

**PHASE II ENVIRONMENTAL
ASSESSMENT REPORT**

**Burlington International Airport House Removals
AIP 78**

110 & 120 Airport Parkway
31 Dumont Avenue
396 White Street
1375 & 1379 Airport Drive
South Burlington, Vermont 05403

February 2012

KAS # 509110226

Prepared for
Stantec Consulting, Inc.
55 Green Mountain Drive
South Burlington, Vermont 05403

Prepared by



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1.0 INTRODUCTION

KAS, Inc. (KAS), conducted Phase II Environmental Site Assessment (ESA) activities at various locations within Airport Improvement Project 78 (AIP 78) owned by the Burlington International Airport in South Burlington, Vermont. This work took place from November 2011 through February 2012.

KAS performed the work for Stantec Consulting, Inc. (Stantec) according to written notice to proceed provided by Stantec on November 10, 2011 and under the terms of the sub-consultant agreement by and between KAS and Stantec dated December 6, 2011. KAS performed overall management and select aspects of the work and retained three subcontractors in connection with this work, as outlined in Section 2.1.

The Phase II ESA work locations within AIP 78 included:

- 110 & 120 Airport Parkway
- 31 Dumont Avenue
- 396 White Street
- 1375 & 1379 Airport Drive

The locations of these properties are shown on the property locations map in Appendix A. This report presents a summary of the work that was approved and performed. The conclusions of the work are that three above-ground fuel oil storage tanks (ASTs) were successfully decommissioned, household hazardous wastes were removed from one home and properly transported and disposed of, two pipes of unknown purpose were investigated and found to not be associated with tanks, and that none of the building materials samples collected and tested were indicative of hazardous demolition wastes.

KAS' sub-consultant agreement with Stantec also provides for KAS' performance of asbestos inspection at all structures within AIP 78 and preparation of asbestos abatement specifications. This work has been completed and has been reported on separately for contractor bidding purposes.

2.0 SCOPE OF WORK

The following work scope was completed.

- Preparation of submittals, notifications, approvals, project coordination, and health and safety plan preparation;
- Decommissioning of all ASTs, which included cutting, cleaning and waste containerization, transport and disposal of tank derived wastes by a licensed contractor;
- Characterization (sampling and testing) of building materials for waste disposal purposes via toxicity characteristic leaching procedure (TCLP) and lead testing;
- Removal of identified household hazardous waste materials from the individual houses under manifest, and transport and disposal by a licensed contractor;
- Investigation of two pipes of unknown purpose; and,
- Preparation of a Phase II ESA report (this report).

2.1 Notifications, Approvals, Project Coordination, HASP

Notifications/Approvals

Several notifications and approvals were necessary to implement the work as planned. These were as follows. No permits were required.

- Notification and access agreement of Burlington International Airport staff for coordination purposes, KAS notified Kurt Miller of pending work so that access could be gained to the individual residences.
- Coordination with the Vermont Department of Environmental Conservation (DEC) was performed by EP&S to obtain EPA Identification Numbers for each of the waste generation locations.
- Pre-marking of the excavation and notification of Dig-safe of the pending excavation was performed on November 29, 2011. The Dig-safe numbers issued to the project were 20114903867 (1375 Airport Drive) and 20114903913 (1379 Airport Drive).

Project Coordination

KAS was contracted by Stantec to implement all work associated with this Phase II ESA. KAS performed all work except for the contracted tasks noted below. Alan Liptak, CPG of KAS and an Environmental Professional pursuant to EPA / ASTM definition, was the project manager and planned all tasks, prepared necessary documents, conducted and oversaw the field work and

wrote the reports.

KAS contracted with Environmental Products and Services of Vermont, Inc. of Williston, Vermont (EP&S) to cut and clean the ASTs and to manage the tank derived wastes and household hazardous wastes. KAS contracted with Endyne, Inc. Laboratory Services of Williston, Vermont (Endyne) to perform laboratory characterization testing of building materials samples. KAS contracted with Don Weston Excavating Inc. of Williston, Vermont (Weston) to perform excavation and backfilling (UST closure and pipe identification work).

