

273 Commerce Street
Williston, VT 05495
Website: www.epsofvermont.com



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1-800-5SPILLS

SITE SUMMARY REPORT

397
RECEIVED

JUL 6 2010

WMD

SPILL LOCATION:

Dion Property
101 West Milton Road
Milton, VT 05468

Spill # 2009 - WMD - 397
44° 38'0.25"N, 73° 09'2.18"W

PREPARED FOR:

Mr. Matt Moran
Vermont Department of Environmental Conservation
103 South Main Street, West Office Building
Waterbury, VT 05671-0404
(802) 241-3243

PREPARED BY:

Jeremiah Howell, Senior Environmental Scientist
Environmental Products & Services of Vermont, Inc.
273 Commerce Street
Williston, VT 05495
(802) 862-1212

July 1, 2010

SERVING THE EASTERN UNITED STATES

Introduction

Environmental Products & Services of Vermont, Inc. (EPSVT) hereby presents this site summary report detailing excavation activities at a trailer owned by Alana and Stewart Dion located at 101 West Milton Road, Lot 19, in Milton, Vermont (Figure 1). The following attachments are included to aid in your review of this report:

Figure 1Site Map;
Appendix A Select Photographs;
Appendix BDisposal Documentation;
Appendix C.....Soil Boring Logs.

On August 29, 2009, EPSVT was notified of a release of kerosene fuel oil from a 275-gallon aboveground storage tank (AST) supplying the Dion property in Milton, Vermont. The fuel was being transferred from an old AST when a seam on the AST failed. The fuel was owned by Christy and Scott Dion. The Dions reported that the tank was over-pressurized causing the release. The fuel penetrated the surrounding sandy soils. EPSVT responded to cleanup and assess the degree and extent of impact to the residence and the environment. Following the initial assessment EPSVT conducted remedial actions to eliminate impacted soils adjoining the Dion residence. Please see previously submitted reporting for further details. The following summarizes limited subsurface investigation and source removal, or excavation of limited soil removal from beneath the Dion residence.

Limited Subsurface Investigation & Source Removal

On May 27, 2010, EPSVT mobilized to the Dion residence to conduct limited subsurface investigation and removal of impacted soils beneath the residence. Limited subsurface investigation was conducted to delineate continued impacts to local soils as a result of the August 2009 release. Soil borings were conducted in seven select locations, predominantly immediately adjacent to the residence. Soil borings were advanced to an average depth of 1 foot below grade using hand auger methods for sample collection. Samples collected during the course of soil boring advancement were screened for the presence of volatile organic compounds (VOCs) utilizing a properly calibrated 10.6 eV photoionization detector (PID). See Appendix C for soil boring data.

Based on limited subsurface investigation data, EPSVT conducted limited source removal adjacent to and beneath the Dion residence. Excavation of impacted soils began in the vicinity of the passive soil vapor extraction (SVE) line discharge piping. Soils were screened during the course of excavation for the presence of VOCs utilizing a properly calibrated PID. Initial screening yielded PID readings of 25-30 parts per million (ppm) at a depth of 8" below grade in the vicinity of passive SVE piping. As excavation proceeded, soils in the vicinity of the SVE discharge line were removed to a depth of 1.5 feet below grade, extending approximately 1 foot beneath the Dion residence structure.

Excavation continued to the east toward the above ground storage tank (AST). Screening of impacted soils during removal yielded PID readings ranging from 60 to 1,200 ppm. Impacted



soils were removed to an average depth 1.5 feet below grade extending an average lateral distance of 1 foot beneath the Dion residence. Subsequent to removal of this volume of soil, all PID screening of excavation walls and the excavation bottom yielded PID readings of 20 ppm or less. A portion of the excavation bottom immediately adjacent to the former AST location and adjoining the new AST location exhibited PID readings of approximately 150 ppm. The excavation soils continuing to exhibit elevated PID readings were noted in an area at approximately 2 feet below grade with dimensions of 2 feet in length and 8" in total width. This small amount of impacted soil was left in place due to proximity to support structures for the Dion residence. The ambient air in the crawlspace was assessed for the presence of VOCs utilizing a PID yielding background readings (<1 ppm). During the assessment of ambient air in the crawlspace, an existing polyethylene barrier was noted.

