Analysis of Brownfields Cleanup Alternatives (ABCA) for Remediation of Soil, Groundwater, and Building-Related Contamination during Building Demolition

Former Fonda Group Facility
St. Albans, Vermont
SMS #2008-3777

Prepared for:
Northwest Regional Planning Commission
155 Lake Street
St. Albans, Vermont 05478
Contact: Greta Brunswick

Prepared By:
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September 24, 2010

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September 24, 2010

Greta Brunswick
Northwest Regional Planning Commission
155 Lake Street
St. Albans, VT 05478

Re: Analysis of Brownfields Cleanup Alternatives for Remediation of Soil, Groundwater, and Building-Related Contamination during Building Demolition at the Former Fonda Group Facility
St. Albans, Vermont
JCO #1-1470-13

Dear Ms. Brunswick:

Please find attached the Analysis of Brownfields Cleanup Alternatives (ABCA) for the referenced Site. Cleanup will be performed using a combination of Brownfield Cleanup Grants to the City of St. Albans, a State of Vermont Revolving Loan Fund (RLF) grant, and the EPA Brownfields RLF the Northwest Regional Planning Commission (NRPC) has received (BF-79191401). This ABCA has been prepared in general accordance with the EPA's October 2004 "Revolving Load Fund Administrative Manual." Remedial actions are necessary at this Site due to the presence of polychlorinated biphenyls (PCBs), semi-volatile organic compounds (SVOCs), metals, and chlorinated volatile organic compounds (VOCs) in some soil above Vermont regulatory limits, chlorinated VOCs in some groundwater above Vermont groundwater regulatory limits, PCBs in some concrete at concentrations that exceed applicable Toxic Substances Control Act regulatory limits, metals above Vermont regulatory limits for groundwater in standing water inside the building, and asbestos-containing materials in the main building and at other locations on the property. However, the scope of this ABCA is limited to items that are related to demolition of the building and removal of near-surface outdoor soils, including only PCBs in building walls, SVOCs and metals in soils, metals in standing water, asbestos-containing building materials, and lead-based coatings. Because some remediation is required to attract a Site redeveloper, the alternatives in the ABCA include an interim measure to temporarily prevent exposure to the PCB-impacted concrete slab, which could be used by a future developer.

If you have any questions or require additional information, please do not hesitate to contact us at 229-4600.

Sincerely,

THE JOHNSON COMPANY, INC.

By: Rhonda Kay
Rhonda Kay
Project Manager

C: Dominic Cloud, City of St. Albans Dorrie Paar, US EPA

Attachment
K:\1-1470-13\CAP\ABCA\092410 Fonda ABCA- Final.doc

Analysis of Brownfields Cleanup Alternatives

for

Former Fonda Group Facility Building Demolition
15-21 Lower Newton Street, St. Albans, Vermont

Prepared by: Rhonda Kay Date: 9/24/10
Rhonda Kay
Project Manager, The Johnson Company, Inc.

and by: Date: 9/24/2010
Joel Behrsing, Vermont P.E. #6070
Technical Reviewer, The Johnson Company, Inc.

EXECUTIVE SUMMARY

An Analysis of Brownfields Cleanup Alternatives (ABCA) has been prepared by The Johnson Company, Inc. for the Former Fonda Group Facility located at 15-21 Lower Newton Street in St. Albans, Vermont (the Site; SMS#2008-3777). The Site is currently owned by the City of St. Albans. The property is composed of a former paper product manufacturing facility (currently vacant), a separate boiler house, storage shed, surrounding parking areas and driveways, and a forested area to the north of the building. Remedial actions are necessary at the Site due to the presence of polychlorinated biphenyls (PCBs), semi-volatile organic compounds (SVOCs), metals, and chlorinated volatile organic compounds (VOCs) in some soil above regulatory limits, chlorinated VOCs in some groundwater above regulatory limits, PCBs in some concrete at concentrations that exceed applicable Toxic Substances Control Act (TSCA) regulatory limits, metals above regulatory limits in surface water inside the building, and asbestos-containing building materials in various structures. At their present concentrations and locations, these contaminants may present a risk to human health during or following redevelopment of the Site.

The City of St. Albans currently plans to demolish the vacant buildings to prepare for redevelopment of the Site. The ABCA does not address uncontaminated portions of the building or property. This ABCA is intended to address remediation activities pertaining to the immediate plans for the Site (i.e., building demolition), and includes a discussion of the necessity of corrective action; a brief summary of previous investigations and their findings; and a presentation of potential remedial options, assessed according to their expected cost, effectiveness, and feasibility. Because the long-term redevelopment plans for the Site are currently unknown, the ABCA identifies selected remediation alternatives for the Site based on the immediate plans to demolish the buildings and prepare the Site for high-occupancy commercial reuse. These alternatives are:

1. removal of near surface soils that exceed the Federal Industrial Regional Screening Levels and TSCA regulatory limits;
2. removal of approximately 650 gallons of water in a shredder pit that exceeds Vermont Groundwater Enforcement Standards (VGES) for cadmium and lead;
3. removal of building walls that contain PCB concentrations above TSCA regulatory limits;
4. removal of asbestos-containing building materials prior to building demolition;
5. soil sampling following building demolition to confirm that building demolition does not result in lead impacts in surface soil at the Site, and additional soil removal if required; and
6. quarterly monitoring of groundwater for chlorinated VOCs for two years following building demolition.

Until redevelopment plans are finalized and the PCB-impacted concrete is addressed, the exposed PCB-impacted slab will be covered with plastic sheeting and gravel as an interim measure for a maximum of five years before re-evaluation or remedial action. Additional corrective action measures will be required to address PCB-impacted concrete before Site

redevelopment. A Notice to the Land Record will be required to notify future owners of soil contamination above residential screening levels, groundwater contamination above Vermont Groundwater Enforcement Standards, and the requirement to maintain the interim cover over the PCB-impacted concrete.

A public meeting was held on August 30, 2010 at the St. Albans City Hall to present the proposed remediation strategy. Public comments received during the meeting have been addressed in this document. No additional public comments have been received. The selected remediation alternatives were not altered as a result of the public comments.

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1.0 INTRODUCTION

This Analysis of Brownfields Cleanup Alternatives (ABCA) was prepared by The Johnson Company, Inc. for the Former Fonda Group Facility located at 15-21 Lower Newton Street in St. Albans, Vermont (the Site; see Figure 1 and Figure 2). The Site is currently owned by the City of St. Albans. The property is composed of a former paper product manufacturing facility, a separate boiler house and storage shed, surrounding parking areas and driveways, and a forested area to the north of the building. Remedial actions are necessary at the Site due to the presence of polychlorinated biphenyls (PCBs), semi-volatile organic compounds (SVOCs), metals, and chlorinated volatile organic compounds (VOCs) in some soil above regulatory limits, chlorinated VOCs in some groundwater above regulatory limits, PCBs in some concrete at concentrations that exceed applicable Toxic Substances Control Act (TSCA) regulatory limits, metals above regulatory limits in surface water inside the building, asbestos-containing building materials, and lead-based coatings. At their present concentrations and locations, these contaminants may present a risk to human health during or following redevelopment of the Site. Cleanup will be performed using a combination of Brownfield Cleanup Grants to the City of St. Albans, a State of Vermont Revolving Loan Fund (RLF) grant, and the EPA Brownfields RLF the Northwest Regional Planning Commission (NRPC) has received (BF-79191401). This ABCA has been prepared in general accordance with the EPA's "Revolving Load Fund Administrative Manual", dated October 2004. VOCs in soil and groundwater beneath the building will not be addressed in this ABCA for the following reasons: 1) downgradient monitoring of groundwater has indicated there have been some off-site impacts; however, there is no use of groundwater at the impacted locations and there are no buildings located above the downgradient impacted locations; 2) monitoring of the on-site and downgradient groundwater has indicated that the chlorinated solvent concentrations are stable or declining and, therefore, risk to potential receptors is not increasing; 3) the concrete building slab will be left in place following demolition, minimizing the risk of contact with or ingestion of contaminated soils or groundwater, and inhalation of contaminated vapor; and 4) the property is not currently used for any purpose and will remain unoccupied until it is redeveloped. Redevelopment of the property that will include buildings above or near the chlorinated VOC-impacted soil and groundwater

should be preceded by an evaluation of the potential for vapor intrusion. A separate ABCA will be prepared to address the PCB-impacted concrete slab and the chlorinated solvent-impacted soil and groundwater once a redevelopment plan is finalized.

This ABCA includes a discussion of the necessity of corrective action; a brief summary of previous investigations and their findings; and a presentation of potential remedial options, assessed according to their expected cost, effectiveness, and feasibility. Recommended remedial techniques will be discussed in greater detail.

1.1 EXPOSURE PATHWAYS

Sensitive receptors that are at risk of being affected by existing contamination include the following:

- Dermal contact, ingestion and/or inhalation of soil or organic particles coated with elevated concentrations of SVOCs, metals, and/or PCBs during Site redevelopment activities;
- Dermal contact, ingestion, and/or inhalation of concrete dust coated with PCBs during Site redevelopment activities;
- inhalation of asbestos containing materials during Site redevelopment activities; and
- dermal contact, ingestion, and/or inhalation of flaking lead-based paint during Site redevelopment activities.

No adjacent property owners are expected to be affected by the presence or cleanup of the PCB-contaminated building materials, SVOC-impacted soils, and metal-impacted water in the building. At present, the Site is unoccupied; therefore, only limited exposure risk to building and utility service personnel and emergency responders exists.

The Site, which covers approximately 5.5 acres near the northwestern corner of downtown St. Albans, is bounded by Lower Newton Street on the south; residential properties to the east on North Main Street; railroad tracks, the former Fonda warehouse building, and offices to the west; and a commercial property to the north. The building site is level, but the

surrounding land slopes down from east to west; as a result, the properties located to the east and a parking lot associated with the Site are situated several feet above the building area. A paved parking lot affords access to the eastern side of the building, and a separate paved area is located along the western side of the building, to the east of the railroad tracks. The building formerly housed the Fonda Group Facility (later Solo Cup), which formed plates from paper stock and printed on the plates. The manufacturing facility closed in late 2005, and the City of St. Albans purchased the property in 2007. The building is composed of three parts, which are referred to (in this letter and in previous investigations) as Building #1, #2, and #3, and are sequentially oriented from south to north. The southern portion of the facility, called Building #1, is approximately 48,000 square feet and was the first to be constructed. Buildings #2 and 3, which are approximately 30,300 square feet and 40,000 square feet, respectively, are attached in a line from south to north. The City of St. Albans plans to demolish Buildings #1, 2, and 3 in preparation for Site redevelopment. There is also currently a vacant, treed area on the northern end of the property. There are no existing land use restrictions.

Presently, the building is unoccupied, and efforts are being made to limit access to the building; those who enter, including utility meter readers and firemen who inspect the sprinkler system, are warned of the presence of PCBs in concrete dust on the floor and are asked to wear the supplied Tyvek protective boot covers while inside the building.

1.2 REMEDIAL ACTION OBJECTIVES

The objective of the remedial action is to reduce to an acceptable level the risk to human health caused by contamination at the Site. The goals of the remediation are to:

1. Reduce levels of contamination in surface soils to below the Federal Regulatory Screening Levels (RSLs) for Industrial soil used by the VT DEC as soil screening levels;
2. Mitigate risk of exposure to cadmium and lead present in the standing water in the shredder pit inside the building at concentrations above Vermont Groundwater Enforcement Standards (VGES);
3. Mitigate risk of exposure to concrete with PCB concentrations that exceed the proposed building use limits under TSCA; and

4. Ensure that human exposure to asbestos containing and lead-impacted building materials remains controlled in a manner that does not pose a risk to human health.

Contaminant concentrations by media and water table elevations are summarized in Section 2. Sampling locations are shown in Figures 3 and 4. The most recent groundwater elevation map is provided as Figure 5, and geological cross-sections are provided in Figures 6b and 6c.

The concentrations of contaminants addressed in this ABCA above applicable standards were delineated during the course of a Phase II investigation (summarized in Section 2.1) and a supplemental off-Site investigation (summarized in Section 2.2). A short-term (two year) monitoring plan for sampling the existing groundwater monitoring wells is summarized in Section 4.4. Since specific redevelopment plans have not been confirmed, a staged approach to corrective action is proposed; therefore, a schedule of remedial system startup and a formal long term O&M plan has not been identified.

1.3 CLEANUP STANDARDS AND APPLICABLE LAWS

In locations where soil will remain accessible to future Site users, the cleanup goal will be the Federal Industrial Regional Screening Levels (RSLs), which Vermont has adopted for use as screening levels. For all concrete, brick, or other porous building materials, the PCB cleanup goal is the TSCA regulatory limit of 1 part per million (ppm). Since standing water in the pit inside the building is not a drinking water source or a fish habitat but could infiltrate into groundwater, the Vermont Groundwater Enforcement Standards (VGES) will be used as a cleanup goal. Concentrations in chlorinated VOC-impacted groundwater beneath the building will be compared against VGES levels. Because the Site is enrolled in the Redevelopment of Contaminated Properties Program (RCPP), hazardous wastes generated as part of this remedial action are exempt from Vermont taxes. The code VX66 must be used in the Waste Codes section of the federal Uniform Hazardous Waste Manifest to claim the tax exemption. The City of St. Albans must receive a temporary waste generator number from the State of Vermont before proceeding with disposal of hazardous wastes.

Activities at the Site related to demolition must be performed in accordance with, at minimum, the following regulations: Vermont Air Pollution Control Regulations (Vermont Environmental Protection Regulations Chapter 5-231 Prohibition of Particulate Matter); US Clean Air Act (CAA) including the National Emission Standard for Hazardous Air Pollutants for Asbestos (Section 112 of the CAA and 40 CFR Part 61, Subpart M); National Ambient Air Quality Standards (40 CFR Part 50); National Asbestos Hazard Emergency Response Act (AHERA); Vermont Regulations for Asbestos Control (VRAC; VSA Title 18, Chapter 26); Vermont Regulations for Lead Control (VSA Title 18, Chapter 38); US Occupational Safety and Health Administration (OSHA) worker protection requirements (29 CFR Part 1910); US Department of Transportation regulations (49 CFR Parts 171 and 172); and the Clean Water Act Stormwater Program (40 CRF Part 122).

Handling, transportation, and disposal of hazardous wastes are governed by the following regulations, at minimum: Vermont Hazardous Waste Management Regulations; US Resource Conservation and Recovery Act (RCRA) regulations governing transportation, treatment, storage, and disposal of hazardous wastes (40 CFR Parts 260 through 299); US Department of Transportation regulations (49 CFR Parts 171 through 180); US Occupational Safety and Health Administration (OSHA) worker protection requirements (29 CFR Part 1910); and the National Ambient Air Quality Standards- Particulates (40 CFR Part 50).

2.0 SUMMARY OF PREVIOUS INVESTIGATIONS

2.1 PHASE II INVESTIGATION RESULTS

The Johnson Company was contracted by the NRPC to perform a Phase I Environmental Site Assessment (ESA) update for the Site in December 2007 and a subsequent Phase II ESA was conducted between February and October 2008. The Phase II Environmental Site Assessment included sampling for metals, PCBs, VOCs, and SVOCs. The results of the investigation are summarized below. The areas of concern are illustrated on Figure 7. Sampling locations are depicted on Figures 3 and 4.

2.1.1 *Overview*

The results of the ESA indicate that many of the compounds tested in soil and groundwater at the Site are not of significant concern. These compounds include VOCs in most soil and most groundwater, SVOCs in most soils and all groundwater, and most metals in soils and groundwater. Except for chlorinated VOCs in soil and dissolved in groundwater beneath Building #2, no evidence of gross contamination in soils or groundwater was observed during the investigation.

PCBs, some metals, TCE, and some SVOCs were detected above regulatory limits in some media at the Site. These constituents of concern are discussed below. Figure 7 depicts the areas of concern for these analytes.

2.1.2 *PCBs*

Inside the buildings, PCBs were determined to be present above the TSCA regulatory limit of 1 part per million (ppm) in the concrete slab in two general areas: inside the manufacturing area (where some printing presses were used), warehouse, and maintenance room in Building #1; and in the "printing area" on the eastern side of Buildings #2 and 3, included the printing press room, ink storage room, mixing room, and hazardous waste storage room. All PCB sampling locations are shown on Figure 3.

2.1.2.1 PCBs in Building #1

The PCB results were used to delineate areas of the concrete floor in Building #1 with different ranges of concentrations, which are shown on Figure 7. As indicated on Figure 7, there is a total area of approximately 25,000 square feet of concrete slab in Building #1, including the manufacturing floor, warehouse/storage area, and maintenance room, that contains surficial PCB concentrations between 1 and 10 ppm: an area of approximately 6,200 square feet containing PCBs at concentrations between 10 and 50 ppm and an additional 1,660 square feet containing PCB concentrations greater than or equal to 50 ppm (all PCB areas above 10 ppm are located on the manufacturing floor). In total, the area of concrete containing more than 1 ppm of PCBs is approximately 32,900 square feet. In Building #1, the average concrete thickness is

approximately 0.7 feet; therefore, the total volume of concrete containing 1-50 ppm PCBs is 801 cubic yards (including 207 cubic yards from the warehouse/storage area and 44 cubic yards from the maintenance room). Approximately 43 cubic yards contain greater than or equal to 50 ppm PCBs.

2.1.2.2 PCBs in Buildings #2 and 3

The PCB results were used to delineate areas of concrete floor in Buildings #2 and #3 with different ranges of PCB concentrations, which are shown on Figure 7. As indicated on Figure 7, there is approximately 9,000 square feet of concrete with PCB concentrations between 1 and 50 ppm (including approximately 6,000 square feet between 1 and 10 ppm PCB and 3,000 square feet between 10 and 50 ppm). Of the total concrete with PCB concentrations from 1 to 50 ppm, there is approximately 4,000 square feet north and west of the printing room and 5,000 square feet is in the printing room and adjoining rooms to the east (including the ink mixing and storage rooms and hazardous waste storage room). The average concrete thickness in Buildings #2 and 3 north and west of the printing room is approximately 0.7 feet, and the thickness inside the printing room and eastern adjoining rooms is approximately 1.2 feet; therefore, the total volume of concrete with concentrations between 1 and 50 ppm that would be disposed of from the area associated with the printing area in Buildings #2 and #3 (if the entire slab is removed) is approximately 326 cubic yards. There is an additional 1,600 square feet of concrete containing PCBs at concentrations greater than or equal to 50 ppm inside the printing room, resulting in a demolition volume of that type of concrete of 71 cubic yards.

