

DeeAar Holdings, LLC

# Current Projects Using AgroRemed/VaporRemed

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February 17, 2021

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## **Current Projects Using AgroRemed/VaporRemed**

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February 17, 2021

- ▶ Current, active projects
- ▶ Past projects
- ▶ Appendix - Reports

## Site location

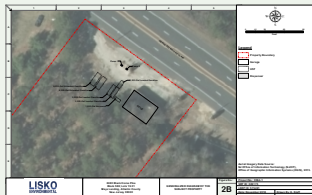


Figure: Site: An Abandoned Gas Station

## Background

### Tank

1 x 1000 gallon kerosene UST
2 x 8000 gallon UST
1 x 2000 gallon leaded gasoline UST
2 x 3000 gallon leaded gasoline

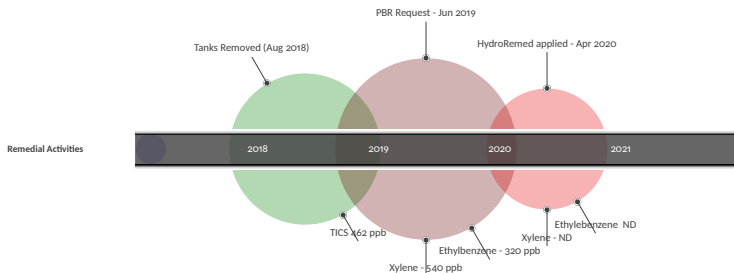
- ▶ The gas station has been abandoned for over ten (10) years.
- ▶ At the time of cleanup, the team could arrive at an estimated gas tanks.
- ▶ Tanks were removed in 2018.
- ▶ Contamination baselines were established in 2019.
- ▶ HydroRemed was added to site in April 2020.
- ▶ The hydrocarbon contamination levels have been non-detect (ND) for two samples.
- ▶ Secondary contamination has been detected and is being addressed.

**Current State : The monitoring for levels of secondary contamination is continuing.**

# Mays Landing - Remediation Timeline contd.

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## Site location



**Figure:** Sitemap of monitoring wells

## Background

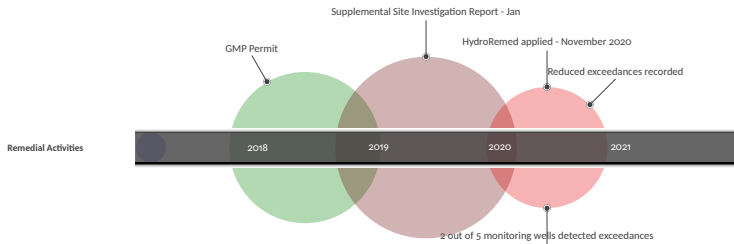
- ▶ The site is a former retail gasoline and fueling facility, reportedly since 1970s;
- ▶ In 1988, several underground storage tanks were removed.
- ▶ Previous remedial efforts at the site were conducted by prior consultants and included the use of an in-situ submerged oxygen curtain (ISOC) in 2002 and bio-augmentation via the addition of live bacterial cultures in 2004 to remediate residual petroleum contaminant levels in groundwater at the site.
- ▶ Our group acquired the property in July 2018;
- ▶ The project is currently 70 % complete. There are exceedances recorded near two monitoring wells;
- ▶ Groundwater from MW-101 contained concentrations of 11 VOCs and 3 PAHs, including concentrations of benzene (32 parts per billion [ppb]) and naphthalene (160 ppb) that exceeded the New Hampshire Ambient Groundwater Quality Standards (AGQS);
- ▶ Groundwater from MW-102 contained concentrations of eight VOCs and 3 PAHs, none of which exceeded the AGQS; and
- ▶ \* Details are in the attached report.

**Current State : Active. We are reaching out to the DES to discuss our protocol to address the remaining 30% of contamination.**

# Antrim NH - Remediation Timeline contd.

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# Past Projects using AgroRemed/HydroRemed



- ▶ UST decommissioning and complex soil-only risk-based cleanup, Portland OR



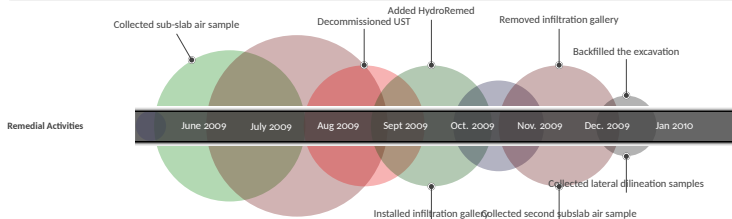
# UST Decommissioning and Complex Soil-only Risk-based Cleanup

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... As suggested by the results of the second sub-slab air sample, the microbes were particularly successful in degrading the plume beneath the basement slab.

[Please click on this link for details.](#)



References from [Sarva Bio Remed's online shop](#), with their permission.

- ▶ Cleanup of contaminated soil at ANA Shipyard, 2006
- ▶ Corrective Action Plan VDEQ PC#911427
- ▶ Corrective Action Plan - VDEQ PC#972073
- ▶ Corrective Action Plan VDEQ PC# 055074
- ▶ PADEP closure report documenting removal of one 500-gallon tank and two 1000-gallon tanks

Our group specializes in bioremediation of contaminated properties such as,

- ▶ abandoned gas stations;
- ▶ and properties contaminated with TCE/PCE.

We strive to keep the costs of cleanup within a narrow range to realize value to our clients.

- ▶ - Dinkar Ganti, Lead Developer, DeeAar Holdings, LLC.



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\* Comparison is not performed on parameters with non-numeric criteria

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**Figure:** Concentration Levels, ML : Jun 2019

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-866-6220 (Fax) 508-866-6292 800-624-6220 -  
[www.strohlab.com](http://www.strohlab.com)

Dinkar Ganti | Bioremediation of Abandoned Gas Stations



June 24, 2020

Permits Coordinator  
OS Remediation and Compliance Bureau  
New Hampshire Department of Environmental Services  
28 Hazen Drive, P.O. Box 95  
Concord, NH 03302-0095

Subject: April 2020 Groundwater Management Permit Data Submit, Dissolved  
Contaminant Plume Delineation Report, and 2019 Periodic Summary Report: Mr. Mike's  
Arrest, 74 Main Street, Arden, New Hampshire (NHDES #18004014, LUST Project  
#0006764)

Dear Coordinator:

Groundwater sampling was completed at the Mr. Mike's Arrest site on April 6, 2020, following the  
expansion of the groundwater monitoring well network on March 11 & 18, 2020. This report  
contains the following three parts:

1. An April 2020 Groundwater Management Permit (GMP) Data Submit, which  
authorizes sampling results for three pre-existing and one newly-installed onsite  
monitoring wells (MWs) and three newly-installed offsite MWs, located at adjacent  
properties to the north and south of the site;
2. A Dissolved Contaminant Plume Delineation Report, which includes a summary of recent  
monitoring well installations, as requested by NHDES in the April 23, 2019 reply letter to  
MGA's Supplemental Site Investigation Report, submitted January 26, 2019; and
3. A Periodic Summary Report, which includes a presentation of groundwater quality data  
for the period 2017-2020, groundwater data trends, groundwater gradients, petroleum  
contaminant distributions, human exposure information, an updated conceptual site  
model, and recommendations for further site activities.

**Figure:** Snapshot of the report submitted in June 2020, AN

*This document presents a high-level overview. Details are available for review.*





Thank you for your time!