Impacted soils removed from the area of impact were staged in a drum pending proper off-site disposal; see Appendix B for disposal documentation. The area of excavation was backfilled using clean fill material from an off-site source to 4" below grade, the sod removed prior to excavation was returned to match pre-existing conditions. The skirting material removed to facilitate excavation was re-attached to the structure subsequent to backfilling the excavated area.

Conclusions and Recommendations

- A limited amount of petroleum impacted soil remains beneath the Dion residence.
- Sensitive environmental receptors appear to be located a significant distance from the remaining contaminants and potential human receptors are protected from vapor entry through means of a polyethylene barrier beneath the residence.

Based on these conclusions, EPSVT has the following recommendations:

- Available data suggests that natural attenuation can be the chosen remedial method for the limited amount of residual contamination and no further site work appears to be required at this time.

If you have any questions regarding this report or require more information, please do not hesitate to call me at (802) 862-1212 or email me at jhowell@epssofvermont.com.

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC.
Burlington Division

Jeremiah Howell
Senior Environmental Scientist

cc: Mr. Scott and Mrs. Christy Dion (Current residents)
Mr. Stewart and Mrs. Alana Dion (Property owners)

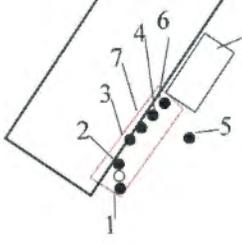




Legend	
○	Passive SVE Line
●	Soil Boring Location
	Approx. Excavation Boundary

Dion Residence

AST



Scale
Not to Scale

Site Description
Dion Residence
101 West Milton Road, Lot 19
Milton, VT

Project # V0830 Date 5/2010

Map Title Figure 1: Site Map



24-Hour Emergency Phone Number
1-800-843-8265

Please print or type

BILL OF LADING

HHW

1. Document No. B U R 1 3 1 1
2. Page 1 of 1

3. Generator's Name and Mailing Address
CHRISTY & SCOTT DION
101 WEST MILTON RD., LOT #19
MILTON VT 05468

Site Address
101 WEST MILTON RD., LOT #19
MILTON VT 05468

4. Generator's Phone (802) 893-6336

A. State Transporter's ID VT 78050

5. Transporter 1 Company Name
ENVIRONMENTAL PROD & SVCS OF VT, INC

B. Transporter 1 Phone (315) 671-1693

7. Transporter 2 Company Name

C. State Transporter's ID

D. Transporter 2 Phone

E. State Facility's ID

9. Designated Facility Name and Site Address
ENVIRONMENTAL PROD & SVCS OF VT, INC.
300 SMITH BLVD.
HM ALBANY NY 12202

F. Facility's Phone
(518) 465-4000

11. Shipping Name

12. Containers
No. Type

13. Total Quantity

14. Unit Wt./Vol.

a. NON-RCRA, NON-DOT SOLIDS, N.O.S. (PETROLEUM CONTAMINATED SOILS)

1 / D M

600

P

b.

c.

d.

G. Additional Descriptions for Materials Listed Above

a. FUEL OIL CONT. SOILS, HHW
X55, #A1109027-DT
b.

c.
d.

a.
b.

c.
d.

15. Special Handling Instructions and Additional Information
JOB #: V0830

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this document are not subject to federal manifest requirements.

Date

Printed/Typed Name

Signature

Month Day Year
6 | 4 | 10

Christy Dion

Christy Dion

17. Transporter 1 Acknowledgement of Receipt of Materials

Date

Printed/Typed Name

Signature

Month Day Year
6 | 4 | 10

TRAVIS MARTZ

Travis Martz

18. Transporter 2 Acknowledgement of Receipt of Materials

Date

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

TRANSPORTER

FACILITY

20. Facility Owner or Operator, Certification of receipt of the materials covered by this bill of lading except as noted in item 19.