Health and Safety Plan (HASP)

A site-specific HASP was prepared and implemented to govern the safety aspects of the job in accordance with the Vermont Occupational Safety and Health Administration (VOSHA) requirements. All KAS personnel, and all personnel involved in the project working for KAS, were briefed on the health and safety requirements. No adverse health and safety incidents occurred during conduct of the work.

2.2 Above Ground Storage Tank Decommissioning and Cleaning

KAS coordinated, observed and documented the decommissioning of three ASTs formerly used for storage of #2 fuel oil for home heating purposes. The ASTs were located in the basements at 110 Airport Parkway, 120 Airport Parkway and 1375 Airport Drive. EP&S performed the decommissioning work which included cutting and cleaning the ASTs, manually draining the oil supply and return lines to the furnace (when possible and not inaccessible beneath basement floors or walls), removing the fill and vent piping, and placing the cleaning wastes (including sludge, oil, water, and personnel protective equipment) into containers for shipping to a licensed disposal facility. EP&S also performed documentation including obtaining the appropriate EPA waste generator identification numbers for each location, completing and mailing the waste manifest paperwork, and compiling the documentation and providing it to KAS. The cleaned ASTs and associated piping were left on site as clean scrap metal for disposal by the building demolition contractor. Table 1 presents a summary of the locations where ASTs were decommissioned, the date of decommissioning, and the amount and disposition of wastes generated at each location. Photos of the cleaned ASTs are included in Appendix B.

Table 1: Summary of AST Decommissioning, AIP 78		
Location	Date	Amount and Disposition of Wastes
110 Airport Parkway	12/19/11	15 gallons shipped 12/30/11 under manifest
120 Airport Parkway	12/19/11	5 gallons shipped 12/30/11 under manifest
1375 Airport Drive	12/19/11	15 gallons shipped 12/30/11 under manifest

AST-derived wastes were containerized, transported and disposed of by EP&S. Waste manifest copies are included in Appendix C.

2.3 Building Materials Waste Characterization

KAS collected samples of building materials from four locations within AIP 78. The determination of whether to collect a building materials sample from a specific location was based on the estimated age of the building. Lead paint was effectively banned from United States distribution in 1978 and houses in existence before then are likely to contain lead painted surfaces. Within AIP 78, four houses were constructed pre-1978 and two houses were constructed post-1978 and were not sampled.¹ Characterization sampling was performed to determine that the resulting building debris was not sufficiently enriched in lead so as to render the building waste stream as hazardous by reason of toxicity characteristic – lead.

Representative samples of building materials were collected by KAS’ inspectors concurrent with the asbestos inspection. A reasonable attempt was made to create a building material sample at each location which reflected the composition of the building at large. Destructive sampling techniques were employed and no attempt was made to repair the damage in light of the building’s pending demolition. The sampled materials were varied and included wood, sheetrock, roofing, flooring and floor coverings, exterior siding, concrete, insulating materials, and others, but not friable asbestos containing materials, petroleum or hazardous substances. The samples were containerized and labeled in the field pursuant to KAS’ protocols, then delivered to Endyne under chain of custody procedure for TCLP Lead analysis.

The results of the testing indicate that none of the waste characterization samples contained sufficient extractable lead to render the combined waste

¹ 120 Airport Parkway and 396 White Street.

stream hazardous by reason of toxicity. The state and federal threshold for TCLP lead is 5 milligrams per liter (mg/l) for designation as hazardous waste and none of the test results equaled or exceeded this threshold. Detectable lead was reported in some of the samples and the reported test results are summarized in Table 2. Copies of the laboratory reports are contained within Appendix D.

Location	TCLP Concentration (mg/l)	State/federal threshold for designation (5 mg/l) exceeded?
31 Dumont Avenue	ND <0.20	No
110 Airport Parkway	ND <0.20	No
1375 Airport Drive	ND <0.20	No
1379 Airport Drive	0.31	No

2.4 Household Hazardous Waste Removal

KAS contracted with EP&S to identify and remove household hazardous waste materials at the residential structures within AIP 78. A preliminary inventory of HHW had been made in KAS' Phase I ESA report.² However, several months had passed since the Phase I ESA inspections were done and some of the homes had still been occupied at that time. Thus a follow up inspection was performed by EP&S to make sure that HHW contained in the vacated houses was identified and taken care of properly.