It is assumed that in the printing room, the entire length of the southern wall and the southern section of the western wall (a total of 78 linear feet) may be contaminated with PCBs between 1 and 50 ppm. Using the 7 foot height, this results in an area of 546 square feet, and a volume of approximately 13 cy (assuming the wall is constructed of standard concrete masonry units), and a mass of 13 tons. It is assumed that all of the walls of the hazardous waste storage room are contaminated with PCBs at concentrations greater than or equal to 50 ppm. These walls have a total linear length of approximately 67 feet and an area (using a height of 7 feet) of

469 square feet. The resulting volume and mass of the masonry walls contaminated with PCBs greater than or equal to 50 ppm is, therefore, 11 cubic yards and 11 tons.

2.1.2.3 PCBs in Transformer Areas

There are two fenced transformer substations at exterior locations. The PCB-containing transformers at Transformer Substation #1, located on the western side of Building #2 were removed in February 2010 by Central Vermont Public Service (CVPS). The transformer substation on the western side of Building #3 (Transformer Substation #2) is currently active with in-service transformers, which are the property of the building owner; the PCB-containing oil in these transformers was replaced by non-PCB oil in 2002, according to information in a previous report. For safety reasons, the concrete at Transformer Substation # 1 could not be sampled until the transformers were removed, but the soil surrounding the concrete pad was sampled at both Transformer Substations #1 and 2, and since there was more room between the energized transformers and the fence at Transformer Substation # 2, bulk concrete samples could be safely collected from that concrete pad in the 2008 investigation. CVPS collected composited concrete and soil samples from Transformer Substation #1 on March 24, 2010. The composited bulk concrete sample from Transformer Substation #1 contained PCBs at 0.3 ppm (below TSCA regulatory limits), and the bulk concrete samples from Transformer Substation # 2 did not contain any PCBs above the laboratory detection limits. All of the soil samples from both transformer substations had PCB concentrations below 1 ppm (five were less than the detection limit and the other three ranged from 0.08 to 0.4 ppm). The estimated area of PCB impacts is 250 square feet on the southern and eastern side of the Pad 2. If the depth of contamination is estimated at 1 foot, the total in-place volume of PCB-impacted soils in this area is approximately 9 cubic yards.

2.1.3 *Metals*

Based on the findings from hand-excavated test pits, the main dump area is estimated to be a 22 by 24 foot oval (approximately 400 square feet, with the wider portion oriented east to west) centered on test pit T-1. The trash in the dump area appeared to be deeper in the center portion (approximately 3-feet below ground surface, b.g.s.) and shallower towards the edges

(approximately 2-feet b.g.s.). In addition to the main dump area, a 54 foot by 62 foot area (3,350 square feet) surrounding the main dump area contains scattered surficial solid waste debris, primarily broken glass, bricks and cinder blocks, at a depth of less than 6 inches. Accounting for the various depths across the dump area, the total volume of trash requiring removal is approximately 66 cubic yards. The highest concentration of lead in any of the dump soil samples was 1,000 mg/kg, which exceeds the Residential and Industrial RSLs.

Vanadium was also detected at a concentration that exceeded the previous Vermont Soil Screening Standard (the EPA Region 9 Preliminary Remediation Goal) for Residential soils in the MW-10 (0-1') sample, but this concentration was below the Residential and Industrial RSLs, so no action is required.

The floor drain located beneath the conveyor belt in Building #2 contains sediment with a concentration of lead (610 mg/kg), which exceeds the Residential RSL but does not exceed the Industrial RSL. It is also possible that the other floor drain that is located in the manufacturing area of Building #2, on the western side of the Printing Area wall, may also contain an elevated lead concentration (this floor drain was not sampled). In total, it is estimated that the volume of lead-contaminated soils in these floor drains is approximately 0.02 cubic yards.

The standing water in the shredder pit contained cadmium (0.006 mg/L) and lead (0.019 mg/L) concentrations that were above the VGES levels. It is estimated that the shredder pit currently contains approximately 650 gallons of standing water, though this volume may change due to evaporation and/or leaks in the roof.

2.1.4 *VOCs*

There are no shallow soils (to a depth of 3.5 feet) that are impacted by TCE at levels above 14 mg/kg (the Industrial RSL, which is currently used as a soil standard by VT DEC). A small volume of soils in the vicinity of SC-12 (7-8 feet) contains TCE concentrations that, at 15 mg/kg, slightly exceed the Industrial RSL. Two other samples (SC-5 0.5-1.5 feet, and SC-9 7-7.8 feet) exceeded the Residential RSLs but were below Industrial RSLs. The TCE RSLs that

are currently used for soil screening are significantly higher than the previous soil screening levels (the Region 9 Residential and Industrial PRGs were 0.053 mg/kg and 1.3 mg/kg, respectively; the Residential and Industrial RSLs are 2.8 mg/kg and 14.0 mg/kg, respectively); as such, the volume of TCE-contaminated soils that would require remedial action is significantly smaller than previously estimated.

The TCE contamination in soils appears to be impacting groundwater and likely represents a residual source for dissolved contamination in groundwater over time. Although no TCE was reported in the groundwater sample from monitoring well MW-4 collected in the winter, the TCE concentration was above the VGES in the summer round (at 7 ug/L). In addition, a groundwater sample from monitoring well MW-12, which was installed downgradient of the soils containing elevated TCE, contained a TCE concentration of 190 ug/L and a concentration of cis-1,2-dichloroethene (cis-DCE) of 2,100 ug/L. The VGES limits for TCE and cis-DCE are 5 ug/L and 70 ug/L, respectively. The presence of a TCE breakdown product (cis-DCE) in groundwater indicates that some anaerobic biodegradation is occurring. Chlorinated VOCs in groundwater have the potential to migrate extensively downgradient and can impact the indoor air quality in buildings located above, near, or downgradient of the source area. An additional downgradient investigation was performed to evaluate these impacts, as detailed in Section 2.2.

2.1.5 *SVOCs*

One semi-volatile organic compound (SVOC) in the polynuclear aromatic hydrocarbon (PAH) range, namely benzo(a)pyrene, was detected in the MW-8 (0-1') soil sample at a concentration above the Residential RSL, but below the Industrial RSL. However, the soil at this location is currently covered with asphalt, which may be the source of this elevated PAH concentration and is currently mitigating contact and dust inhalation/ingestion risks to receptors.

Several PAH compounds were also detected in the sample collected from the floor drain beneath the conveyor (Conv-FD) above their Residential and Industrial RSLs, including benzo(a)anthracene at 8.0 mg/kg (Industrial RSL is 2.10 mg/kg). The estimated volumes of

PAH contaminated soils or sediments in the Conv-FD floor drain is 0.01 cubic yard. The sample collected from the soil inside the boiler house (B Drain) contained the next highest concentrations of PAHs, with multiple PAH compounds present above the Industrial RSL thresholds. There are several low areas inside the boiler house where soil has collected, and it is anticipated that all of this soil (estimated at 6 cubic yards) contains elevated PAH concentrations. The samples from around the storage shed (called Storage Shed, PAH-1, PAH-2, and PAH-3) and catch basin (CB-1) samples also contained concentrations of PAHs above the Residential RSLs but below the Industrial RSLs.

The only non-PAH SVOC compound detected in any of the soil or sediment samples was pentachlorophenol, which was reported at 70 mg/kg in the Conv-FD sample. This concentration is many times greater than the Industrial RSL of 9.0 mg/kg. It is not clear what the source of pentachlorophenol in this floor drain sediment was; though this compound was historically used as a biocide in inks, it was also used as an insecticide and fungicide and, much more commonly, as a wood preservative. It is notable that, despite the hardened-foam consistency of the materials in the Printing Area floor drain (PP-FD), no typical plasticizers such as phthalates were detected above the laboratory detection limits in the sample.

2.1.6 *Asbestos-Containing Materials*

In Building #1, asbestos-containing building materials (ACBM) included window glazing on one window, and some roofing materials (some flashing cement and the silver coating). In Building #2, ACBM consisted of caulking material associated with some steel window frames, roof patching material, and lightweight cement on the roof deck. In Building #3, ABCM was present in the built-up roofing on the southwest corner, and in roof patching material. ACBM associated with the boiler house included insulating materials on piping inside the boiler house and in the overhead chase that houses the pipe as it crosses the paved driveway and enters Building #1. The roofing material on the Storage Shed and the wooden fire hydrant shelter were also ACBM.

2.1.7 *Lead-Based Paint*

In general, positive lead-based paint results were reported in materials associated with windows in several rooms, some walls, some doors and door jambs, some I-beams and posts, as well as yellow-painted surfaces on the interior and exterior of the building.

2.1.8 *Mold Issues*

At the time of the assessment, conditions for mold growth, including excessive moisture as a result of past or current roof leaks and the absence of heating or air conditioning in the building, were favorable. Multiple mold spore types were identified during the investigation, such as Stachybotrys, Aspergillus, and Penicillium. Mold control may be accomplished by removing the water infiltration and removing and/or treating the structural building components that have existing mold growth.

2.2 DOWNGRADIENT INVESTIGATION RESULTS

Following the presentation of Phase II ESA results, The Johnson Company completed additional investigation activities to assess the impacts of chlorinated VOCs to groundwater downgradient of the source area beneath Building #2 using EPA brownfields grant funding administered by NRPC. The investigation was conducted in two stages, and the results were presented in a letter dated August 20, 2009, summarized below.

2.2.1 *Downgradient Investigation: Stage 1*

The first stage of the downgradient investigation was initiated in March 2009, following the completion and approval of Modification 4 (February 13, 2009) to the Phase II ESA QAPP Addendum. In March and April 2009, two deep (“D”) and three shallow (“S”) groundwater monitoring wells along a transect located approximately 100 feet to the west of the building, sufficiently close assess migration of the chlorinated VOCs and far enough away to show evidence of biodegradation. These wells included MW-13S, MW-13D, MW-14S, MW-15S, and MW-15D. The total well depths are summarized in Table 7.

Of the downgradient wells, only the MW-15 pair contained any detectable VOCs. The MW-15S sample contained 140 µg/L of cis-1,2-DCE, and the MW-15D sample contained 4 µg/L of cis-1,2-DCE (significantly lower than the VGES of 70 µg/L). In shallow groundwater,

the detection of cis-1,2-DCE in the MW-15S sample at a concentration significantly lower than in the source area may indicate the northern edge of a dissolved plume or may show the results of the dechlorination that has occurred between the source area and the transect. The direction of the dissolved plume movement was not observed directly along the direction of groundwater flow, indicating that subsurface geology has a significant influence. The previously installed wells were also sampled, and the samples from MW-4 and MW-12 contained TCE and breakdown products at concentrations consistent with historical results. Based on this information, a Stage 2 investigation was designed to further delineate downgradient impacts in shallow groundwater.

2.2.2 *Downgradient Investigation: Stage 2*

The Stage 2 downgradient field investigation was conducted July 8 through July 14, 2009 following submittal of Modification 5 (June 26, 2009) to the QAPP Addendum, and focused on the southern portion of the former Fonda warehouse property. The objectives of the Stage 2 investigation were to:

1. further delineate downgradient impacts of chlorinated VOCs to groundwater near buildings located on the adjacent property;
2. assess the potential for additional migration towards the residences located farther west; and
3. evaluate the southern extent of the chlorinated VOC impacts and direction of the plume relative to groundwater flow direction.

Shallow water table borings were installed with a Geoprobe drill rig along two transects, one in each of the southeastern and southwestern portions of the former Fonda warehouse driveways that straddle the former Northwest Counseling Center property. Borings were advanced into the shallow water table, temporary wells were installed, and grab samples were collected with a peristaltic pump once adequate water was present. A mobile gas chromatograph equipped with a mass spectrometer (mobile GC/MS), capable of reporting as low as 2 µg/L for chlorinated VOCs, was employed to analyze results of the grab samples collected along these

transects. The locations of the borings are shown on Figure 4, and screened intervals and total depths are shown on Table 2-2.

Table 2-2 Screened Interval and Total Depth of Geoprobe Borings		
Location	**Screened Interval (feet)**	**Total Depth (feet)**
P-1*	4.5-8.0	9.5
P-2	4.5-8.0	9.0
P-3	3.5-7.0	7.3
P-4	5.0-8.5	8.5
P-5	4.5-8.0	9.0
P-6	5.5-9.0	9.5
P-7	7.0-10.5	10.5
P-8	4.8-9.3	9.3
P-9	5.3-8.8	8.8
P-10*	8.5-12.0	12.0
P-11	6.8-11.3	11.3
* Duplicate sample submitted for laboratory confirmation		

The first three samples (P-1 through P-3) were collected from northern, middle, and southern points along the eastern transect. All chlorinated VOC results were reported non-detect (<2 µg/L). Since no impacts were observed at the southernmost point of the transect, an additional sample boring (P-4) was installed 100 feet south of the southernmost point of the transect to confirm that the plume was not likely to impact the building at the former Northwest Counseling Center property. Since no impacts were observed at the northernmost point of the eastern transect, an additional boring (P-5) was installed 30 feet north of the northernmost point of the transect to confirm that the plume had not migrated to the north. Three additional sampling borings (P-6 through P-8) were spaced at 20 foot intervals between P-1 and P-3. One sample from the southeastern property transect (P-1) was submitted for laboratory confirmation.

To evaluate potential impacts to the residential properties to the west, three grab samples were collected along a western transect (P-9 through P-11). All chlorinated Mobile GC/MS results were reported non-detect (<2 µg/L), and one sample (P-10) was submitted for laboratory confirmation. An additional grab sample was collected from MW-15S for Mobile GC/MS

analysis and submitted for laboratory confirmation; cis-1,2-DCE was the only compound reported above laboratory detection limits in Mobile GC/MS and laboratory confirmatory samples. Mobile GC/MS and laboratory confirmatory results are compared in Table 2-3.

Table 2-3 Grab Sample Results for cis-1,2-Dichlorethene (µg/L)

Location	Mobile GC/MS	Laboratory Confirmation Sample
P-1	<2	<2
P-10	<2	<2
MW-15S	190	250

The laboratory reporting limits were consistent with Mobile GC/MS reporting limits, and the relative percent difference (RPD) reported for cis-1,2-DCE in MW-15S is 27%, indicating an acceptable correlation of Mobile GC/MS and laboratory results.

Two additional monitoring wells, MW-16 (co-located with the P-6 grab sampling point on the eastern transect) and MW-17 (co-located with the P-11 grab sampling point on the western transect), were installed with the Geoprobe. The MW-16 monitoring well was screened from 3.7 to 8.5 feet below ground surface (bgs) and the MW-17 monitoring well was screened between 3.4 and 8.2 feet bgs.

Following installation of MW-16 and MW-17, the wells were developed and allowed to recharge. Before sampling on July 14, 2009, water levels were obtained from monitoring wells. MW-16 and MW-17 were field surveyed relative to the top of casing elevation at MW-15S. The water levels are summarized in the attached Table 7, and the shallow groundwater flow direction is shown on Figure 5.

On July 14, 2009 monitoring wells MW-12, MW-13S, MW-14S, MW-15S, MW-16, and MW-17 were sampled using low flow sampling techniques for analysis of chlorinated VOCs via EPA Method 8260B.

The analytical results are shown on Figure 5. Sampling results are summarized in Table 6.

The results indicate that MW-15S is the only monitoring well downgradient of the Site with VOCs reported above laboratory detection limits. TCE and its associated breakdown products continued to be present in MW-12 and increased concentrations were reported in July 2009 results when compared with April 2009, which may be attributable to seasonal variations in the water table.

The groundwater in the vicinity of the factory building generally flows west, consistent with localized topography. In the vicinity of MW-15S, there appears to be some mounding and the groundwater flows towards the intermittent stream directly to the east, and towards the off-site wells to the north and west.

Based on the Stage 1 and Stage 2 investigation results, the extent of the chlorinated VOC plume consisting of TCE and associated breakdown products has been delineated. The installation of 11 Geoprobe sampling points and 2 monitoring wells downgradient of the TCE source area indicates that the plume has migrated off-site, but that it has not migrated a significant distance beyond the MW-15S location, which is approximately 100 feet west of the building. Although TCE was detected at elevated concentrations in the groundwater at MW-12, the groundwater at MW-15S contained only cis-1,2-DCE, which is a breakdown product of TCE. Therefore, there is evidence that some natural attenuation of TCE has occurred, although there is not sufficient data to determine if this process will continue in the future.

2.2.3 *Downgradient Investigation: April 2010*

Groundwater monitoring was conducted on April 12th and 13th, 2010. Depth to water measurements were collected from all Site and downgradient monitoring wells, with the exception of MW-11, which could not be located and based on field observations may have been destroyed. Three previously impacted wells (MW-4, MW-12, and MW-15S) and six downgradient wells (MW-13S, MW-13D, MW-14S, MW-15D, MW-16, and MW-17) were

sampled using low-flow sampling techniques. Samples were analyzed for chlorinated VOCs using EPA Method 8260B at Eastern Analytical, Inc.

Compared to historical analytical results, detections of chlorinated VOCs in MW-4 and MW-15S were reported at similar concentrations, and detections in MW-12 were reported at lower concentrations. The highest concentrations of TCE and associated breakdown products continued to be in MW-12; the concentration of TCE in MW-12 decreased between the July 2009 and April 2010 sampling events, from 1,700 µg/L to 730 µg/L, while the concentration of trans-DCE increased from ND (<2 µg/L) to 20 µg/L.

Overall, the data indicate that the natural attenuation and biodegradation process continues to occur, and that the plume remains stable and does not appear to be migrating beyond the vicinity of MW-15S. With the exception of MW-15S, no detections were reported in downgradient monitoring wells. No detections were reported in the paired deep monitoring well MW-15D. Groundwater levels were observed level with the top of casing (TOC) elevation in the two deep monitoring wells (MW-13D and MW-15D) indicating and upward gradient in the deep wells, which may impede downward migration of dissolved VOCs.

Overall, the chlorinated VOC concentrations appear to be stable or declining, based on the available data.