Date

Printed/Typed Name

Signature

Month Day Year



Subsurface Log

Hole No.: SB-1

Sheet 1 of

Date started: 5/27/2010

7 Date Finished: 5/27/2010

nt: Christy Dion
 Location: 101 West Milton Road
 Milton, VT

Method of Investigation: advanced soil borings using a hand auger to collect continuous samples.

Project No.: v0830
 Proj. Mgr: Jeremiah Howell
 Geologist: Heather Wheel

Company: EPSVT
 Auger Technician: Heather Wheel
 Auger Type: Hand Auger

Weather: Overcast, 70°

Depth (ft.)	Sample			Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	No.	Depth (in.)	Recovery (%)				
1		0-6	N/A	Medium brown fine sand and silt, dry, slight odor	<10 ppm	NO WELL INSTALLED	N/A
		6-12	N/A	Medium brown fine sand, damp, slight odor	25 ppm		
2							
3							
5							
10							
15							
20							

N = ASTM D1586

Backfill Well Key



Cement



Sand



Native



Bentonite

Sample Types:

S= Split Spoon: _____

T= Shelby Tube: _____

R= Rock Core: _____

O= Other: _____



Subsurface Log

Hole No.: SB-2
Sheet 2 of 7

Date started: 5/27/2010
Date Finished: 5/27/2010

Client: Christy Dion
Location: 101 West Milton Road
Milton, VT

Method of Investigation: advanced soil borings using a hand auger to collect continuous samples.

Project No.: V0830
Proj. Mgr: Jeremiah Howell
Geologist: Heather Wheel

Company: EPSVT
Auger Technician: Heather Wheel
Auger Type: Hand Auger

Weather: Overcast, 70°

Depth (ft.)	Sample			Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	No.	Depth (in.)	Recovery (%)				
		0-6	N/A	Medium brown fine sand and silt, dry, slight odor	20 ppm	NO WELL INSTALLED	N/A
		6-12	N/A	Medium brown silt, damp, no odor	6.4 ppm		
1							
2							
3							
5							
10							
15							
20							

Sample Types:
 S= Split Spoon: _____ T= Shelby Tube: _____
 R= Rock Core: _____ O= Other: _____

N = ASTM D1586

Backfill Well Key

	Cement		Native
	Sand		Bentonite



Subsurface Log

Hole No.: SB-3
Sheet 3 of 7

Date started: 5/27/2010
Date Finished: 5/27/2010

Client: Christy Dion
Location: 101 West Milton Road
Milton, VT

Method of Investigation: advanced soil borings using a hand auger to collect continuous samples.

Project No.: v0830
Proj. Mgr: Jeremiah Howell
Geologist: Heather Wheel

Company: EPSVT
Auger Technician: Heather Wheel
Auger Type: Hand Auger

Weather: Overcast, 70°

Depth (ft.)	Sample			Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	No.	Depth (in.)	Recovery (%)				
		0-6	N/A	Medium brown fine sand and silt, dry, moderate odor	360 ppm	NO WELL INSTALLED	N/A
		6-12	N/A	Medium brown silt, damp, slight odor	10.2 ppm		
1							
2							
3							
5							
10							
15							
20							

Sample Types:
 S= Split Spoon: _____ T= Shelby Tube: _____
 R= Rock Core: _____ O= Other: _____

N = ASTM D1586

Backfill Well Key

Cement Sand	Native Bentonite
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Subsurface Log

Hole No.: SB-4
Sheet 4 of 7

Date started: 5/27/2010
Date Finished: 5/27/2010

Client: Christy Dion
Location: 101 West Milton Road
Milton, VT

Method of Investigation: advanced soil borings using a hand auger to collect continuous samples.