For purposes of this Phase II ESA, the intent was to remove all materials that could become problematic for disposal during demolition efforts therefore HHW included all vessels that contained known or suspected petroleum or hazardous substances, including fuels, aerosols, oils, grease, lubricants, oil based paints, solvents, thinners, stains, pesticides/herbicides and similar materials. EP&S also removed loose fluorescent light bulbs not attached to fixtures. Excluded from the Phase II work scope was removal of any object or substance physically connected to a residence (such as smoke detectors, paint, caulk, mercury thermostats and furnace switches, and fluorescent light bulbs in fixtures), as well as non-hazardous substances such as latex paint, and common household materials such as detergents, bleach, window cleaner, ammonia, and similar materials.

The only household hazardous waste identified during the Phase I ESA were

² KAS, Inc., Phase I Environmental Site Assessment Report, Burlington International Airport AIP 78, October 28, 2011.

at 110 Airport Parkway, where a variety of petroleum based household products were identified.³ EP&S re-inspected and confirmed the presence of household hazardous wastes at 110 Airport Parkway and lab-packed these wastes and removed them from the property on December 30, 2011. A 5-gallon lab pack of non RCRA non DOT wastes, a 10-pound lab pack of flammable liquids, and a 2-pound lab pack of aerosol containers were generated and removed. During this work EP&S also removed an empty 55-gallon steel drum from 31 Dumont Avenue. Waste manifest copies are included in Appendix C.

2.5 Additional Phase II Environmental Assessment Activities

Unknown pipes were investigated at 1375 and 1379 Airport Drive on December 2, 2011. KAS conducted a site visit on November 29, 2011 to premark the properties for DigSafe notification. DigSafe #'s 20114903867 & 20114903913 were assigned to the project. Unknown pipes were discovered during the Phase I ESA and were being investigated to determine if the pipes were connected to an underground storage tank (UST).

Investigative activities were conducted at the 1379 Airport Drive property on December 2, 2011. The suspect pipe noted to be protruding from the ground behind the house was located (see Site Sketch, Appendix E). The pipe was observed to be 1.5-inch diameter and consisted of steel with a hollow opening. The excavator traced the pipe to its end. The pipe was found to end at approximately 5.5 feet below grade. The end of the pipe was found to be solid and was not connected to anything. The excavator dug down to approximately 6-7 feet below grade to confirm the pipe was not previously connected to a UST. No UST was discovered and no signs of contamination were observed.

Investigative activities were next conducted at the 1375 Airport Drive property on December 2, 2011. The suspect pipe noted to be broken off at the ground surface to the north of the house was located (see Site Sketch, Appendix E). The pipe was observed to be 2-inch diameter and consisted of steel with a hollow opening. The excavator traced the pipe to its end. The pipe was found to end at approximately 1.5 feet below grade. The end of the pipe was found to be encased in concrete. The excavator dug down to approximately 2-3 feet below grade to confirm the pipe was not previously connected to a UST. No UST was discovered and no signs of contamination were observed.

³ KAS Phase I ESA report at page iii.

At the conclusion of the work, all soils were returned to the subsurface at each property. The excavated areas were restored with native material to surface grade.

3.0 CONCLUSIONS AND RECOMMENDATIONS

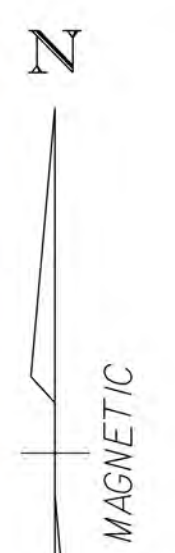
KAS has made the following conclusions in connection with the Phase II ESA work described herein.