2.3 ALLEGED WASTE DUMP SAMPLING RESULTS

In April 2009, Matt Becker of the VT DEC supervised the excavation and stockpiling of green-stained soils as part of an investigation for a reported waste pit located east of the driveway near the hazardous waste loading dock. The stained soils were located within a 2-inch thick soil horizon at a depth of 6 inches below the ground surface. At Mr. Becker's direction, the excavation crew from the City of St. Albans stockpiled the stained soils and covered them with plastic, and installed wooden stakes to define the excavated area. Based on the findings from previous soil and groundwater sampling at the remainder of the site, The Johnson Company limited the analyses of the soil samples to polychlorinated biphenyls (PCBs). Sampling was

conducted on July 1, 2009. Samples were placed on ice and shipped under chain of custody protocol to Phoenix Analytical Laboratories, Inc. in Manchester, Connecticut. Field notes and laboratory analytical results are attached. Two samples were collected and submitted for PCB analysis: one sample from the green-stained soils within the stockpile, and one sample from approximately 1 foot below the currently exposed in situ soil in the excavated area. No visual staining was observed in the in situ soils. Samples were analyzed for PCBs via EPA Method 8082 with Soxhlet extraction.

Since concentrations in stockpiled soil were greater than 1 ppm ("Stockpile" at 2.5 ppm of Aroclor-1254), The Johnson Company contacted Kimberly Tisa, the Northeast Regional Coordinator for PCB regulatory issues at the Toxic Substances Control Act (TSCA) division of EPA. Ms. Tisa stated that since the waste product (green ink) was segregated and sampled and the concentration was significantly lower than a typical PCB-contaminated ink product, she will deem the waste ink and the stockpiled soils an "excluded PCB product not regulated for disposal" under TSCA. Therefore, the stockpiled soil was disposed of at the Casella landfill by a City of St. Albans crew before the end of July 2009; no prior TSCA approval was required.

The in-situ soils contained a PCB concentration above the Residential RSL but below the Industrial RSL ("In Situ", containing 0.25 ppm of Aroclor-1254). The extent of PCB-impacted soils has not been defined.

3.0 ANALYSIS OF CLEANUP ALTERNATIVES

The current plan for the Site is to demolish all buildings to provide an open space for future commercial/industrial, high occupancy use.

3.1 CLEANUP TASKS NOT INCLUDED IN ABCA

Although there are two transformer substations associated with the property, only one (Substation 2) is owned by the City of St. Albans. The oil in the transformers at this substation has been changed to non-PCB-containing oil. The transformer owned by CVPS has been removed from the Site. The Site-owned transformer is currently in-use but likely to be

demolished. Although the transformer must be removed in accordance with TSCA requirements, the removal and disposal is not a remedial action in this ABCA. The Site owner will be required to retain a licensed PCB waste transporter to sample the oil in the transformer and dispose of the waste transformer appropriately.

Mold-impacted materials are not addressed in this ABCA because risks from exposure to mold will be eliminated with demolition of the buildings.

3.1 CLEANUP TASKS INCLUDED IN ABCA

The items or areas of concern at the Site are limited to the following: 1) PCBs in concrete in Building #1; 2) PCBs in concrete in Buildings #2 and 3; 3) near surface soils with PCB, SVOCS, and metals contamination; 4) floor drain sediments; 5) soils and groundwater with chlorinated VOC contamination; 6) water in the shredder pit; 7) asbestos-containing building materials; and 8) lead-based coatings.

Immediately following demolition of the buildings, the concrete slab will be left in-place for potential remediation and reuse by the prospective redevelopers, and the Site will continue to be unoccupied until redevelopment occurs. As such, an interim measure to cover the concrete slab in-place is proposed. An alternatives analysis for concrete slab cleanup or risk management has not been included in this document because the future use has not been determined. For similar reasons, and because the chlorinated VOC concentrations appear to be stable or declining, no remedial alternatives analysis has been included to address chlorinated VOC contamination in soil and groundwater beneath Building #2 and at limited downgradient locations. Following the development of definite plans for reuse of the Site, remediation alternatives for the concrete slab and the chlorinated VOCs (in soil, groundwater, and soil vapor, as appropriate) must be developed, evaluated, and implemented. The VT DEC has stated that they will require quarterly groundwater monitoring for a minimum period of two years following building demolition. Since this is a requirement of the VT DEC, an alternatives analysis has not been performed; the sampling requirements are described in Section 4.6.

The most feasible potential alternatives with respect to effectiveness, implementability, and cost are evaluated in the following subsections. Following this evaluation, the planned property reuse scenario is used to screen these alternatives and select the most appropriate option, as described in later sections of the ABCA.

3.1 NEAR SURFACE SOILS WITH PCB, SVOC, AND METALS CONTAMINATION

PCB-, SVOC-, and metals-contaminated soils are present at various locations around the Site, including the areas and volumes summarized in Table 3.1, below.

Table 3.1 Summary of Near Surface Soils containing PCBs, SVOCs, and/or Metals

Location	Contaminant and Concentration	Volume	Solid Waste or Hazardous Waste
Concentrations above Industrial RSLs			
Near hazardous waste storage area loading platform	PCBs- 0.52 ppm to 49 ppm PCBs- equal to or greater than 50 ppm	22 cubic yards 22 cubic yards	Solid waste Hazardous waste
Floor drains in Printing Area	PCBs- 0.8 ppm (above industrial limits)	0.02 cubic yards	Solid waste or daily cover
Floor drains in Building #2 outside Printing Area	Lead- 610 mg/kg, PAHs- above residential and industrial levels, and Pentachlorophenol- 70 mg/kg	0.02 cubic yards	Expected to be solid waste, but TCLP samples required to confirm
Former dump area north of building	Lead- maximum of 1,000 mg/kg (some soils are above industrial limits)	66 cubic yards	Expected to be solid waste, but TCLP analysis for lead required to confirm. Some may be used as daily cover.
Soils inside Boiler House	PAHs- above residential and industrial levels	6 cubic yards	Solid waste
Concentrations above Residential RSLs but below Industrial RSLs			
Edge of transformer pad 2	PCBs- maximum of 0.4 ppm (below industrial limits)	9 cubic yards	Solid waste or daily cover
Beneath asphalt near front loading dock (near MW-8)	PAHs (below industrial limits)	Unknown volume	Solid waste or daily cover
Inside catch basin to the east of Building #3	PAHs (below industrial limits)	Unknown volume (<0.1 cubic yard)	Solid waste or daily cover
Reported ink disposal area east of hazardous loading dock area	PCBs- maximum of 0.25 ppm (below industrial limits)	Unknown volume	Solid waste or daily cover
Surface soil immediately north, south, and west of the Storage Shed	PAHs (below industrial limits)	9 cubic yards	Solid waste or daily cover

3.1.1 Near-Surface Soils Cleanup Alternatives: No Action

No cleanup at the Site and no implementation of any land use controls would occur under the No Action alternative. This alternative would leave contamination in-place at concentrations above Industrial RSLs, which may pose a risk to future site users. Although the existing conditions at the Site (i.e., no occupancy) do not require cleanup, the No Action alternative is not consistent with the near-term plans to redevelop the Site into industrial or commercial property. Redevelopment of the Site with the contaminated soils in-place would not be allowed under Vermont's hazardous waste regulations. There is no cost associated with the No Action alternative.

3.1.2 Near-Surface Soils Cleanup Alternatives: Institutional Controls

Based on the future Site use as non-residential, the soils containing PCB and PAH contamination above Residential RSLs but less than Industrial RSLs may be left on-site with a Notice to the Land Records. The soil near the hazardous waste loading dock has concentrations of PCBs above 100 ppm and, therefore, may not be left on-site under any circumstances. For other soil contaminated with lower concentrations of PCBs, metals, or pentachlorophenol, which all tend to adsorb to soil, risks to human health and the environment are largely from direct contact, ingestion, or inhalation. As such, a feasible alternative may be to consolidate them in one area of the Site and cover them with a cap of soil or asphalt. Recent rulings by the VT DEC Solid Waste Department have required that contaminated soils be placed only in the footprint of an already contaminated location. Although plans for redevelopment of the Site are uncertain, one of the objectives of the City of St. Albans is to prepare the Site in a way that is attractive to a range of development options; capping soil in-place or consolidating all contaminated soil and capping on-site will not be consistent with this objective. In addition, the contaminated soils discussed in this ABCA are near-surface and easily accessible. Given the uncertain redevelopment scenarios, placing a durable cap over in-place soils may result in additional work in the near-term to remove the cap and relocate or remove the soils. Similarly, consolidating and capping the soils could limit the redevelopment options or also require additional excavation. A Deed Restriction would be required to prevent exposure to the contaminated soils as long as the contaminant concentrations remain above Industrial RSLs. Capping soils in-place would not be

possible for soils inside the boiler house, which will be removed entirely, although these soils could be moved to a consolidated pile elsewhere on-site. This alternative would not reduce the volume or toxicity of contamination, but would be effective in limiting exposure to contaminants for as long as the covers are maintained. There are no on-site in-situ or ex-situ treatment options that are economically feasible for the small total volume and full range of types of contamination in the near-surface soils at the Site. There are HAZWOPER-trained contractors in and near St. Albans who could perform the work required under this alternative. A representative of the redeveloper and future site owner will be required to perform annual inspections to document that the caps are functioning as intended. The cost to remove PCB soils above 100 ppm, relocate at least some of the soils, cap all contaminated on-site soils with a minimum of 1 foot of clean soil (or 0.5 foot of asphalt) and implement a deed restriction with annual monitoring for an estimated duration of 50 years is estimated at $56,000.

3.1.3 Near-Surface Soils Cleanup Alternatives: Removal and Disposal

The near-surface soils at the Site that are contaminated at levels above Industrial RSLs can be accessed by hand or using an excavator. Their removal would reduce risk to Site users in the short- and long-term because the soils would be permanently removed from the Site. An estimated total of 22 cubic yards of soils are assumed to be hazardous waste, based on their PCB concentrations, but for cost estimating and planning purposes, it has been assumed that the full 44 cubic yards of PCB-impacted soils near the hazardous waste loading dock will be disposed of as hazardous waste. The remaining soils, an estimated 82 cubic yards, will need to be disposed of as solid waste or used as daily cover at a landfill, although soils with concentrations of contaminants above industrial limits often may not be used as daily cover. There are HAZWOPER-trained contractors in and near St. Albans who could perform the work required under this alternative. Removal and disposal of PCB-contaminated soils will require advance approval from the TSCA PCB Coordinator. The estimated cost to remove and dispose of all PCB-, SVOC-, and metals-contaminated soils is estimated at approximately $74,600, including reporting and confirmatory sampling.

3.1.4 Near-Surface Soils Cleanup Alternatives: Comparison and Recommendation

The No Action alternative is rejected because it would not be allowed by the VT DEC if the Site is redeveloped in any way. The Institutional Controls alternative (removal of hazardous PCB soil and capping of other contaminated soils on-site) could limit the redevelopment alternatives for the Site and could require additional remediation work in the near-term. The removal and disposal alternative also eliminates the need for annual inspections associated with the Institutional Controls alternative. Since the Institutional Controls alternative is only slightly less costly than the Removal and Disposal alternative, which would meet the objective of the City of St. Albans to prepare the Site for redevelopment, the Removal and Disposal alternative has been selected.

3.2 WATER IN THE SHREDDER PIT

3.2.1 Water in the Shredder Pit Alternatives: No Action

No cleanup at the Site and no implementation of any land use controls would occur under the No Action alternative. This alternative would leave contamination in-place at concentrations above VGES limits, which may pose a risk to future site users or to groundwater if it infiltrates through the bottom of the pit. The shredder pit is unlikely to be reused by a future redeveloper, and the water in the shredder pit, due to contamination, has no use. There is no cost associated with the No Action alternative.

3.2.2 Water in the Shredder Pit Alternatives: Removal and Disposal

At the time of the Phase II investigation, approximately 650 gallons of water with concentrations of cadmium and lead above VGES levels was present in the shredder pit. Removal of the water in the shredder pit will ensure that it is not released to groundwater or available for human contact. To prevent safety risks to future users, the pit should be filled in or fenced to prevent accidental entry. The St. Albans water treatment facility and the VT DEC have authorized disposal to the St. Albans Wastewater Treatment Facility as a one-time discharge. The City of St. Albans could perform this work with their pumps and staff and have indicated that there would not be an associated cost for this work (i.e., the estimated cost is $0).

3.2.3 Water in the Shredder Pit Alternatives: Comparison and Recommendation

Removal and disposal of the water in the shredder pit will eliminate the risk of releasing the water to groundwater and risks as the result of human exposure. Therefore, Removal and Disposal has been selected as the preferred remedial alternative.

3.3 ASBESTOS-CONTAINING MATERIALS

3.3.1 Asbestos-Containing Materials Alternatives: No Action

The No Action alternative would entail performing no asbestos abatement at the Site. Since the building will be demolished, this alternative would not be possible. The applicable asbestos regulations would not allow demolition to proceed without a plan to address asbestos-containing materials (ACM). There is no cost associated with the No Action alternative.

3.3.2 Asbestos-Containing Materials Alternatives: Asbestos Abatement

The Asbestos Abatement alternative would entail performing asbestos abatement in advance of demolition or performing demolition in such a manner that it will not release asbestos. The specific requirements for all asbestos-related demolition will be developed by a certified asbestos designer in cooperation with the Vermont Department of Health's Asbestos and Lead Program using the results of the asbestos assessment. The cost for the Asbestos Abatement alternative is estimated at $137,000.

3.3.3 Asbestos-Containing Materials Alternatives: Comparison and Recommendation

Since the No Action alternative could not legally be selected and allow for demolition, the Asbestos Abatement alternative has been selected.

3.4 LEAD-BASED COATINGS

3.4.1 Lead-Based Coatings Alternatives: No Action

The No Action alternative would entail performing no monitoring for lead releases at the Site during or after demolition. The applicable lead regulations would not allow demolition to proceed without post-demolition monitoring for lead. There is no cost associated with the No Action alternative.

3.4.2 Lead-Based Coatings Alternatives: Soil Confirmation Sampling

The Soil Confirmation Sampling alternative would entail performing post-demolition sampling of soil immediately outside the former building footprint to assess lead releases to soil as a result of demolition activities. Soil identified to contain lead concentrations above Industrial RSLs would be removed. The cost for the Soil Confirmation Sampling alternative is estimated at $7,800.

3.4.3 Lead-Based Coatings Alternatives: Comparison and Recommendation

Since the No Action alternative could not legally be selected for a demolition, the Soil Confirmation Sampling alternative has been selected.

3.5 PUBLIC COMMENTS

A public meeting was held at the St. Albans City Hall on August 30, 2010 to present and discuss the proposed remediation strategy. The following questions were submitted and discussed during the meeting (responses to these questions are included below each question):

1. Is there any asbestos or contamination remaining in the cellar of Building #1 (the wooden front structure) where the original heating system was located?
   Response: Asbestos-containing materials have been identified by a licensed asbestos investigator in several parts of the building. Asbestos abatement designs and plans will be approved by the Vermont Department of Health as part of the pre-demolition process.
2. Do any of the walls in the former areas of the ink mixing room and rotogravure press room on the east side of the building contain any ink or acetone/acetate contamination and what is the potential health hazard from that contamination to the people working within several hundred feet of the demolition work?
   Response: PCB contamination has been detected in some building walls. The ink appears to be the source of the PCBs. Soil and groundwater have been sampled at the Site and no acetone/acetate has been detected at elevated concentrations. Acetone is very volatile and is unlikely to be present on the walls, whereas acetate is unlikely to pose risks. Dust control (generally using water) during demolition

will be required. No dust releases to adjacent properties are expected to occur during demolition.

3. Is there any mold contamination on any walls which are planned to be removed and what is the potential health hazard from the mold and dust from the cement block buildings to people working within several hundred feet of the demolition work?
   Response: Mold has been detected in the interior of some parts of the building. Mold spores are in air and require specific conditions to grow. Disturbance of mold during demolition is not expected to have any impact on neighboring properties. As stated above, dust will be controlled during demolition to prevent a potential health hazard.
4. What is the condition on the roofs, especially on Buildings #2 and #3 from bird droppings and what is the potential health hazard from the removal of these droppings to people living within several hundred feet of the demolition work?
   Response: Asbestos-containing materials have been identified in the roof, and careful demolition will be required to contain roofing materials. The Department of Health will be approving roof demolition plans and should be consulted regarding the bird droppings.
5. What precautions has the City taken for the additional traffic which will be added to Lower Newton and Federal Streets as a result of this demolition?
   Response: Potential impacts to traffic should be considered during the preparation of demolition specifications.

No additional public comments were received. The comments received have been considered in the selection of corrective action techniques.

4.0 SELECTED CORRECTIVE ACTIONS

This section provides details of the recommended corrective action techniques. The long-term redevelopment plan for the Site is unknown; however, to find a potential redeveloper

for the Site, the City of St. Albans plans to demolish Buildings #1, 2, and 3. All of the items discussed in this document are not dependent on future site plans.

4.1 SOILS WITH PCB, SVOC, AND METALS CONTAMINATION

Near surface soils have been identified with PCB, SVOC, and metals contamination above industrial RSLs. Due to the accessibility of these soils to any site visitor or user, and relatively small volume of impacted soil, the only feasible alternative considered for these soils is removal and proper disposal. The Environmental Professional will provide a notification of planned self-implementing cleanup activities to the EPA's TSCA Coordinator for the northeast region at least two months in advance of cleanup activities for approval. It is anticipated that the waste subcontractor will be required to prepare a work plan for PCB-impacted soil removal activities in accordance with TSCA requirements.

Due to some uncertainty regarding the contents of the soils in some of the floor drains and in the former dump area, the Environmental Professional will premark the excavation areas three weeks in advance of planned Site work, and collect one sample from each of the two floor drains outside of the Printing Area for TCLP analysis for metals and pentachlorophenol, as well as three samples from a depth of 1.0-2.0 feet bgs from the former dump area for analysis of TCLP metals. These results will be used to determine the disposal requirements for the soils. If the results of the TCLP analyses are greater than 100 ug/L for pentachlorophenol or 5 ug/L for lead, the soils will be characterized as hazardous waste and cannot be disposed of at a landfill. Based on the most recent sampling, however, the TCLP results are not likely to be above hazardous waste limits. The Environmental Professional will supply the landfill with all relevant analytical results in advance of disposal.