Project No.: v0830
Proj. Mgr: Jeremiah Howell
Geologist: Heather Wheel

Company: EPSVT
Auger Technician: Heather Wheel
Auger Type: Hand Auger

Weather: Overcast, 70°

Depth (ft.)	Sample			Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	No.	Depth (in.)	Recovery (%)				
1		0-6	N/A	Medium brown fine sand and silt, dry, slight odor	437 ppm	NO WELL INSTALLED	N/A
		6-12	N/A	Medium brown fine sand, damp, slight odor	1,200 ppm		
2							
3							
5							
10							
15							
20							

Sample Types:
 S=Split Spoon: _____ T= Shelby Tube: _____
 R= Rock Core: _____ O= Other: _____

N = ASTM D1586

Backfill Well Key

	Cement		Native
	Sand		Bentonite



Subsurface Log

Hole No.: SB-5
Sheet 5 of 7

Date started: 5/27/2010
Date Finished: 5/27/2010

Client: Christy Dion
Location: 101 West Milton Road
Milton, VT

Method of Investigation: advanced soil borings using a hand auger to collect continuous samples.

Project No.: V0830
Proj. Mgr: Jeremiah Howell
Geologist: Heather Wheel

Company: EPSVT
Auger Technician: Heather Wheel
Auger Type: Hand Auger

Weather: Overcast, 70°

Depth (ft.)	Sample			Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	No.	Depth (in.)	Recovery (%)				
		0-6	N/A	Medium brown fine sand and silt, dry, slight odor	0 ppm	NO WELL INSTALLED	N/A
		6-12	N/A	Medium brown silt, damp, no odor	0 ppm		
1							
2							
3							
5							
10							
15							
20							

Sample Types:
 S=Split Spoon: _____ T= Shelby Tube: _____
 R= Rock Core: _____ O= Other: _____
 N = ASTM D1586

Backfill Well Key

Cement Sand	Native Bentonite
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Subsurface Log

Hole No.: SB-6

Date started: 5/27/2010

Sheet 6 of 7

Date Finished: 5/27/2010

Client: Christy Dion
 Location: 101 West Milton Road
 Milton, VT

Method of Investigation: advanced soil borings using a hand auger to collect continuous samples.

Project No.: v0830
 Proj. Mgr: Jeremiah Howell
 Geologist: Heather Wheel

Company: EPSVT
 Auger Technician: Heather Wheel
 Auger Type: Hand Auger

Weather: Overcast, 70°

Depth (ft.)	Sample			Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	No.	Depth (in.)	Recovery (%)				
		0-6	N/A	Medium brown fine sand and silt, dry, moderate odor	70 ppm	NO WELL INSTALLED	N/A
		6-12	N/A	Medium brown silt, damp, slight odor	958 ppm		
1							
2							
3							
5							
10							
15							
20							

Sample Types:
 S= Split Spoon: _____ T= Shelby Tube: _____
 R= Rock Core: _____ O= Other: _____

N = ASTM D1586

Backfill Well Key

	Cement		Native
	Sand		Bentonite



**Subsurface
Log**

Hole No.: SB-7
Sheet 7 of

Date started: 5/27/2010
Date Finished: 5/27/2010

Client: Christy Dion
Location: 101 West Milton Road
Milton, VT

Method of Investigation: advanced soil borings using a hand auger to collect continuous samples.

Project No.: v0830
Proj. Mgr: Jeremiah Howell
Geologist: Heather Wheel

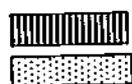
Company: EPSVT
Auger Technician: Heather Wheel
Auger Type: Hand Auger

Weather: Overcast, 70°

Depth (ft.)	Sample			Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	No.	Depth (in.)	Recovery (%)				
		0-6	N/A	Medium brown fine sand and silt, dry, slight odor	195 ppm	NO WELL INSTALLED	N/A
		6-12	N/A	Medium brown fine sand, damp, slight odor	24 ppm		
1							
2							
3							
5							
10							
15							
20							

Sample Types:
 S= Split Spoon: _____ T= Shelby Tube: _____
 R= Rock Core: _____ O= Other: _____

N = ASTM D1586



Backfill Well Key
 Native (diagonal lines)
 Bentonite (cross-hatch pattern)