- Three former fuel oil ASTs were successfully decommissioned at 110 Airport Parkway, 120 Airport Parkway, and at 1375 Airport Drive. Waste materials were properly managed and removed from the properties. The cleaned ASTs were left on site for the demolition contractor. No further Phase II action is required.
- Four houses were sampled and tested for concentrations of lead to determine whether the demolition debris could be hazardous. The four houses were 31 Dumont Avenue, 110 Airport Parkway, 1375 and 1379 Airport Drive. None of the test results were indicative of hazardous waste due to lead concentrations. The building demolition debris can be disposed of as non-hazardous waste (subject to prior asbestos abatement and compliance with VOSHA regulations).
- Household hazardous wastes were removed from the 110 Airport Parkway residence and properly managed and disposed of. An empty steel 55-gallon drum was removed from the 31 Dumont Avenue property. No further Phase II action is required.
- Two pipes sticking out of the ground at 1375 and 1379 Airport Drive were investigated and found not related to a UST or an AST. No contamination was found and no further Phase II action is required.


Appendix A

Properties Location Map

BURLINGTON INTERNATIONAL AIRPORT HOUSE REMOVALS ON AIRPORT ACQUIRED LAND LOCATION PLAN



- STREET ADDRESS LEGEND:**
- APD = AIRPORT DRIVE
 - APP = AIRPORT PARKWAY
 - DA = DUMONT AVENUE
 - DS = DELAWARE STREET
 - ES = ELIZABETH STREET
 - LT = LEDOUX TERRACE
 - MS = MARYLAND STREET
 - NHC = NORTH HENRY COURT
 - PS = PATRICK STREET
 - PC = PICARD CIRCLE
 - SR = SHAMROCK ROAD
 - WS = WHITE STREET
- COLOR LEGEND:**
- AIP 74= BLUE
 - AIP 79= GREEN
 - AIP 81= CYAN
 - AIP 84= MAGENTA
 - AIP 87= RED
 - AIP MISC. GROUP = BLACK



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SCALE

08 /25 /2011

STANTEC PROJ. #195310992

Appendix B

Photographs



Photographic Documentation
AST Closures
Burlington International Airport
South Burlington, VT

Photograph ID: 05

19-Dec-11

Location:

120 Airport Parkway

AIP 78

KAS Job Number 509110226



Photograph ID: 06

19-Dec-11

Location:

1375 Airport Drive

AIP 78

KAS Job Number 509110226



Photographic Documentation
AST Closures
Burlington International Airport
South Burlington, VT

Photograph ID: 04

19-Dec-11

Location:
110 Airport Drive

AIP 78

KAS Job Number 509110226





Photographic Documentation
Phase II Environmental Site Assessment
Burlington International Airport
AIP 78, South Burlington, VT
KAS Job #509110226

Photograph ID: 01

Location:
1375 Airport Drive

Date: September 22, 2011

Comments:

Shows exposed pipe in the ground with unknown purpose



Photograph ID: 02

Location:
1375 Airport Drive

Date: December 2, 2011

Comments:

Excavation of pipe showing concrete base; apparently was a clothesline pole or other household purpose, not connected to a tank. No signs of contamination were evident.





Photographic Documentation
Phase I Environmental Site Assessment
Burlington International Airport
AIP 78, South Burlington, VT
KAS Job #509110226

Photograph ID: 03

Location:
1379 Airport Drive

Date: December 2, 2011

Comments:

Shows pipe in yard with unknown purpose.



Photograph ID: 04

Location:
1379 Airport Drive

Date: December 2, 2011

Comments:

Shows excavated pipe which apparently was a clothesline pole or a dog run. Pipe was not connected to a tank and no signs of contamination were present during excavation.