In advance of segregating the PCB impacted soils in the hazardous waste loading dock between less than 50 ppm (non-hazardous) and greater than or equal to 50 ppm (hazardous), the Environmental Professional will pre-mark the excavation area three weeks in advance and collect four additional soil samples from the area, two from 0-1 foot bgs, and two from 1-2.5 feet bgs, which will be analyzed for PCBs by EPA Method 8082 with Soxhlet extraction. The results will

be supplied to the proposed disposal facilities in advance of excavation. Asphalt will also be a component of the waste in the hazardous loading dock area.

A HAZWOPER-trained demolition contractor will remove all SVOC-, PCB-, and metals-impacted soil. The following equipment is expected to be required: tree removal equipment for the former dump area; an excavator for the former dump area and soils around surrounding transformer pad 2; a Vactor truck or hand tools for soils inside the former boiler house; and hand tools for floor drains. It is estimated that the total volume of hazardous soil is 44 cubic yards (66 tons) and the total volume of non-hazardous soil (requiring disposal as solid waste or use as landfill alternative daily cover) is 82 cubic yards (123 tons). The specific soil removal areas are detailed in Table 4.1a, below. If soil cannot be loaded immediately into dump trucks or roll-off containers, it will be completely encapsulated in plastic sheeting until loading. Best construction management practices will be employed to avoid dispersing dust or spilling soil in clean areas. A bill of lading will be required to accompany the non-hazardous soils during transport. A waste manifest will be required to accompany hazardous soils during transport. Non-hazardous soils will be disposed of at a lined landfill, such as the ISW facility in Moretown, Vermont or the Casella facility in Coventry, Vermont. The hazardous soils must be disposed of at a hazardous waste landfill that is permitted to accept soil with PCB concentrations above 50 ppm, such as the Waste Management facility in Model City, New York or the EQ facility in Michigan.

Table 4.1a Summary of Corrective Actions for Near Surface Soils containing PCBs, SVOCs, and/or Metals			
Action/Location	**Contaminant and Concentration**	**Volume**	**Solid Waste or Hazardous Waste**
Removal: Near hazardous waste storage area loading platform	PCBs- 0.52 ppm to 50 ppm PCBs- above 50 ppm	22 cubic yards of soil and asphalt: 2.5 ft bgs over ~235 sq ft 22 cubic yards of soil and asphalt: 2.5 ft bgs over ~235 sq ft	Solid waste Hazardous waste
Removal: Floor drains in Printing Area	PCBs- 0.8 ppm (above industrial limits)	0.02 cubic yards: small floor drains	Solid waste or daily cover
Removal: Floor drains in Building #2 outside Printing Area	Lead- 610 mg/kg, PAHs- above industrial levels, and Pentachlorophenol- 70 mg/kg	0.02 cubic yards: small floor drains	Expected to be solid waste, but TCLP samples required to confirm
Removal: Former dump area north of building	Lead- maximum of 1,000 mg/kg (some soils are above industrial limits)	66 cubic yards: 3 ft bgs over 400 sq ft, 0.5 ft bgs over 3,350 sq ft	Expected to be solid waste, but TCLP analysis for lead required to confirm. Some may be used as daily cover.
Removal: Soils inside Boiler House	PAHs- above industrial levels	6 cubic yards: thin layer accumulated over floor and in trenches	Solid waste
cy = cubic yards ft bgs = feet below ground surface		sq ft = square feet	

Immediately following excavation activities, the Environmental Professional will collect confirmatory soil samples as detailed in Table 4.1b, below. If the analytical results exceed industrial screening levels, additional excavation and confirmatory sampling will take place. Alternatively, if the analytical results exceed residential (and not industrial) screening levels for PAHs and/or RCRA 8 metals, the area will be backfilled with clean soil and a notice to the City of St. Albans land records will be filed, indicating the observed presence soil impacted above screening levels. The Environmental Professional will provide a letter report to the VT DEC documenting the soil removal within two weeks of receipt of final analytical results.

Table 4.1b Confirmatory Soil Samples		
Location	**Number of Samples**	**Analysis**
Near hazardous waste storage area loading platform	18 + 2 duplicates (1 per 25 square feet)	PCBs by EPA Method 8082 with Soxhlet extraction
Former dump area north of building	3 + 1 duplicate	RCRA 8 Metals by EPA Method 6020

4.2 WATER IN THE SHREDDER PIT

Approximately 650 gallons of water in the shredder pit will be removed for treatment prior to building demolition. The City of St. Albans will perform this work, and the St. Albans water treatment facility and the VT DEC have authorized disposal to the St. Albans Wastewater Treatment Facility as a one-time discharge

4.3 PCB-IMPACTED CONCRETE

Following demolition of the building walls and roof, the concrete slab will be left in place. Although a majority of the concrete slab in Buildings #2 and 3 contains PCBs concentrations that are lower than 1 ppm and may be reused or recycled if demolished, the concrete in the majority of Building #1 and in and around the Printing Area in Buildings #2 and 3 is impacted by PCBs at levels which preclude unrestricted redevelopment. Therefore, future redevelopment activities at the Site must address this concrete either by covering the surface or by removing the entire slab depth.

In the interim, following demolition of the walls and roof, the PCB-impacted portions of the floor may be left in place if the property is fenced or other measures are taken to limit access to the concrete slab. In Building #1, the concrete block walls assumed to contain PCBs at concentrations above 1 and less than 50 ppm are estimated, at an average height of 5 feet and 320 feet long, to have a total volume of 40 cubic yards and an approximate weight of 40 tons. In Buildings #2 and 3, the walls up to 3 feet high with PCB concentrations between 1 and 50 ppm are estimated at a total volume of 13 cubic yards and an approximate weight of 13 tons. Also in Buildings #2 and 3, there is an estimated 11 cubic yards or 11 tons of concrete block wall with PCB concentrations above 50 ppm. The Environmental Professional will conduct additional sampling of the walls and the concrete slab in advance of demolition. Approximately 36 wall

samples and 4 duplicates are proposed for areas where PCB contamination on walls is suspected. Pending comments from TSCA regarding the notification for cleanup, it is assumed that some sampling of the concrete floor slab will be required before the cover is placed. As such, the cost estimate has been carried through this document as an additional item that VT DEC has stated it will not fund, but this work might not be required. The concrete block walls will be demolished and disposed as appropriate according to their PCB concentrations.

Due to the presence of PCB concentrations above 50 ppm in some of the concrete slab, the fence or other barrier must be marked to show that PCBs are present. To ensure no risk is posed to receptors through direct contact or inhalation/ingestion of dust following erosion of the concrete, the entire slab will be covered with a protective layer of plastic sheeting, which will be held in place by a thin layer of clean material.

The Environmental Professional will premark the areas to be covered. A layer of 10-mil plastic sheeting will be placed on top of the concrete slab. Since no disturbance of the concrete will occur, this work will not need to be performed by a HAZWOPER-trained worker. A layer of clean gravel, stones, or rubble (such as clean rubble from the demolished building) will be placed in a thin layer over the plastic to hold it in place. A Notice to the Land Records (NTLR) must also be filed in the City of St. Albans land records to warn a future owner against using the slab without removing the areas that are contaminated by PCBs; a draft NTLR is included in Appendix 3. To prevent falls or other safety hazards, the City of St. Albans may wish to fill in or fence the shredder pit and fence any portions of the slab that are more than 2 feet above the surrounding ground surface; however, because these issues are not environmental concerns, they are not required by this ABCA.

The estimated cost to perform additional wall sampling, demolish the PCB-impacted walls and appropriately dispose of the concrete block waste, cover the concrete, and place the NTLR is $48,073 (note: this cost is not inclusive of demolition of uncontaminated building

materials, walls, or concrete slab). The Environmental Professional will document the cover used in a letter to the VT DEC and EPA TSCA coordinator within two weeks of completion.

If additional floor sampling is required by TSCA before the cover is installed, the sampling is estimated to cost an additional $3,691.

4.4 ACM ABATEMENT

All ACM will be removed from the building in preparation for demolition. This will include removal of the ACM associated with portions of the roof, windows, insulation, and wall and floor coverings. This technique will effectively remove all of the ACM from the Site. All work will be conducted in accordance with VRAC by a Vermont-certified Asbestos Abatement Entity (contractor) using Vermont-certified Asbestos Supervisors and Workers. Project management, project monitoring, clearance visual inspections, clearance air sample collection/analysis, and reporting will be performed by a Vermont-certified Asbestos Abatement Entity (consultant) that employs Vermont-certified Asbestos Project Monitors. All abatement plans and reports must be approved by VT DOH.

4.5 LEAD-BASED PAINT SOIL CONFIRMATION SAMPLING

The buildings will be demolished by a HAZWOPER-trained contractor using best practices to control dust. After the building has been removed, five discrete soil samples and one duplicate will be collected from the remaining soil outside the former building footprint. The samples will be analyzed for total lead via EPA Method 6200 and the laboratory will be instructed to hold the remaining soils in the sample containers, which will be analyzed if the total lead sample result exceeds the industrial Regional Screening Level (RSL). The additional analysis will be a Toxicity Characteristic Leaching Procedure (TCLP) for lead. If lead concentrations are above industrial standards, the soil will be removed in 6 inch lifts to a depth not-to-exceed 2 feet below the planned soil elevation upon redevelopment. Soil must be disposed of at a landfill; depending on the concentrations, it will be disposed of as solid waste (if TCLP concentrations indicate that the soil is hazardous, it must be disposed of as hazardous waste; however, based on previous sampling results for the Site, this is not expected). The

landfill manager must review the soil concentrations to approve the disposal method. A bill of lading will be required to accompany the non-hazardous soils during transport. A waste manifest will be required to accompany hazardous soils during transport. Non-hazardous soils will be disposed of at a lined landfill, such as the ISW facility in Moretown, Vermont or the Casella facility in Coventry, Vermont. The hazardous soils must be disposed of at a hazardous waste landfill that is permitted to accept soil with lead TCLP concentrations above 5 milligrams per liter (based on TCLP analysis), such as the Waste Management facility in Model City, New York or the EQ facility in Michigan.

4.6 GROUNDWATER MONITORING

This sampling will be conducted quarterly for two years and will include sampling nine wells in total, including: three previously impacted wells (MW-4, MW-12, and MW-15S), and six downgradient wells (MW-13S, MW-13D, MW-14S, MW-15D, MW-16, and MW-17). Depth to water measurements will be collected from all Site and downgradient monitoring wells that remain intact after the building demolition and soil removal work. Sampling will be performed using low-flow sampling techniques, during which physicochemical parameters will be monitored and recorded until stable to ensure groundwater samples are representative of the aquifer. A peristaltic pump will be used to purge and sample the wells. Samples will be collected from all nine wells, in addition to a blind duplicate sample, and submitted on ice under chain of custody protocol for VOC analysis using EPA Method 8260B (chlorinated compounds only). A detailed cost estimate for this sampling is provided in Appendix 2. The total cost for the eight sample rounds is estimated at $34,254.

5.0 COST ESTIMATE

The total estimated cost for remediation items, including the interim action is $305,420. It should be noted that slight modifications to this estimate may be required due to potential changes to the soil removal volumes, unexpected site and/or weather conditions, etc. The total estimated cost for remedial actions associated with Site redevelopment following building demolition will depend on selected remedial alternatives based on specific uses proposed for the Site.

6.0 NOTICE TO THE LAND RECORDS

It is expected that the interim concrete covering will be required for a maximum of five years. If the Site has not been redeveloped within five years, the City of St. Albans or current owner must notify TSCA and VT DEC of their future plans for the Site to mitigate risk to receptors. Table 7.1 summarizes the areas in will be included in an NLTR for the property if the listed conditions are met.

Table 7.1 Notice to the Land Record Items

Area	Item	Condition
Soil surrounding MW-8	Inform future owners of the presence of PAHs at concentrations above Residential RSLs.	Required unless soil is removed.
Soil surrounding Transformer Substation #2 pad	Inform future owners of the presence of PCBs at concentrations above Residential RSLs.	Required unless soil is removed.
Soil immediately north, south, and west of the Storage Shed	Inform future owners of the presence of PAHs at concentrations above Residential RSLs	Required unless soil is removed.
Soil east of the driveway and southeast of the hazardous waste loading dock (alleged waste ink dumping area)	Inform future owners of the presence of PCBs at concentrations above Residential RSLs.	Required unless soil is removed.
Soil beneath Building #2	Inform future owners of the presence of TCE and associated breakdown products at concentrations above Industrial and Residential RSLs, and of the potential for vapor intrusion.	Required unless soil is removed or remediated.
Groundwater beneath Building #2 and approximately 100 feet west of the building.	Inform future owners of the presence of TCE and associated breakdown products at concentrations above VGES limits, and of the potential for vapor intrusion.	Required until concentrations decline below VGES limits and potential indoor air concentrations from vapor intrusion impacts are shown to be below human health risk levels.
Concrete slab with PCB concentrations above 1 ppm	Inform future owners of the presence of concentrations of PCBs and of their obligations to inspect and maintain the cover until remedial action is complete. Documentation of annual inspections must be forwarded to VT DEC and maintained on file by the building owner.	Will be required unless remedial action occurs immediately.

TABLES

Table 1a. Analytical Results: Bulk Concrete PCBs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Map Label	Location	Depth	Date	PCB-1016		PCB-1221		PCB-1232		PCB-1242		PCB-1248		PCB-1254		PCB-1260		PCB-1262		PCB-1268		Total PCBs	*Total PCBs x # of Composites*
										CONCRETE													
	BULK SAMPLES																						
	TSCA Regulated Lower Limit: 1 ppm (total PCBs)																						
				(mg/kg)		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**	***(mg/kg)***
B-1	B-1	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.1	U	0.1		0.3		0.1	U	NA	U	NA	0.5	
B-2	B-2	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.1	U	0.1		0.3		0.1	U	NA	U	NA	0.5	
B-3	B-3	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.1	U	0.1		0.1		0.2	U	NA	U	NA	0.4	
B-4	B-4	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.2	U	0.1		0.3		0.1	U	NA	U	NA	0.6	
B-5	B-5	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.1	U	0.1		0.2	<	0.1	U	NA	U	NA	0.4	
B-6	B-6	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.1	U	0.1		0.1	<	0.1	U	NA	U	NA	0.3	
B-7	B-7	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.5	U	0.1		3.8		0.9	U	NA	U	NA	5.2	
B-8	B-8	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.2	U	0.1		14		1.1	U	NA	U	NA	15.3	
	B-8 Duplicate	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.3	U	0.1		10		1	U	NA	U	NA	11.3	
	RPD										*40%*				*33%*		*10%*						
B-9	B-9	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.1	U	0.1		0.2	<	0.1	U	NA	U	NA	0.4	
B-10	B-10	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.3	U	0.1		2.3	<	0.1	U	NA	U	NA	2.7	
B-11	B-11	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1		0.2		0.2	U	NA	U	NA	0.4	
B-12	B-12	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1		0.2		0.4	U	NA	U	NA	0.6	
B-13	B-13	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.2	U	0.1		6.8		1.4	U	NA	U	NA	8.4	
B-14	B-14	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.2	U	0.1		0.6		0.4	U	NA	U	NA	1.2	
B-15	B-15	0-0.5"	2/25/2008	U	0.1	U	0.1	U	0.1		0.2	U	0.1		0.3		0.3	U	NA	U	NA	0.8	
ad 2 (S) Co	Pad 2 (S) Conc	0-0.5"	2/6/2008	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	NA	U	NA	0	
ad 2 (N) Co	Pad 2 (N) Conc	0-0.5"	2/6/2008	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	NA	U	NA	0	
MR-1	MR-1	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.6	
MR-2	MR-2	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	0.5	
MR-3	MR-3	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.4	
MR-4	MR-4	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.2	
MR-5	MR-5	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.8	
MR-6	MR-6	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.1	
MR-7	MR-7	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.2	
MR-8	MR-8	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.3	
MR-9	MR-9	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	0.67	
MR-10	MR-10	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.1	
MR-11	MR-11	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	0.38	
MR-12	MR-12	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.7	
	MR-12 Duplicate (Dup 1	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	2.7	
MR-13	MR-13	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**	U	0.33	U	0.33	1.2	
MR-14	MR-14	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	0.66	
MR-15	MR-15	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.0	
MR-16	MR-16	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.4	
	MR-16 Duplicate (Dup 2	0-0.5"	8/7/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.9	
MR-17	MR-17	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	0.93	
MR-18	MR-18	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	2.1	
MR-19	MR-19	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33	0	
MR-20	MR-20	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.0	
MR-21	MR-21	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	0.43	
MR-22	MR-22	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	2.9	
MR-23	MR-23	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	1.4	
MR-24	MR-24	0-0.5"	8/8/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		**		**	U	0.33	U	0.33	0.45	
WH-1	WH-1	0-0.5"	8/7/2008	U	0.33	U	0.33	U	0.33	U	0.33	U	0.33		0.6	U	0.33	U	0.33	U	0.33	0.6	

U = Compound was not detected above laboratory reporting limit.
NA = Not Analyzed.
Bold/Shaded= Exceeds TSCA regulation limits.
RPD = Relative percent difference.
** = Mixture

Table 1a. Analytical Results: Bulk Concrete PCBs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Map Label	Location	Depth	Date	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	PCB-1262	PCB-1268	Total PCBs	*Total PCBs x # of Composites*
	CONCRETE													
	BULK SAMPLES													
	TSCA Regulated Lower Limit: 1 ppm (total PCBs)													
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	*(mg/kg)*
WH-2	WH-2	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	
WH-3	WH-3	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	
WH-4	WH-4	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	
WH-5	WH-5	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	
WH-6	WH-6	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	
WH-7	WH-7	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	1.5	
WH-8	WH-8	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	
WH-9	WH-9	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	
WH-10	WH-10	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	0.42	
WH-11	WH-11	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	0.83	
WH-12	WH-12	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	0.35	
WH-13	WH-13	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	0.37	
WH-14	WH-14	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	2.6	
	WH-14 Duplicate (Dup 3	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	2.8	
WH-15	WH-15	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	3.0	
WH-16	WH-16	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	1.7	
WH-17	WH-17	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	1.7	
WH-18	WH-18	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	1.7	
WH-19	WH-19	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	1.7	
WH-20	WH-20	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	1.8	
WH-21	WH-21	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	2.4	
WH-22	WH-22	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	2.8	
WH-23	WH-23	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	1.8	
WH-24	WH-24	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	2.4	
WH-25	WH-25	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	3.4	
WH-26	WH-26	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	2.0	
	WH-26 Duplicate (Dup 4	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	1.9	
WH-27	WH-27	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	0.35	
WH-28	WH-28	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	
WH-29	WH-29	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	
WH-30	WH-30	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	0.40	
	WH-30 Duplicate (Dup 5	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	1.9	
WH-31	WH-31	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	3.3	
WH-32	WH-32	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	
WH-33	WH-33	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	0.34	
WH-34	WH-34	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	0.44	
WH-35	WH-35	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	2.8	
WH-36	WH-36	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	1.1	
WH-37	WH-37	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	1.3	
	WH-37 Duplicate (Dup 6	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.66	U 0.33	U 0.33	0.66	
WH-38	WH-38	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	0.4	
WH-39	WH-39	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	
WH-40	WH-40	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	
WH-41	WH-41	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	0.43	
WH-42	WH-42	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	**	**	U 0.33	U 0.33	2.0	
WH-43	WH-43	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	
WH-44	WH-44	0-0.5"	8/7/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0	

