

Project Manager: Allen Edmonds
Report To: Allen Edmonds
Invoice To: Allen Edmonds
Phone: 653.433.835
E-mail: al.edmonds@allenedmonds.com
= Cdn

[illegible]