Appendix C

Waste Manifest Copies



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

Please print or type

BILL OF LADING		1. Document No. BUR2691	2. Page 1 of 1	
3. Generator's Name and Mailing Address BURLINGTON INTERNATIONAL AIRPORT 1200 AIRPORT DRIVE, #1 SO BURLINGTON VT 05403		Site Address 31 DUMONT AVE. SO. BURLINGTON VT 05403		
4. Generator's Phone (802) 863-2874				
5. Transporter 1 Company Name ENVIRONMENTAL PROD & SVCS OF VT, INC		6. NYR000115733	A. State Transporter's ID 800 843-8265	
7. Transporter 2 Company Name		8.	C. State Transporter's ID	
		9.	D. Transporter 2 Phone	
9. Designated Facility Name and Site Address BURNETT SCRAP METAL 8855 ROUTE 116 HINESBURG VT 05461 HM		10. E. State Facility's ID		
		F. Facility's Phone 802 482-6075		
11. Shipping Name		12. Containers No.	Type	13. Total Quantity
a. NON-RCRA, NON-DOT SOLIDS, N.O.S. (RCRA EMPTY DRUMS)		+	DM	30
b.				
c.				
d.				
G. Additional Descriptions for Materials Listed Above				
a. NO APP # REQUIRED, 1 X <u>55</u> GAL, AIP GROUP #78 c.				
RCRA EMPTY DRUMS				
b. d.				
15. Special Handling Instructions and Additional Information 1) JOB#: V2377				
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.				
Printed/Typed Name Lawren Merley <i>as agent of Burlington Intl Airport</i>				Date Month Day Year 11 19 11
Signature <i>Lawren Merley</i> <i>as agent of Burlington Intl Airport</i>				
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name [REDACTED]				Date 11 19 11
Signature <i>[REDACTED]</i>				
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name				Date Month Day Year
Signature				
19. Discrepancy Indication Space				
20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.				
Printed/Typed Name				Date Month Day Year
Signature				

BILL OF LADING

GENERATOR

TRANSPORTER

FACILITY



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

Please print or type

BILL OF LADING		V T P 0 0 0 0 1 4 0 5 4		1. Document No. BUR2715	2. Page 1 of 1
3. Generator's Name and Mailing Address BURLINGTON INTERNATIONAL AIRPORT 1200 AIRPORT DRIVE, #1 SO BURLINGTON VT 05403			Site Address 110 AIRPORT PARKWAY SO. BURLINGTON VT 05403		
4. Generator's Phone (802) 863-2874					
5. Transporter 1 Company Name ENVIRONMENTAL PROD & SVCS OF VT, INC		6. NYR000115733		A. State Transporter's ID 78C50 VT	
7. Transporter 2 Company Name		8.		B. Transporter 1 Phone 800 843-8265	
				C. State Transporter's ID	
				D. Transporter 2 Phone	
9. Designated Facility Name and Site Address ENVIRONMENTAL PROD & SVCS OF VT, INC 532 STATE FAIR BLVD. SYRACUSE NY 13204 HM			10. NYR000115733		E. State Facility's ID
					F. Facility's Phone 800 843-8265
11. Shipping Name		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.	
a. NON-RCRA, NON-DOT, LIQUIDS, N.O.S. (LAB PACK)		1	DF	5	P
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above					
a. APP #: 1211193-LP, <u>1</u> X <u>5</u> GAL c.					
SEE SLIP #1					
b. d.					
15. Special Handling Instructions and Additional Information					
1) JOB#: V2377					
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.					
Printed/Typed Name <i>KURT MILLER</i>				Signature <i>[Signature]</i>	
				Date Month Day Year 12 30 11	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name <i>JAMES ROBIDEAU</i>				Signature <i>[Signature]</i>	
				Date Month Day Year 12 30 11	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Signature	
				Date Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19.					
Printed/Typed Name				Signature	
				Date Month Day Year	