U = Compound was not detected above laboratory reporting limit.
NA = Not Analyzed.
Bold/Shaded= Exceeds TSCA regulation limits.
RPD = Relative percent difference.
** = Mixture

Table 1a. Analytical Results: Bulk Concrete PCBs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Map Label	Location	Depth	Date	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	PCB-1262	PCB-1268	Total PCBs	*Total PCBs x # of Composites*
							CONCRETE							
	BULK SAMPLES													
	TSCA Regulated Lower Limit: 1 ppm (total PCBs)													
				(mg/kg)	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	***(mg/kg)***
	Building #1 Composite Sampling (Results above 10 ppm are in bold)													
1	B#1-A1,A2,B1,B2	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.8	U 0.33	U 0.33	U 0.33	1.8	7.2
2	B#1-B3,B4,A3,A4	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.8	U 0.33	U 0.33	U 0.33	1.8	7.2
3	B#1-A5,A6,B5,B6	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.6	U 0.33	U 0.33	U 0.33	2.6	**10.4**
4	B#1-A7,A8,B7,B8	0-0.5"	6/18/2008	U 3.3	U 3.3	U 3.3	U 3.3	U 3.3	8	U 3.3	U 3.3	U 3.3	8	**32.0**
5	B#1-C3,C4,D3,D4	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.5	U 0.33	U 0.33	U 0.33	1.5	6.0
6	B#1-C5,C6,D5,D6	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.3	U 0.33	U 0.33	U 0.33	1.3	5.2
7	B#1-C7,C8,D7,D8	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.48	U 0.33	U 0.33	U 0.33	0.48	1.9
8	B#1-C9,C10,D9,D10	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.95	U 0.33	U 0.33	U 0.33	0.95	3.8
9	B#1-E1,E2,F1,F2	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.8	U 0.33	U 0.33	U 0.33	1.8	7.2
10	B#1-E3,E4,F3,F4	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.1	U 0.33	U 0.33	U 0.33	1.1	4.4
11	B#1-E5,E6,F5,F6	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.8	U 0.33	U 0.33	U 0.33	1.8	7.2
	B#1-E5,E6,F5,F6-DUP	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.8	U 0.33	U 0.33	U 0.33	1.8	7.2
	RPD								*0%*					
12	B#1-E7,E8,F7,F8	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	ND	ND
13	B#1-G1,G2,H1,H2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.3	U 0.33	U 0.33	U 0.33	2.3	9.2
14	B#1-G3,G4,H3,H4	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.7	U 0.33	U 0.33	U 0.33	1.7	6.8
15	B#1-G5,G6,H5,H6	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.6	U 0.33	U 0.33	U 0.33	1.6	6.4
16	B#1-G7,G8,H7,H8	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.39	U 0.33	U 0.33	U 0.33	0.39	1.6
17	B#1-G9,G10,H9,H10*	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.68	U 0.33	U 0.33	U 0.33	0.68	2.7
18	B#1-I1,I2,J1,J2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	3.1	U 0.33	U 0.33	U 0.33	3.1	**12.4**
19	B#1-I3,I4,J3,J4	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.8	U 0.33	U 0.33	U 0.33	2.8	**11.2**
20	B#1-I7,I8,J7,J8	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.97	U 0.33	U 0.33	U 0.33	0.97	3.9
21	B#1-K1,K2,L1,L2	0-0.5"	6/19/2008	U 16	U 16	U 16	U 16	U 16	47	U 16	U 16	U 16	47	***188.0***
22	B#1-K3,K4,L3,L4	0-0.5"	6/19/2008	U 3.2	U 3.2	U 3.2	U 3.2	U 3.2	11	U 3.2	U 3.2	U 3.2	11	**44.0**
23	B#1-K5,K6,L5,L6	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.2	U 0.33	U 0.33	U 0.33	1.2	4.8
24	B#1-K7,K8,L7,L8	0-0.5"	6/19/2008	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	0.88	U 0.32	U 0.32	U 0.32	0.88	3.5
25	B#1-K9,K10,L9,L10	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.68	U 0.33	U 0.33	U 0.33	0.68	2.7
26	B#1-M1,M2,N1,N2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.9	U 0.33	U 0.33	U 0.33	2.9	**11.6**
27	B#1-M3,M4,N3,N4	0-0.5"	6/19/2008	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	2.6	U 0.32	U 0.32	U 0.32	2.6	**10.4**
	B#1-M3,M4,N3,N4-	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.6	U 0.33	U 0.33	U 0.33	2.6	**10.4**
	RPD								*0%*					
28	B#1-M5,M6,N5,N6	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.9	U 0.33	U 0.33	U 0.33	2.9	**11.6**
29	B#1-M7,M8,N7,N8	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.7	U 0.33	U 0.33	U 0.33	1.7	6.8
30	B#1-O1,O2,P1,P2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.4	U 0.33	U 0.33	U 0.33	2.4	9.6
31	B#1-O3,O4,P3,P4	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.1	U 0.33	U 0.33	U 0.33	1.1	4.4
32	B#1-O5,O6,P5,P6	0-0.5"	6/19/2008	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	1.4	U 0.32	U 0.32	U 0.32	1.4	5.6
33	B#1-O7,O8,P7,P8	0-0.5"	6/19/2008	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	1.6	U 0.32	U 0.32	U 0.32	1.6	6.4
34	B#1-O9,O10,P9,P10	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.69	U 0.33	U 0.33	U 0.33	0.69	2.8
35	B#1-Q1,Q2,R1,R2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	3.3	U 0.33	U 0.33	U 0.33	3.3	**13.2**
36	B#1-Q3,Q4,R3,R4	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	3.5	U 0.33	U 0.33	U 0.33	3.5	**14.0**
37	B#1-Q5,Q6,R5,R6	0-0.5"	6/19/2008	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	3.9	U 0.32	U 0.32	U 0.32	3.9	**15.6**
	B#1-Q5,Q6,R5,R6-	0-0.5"	6/19/2008	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	4	U 0.32	U 0.32	U 0.32	4	**16.0**
	RPD								*3%*					
38	B#1-Q7,Q8,R7,R8	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.7	U 0.33	U 0.33	U 0.33	2.7	**10.8**
39	B#1-S1,S2,T1,T2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.6	U 0.33	U 0.33	U 0.33	2.6	**10.4**
40	B#1-S3,S4,T3,T4	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.4	U 0.33	U 0.33	U 0.33	1.4	5.6
41	B#1-S5,S6,T5,T6	0-0.5"	6/19/2008	U 6.6	U 6.6	U 6.6	U 6.6	U 6.6	48	U 6.6	U 6.6	U 6.6	48	***192.0***
42	B#1-U1,U2,V1,V2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.8	U 0.33	U 0.33	U 0.33	1.8	7.2

U = Compound was not detected above laboratory reporting limit.
NA = Not Analyzed.
Bold/Shaded= Exceeds TSCA regulation limits.
RPD = Relative percent difference.
** = Mixture

Table 1a. Analytical Results: Bulk Concrete PCBs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Map Label	Location	Depth	Date	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	PCB-1262	PCB-1268	Total PCBs	*Total PCBs x # of Composites*
	CONCRETE													
	BULK SAMPLES													
	TSCA Regulated Lower Limit: 1 ppm (total PCBs)													
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	*(mg/kg)*
43	B#1-U3,U4,V3,V4	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.5	U 0.33	U 0.33	U 0.33	1.5	6.0
	B#1-U3,U4,V3,V4-DUP	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.4	U 0.33	U 0.33	U 0.33	1.4	5.6
	RPD								*7%*					
44	B#1-U5,U6,V5,V6	0-0.5"	6/19/2008	U 6.5	U 6.5	U 6.5	U 6.5	U 6.5	38	U 6.5	U 6.5	U 6.5	38	***152.0***
45	B#1-U7,U8,V7,V8	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.6	U 0.33	U 0.33	U 0.33	2.6	**10.4**
46	B#1-U9,U10,V9,V10	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.99	U 0.33	U 0.33	U 0.33	0.99	4.0
47	B#1-W1,W2,X1,X2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.2	U 0.33	U 0.33	U 0.33	1.2	4.8
48	B#1-W3,W4,X3,X4	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.2	U 0.33	U 0.33	U 0.33	2.2	8.8
49	B#1-W5,W6,X5,X6	0-0.5"	6/19/2008	U 3.3	U 3.3	U 3.3	U 3.3	U 3.3	14	U 3.3	U 3.3	U 3.3	14	***56.0***
50	B#1-W7,W8,X7,X8	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.3	U 0.33	U 0.33	U 0.33	1.3	5.2
51	B#1-Y3,Y4,Z3,Z4	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.5	U 0.33	U 0.33	U 0.33	1.5	6.0
52	B#1-Y5,Y6,Z5,Z6	0-0.5"	6/19/2008	U 3.3	U 3.3	U 3.3	U 3.3	U 3.3	10	U 3.3	U 3.3	U 3.3	10	**40.0**
	B#1-Y5,Y6,Z5,Z6-DUP	0-0.5"	6/19/2008	U 3.3	U 3.3	U 3.3	U 3.3	U 3.3	11	U 3.3	U 3.3	U 3.3	11	**44.0**
	RPD								*10%*					
53	B#1-Y7,Z7,Y8,Z8	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.4	U 0.33	U 0.33	U 0.33	2.4	9.6
54	B#1-Y9,Y10,Z9,Z10	0-0.5"	6/18/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.52	U 0.33	U 0.33	U 0.33	0.52	2.1
	Printing Area Composite Sampling (Results above 50 ppm are in bold italics)													
55	B#2-A1,A2,B1,B2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	ND	ND
56	B#2-A3,A4,B3,B4	0-0.5"	6/19/2008	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	0.74	U 0.32	U 0.32	U 0.32	0.74	3.0
57	B#2-A5,A6,B5,B6	0-0.5"	6/19/2008	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	1.5	U 0.32	U 0.32	U 0.32	1.5	6.0
58	B#2-C1,C2,D1,D2	0-0.5"	6/19/2008	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	0.88	U 0.32	U 0.32	U 0.32	0.88	3.5
59	B#2-C3,C4,D3,D4	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	4.2	U 0.33	U 0.33	U 0.33	4.2	**16.8**
60	B#2-C5,C6,D5,D6	0-0.5"	6/19/2008	U 33	U 33	U 33	U 33	U 33	58	U 33	U 33	U 33	58	***232.0***
61	B#2-C8,D8,C7,D7	0-0.5"	6/19/2008	U 3.3	U 3.3	U 3.3	U 3.3	U 3.3	6.7	U 3.3	U 3.3	U 3.3	6.7	**26.8**
62	B#2-E1,E2,F1,F2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.6	U 0.33	U 0.33	U 0.33	0.6	2.4
63	B#2-E3,E4,F3,F4	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	3.8	U 0.33	U 0.33	U 0.33	3.8	**15.2**
64	B#2-E5,E6,F5,F6	0-0.5"	6/19/2008	U 33	U 33	U 33	U 33	U 33	190	U 33	U 33	U 33	190	***760.0***
65	B#2-E7,E8,F7,F8	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.4	U 0.33	U 0.33	U 0.33	2.4	9.6
	B#2-E7,E8,F7,F8-DUP	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.8	U 0.33	U 0.33	U 0.33	2.8	**11.2**
	RPD								*15%*					
66	B#2-G1,G2,H1,H2	0-0.5"	6/19/2008	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	0.64	U 0.32	U 0.32	U 0.32	0.64	2.6
67	B#2-G3,G4,H3,H4	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.6	U 0.33	U 0.33	U 0.33	1.6	6.4
68	B#2-G5,G6,H5,H6	0-0.5"	6/19/2008	U 3.3	U 3.3	U 3.3	U 3.3	U 3.3	31	U 3.3	U 3.3	U 3.3	31	***124.0***
69	B#2-G7,G8,H7,H8	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.6	U 0.33	U 0.33	U 0.33	2.6	**10.4**
70	B#2-J1,J2,I1,I2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.76	U 0.33	U 0.33	U 0.33	0.76	3.0
	B#2-J1,J2,I1,I2-DUP	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.7	U 0.33	U 0.33	U 0.33	0.7	2.8
	RPD								*8%*					
71	B#2-I3,I4,J3,J4	0-0.5"	6/19/2008	U 33	U 33	U 33	U 33	U 33	180	U 33	U 33	U 33	180	***720.0***
72	B#2-I5,I6,J5,J6	0-0.5"	6/19/2008	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	4.4	U 0.32	U 0.32	U 0.32	4.4	**17.6**
73	B#2-J7,J8,I7,I8**	0-0.5"	6/19/2008	U 1.6	U 1.6	U 1.6	U 1.6	U 1.6	7.8	U 1.6	U 1.6	U 1.6	7.8	**31.2**
74	B#2-K1,K2,L1,L2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.56	U 0.33	U 0.33	U 0.33	0.56	2.2
75	B#2-L3,L4,K3,K4	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.1	U 0.33	U 0.33	U 0.33	2.1	8.4
76	B#2-L5,K5	0-0.5"	6/19/2008	U 3.3	U 3.3	U 3.3	U 3.3	U 3.3	10	U 3.3	U 3.3	U 3.3	10	**20.0**
77	B#2-M1,M2,N1,N2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.6	U 0.33	U 0.33	U 0.33	0.6	2.4
78	B#2-N4,N3,M4,M3	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	3.3	U 0.33	U 0.33	U 0.33	3.3	**13.2**
79	B#2-N5,M5	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.4	U 0.33	U 0.33	U 0.33	1.4	2.8
80	B#2-O1,O2,P1,P2	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.46	U 0.33	U 0.33	U 0.33	0.46	1.8
81	B#2-P5,O5	0-0.5"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.1	U 0.33	U 0.33	U 0.33	1.1	2.2
W-1	W-1	0-0.25"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	ND	

U = Compound was not detected above laboratory reporting limit.
NA = Not Analyzed.
Bold/Shaded= Exceeds TSCA regulation limits.
RPD = Relative percent difference.
** = Mixture

Table 1a. Analytical Results: Bulk Concrete PCBs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Map Label	Location	Depth	Date	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	PCB-1262	PCB-1268	Total PCBs	*Total PCBs x # of Composites*
				CONCRETE										
	BULK SAMPLES													
	TSCA Regulated Lower Limit: 1 ppm (total PCBs)													
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	*(mg/kg)*
W-2	W-2	0-0.25"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	ND	
	W-2-DUP	0-0.25"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	ND	
	RPD	0-0.25"							*0%*					
W-3	W-3	0-0.25"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.75	U 0.33	U 0.33	U 0.33	0.75	
W-4	W-4	0-0.25"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.73	U 0.33	U 0.33	U 0.33	0.73	
W-5	W-5	0-0.25"	6/19/2008	U 33	U 33	U 33	U 33	U 33	120	U 33	U 33	U 33	120	
W-6	W-6	0-0.25"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	1.1	U 0.33	U 0.33	U 0.33	1.1	
W-7	W-7	0-0.25"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	2.4	U 0.33	U 0.33	U 0.33	2.4	
W-8	W-8	0-0.25"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	0.54	U 0.33	U 0.33	U 0.33	0.54	
W-9	W-9	0-0.25"	6/19/2008	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	U 0.33	ND	
W-10	W-10	0-0.25"	6/19/2008	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	ND	
	NOTES:													

* = Sample mislabeled as B#1-G9,GH,H9,H10
** = Sample mislabeled as B#2-J8,J8,I8,I7

U = Compound was not detected above laboratory reporting limit.
NA = Not Analyzed.
Bold/Shaded= Exceeds TSCA regulation limits.
RPD = Relative percent difference.
** = Mixture

Table 1b. Analytical Results: Soil PCBs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Location	Depth	Date	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	PCB-1262	PCB-1268	Total PCBs
SOIL												
Federal RSLs Resid. (VT Screening Level)			*3.9*	*0.17*	*0.17*	*0.22*	*0.22*	*0.22*	*0.22*	*0.22*	*0.22*	
Federal RSLs Indust. (VT Screening Level)			*21.0*	*0.62*	*0.62*	*0.74*	*0.74*	*0.74*	*0.74*	*0.74*	*0.74*	
			(mg/kg)	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	
Pad 1 (N) Soil	0-0.5"	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
Pad 1 (E) Soil	0-0.5"	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
Pad 1 (W) Soil	0-0.5"	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
Pad 1 (S) Soil	0-0.5"	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
Pad 1 (S) Soil Dup	0-0.5"	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
Pad 2 (N) Soil	0-0.5"	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
Pad 2 (E) Soil	0-0.5"	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	0.2	U NA	U NA	0.2
Pad 2 (W) Soil	0-0.5"	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
Pad 2 (S) Soil	0-0.5"	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	**0.4**	U NA	U NA	0.4
T1-Bott	3'	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
T2-Bott	4'	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
T5-Top	0-0.5'	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
T-5 Dup	0-0.5'	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
MW-1	0-1'	2/7/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
MW-2	0-1'	2/7/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
MW-3	0-1'	2/7/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
MW-4	0-1'	2/8/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
MW-4 Duplicate	0-1'	2/8/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
MW-5	0-1'	2/8/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
MW-6	0-1'	2/11/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
MW-7	1'	2/7/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
MW-8	1'	2/8/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
MW-9	0-1'	2/8/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
MW-10	0-1'	2/11/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	**10**	**0.9**	U NA	U NA	10.9
MW-11	0-1'	2/11/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
PP-FD	0-0.5'	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	**0.8**	U 0.1	U NA	U NA	0.8
Conv-FD	0-0.5'	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
Storage Shed	0.5-1'	2/6/2008	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U 0.1	U NA	U NA	0
CB-1	0-0.5"	2/25/2008	U 0.2	U 0.2	U 0.2	U 0.2	U 0.2	U 0.2	U 0.2	U NA	U NA	0
DUMP 1	0-1'	6/17/2008	U 0.46	U 0.46	U 0.46	U 0.46	U 0.46	U 0.46	U 0.46	U 0.46	U 0.46	0
DUMP 2	0-1'	6/18/2008	U 0.44	U 0.44	U 0.44	U 0.44	U 0.44	U 0.44	U 0.44	U 0.44	U 0.44	0
IS-1 (0-1.5)	0-1.5'	6/17/2008	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	0
IS-1 (0-1.5)-DUP	0-1.5'	6/17/2008	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	0
IS-2 (1.5-3)	1.5-3'	6/17/2008	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	0
IS-3 (1.5-3)	1.5-3'	6/17/2008	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	U 0.35	0
LD-1 (0-1.5)	0-1.5'	6/17/2008	U 35	U 35	U 35	U 35	U 35	**170**	U 35	U 35	U 35	170
LD-2 (1.5-3)	1.5-3'	6/17/2008	U 0.38	U 0.38	U 0.38	U 0.38	U 0.38	**0.52**	U 0.38	U 0.38	U 0.38	0.52
LD-3 (1.5-3)	1.5-3'	6/17/2008	U 0.18	U 0.18	U 0.18	U 0.18	U 0.18	U 0.18	U 0.18	U 0.18	U 0.18	0
SC-7 (1.0-1.5)	1-1.5'	6/17/2008	U 0.38	U 0.38	U 0.38	U 0.38	U 0.38	U 0.38	U 0.38	U 0.38	U 0.38	0
SC-7 (3-4.1)	3-4.1'	6/17/2008	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	0
Stockpile	Green soil	7/1/2009	U 0.38	U 0.38	U 0.38	U 0.38	U 0.36	**2.5**	U 0.38	NA	NA	2.5
In Situ	1'	7/1/2009	U 0.38	U 0.38	U 0.38	U 0.38	U 0.36	**0.25**	U 0.38	NA	NA	0.25

U = Not detected above reporting limit shown.
NA = Not Analyzed.
Bold = Exceeds Residential PRG.
Black cell = Exceeds Industrial PRG.
RPD = Relative percent difference between original and duplicate samples.