GENERATOR

BILL OF LADING

TRANSPORTER

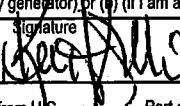
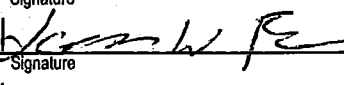
FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number VTP000014054	2. Page 1 of 1	3. Emergency Response Phone 800-843-8265	4. Manifest Tracking Number 004156212 FLE		
5. Generator's Name and Mailing Address BURLINGTON INTERNATIONAL AIRPORT 1200 AIRPORT DRIVE, #1 SO BURLINGTON VT 05403 Generator's Phone: 802 863-2874			Generator's Site Address (if different than mailing address) BURLINGTON INTERNATIONAL AIRPORT 110 AIRPORT PARKWAY SO. BURLINGTON VT 05403				
6. Transporter 1 Company Name ENVIRONMENTAL PROD & SVCS OF VT, INC				U.S. EPA ID Number NYR000115733			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address ENVIRONMENTAL PROD & SVCS OF VT, INC 300 SMITH BLVD. ALBANY NY 12202 Facility's Phone: 518 465-4000				U.S. EPA ID Number NYD986971877			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
	1. RQ NA1993, Waste Fuel oil (NO. 2) Mixture, 3, PGIII	1	DM	15	G	D001	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1) APP #: A1211086-PFT, <u>LX/SGAL</u> , ERG#128 The material is not considered a RCRA or State Hazardous waste in NYS and is being shipped as an off-specification fuel product to be recycle/reclaimed as a fuel product. 2) and is being shipped as an off-specification fuel product to be recycle/reclaimed as a fuel product. 3) 4) JOB#: V2377							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name <i>Kurt Miller</i>				Signature <i>[Signature]</i>		Month Day Year 12 31 11	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <i>James Robidenc</i>				Signature <i>[Signature]</i>		Month Day Year 12 31 11	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number V T P 0 0 0 0 1 4 0 5 4	2. Page 1 of 1	3. Emergency Response Phone 800-343-3265	4. Manifest Tracking Number 004156211 FLE	
5. Generator's Name and Mailing Address BURLINGTON INTERNATIONAL AIRPORT 1200 AIRPORT DRIVE, #1 SO BURLINGTON VT 05403 Generator's Phone: 8 0 2 8 6 3 - 2 8 7 4				Generator's Site Address (if different than mailing address) BURLINGTON INTERNATIONAL AIRPORT 110 AIRPORT PARKWAY SO. BURLINGTON VT 05403		
6. Transporter 1 Company Name ENVIRONMENTAL PROD & SVCS OF VT, INC				U.S. EPA ID Number N Y R 0 0 0 1 1 5 7 3 3		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address ENPRO SERVICES OF VERMONT, INC. 54 AVENUE D WILLISTON VT 05495 Facility's Phone: 802 923-1950				U.S. EPA ID Number V T R 0 0 0 5 1 7 0 5 2		
9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
	1. UN1993, WASTE Flammable Liquids, N.O.S. (Petroleum Distillates, Paint), 3, PGIII	1	DF	10	P	D001
	2. UN1950, WASTE Aerosols, Flammable, 2.1	1	DF	2	P	D001
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1) APP #: VT-1211-08652, 1 X 5 GAL, SEE SLIP #2, ERG#128 2) APP #: VT-1211-08653, 1 X 5 GAL, ERG#126 3) 4) JOB#: V2377, PO#: 41-8469						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name <i>Kurt Milke</i>				Signature <i>[Signature]</i>		Month Day Year 12 30 11
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name <i>James Robiden</i> Signature <i>[Signature]</i> Month Day Year <i>12 30 11</i> Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____						
18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. _____ 2. _____ 3. _____ 4. _____						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name _____ Signature _____ Month Day Year _____						