Table 2. Analytical Results: Soil- Metals

Former Fonda Group Facility, St. Albans, VT

JCO Project #1-1470-13

Sample ID	**VT/Federal**	**VT/Federal**	**T1-Bott**		**T2-Bott**		**T5-Top**		**MW-1**		**MW-2**		**MW-3**		**MW-4**		**MW-5**		**MW-6**	
Sample Depth	**RSL**	**RSL**	**3'**		**4'**		**0-0.5'**		**0-1'**		**0-1'**		**0-1'**		**0-1'**		**0-1'**		**0-1'**	
Units	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**	
Sample Date	**Resid.**	**Indust.**	**2/14/2008**		**2/14/2008**		**2/14/2008**		**2/14/2008**		**2/14/2008**		**2/14/2008**		**2/14/2008**		**2/14/2008**		**2/14/2008**	
Aluminum	*76,000*	*100,000*		12000		7300		14000		6200		7700		8400		6200		7500		7500
Antimony	*31*	*410*	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Arsenic	*0.39 (12*)*	*12*		4.1		2.8		**12**		3.7		3.3		4.1		3.8		3.7		3.3
Barium	*15,000*	*190,000*		98		44		110		34		39		6.3		29		38		46
Beryllium	*160*	*2,000*	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Cadmium	*70*	*810*	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Chromium	*280*	*1,400*		19		12		21		10		11		13		9.2		11		11
Cobalt	*23*	*300*		7.3		6.5		7.5		8.7		5.6		6.9		33		7.1		8.3
Copper	*3,100*	*41,000*		16		11		18		14		12		14		26		18		17
Iron	*55,000*	*720,000*		17,000		12,000		17,000		15,000		13,000		14,000		14,000		15,000		14,000
Lead	*400*	*800*		25		5.2		62		8.7		6.2		19		9.5		8.2		11
Manganese	*1,800*	*23,000*		320		280		400		400		210		390		370		490		460
Mercury	*6.7*	*28*	U	0.1	U	0.1		0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Nickel	*1,600*	*20,000*		17		14		19		15		15		15		17		16		16
Selenium	*390*	*5,100*	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Silver	*390*	*5,100*	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	11	U	11	U	11
Thallium	*5.1*	*66*	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Tin	*47,000*	*610,000*		22		15		27		12		13		15		9		12		13
Vanadium	*390*	*5,200*		82		30		74		34		34		45		48		44		39
Zinc	*23,000*	*310,000*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2

Notes:

* = The VT background concentration is 12 mg/kg

U = Not detected above reporting limit shown.

NA = Not Analyzed.

Bold = Exceeds Residential PRG.

Black cell = Exceeds Industrial PRG.

RPD = Relative percent difference

K:\1-1470-13\CAP\052610 table

Table 2. Analytical Results: Soil- Metals

Former Fonda Group Facility, St. Albans, VT

JCO Project #1-1470-13

Sample ID	**VT/Federal**	**MW-7**		**MW-8**		**MW-9**		**MW-10**		**MW-11**		**PP-FD**		**Conv-FD**		**B Drain**		**Storage Shed**		**Dump 1**		**Dump 2**	
Sample Depth	**RSL**	**0-1'**		**0-1'**		**0-1'**		**0-1'**		**0-1'**		**0-0.5'**		**0-0.5'**		**0-0.5'**		**0.5-1'**		**0-1'**		**0-1'**	
Units	**(mg/kg)**	**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**		**(mg/kg)**	
Sample Date	**Resid.**	**2/14/2008**		**2/14/2008**		**2/14/2008**		**2/14/2008**		**2/14/2008**		**2/6/2008**		**2/6/2008**		**2/6/2008**		**2/6/2008**		**6/17/2008**		**6/17/2008**	
Aluminum	*76,000*		5700		4600		5900		3700		11000		NA		NA		NA		NA		NA		NA
Antimony	*31*	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5		0.6		0.8		1.3	U	0.5	U	0.5	U	0.5
Arsenic	*0.39 (12*)*		3.9		1.8		3		1.9		4.4		1.8		6.9		4.5		3.4		11		9.7
Barium	*15,000*		38		29		33		25		72		NA		NA		NA		NA		NA		NA
Beryllium	*160*	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Cadmium	*70*	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5		0.6		17		5.5	U	0.5		5.7		7
Chromium	*280*		11		21		11		15		16		5.4		100		57		31		71		43
Cobalt	*23*		10		3.1		4.8		2.4		9.4		NA		NA		NA		NA		NA		NA
Copper	*3,100*		16		5.2		15		22		14		310		2700		300		18		270		120
Iron	*55,000*		14,000		5,600		12,000		6,900		16,000		NA		NA		NA		NA		NA		NA
Lead	*400*		18		2.9		28		74		9		220		**610**		260		130		**1000**		**910**
Manganese	*1,800*		430		170		310		130		380		NA		NA		NA		NA		NA		NA
Mercury	*6.7*	U	0.1	U	0.1	U	0.1		0.1	U	0.1	U	0.1		1.6		4.8	U	0.1		0.4		0.7
Nickel	*1,600*		19		17		13		8.9		18		5.1		76		360		18		24		26
Selenium	*390*	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5		1.1		0.6
Silver	*390*		0.6	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5		1.1	U	0.5	U	0.5	U	0.5
Thallium	*5.1*	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Tin	*47,000*		9.8		16		12		14		20		NA		NA		NA		NA		NA		NA
Vanadium	*390*		40		16		44		95		40		NA		NA		NA		NA		NA		NA
Zinc	*23,000*	U	2	U	2	U	2	U	2	U	2		210		1400		430		270		1500		1600

Notes:

* = The VT background concentration is 12 mg/kg

U = Not detected above reporting limit shown.

NA = Not Analyzed.

Bold = Exceeds Residential PRG.

Black cell = Exceeds Industrial PRG.

RPD = Relative percent difference

K:\1-1470-13\CAP\052610 table

Table 3. Analytical Results: Soil- VOCs

Former Fonda Group Facility, St. Albans, VT

JCO Project #1-1470-13

Sample ID	Federal/VT		T1-Bott		T2-Bott		T5-Top		T-5 Dup		MW-1		MW-1		MW-2		MW-2		MW-3		MW-3	
Sample Depth	RSLs		3'		4'		0-0.5'		0-0.5'		2'		27'		0-1'		10'		6.5'		15'	
Sampling Date	Resid.	Indust.	2/6/2005		2/6/2008		2/6/2008		2/6/2008		2/7/2008		2/7/2008		2/7/2008		2/7/2008		2/7/2008		2/7/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Dichlorodifluoromethane	180	780	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
Chloromethane	120.0	500.0	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
Vinyl Chloride	0.06 (BLD)	1.70	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Bromomethane	7.3	32	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
Chloroethane	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
Trichlorofluoromethane	790	3,400	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Diethyl Ether (Ethyl ether)	16,000	200,000	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Acetone	61,000	630,000	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1-Dichloroethene	240	1,100	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Methylene chloride	11	53	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Carbon Disulfide	820	3,700	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Methyl-t-Butyl Ether	43	220	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
trans-1,2-Dichloroethene	69	230	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,1-Dichloroethane	3.3	17	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
2,2-Dichloropropane	None	None	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
cis-1,2-Dichloroethene	780	10,000	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
2-Butanone (MEK)	28,000	200,000	U	0.6	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Bromochloromethane	None	None	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Tetrahydrofuran (THF)	None	None	U	0.6	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Chloroform	0.29	1.50	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,1,1-Trichloroethane	8,700	38,000	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Carbon Tetrachloride	0.61	3.00	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,1-Dichloropropene	None	None	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Benzene	1.10	5.40	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,2-Dichloroethane	0.43	2.20	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Trichloroethene	2.8	14.0	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,2-Dichloropropane	0.89	4.50	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Dibromomethane	25	110	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Bromodichloromethane	0.27	1.40	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
4-Methyl-2-pentanone	5,300	53,000	U	0.6	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
cis-1,3-Dichloropropene	1.70	1.80	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Toluene	5,000	45,000	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
trans-1,3-Dichloropropene	None	None	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,1,2-Trichloroethane	1.10	5.30	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
2-Hexanone	210.00	1,400.00	U	0.6	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Tetrachloroethene	0.55	2.60	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,3-Dichloropropane	1600	20,000	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Dibromochloromethane	0.68	3.3	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05

Notes:

U = Not detected above reporting limit shown.

NA = Not Analyzed.

Bold = Exceeds Residential PRG.

Black cell = Exceeds Industrial PRG.

RPD = Relative percent difference

Table 3. Analytical Results: Soil- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		T1-Bott		T2-Bott		T5-Top		T-5 Dup		MW-1		MW-1		MW-2		MW-2		MW-3		MW-3	
Sample Depth	RSLs		3'		4'		0-0.5'		0-0.5'		2'		27'		0-1'		10'		6.5'		15'	
Sampling Date	Resid.	Indust.	2/6/2005		2/6/2008		2/6/2008		2/6/2008		2/7/2008		2/7/2008		2/7/2008		2/7/2008		2/7/2008		2/7/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
1,2-Dibromoethane	0.01 (BLD)	0.07 (BLD)	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Chlorobenzene	290	1,400	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,1,1,2-Tetrachloroethane	1.9	9.3	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Ethylbenzene	5	27	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Xylene (m,p)	3,400	17,000	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Xylene (o)	3,800	19,000	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Styrene	6,300	36,000	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Bromoform	61	220	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Isopropylbenzene	2,100	11,000	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Bromobenzene	300	1,800	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,1,2,2-Tetrachloroethane	0.56	2.80	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,2,3-Trichloropropane	0.005 (BLD)	3.3	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
n-Propylbenzene	3,400	21,000	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
2-Chlorotoluene	1,600	20,000	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
4-Chlorotoluene	5,500	72,000	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,3,5-Trimethylbenzene	780	10,000	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
tert-Butylbenzene	None	None	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,2,4-Trimethylbenzene	62	260	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
sec-Butylbenzene	None	None	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,3-Dichlorobenzene	6.1	62	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
4-Isopropyltoluene	None	None	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,4-Dichlorobenzene	2.4	12.0	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,2-Dichlorobenzene	1,900	9,800	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
n-Butylbenzene	None	None	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,2-Dibromo-3-Chloropropane	2	2	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
1,2,4-Trichlorobenzene	22	99	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Hexachlorobutadiene	6.2	22	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05
Naphthalene	3.6	18	U	0.4	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3
1,2,3-Trichlorobenzene	None	None	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05

Notes:
U = Not detected above reporting limit shown.
NA = Not Analyzed.
Bold = Exceeds Residential PRG.
Black cell = Exceeds Industrial PRG.
RPD = Relative percent difference

Table 3. Analytical Results: Soil- VOCs

Former Fonda Group Facility, St. Albans, VT

JCO Project #1-1470-13

Sample ID	Federal/VT		MW-4		MW-4		MW-5		MW-5		MW-6		MW-6		MW-7		MW-7		MW-8	
Sample Depth	RSLs		0-1'		4.5'		0-1'		7'		5.3'		11.8'		6'		11'		1'	
Sampling Date	Resid.	Indust.	2/8/2008		2/8/2008		2/8/2008		2/8/2008		2/8/2008		2/8/2008		2/7/2008		2/7/2008		2/8/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Dichlorodifluoromethane	180	780	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
Chloromethane	120.0	500.0	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
Vinyl Chloride	0.06 (BLD)	1.70	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Bromomethane	7.3	32	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
Chloroethane	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2
Trichlorofluoromethane	790	3,400	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Diethyl Ether (Ethyl ether)	16,000	200,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Acetone	61,000	630,000	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1-Dichloroethene	240	1,100	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Methylene chloride	11	53	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Carbon Disulfide	820	3,700	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Methyl-t-Butyl Ether	43	220	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
trans-1,2-Dichloroethene	69	230	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,1-Dichloroethane	3.3	17	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
2,2-Dichloropropane	None	None	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
cis-1,2-Dichloroethene	780	10,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
2-Butanone (MEK)	28,000	200,000	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Bromochloromethane	None	None	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Tetrahydrofuran (THF)	None	None	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Chloroform	0.29	1.50	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,1,1-Trichloroethane	8,700	38,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Carbon Tetrachloride	0.61	3.00	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,1-Dichloropropene	None	None	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Benzene	1.10	5.40	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,2-Dichloroethane	0.43	2.20	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Trichloroethene	2.8	14.0		0.19		0.17	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,2-Dichloropropane	0.89	4.50	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Dibromomethane	25	110	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Bromodichloromethane	0.27	1.40	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
4-Methyl-2-pentanone	5,300	53,000	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
cis-1,3-Dichloropropene	1.70	1.80	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Toluene	5,000	45,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
trans-1,3-Dichloropropene	None	None	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,1,2-Trichloroethane	1.10	5.30	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
2-Hexanone	210.00	1,400.00	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5
Tetrachloroethene	0.55	2.60	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,3-Dichloropropane	1600	20,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Dibromochloromethane	0.68	3.3	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05

Notes:

U = Not detected above reporting limit shown.

NA = Not Analyzed.

Bold = Exceeds Residential PRG.

Black cell = Exceeds Industrial PRG.

RPD = Relative percent difference

Table 3. Analytical Results: Soil- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		MW-4		MW-4		MW-5		MW-5		MW-6		MW-6		MW-7		MW-7		MW-8	
Sample Depth	RSLs		0-1'		4.5'		0-1'		7'		5.3'		11.8'		6'		11'		1'	
Sampling Date	Resid.	Indust.	2/8/2008		2/8/2008		2/8/2008		2/8/2008		2/8/2008		2/8/2008		2/7/2008		2/7/2008		2/8/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
1,2-Dibromoethane	0.01 (BLD)	0.07 (BLD)	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Chlorobenzene	290	1,400	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,1,1,2-Tetrachloroethane	1.9	9.3	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Ethylbenzene	5	27	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Xylene (m,p)	3,400	17,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Xylene (o)	3,800	19,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Styrene	6,300	36,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Bromoform	61	220	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Isopropylbenzene	2,100	11,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Bromobenzene	300	1,800	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,1,2,2-Tetrachloroethane	0.56	2.80	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,2,3-Trichloropropane	0.005 (BLD)	3.3	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
n-Propylbenzene	3,400	21,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
2-Chlorotoluene	1,600	20,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
4-Chlorotoluene	5,500	72,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,3,5-Trimethylbenzene	780	10,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
tert-Butylbenzene	None	None	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,2,4-Trimethylbenzene	62	260	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
sec-Butylbenzene	None	None	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,3-Dichlorobenzene	6.1	62	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
4-Isopropyltoluene	None	None	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,4-Dichlorobenzene	2.4	12.0	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,2-Dichlorobenzene	1,900	9,800	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
n-Butylbenzene	None	None	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,2-Dibromo-3-Chloropropane	2	2	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
1,2,4-Trichlorobenzene	22	99	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Hexachlorobutadiene	6.2	22	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05
Naphthalene	3.6	18	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U	0.3
1,2,3-Trichlorobenzene	None	None	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05	U	0.05	U	0.05

Notes:
U = Not detected above reporting limit shown.
NA = Not Analyzed.
Bold = Exceeds Residential PRG.
Black cell = Exceeds Industrial PRG.
RPD = Relative percent difference

Table 3. Analytical Results: Soil- VOCs

Former Fonda Group Facility, St. Albans, VT

JCO Project #1-1470-13

Sample ID	Federal/VT		MW-8		MW-9		MW-9		MW-10		MW-10		MW-11		MW-11		MW-11		B Drain	
Sample Depth	RSLs		5'		5'		10'		1'		6'		2'		6'		6' Duplicate		0-0.5'	
Sampling Date	Resid.	Indust.	2/8/2008		2/8/2008		2/8/2008		2/11/2008		2/11/2008		2/11/2008		2/11/2008		2/11/2008		2/6/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Dichlorodifluoromethane	180	780	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.4
Chloromethane	120.0	500.0	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.4
Vinyl Chloride	0.06 (BLD)	1.70	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2
Bromomethane	7.3	32	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.4
Chloroethane	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.4
Trichlorofluoromethane	790	3,400	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2
Diethyl Ether (Ethyl ether)	16,000	200,000	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Acetone	61,000	630,000	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	4
1,1-Dichloroethene	240	1,100	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Methylene chloride	11	53	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2
Carbon Disulfide	820	3,700	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2
Methyl-t-Butyl Ether	43	220	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2
trans-1,2-Dichloroethene	69	230	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,1-Dichloroethane	3.3	17	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
2,2-Dichloropropane	None	None	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
cis-1,2-Dichloroethene	780	10,000	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
2-Butanone (MEK)	28,000	200,000	U	0.5	U	0.6	U	0.5	U	0.5	U	0.5	U	0.5	U	0.6	U	0.5	U	0.9
Bromochloromethane	None	None	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Tetrahydrofuran (THF)	None	None	U	0.5	U	0.6	U	0.5	U	0.5	U	0.5	U	0.5	U	0.6	U	0.5	U	0.9
Chloroform	0.29	1.50	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,1,1-Trichloroethane	8,700	38,000	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Carbon Tetrachloride	0.61	3.00	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,1-Dichloropropene	None	None	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Benzene	1.10	5.40	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,2-Dichloroethane	0.43	2.20	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Trichloroethene	2.8	14.0	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,2-Dichloropropane	0.89	4.50	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Dibromomethane	25	110	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Bromodichloromethane	0.27	1.40	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
4-Methyl-2-pentanone	5,300	53,000	U	0.5	U	0.6	U	0.5	U	0.5	U	0.5	U	0.5	U	0.6	U	0.5	U	0.9
cis-1,3-Dichloropropene	1.70	1.80	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Toluene	5,000	45,000	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
trans-1,3-Dichloropropene	None	None	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,1,2-Trichloroethane	1.10	5.30	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
2-Hexanone	210.00	1,400.00	U	0.5	U	0.6	U	0.5	U	0.5	U	0.5	U	0.5	U	0.6	U	0.5	U	0.9
Tetrachloroethene	0.55	2.60	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,3-Dichloropropane	1600	20,000	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Dibromochloromethane	0.68	3.3	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09

Notes:

U = Not detected above reporting limit shown.