GENERATOR
TRANSPORTER
DESIGNATED FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number V T P 0 0 0 0 1 4 0 5 5	2. Page 1 of 1	3. Emergency Response Phone 800-843-8265	4. Manifest Tracking Number 004156217 FLE		
5. Generator's Name and Mailing Address BURLINGTON INTERNATIONAL AIRPORT 1200 AIRPORT DRIVE, #1 SO BURLINGTON VT 05403 Generator's Phone: 802 863-2874			Generator's Site Address (if different than mailing address) BURLINGTON INTERNATIONAL AIRPORT 120 AIRPORT PARKWAY SO. BURLINGTON VT 05403				
6. Transporter 1 Company Name ENVIRONMENTAL PROD & SVCS OF VT, INC				U.S. EPA ID Number N Y R 0 0 0 1 1 5 7 3 3			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address ENVIRONMENTAL PROD & SVCS OF VT, INC 300 SMITH BLVD. ALBANY NY 12202 Facility's Phone: 518 465-4000				U.S. EPA ID Number N Y D 9 8 6 9 7 1 8 7 7			
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
		1. RQ NA1993, Waste Fuel oil (NO. 2) Mixture, 3, FGIII	1	DF	5	G	D001
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1) APP # A1211037-PFT, 1 X 5 GAL, ERG#128 The material is not considered a RCRA or State Hazardous waste in NYS 2) and is being shipped as an off-specification fuel product to be recycle/reclaimed as a fuel product. 3) 4) JOE#: V2377							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name <i>Kurt Miller</i>				Signature <i>Kurt Miller</i>		Month Day Year 12 30 11	
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <i>James Robideau</i>				Signature <i>James Robideau</i>		Month Day Year 12 30 11	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
	18b. Alternate Facility (or Generator)				Manifest Reference Number:		U.S. EPA ID Number
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number VTP000014056	2. Page 1 of 1	3. Emergency Response Phone 800-843-8265	4. Manifest Tracking Number 004156216 FLE	
5. Generator's Name and Mailing Address BURLINGTON INTERNATIONAL AIRPORT 1200 AIRPORT DRIVE, #1 SO BURLINGTON VT 05403			Generator's Site Address (if different than mailing address) BURLINGTON INTERNATIONAL AIRPORT 1375 AIRPORT DRIVE SO. BURLINGTON VT 05403			
Generator's Phone: 802 863-2874			U.S. EPA ID Number NYR000115733			
6. Transporter 1 Company Name ENVIRONMENTAL PROD & SVCS OF VT, INC			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address ENVIRONMENTAL PROD & SVCS OF VT, INC 300 SMITH BLVD. ALBANY NY 12202			U.S. EPA ID Number NYD986971877			
Facility's Phone: 518 465-4000						
9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
1.	RQ NA1993, Waste Fuel oil (NO. 2) Mixture, 3, PGIII	1	DM	15	G	D001
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information 1) APP #: A1211090-PFT, LX15 GAL, ERG#128 The material is not considered a RCRA or State Hazardous waste in NYS 2) and is being shipped as an off-specification fuel product to be recycle/reclaimed as a fuel product. 3) 4) JOB#: V2377						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offorer's Printed/Typed Name Kurt Miller			Signature 		Month Day Year 10 30 11	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: JAMES ROBIDEAU Signature:  Month Day Year: 12 30 11 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____						
18b. Alternate Facility (or Generator)					U.S. EPA ID Number	
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name			Signature		Month Day Year	

Appendix D

Building Materials Laboratory Data



KAS, Inc.
PO Box 787 100306
Williston, VT 05495
Atten: Alan Liptak

PROJECT: 509110226 Burlington Airport
WORK ORDER: **1111-17380**
DATE RECEIVED: November 22, 2011
DATE REPORTED: December 14, 2011
SAMPLER: Amy King

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com



160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 12/14/2011

CLIENT: KAS, Inc.
 PROJECT: 509110226 Burlington Airport

WORK ORDER: **1111-17380**
 DATE RECEIVED 11/22/2011

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
001	Site: 31 DU		Date Sampled: 11/15/11		0:00		
TCLP Extract-SVOA/Metals	Completed		EPA 1311	12/5/11	W LJF	A	
Lead, Total TCLP	< 0.20	mg/L	EPA 6010B	12/9/11	W ETK	A	



KAS, Inc.
PO Box 787 100306
Williston, VT 05495
Atten: Alan Liptak

PROJECT: 509110226 Burl Airport AIP 78
WORK ORDER: **1112-19175**
DATE RECEIVED: December 30, 2011
DATE REPORTED: January 17, 2012
SAMPLER: Various

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 01/17/2012

CLIENT: KAS, Inc.
PROJECT: 509110226 Burl Airport AIP 78

WORK ORDER: **1112-19175**
DATE RECEIVED 12/30/2011

001	Site: 110 AP		Date Sampled: 12/9/11 Time: 10:00				
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
TCLP Extract-SVOA/Metals	Completed		EPA 1311	1/11/11	W LJF	A	
Lead, Total TCLP	< 0.20	mg/L	EPA 6010B	1/13/12	W RJL	A	

002	Site: 1375 AD		Date Sampled: 12/12/11 Time: 11:15				
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
TCLP Extract-SVOA/Metals	Completed		EPA 1311	1/11/11	W LJF	A	AN1
Lead, Total TCLP	< 0.20	mg/L	EPA 6010B	1/13/12	W RJL	A	

003	Site: 1379 AD		Date Sampled: 12/12/11 Time: 12:20				
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
TCLP Extract-SVOA/Metals	Completed		EPA 1311	1/11/11	W LJF	A	
Lead, Total TCLP	0.31	mg/L	EPA 6010B	1/13/12	W RJL	A	

Report Summary of Qualifiers and Notes

AN1: Insufficient sample mass submitted for a full 100g TCLP extraction. Sample extracted as a TCLP screen.