NA = Not Analyzed.

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RPD = Relative percent difference

Table 3. Analytical Results: Soil- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		MW-8		MW-9		MW-9		MW-10		MW-10		MW-11		MW-11		MW-11		B Drain	
Sample Depth	RSLs		5'		5'		10'		1'		6'		2'		6'		6' Duplicate		0-0.5'	
Sampling Date	Resid.	Indust.	2/8/2008		2/8/2008		2/8/2008		2/11/2008		2/11/2008		2/11/2008		2/11/2008		2/11/2008		2/6/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
1,2-Dibromoethane	0.01 (BLD)	0.07 (BLD)	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Chlorobenzene	290	1,400	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,1,1,2-Tetrachloroethane	1.9	9.3	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Ethylbenzene	5	27	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Xylene (m,p)	3,400	17,000	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Xylene (o)	3,800	19,000	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Styrene	6,300	36,000	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Bromoform	61	220	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Isopropylbenzene	2,100	11,000	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Bromobenzene	300	1,800	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,1,2,2-Tetrachloroethane	0.56	2.80	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,2,3-Trichloropropane	0.005 (BLD)	3.3	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
n-Propylbenzene	3,400	21,000	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
2-Chlorotoluene	1,600	20,000	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
4-Chlorotoluene	5,500	72,000	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,3,5-Trimethylbenzene	780	10,000	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
tert-Butylbenzene	None	None	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,2,4-Trimethylbenzene	62	260	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
sec-Butylbenzene	None	None	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,3-Dichlorobenzene	6.1	62	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
4-Isopropyltoluene	None	None	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,4-Dichlorobenzene	2.4	12.0	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,2-Dichlorobenzene	1,900	9,800	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05		0.11
n-Butylbenzene	None	None	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,2-Dibromo-3-Chloropropane	2	2	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
1,2,4-Trichlorobenzene	22	99	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Hexachlorobutadiene	6.2	22	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09
Naphthalene	3.6	18	U	0.3	U	0.4	U	0.3	U	0.3	U	0.3	U	0.3	U	0.4	U	0.3	U	0.5
1,2,3-Trichlorobenzene	None	None	U	0.05	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05	U	0.06	U	0.05	U	0.09

Notes:
U = Not detected above reporting limit shown.
NA = Not Analyzed.
Bold = Exceeds Residential PRG.
Black cell = Exceeds Industrial PRG.
RPD = Relative percent difference

Table 3. Analytical Results: Soil- VOCs

Former Fonda Group Facility, St. Albans, VT

JCO Project #1-1470-13

Sample ID	Federal/VT		StorageShed		Trip Blank1		Trip Blank2		MW-4 Floor		SC-1		SC-2		SC-2		SC-3		SC-3	
Sample Depth	RSLs		0.5-1'						Drain		0.5-1.5'		0.5-1.5'		3-4.8'		0.5-1.5'		3-3.5'	
Sampling Date	Resid.	Indust.	2/6/2008		2/6/2008		2/7/2008		6/17/2008		6/17/2008		6/17/2008		6/18/2008		6/17/2008		6/18/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Dichlorodifluoromethane	180	780	U	0.3	U	0.2	U	0.2	U	0.2	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Chloromethane	120.0	500.0	U	0.3	U	0.2	U	0.2	U	0.2	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Vinyl Chloride	0.06 (BLD)	1.70	U	0.2	U	0.1	U	0.1	U	0.2	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Bromomethane	7.3	32	U	0.3	U	0.2	U	0.2	U	0.2	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Chloroethane	None	None	U	0.3	U	0.2	U	0.2	U	0.2	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Trichlorofluoromethane	790	3,400	U	0.2	U	0.1	U	0.1	U	0.2	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Diethyl Ether (Ethyl ether)	16,000	200,000	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Acetone	61,000	630,000	U	3	U	2	U	2		NA		NA		NA		NA		NA		NA
1,1-Dichloroethene	240	1,100	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
Methylene chloride	11	53	U	0.2	U	0.1	U	0.1	U	0.2	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Carbon Disulfide	820	3,700	U	0.2	U	0.1	U	0.1		NA		NA		NA		NA		NA		NA
Methyl-t-Butyl Ether	43	220	U	0.2	U	0.1	U	0.1		NA		NA		NA		NA		NA		NA
trans-1,2-Dichloroethene	69	230	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
1,1-Dichloroethane	3.3	17	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
2,2-Dichloropropane	None	None	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
cis-1,2-Dichloroethene	780	10,000	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
2-Butanone (MEK)	28,000	200,000	U	0.8	U	0.5	U	0.5		NA		NA		NA		NA		NA		NA
Bromochloromethane	None	None	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Tetrahydrofuran (THF)	None	None	U	0.8	U	0.5	U	0.5		NA		NA		NA		NA		NA		NA
Chloroform	0.29	1.50	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
1,1,1-Trichloroethane	8,700	38,000	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
Carbon Tetrachloride	0.61	3.00	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
1,1-Dichloropropene	None	None	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Benzene	1.10	5.40	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
1,2-Dichloroethane	0.43	2.20	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
Trichloroethene	2.8	14.0	U	0.08	U	0.05	U	0.05	U	0.09		0.37		0.39		0.75		0.18		0.4
1,2-Dichloropropane	0.89	4.50	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
Dibromomethane	25	110	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Bromodichloromethane	0.27	1.40	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
4-Methyl-2-pentanone	5,300	53,000	U	0.8	U	0.5	U	0.5		NA		NA		NA		NA		NA		NA
cis-1,3-Dichloropropene	1.70	1.80	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
Toluene	5,000	45,000	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
trans-1,3-Dichloropropene	None	None	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
1,1,2-Trichloroethane	1.10	5.30	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
2-Hexanone	210.00	1,400.00	U	0.8	U	0.5	U	0.5		NA		NA		NA		NA		NA		NA
Tetrachloroethene	0.55	2.60	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
1,3-Dichloropropane	1600	20,000	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Dibromochloromethane	0.68	3.3	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05

Notes:

U = Not detected above reporting limit shown.

NA = Not Analyzed.

Bold = Exceeds Residential PRG.

Black cell = Exceeds Industrial PRG.

RPD = Relative percent difference

Table 3. Analytical Results: Soil- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		StorageShed		Trip Blank1		Trip Blank2		MW-4 Floor		SC-1		SC-2		SC-2		SC-3		SC-3	
Sample Depth	RSLs		0.5-1'						Drain		0.5-1.5'		0.5-1.5'		3-4.8'		0.5-1.5'		3-3.5'	
Sampling Date	Resid.	Indust.	2/6/2008		2/6/2008		2/7/2008		6/17/2008		6/17/2008		6/17/2008		6/18/2008		6/17/2008		6/18/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
1,2-Dibromoethane	0.01 (BLD)	0.07 (BLD)	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Chlorobenzene	290	1,400	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
1,1,1,2-Tetrachloroethane	1.9	9.3	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Ethylbenzene	5	27	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Xylene (m,p)	3,400	17,000	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Xylene (o)	3,800	19,000	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Styrene	6,300	36,000	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Bromoform	61	220	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
Isopropylbenzene	2,100	11,000	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Bromobenzene	300	1,800	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
1,1,2,2-Tetrachloroethane	0.56	2.80	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
1,2,3-Trichloropropane	0.005 (BLD)	3.3	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
n-Propylbenzene	3,400	21,000	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
2-Chlorotoluene	1,600	20,000	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
4-Chlorotoluene	5,500	72,000	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
1,3,5-Trimethylbenzene	780	10,000	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
tert-Butylbenzene	None	None	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
1,2,4-Trimethylbenzene	62	260	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
sec-Butylbenzene	None	None	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
1,3-Dichlorobenzene	6.1	62	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
4-Isopropyltoluene	None	None	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
1,4-Dichlorobenzene	2.4	12.0	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
1,2-Dichlorobenzene	1,900	9,800	U	0.08	U	0.05	U	0.05	U	0.09	U	0.06	U	0.06	U	0.05	U	0.05	U	0.05
n-Butylbenzene	None	None	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
1,2-Dibromo-3-Chloropropane	2	2	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
1,2,4-Trichlorobenzene	22	99	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Hexachlorobutadiene	6.2	22	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA
Naphthalene	3.6	18	U	0.5	U	0.3	U	0.3		NA		NA		NA		NA		NA		NA
1,2,3-Trichlorobenzene	None	None	U	0.08	U	0.05	U	0.05		NA		NA		NA		NA		NA		NA

Notes:
U = Not detected above reporting limit shown.
NA = Not Analyzed.
Bold = Exceeds Residential PRG.
Black cell = Exceeds Industrial PRG.
RPD = Relative percent difference

Table 3. Analytical Results: Soil- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		SC-4		SC-4-Dup			SC-4		SC-5		SC-6		SC-7		SC-7		SC-8		SC-9	
Sample Depth	RSLs		0.5-1.5'		0.5-1.5'		RPD	3-4.3'		0.5-1.5'		0.5-1.5'		0.5-1.5'		3-4.1'		0.5-1.5'		2.5-3.5'	
Sampling Date	Resid.	Indust.	6/17/2008		6/17/2008			6/18/2008		6/17/2008		6/17/2008		6/17/2008		6/18/2008		6/17/2008		8/14/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)			(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Dichlorodifluoromethane	180	780	U	0.1	U	0.1	0%	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Chloromethane	120.0	500.0	U	0.1	U	0.1	0%	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Vinyl Chloride	0.06 (BLD)	1.70	U	0.1	U	0.1	0%	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Bromomethane	7.3	32	U	0.1	U	0.1	0%	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Chloroethane	None	None	U	0.1	U	0.1	0%	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Trichlorofluoromethane	790	3,400	U	0.1	U	0.1	0%	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Diethyl Ether (Ethyl ether)	16,000	200,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
Acetone	61,000	630,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
1,1-Dichloroethene	240	1,100	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
Methylene chloride	11	53	U	0.1	U	0.1	0%	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1
Carbon Disulfide	820	3,700		NA		NA			NA		NA		NA		NA		NA		NA		NA
Methyl-t-Butyl Ether	43	220		NA		NA			NA		NA		NA		NA		NA		NA		NA
trans-1,2-Dichloroethene	69	230	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
1,1-Dichloroethane	3.3	17	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
2,2-Dichloropropane	None	None		NA		NA			NA		NA		NA		NA		NA		NA		NA
cis-1,2-Dichloroethene	780	10,000	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
2-Butanone (MEK)	28,000	200,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
Bromochloromethane	None	None		NA		NA			NA		NA		NA		NA		NA		NA		NA
Tetrahydrofuran (THF)	None	None		NA		NA			NA		NA		NA		NA		NA		NA		NA
Chloroform	0.29	1.50	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
1,1,1-Trichloroethane	8,700	38,000	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
Carbon Tetrachloride	0.61	3.00	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
1,1-Dichloropropene	None	None		NA		NA			NA		NA		NA		NA		NA		NA		NA
Benzene	1.10	5.40		NA		NA			NA		NA		NA		NA		NA		NA		NA
1,2-Dichloroethane	0.43	2.20	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
Trichloroethene	2.8	14.0		0.2		0.16	22%		0.19		**2.9**		0.37	U	0.05	U	0.05		0.26		0.46
1,2-Dichloropropane	0.89	4.50	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
Dibromomethane	25	110		NA		NA			NA		NA		NA		NA		NA		NA		NA
Bromodichloromethane	0.27	1.40	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
4-Methyl-2-pentanone	5,300	53,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
cis-1,3-Dichloropropene	1.70	1.80	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
Toluene	5,000	45,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
trans-1,3-Dichloropropene	None	None	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
1,1,2-Trichloroethane	1.10	5.30	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
2-Hexanone	210.00	1,400.00		NA		NA			NA		NA		NA		NA		NA		NA		NA
Tetrachloroethene	0.55	2.60	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
1,3-Dichloropropane	1600	20,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
Dibromochloromethane	0.68	3.3	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05

Notes:
U = Not detected above reporting limit shown.
NA = Not Analyzed.
Bold = Exceeds Residential PRG.
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Table 3. Analytical Results: Soil- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		SC-4		SC-4-Dup			SC-4		SC-5		SC-6		SC-7		SC-7		SC-8		SC-9	
Sample Depth	RSLs		0.5-1.5'		0.5-1.5'		RPD	3-4.3'		0.5-1.5'		0.5-1.5'		0.5-1.5'		3-4.1'		0.5-1.5'		2.5-3.5'	
Sampling Date	Resid.	Indust.	6/17/2008		6/17/2008			6/18/2008		6/17/2008		6/17/2008		6/17/2008		6/18/2008		6/17/2008		8/14/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)			(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
1,2-Dibromoethane	0.01 (BLD)	0.07 (BLD)		NA		NA			NA		NA		NA		NA		NA		NA		NA
Chlorobenzene	290	1,400	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
1,1,1,2-Tetrachloroethane	1.9	9.3		NA		NA			NA		NA		NA		NA		NA		NA		NA
Ethylbenzene	5	27		NA		NA			NA		NA		NA		NA		NA		NA		NA
Xylene (m,p)	3,400	17,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
Xylene (o)	3,800	19,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
Styrene	6,300	36,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
Bromoform	61	220	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
Isopropylbenzene	2,100	11,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
Bromobenzene	300	1,800		NA		NA			NA		NA		NA		NA		NA		NA		NA
1,1,2,2-Tetrachloroethane	0.56	2.80	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
1,2,3-Trichloropropane	0.005 (BLD)	3.3		NA		NA			NA		NA		NA		NA		NA		NA		NA
n-Propylbenzene	3,400	21,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
2-Chlorotoluene	1,600	20,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
4-Chlorotoluene	5,500	72,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
1,3,5-Trimethylbenzene	780	10,000		NA		NA			NA		NA		NA		NA		NA		NA		NA
tert-Butylbenzene	None	None		NA		NA			NA		NA		NA		NA		NA		NA		NA
1,2,4-Trimethylbenzene	62	260		NA		NA			NA		NA		NA		NA		NA		NA		NA
sec-Butylbenzene	None	None		NA		NA			NA		NA		NA		NA		NA		NA		NA
1,3-Dichlorobenzene	6.1	62	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
4-Isopropyltoluene	None	None		NA		NA			NA		NA		NA		NA		NA		NA		NA
1,4-Dichlorobenzene	2.4	12.0	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
1,2-Dichlorobenzene	1,900	9,800	U	0.06	U	0.05	18%	U	0.06	U	0.07	U	0.06	U	0.05	U	0.05	U	0.05	U	0.05
n-Butylbenzene	None	None		NA		NA			NA		NA		NA		NA		NA		NA		NA
1,2-Dibromo-3-Chloropropane	2	2		NA		NA			NA		NA		NA		NA		NA		NA		NA
1,2,4-Trichlorobenzene	22	99		NA		NA			NA		NA		NA		NA		NA		NA		NA
Hexachlorobutadiene	6.2	22		NA		NA			NA		NA		NA		NA		NA		NA		NA
Naphthalene	3.6	18		NA		NA			NA		NA		NA		NA		NA		NA		NA
1,2,3-Trichlorobenzene	None	None		NA		NA			NA		NA		NA		NA		NA		NA		NA