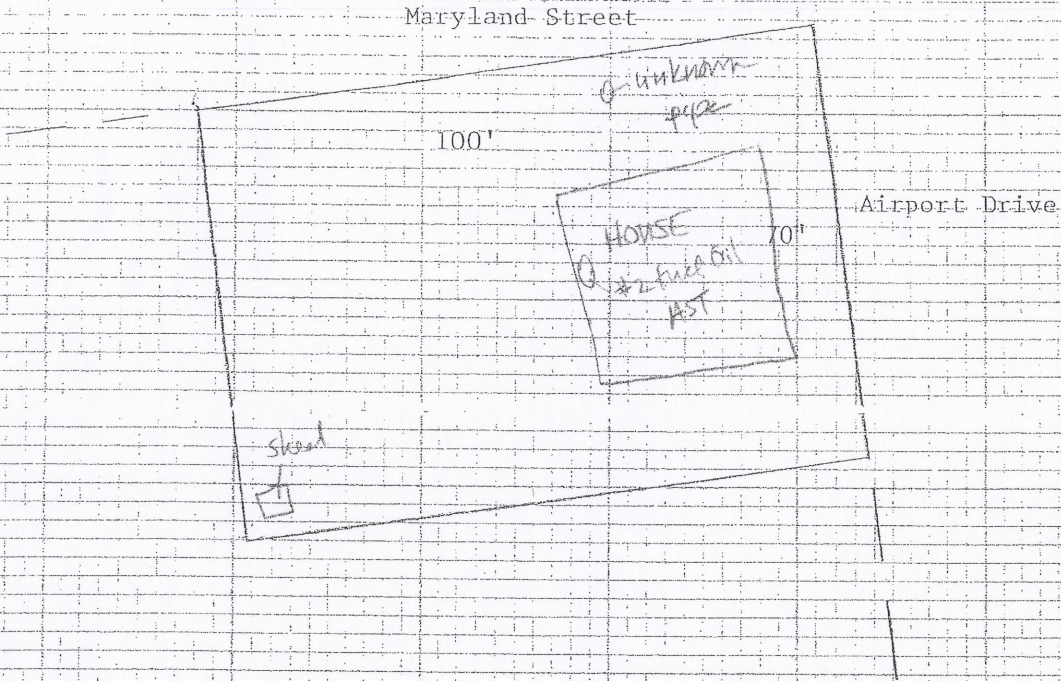
Appendix E

Site Sketches-Additional Phase II ESA

1375 Airport Drive

Site Plan

Obtained from Navin O'Grady
Appraisal Services

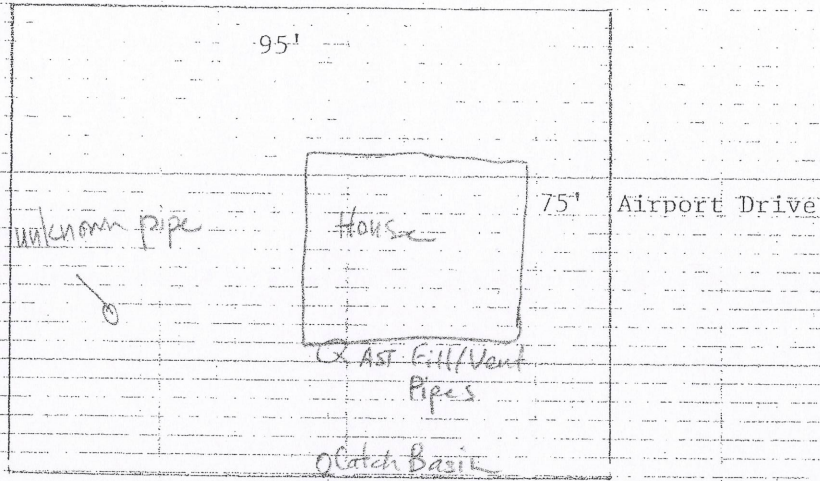


1''=30'

1379 Airport Drive

Site Plan

Obtained from Nain O'Grady
Appraisal Services



1"=30'