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Table 3. Analytical Results: Soil- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		SC-9		SC-10		SC-10		SC-11		SC-12		SC-12		SC-12 Dup			SC-13	
Sample Depth	RSLs		7-7.8'		2.5-3.5'		7-8'		7-8'		2.5-3.5'		7-8'		7-8'		*RPD*	7-8'	
Sampling Date	Resid.	Indust.	8/14/2008		8/14/2008		8/14/2008		8/14/2008		8/14/2008		8/14/2008		8/14/2008			8/14/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)			(mg/kg)	
Dichlorodifluoromethane	180	780	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1	*0%*	U	0.1
Chloromethane	120.0	500.0	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1	*0%*	U	0.1
Vinyl Chloride	0.06 (BLD)	1.70	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1	*0%*	U	0.1
Bromomethane	7.3	32	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1	*0%*	U	0.1
Chloroethane	None	None	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1	*0%*	U	0.1
Trichlorofluoromethane	790	3,400	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1	*0%*	U	0.1
Diethyl Ether (Ethyl ether)	16,000	200,000		NA		NA		NA		NA		NA		NA		NA			NA
Acetone	61,000	630,000		NA		NA		NA		NA		NA		NA		NA			NA
1,1-Dichloroethene	240	1,100	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
Methylene chloride	11	53	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1	*0%*	U	0.1
Carbon Disulfide	820	3,700		NA		NA		NA		NA		NA		NA		NA			NA
Methyl-t-Butyl Ether	43	220		NA		NA		NA		NA		NA		NA		NA			NA
trans-1,2-Dichloroethene	69	230	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
1,1-Dichloroethane	3.3	17	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
2,2-Dichloropropane	None	None		NA		NA		NA		NA		NA	U	0.09		NA			NA
cis-1,2-Dichloroethene	780	10,000		0.09	U	0.05	U	0.05	U	0.05	U	0.05		0.35		0.17	*0%*	U	0.05
2-Butanone (MEK)	28,000	200,000		NA		NA		NA		NA		NA		NA		NA			NA
Bromochloromethane	None	None		NA		NA		NA		NA		NA		NA		NA			NA
Tetrahydrofuran (THF)	None	None		NA		NA		NA		NA		NA		NA		NA			NA
Chloroform	0.29	1.50	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
1,1,1-Trichloroethane	8,700	38,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
Carbon Tetrachloride	0.61	3.00	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
1,1-Dichloropropene	None	None		NA		NA		NA		NA		NA		NA		NA			NA
Benzene	1.10	5.40		NA		NA		NA		NA		NA		NA		NA			NA
1,2-Dichloroethane	0.43	2.20	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
Trichloroethene	2.8	14.0		**6.6**		0.33	U	0.05	U	0.05		0.59		**15**		**7.4**	*68%*	U	0.05
1,2-Dichloropropane	0.89	4.50	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
Dibromomethane	25	110		NA		NA		NA		NA		NA		NA		NA			NA
Bromodichloromethane	0.27	1.40	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
4-Methyl-2-pentanone	5,300	53,000		NA		NA		NA		NA		NA		NA		NA			NA
cis-1,3-Dichloropropene	1.70	1.80	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
Toluene	5,000	45,000		NA		NA		NA		NA		NA		NA		NA			NA
trans-1,3-Dichloropropene	None	None	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
1,1,2-Trichloroethane	1.10	5.30	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
2-Hexanone	210.00	1,400.00		NA		NA		NA		NA		NA		NA		NA			NA
Tetrachloroethene	0.55	2.60	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
1,3-Dichloropropane	1600	20,000		NA		NA		NA		NA		NA		NA		NA			NA
Dibromochloromethane	0.68	3.3	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05

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Table 3. Analytical Results: Soil- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		SC-9		SC-10		SC-10		SC-11		SC-12		SC-12		SC-12 Dup			SC-13	
Sample Depth	RSLs		7-7.8'		2.5-3.5'		7-8'		7-8'		2.5-3.5'		7-8'		7-8'		*RPD*	7-8'	
Sampling Date	Resid.	Indust.	8/14/2008		8/14/2008		8/14/2008		8/14/2008		8/14/2008		8/14/2008		8/14/2008			8/14/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)			(mg/kg)	
1,2-Dibromoethane	0.01 (BLD)	0.07 (BLD)		NA		NA		NA		NA		NA		NA		NA			NA
Chlorobenzene	290	1,400	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
1,1,1,2-Tetrachloroethane	1.9	9.3		NA		NA		NA		NA		NA		NA		NA			NA
Ethylbenzene	5	27		NA		NA		NA		NA		NA		NA		NA			NA
Xylene (m,p)	3,400	17,000		NA		NA		NA		NA		NA		NA		NA			NA
Xylene (o)	3,800	19,000		NA		NA		NA		NA		NA		NA		NA			NA
Styrene	6,300	36,000		NA		NA		NA		NA		NA		NA		NA			NA
Bromoform	61	220	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
Isopropylbenzene	2,100	11,000		NA		NA		NA		NA		NA		NA		NA			NA
Bromobenzene	300	1,800		NA		NA		NA		NA		NA		NA		NA			NA
1,1,2,2-Tetrachloroethane	0.56	2.80	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
1,2,3-Trichloropropane	0.005 (BLD)	3.3		NA		NA		NA		NA		NA		NA		NA			NA
n-Propylbenzene	3,400	21,000		NA		NA		NA		NA		NA		NA		NA			NA
2-Chlorotoluene	1,600	20,000		NA		NA		NA		NA		NA		NA		NA			NA
4-Chlorotoluene	5,500	72,000		NA		NA		NA		NA		NA		NA		NA			NA
1,3,5-Trimethylbenzene	780	10,000		NA		NA		NA		NA		NA		NA		NA			NA
tert-Butylbenzene	None	None		NA		NA		NA		NA		NA		NA		NA			NA
1,2,4-Trimethylbenzene	62	260		NA		NA		NA		NA		NA		NA		NA			NA
sec-Butylbenzene	None	None		NA		NA		NA		NA		NA		NA		NA			NA
1,3-Dichlorobenzene	6.1	62	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
4-Isopropyltoluene	None	None		NA		NA		NA		NA		NA		NA		NA			NA
1,4-Dichlorobenzene	2.4	12.0	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
1,2-Dichlorobenzene	1,900	9,800	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05	*0%*	U	0.05
n-Butylbenzene	None	None		NA		NA		NA		NA		NA		NA		NA			NA
1,2-Dibromo-3-Chloropropane	2	2		NA		NA		NA		NA		NA		NA		NA			NA
1,2,4-Trichlorobenzene	22	99		NA		NA		NA		NA		NA		NA		NA			NA
Hexachlorobutadiene	6.2	22		NA		NA		NA		NA		NA		NA		NA			NA
Naphthalene	3.6	18		NA		NA		NA		NA		NA		NA		NA			NA
1,2,3-Trichlorobenzene	None	None		NA		NA		NA		NA		NA		NA		NA			NA

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Table 3. Analytical Results: Soil- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		SC-14		SC-14		SC-15		SC-16		SCMW-12		CONV-FD		Trip Blank	
Sample Depth	RSLs		2.5-3.5'		7-8'		7-8'		7-8'		7-8'		0-3"			
Sampling Date	Resid.	Indust.	8/14/2008		8/14/2008		8/14/2008		8/14/2008		8/14/2008		8/14/2008		8/14/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Dichlorodifluoromethane	180	780	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1
Chloromethane	120.0	500.0	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1
Vinyl Chloride	0.06 (BLD)	1.70	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1
Bromomethane	7.3	32	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1
Chloroethane	None	None	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1
Trichlorofluoromethane	790	3,400	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1
Diethyl Ether (Ethyl ether)	16,000	200,000		NA		NA		NA		NA		NA		NA		NA
Acetone	61,000	630,000		NA		NA		NA		NA		NA		NA		NA
1,1-Dichloroethene	240	1,100	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
Methylene chloride	11	53	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.2	U	0.1
Carbon Disulfide	820	3,700		NA		NA		NA		NA		NA		NA		NA
Methyl-t-Butyl Ether	43	220		NA		NA		NA		NA		NA		NA		NA
trans-1,2-Dichloroethene	69	230	U	0.05		1.2	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
1,1-Dichloroethane	3.3	17	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
2,2-Dichloropropane	None	None		NA		NA		NA		NA		NA	U	0.1		NA
cis-1,2-Dichloroethene	780	10,000	U	0.05		1.5	U	0.05	U	0.05		0.14	U	0.1	U	0.05
2-Butanone (MEK)	28,000	200,000		NA		NA		NA		NA		NA		NA		NA
Bromochloromethane	None	None		NA		NA		NA		NA		NA		NA		NA
Tetrahydrofuran (THF)	None	None		NA		NA		NA		NA		NA		NA		NA
Chloroform	0.29	1.50	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05
1,1,1-Trichloroethane	8,700	38,000	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	1	U	0.05
Carbon Tetrachloride	0.61	3.00	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
1,1-Dichloropropene	None	None		NA		NA		NA		NA		NA		NA		NA
Benzene	1.10	5.40		NA		NA		NA		NA		NA		NA		NA
1,2-Dichloroethane	0.43	2.20	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.09	U	0.05
Trichloroethene	2.8	14.0		0.47		0.66	U	0.05	U	0.05		0.13	U	0.1	U	0.05
1,2-Dichloropropane	0.89	4.50	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
Dibromomethane	25	110		NA		NA		NA		NA		NA		NA		NA
Bromodichloromethane	0.27	1.40	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
4-Methyl-2-pentanone	5,300	53,000		NA		NA		NA		NA		NA		NA		NA
cis-1,3-Dichloropropene	1.70	1.80	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
Toluene	5,000	45,000		NA		NA		NA		NA		NA		NA		NA
trans-1,3-Dichloropropene	None	None	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
1,1,2-Trichloroethane	1.10	5.30	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
2-Hexanone	210.00	1,400.00		NA		NA		NA		NA		NA		NA		NA
Tetrachloroethene	0.55	2.60	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
1,3-Dichloropropane	1600	20,000		NA		NA		NA		NA		NA		NA		NA
Dibromochloromethane	0.68	3.3	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05

Notes:
U = Not detected above reporting limit shown.
NA = Not Analyzed.
Bold = Exceeds Residential PRG.
Black cell = Exceeds Industrial PRG.
RPD = Relative percent difference

Table 3. Analytical Results: Soil- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		SC-14		SC-14		SC-15		SC-16		SCMW-12		CONV-FD		Trip Blank	
Sample Depth	RSLs		2.5-3.5'		7-8'		7-8'		7-8'		7-8'		0-3"			
Sampling Date	Resid.	Indust.	8/14/2008		8/14/2008		8/14/2008		8/14/2008		8/14/2008		8/14/2008		8/14/2008	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
1,2-Dibromoethane	0.01 (BLD)	0.07 (BLD)		NA		NA		NA		NA		NA		NA		NA
Chlorobenzene	290	1,400	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
1,1,1,2-Tetrachloroethane	1.9	9.3		NA		NA		NA		NA		NA		NA		NA
Ethylbenzene	5	27		NA		NA		NA		NA		NA		NA		NA
Xylene (m,p)	3,400	17,000		NA		NA		NA		NA		NA		NA		NA
Xylene (o)	3,800	19,000		NA		NA		NA		NA		NA		NA		NA
Styrene	6,300	36,000		NA		NA		NA		NA		NA		NA		NA
Bromoform	61	220	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
Isopropylbenzene	2,100	11,000		NA		NA		NA		NA		NA		NA		NA
Bromobenzene	300	1,800		NA		NA		NA		NA		NA		NA		NA
1,1,2,2-Tetrachloroethane	0.56	2.80	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
1,2,3-Trichloropropane	0.005 (BLD)	3.3		NA		NA		NA		NA		NA		NA		NA
n-Propylbenzene	3,400	21,000		NA		NA		NA		NA		NA		NA		NA
2-Chlorotoluene	1,600	20,000		NA		NA		NA		NA		NA		NA		NA
4-Chlorotoluene	5,500	72,000		NA		NA		NA		NA		NA		NA		NA
1,3,5-Trimethylbenzene	780	10,000		NA		NA		NA		NA		NA		NA		NA
tert-Butylbenzene	None	None		NA		NA		NA		NA		NA		NA		NA
1,2,4-Trimethylbenzene	62	260		NA		NA		NA		NA		NA		NA		NA
sec-Butylbenzene	None	None		NA		NA		NA		NA		NA		NA		NA
1,3-Dichlorobenzene	6.1	62	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
4-Isopropyltoluene	None	None		NA		NA		NA		NA		NA		NA		NA
1,4-Dichlorobenzene	2.4	12.0	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
1,2-Dichlorobenzene	1,900	9,800	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.1	U	0.05
n-Butylbenzene	None	None		NA		NA		NA		NA		NA		NA		NA
1,2-Dibromo-3-Chloropropane	2	2		NA		NA		NA		NA		NA		NA		NA
1,2,4-Trichlorobenzene	22	99		NA		NA		NA		NA		NA		NA		NA
Hexachlorobutadiene	6.2	22		NA		NA		NA		NA		NA		NA		NA
Naphthalene	3.6	18		NA		NA		NA		NA		NA		NA		NA
1,2,3-Trichlorobenzene	None	None		NA		NA		NA		NA		NA		NA		NA

Notes:
U = Not detected above reporting limit shown.
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Black cell = Exceeds Industrial PRG.
RPD = Relative percent difference

Table 4. Analytical Results: Soil- SVOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		T5-Top		MW-1		MW-4		MW-4		MW-7		MW-8		PP-FD		Conv-FD	
Sample Depth	RSLs		0-0.5'		24-28'		0-1'		0-1' Duplicate		0-1'		1'		0-0.5'		0-0.5'	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Sample Date	Resid.	Indust.	2/6/2008		2/7/2008		2/7/2008		2/7/2008		2/7/2008		2/8/2008		2/6/2008		2/6/2008	
Phenol	18,000	180,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
2-Chlorophenol	390	5,100	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
2,4-Dichlorophenol	180	1,800	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
2,4,5-Trichlorophenol	6,100	62,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
2,4,6-Trichlorophenol	44.0	160.0	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Pentachlorophenol	3.0	9.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0		**70.0**
2-Nitrophenol	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
4-Nitrophenol	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
2,4-Dinitrophenol	120	1,200	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	10.0
2-Methylphenol (m-Cresol)	3,100	31,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
3/4-Methylphenol (o,p-Cresol	310	3,100	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
2,4-Dimethylphenol	1,200	12,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
4-Chloro-3-methylphenol	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
4,6-Dinitro-2-methylphenol	None	None	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	10.0
Benzoic Acid	240,000	2,500,000	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	10.0
N-Nitrosodimethylamine	0.0023*	0.034	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
N-Nitroso-di-n-propylamine	0.069*	0.25	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
N-nitrosodiphenylamine	99	350	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
bis (2-Chloroethyl) Ether	0.21	1.00	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
bis (2-chloroisopropyl)ether	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
bis (2-Chloroethoxy) methane	180	1,800	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
1,3-Dichlorobenzene	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
1,4-Dichlorobenzene	2.4	12.0	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	**3.0**
1,2-Dichlorobenzene	1,900	9,800	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
1,2,4-Trichlorobenzene	22	99	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
2-Chloronaphthalene	6,300	82,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
4-Chlorophenyl-phenylether	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
4-Bromophenyl-phenylether	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Hexachloroethane	35	120	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Hexachlorobutadiene	6.2	22.0	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Hexachlorocyclopentadiene	370	3,700	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.0	U	10.0
Hexachlorobenzene	0.3	1.1	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
4-Chloroaniline	2.4	8.6	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	**3.0**
2-Nitroaniline	610	6,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
3-Nitroaniline	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0

Notes:
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Bold = Exceeds Residential PRG.
Black cell = Exceeds Industrial PRG.
RPD = Relative percent difference
K:\1-1470-13\CAP\052610 tables for CAP Fonda Data.xlsx 4 SVOCs- soil

Table 4. Analytical Results: Soil- SVOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		T5-Top		MW-1		MW-4		MW-4		MW-7		MW-8		PP-FD		Conv-FD	
Sample Depth	RSLs		0-0.5'		24-28'		0-1'		0-1' Duplicate		0-1'		1'		0-0.5'		0-0.5'	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Sample Date	Resid.	Indust.	2/6/2008		2/7/2008		2/7/2008		2/7/2008		2/7/2008		2/8/2008		2/6/2008		2/6/2008	
4-Nitroaniline	24	86	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Benzyl Alcohol	6,100	61,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Nitrobenzene	4.8	24	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Isophorone	510	1,800	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
2,4-Dinitrotoluene	1.6	5.5	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	**3.0**
2,6-Dinitrotoluene	61	620	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Benzidine	0.0005*	0.0075*	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	1.0	U	3.0
3,3'-Dichlorobenzidene	1.1	3.8	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Pyridine	78	1,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Azobenzene	5.1	23	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Carbazole	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Dimethylphthalate	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Diethylphthalate	49,000	490,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Di-n-butylphthalate (Dibutyl p	6,100	62,000	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1.0	U	3.0
Butylbenzylphthalate	260	910	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0		8.0
bis(2-Ethylhexyl)phthalate	35	120	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	6.0		21.0
Di-n-octylphthalate	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Dibenzofuran	78	1,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Naphthalene	3.6	18	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
2-Methylnaphthalene	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Acenaphthylene	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Acenaphthene	3,400	33,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Fluorene	2,300	22,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0	U	3.0
Phenanthrene	None	None	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2		0.4	U	1.0		24.0
Anthracene	17,000	170,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	1.0		6.0
Fluoranthene	2,300	22,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2		0.4	U	1.0		38.0
Pyrene	1,700	17,000	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2		0.3	U	1.0		21.0
Benzo(a)anthracene	0.15	2.10		0.06	U	0.02	U	0.02	U	0.02	U	0.02		**0.17**	U	0.10		**8.00**
Chrysene	15	210		0.06	U	0.02	U	0.02	U	0.02	U	0.02		0.16	U	0.10		10.00
Benzo(b)fluoranthene	0.15	2.10		0.06	U	0.02	U	0.02	U	0.02	U	0.02		0.15	U	0.10		**10.00**
Benzo(k)fluoranthene	1.5	21.0		0.04	U	0.02	U	0.02	U	0.02	U	0.02		0.13	U	0.10		**10.00**
Benzo(a)pyrene	0.015	0.210		**0.06**	U	**0.02**	U	**0.02**	U	**0.02**	U	**0.02**		**0.15**	U	**0.10**		**7.00**
Indeno(1,2,3-cd)pyrene	0.15	2.10		0.04	U	0.02	U	0.02	U	0.02	U	0.02		0.09	U	0.10	U	3.00
Dibenz(a,h)anthracene	0.015	0.210		**0.02**	U	**0.02**	U	**0.02**	U	**0.02**	U	**0.02**		**0.05**	U	**0.10**	U	3.00
Benzo(g,h,i)perylene	None	None		0.05	U	0.02	U	0.02	U	0.02	U	0.02		0.09	U	0.10		3.00

Notes:
U = Not detected above reporting limit shown.
NA = Not Analyzed.
Bold = Exceeds Residential PRG.
Black cell = Exceeds Industrial PRG.
RPD = Relative percent difference
K:\1-1470-13\CAP\052610 tables for CAP Fonda Data.xlsx 4 SVOCs- soil

Table 4. Analytical Results: Soil- SVOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		Storage Shed		CB-1		B Drain		PAH-1		PAH-2		PAH-3	
Sample Depth	RSLs		0.5-1'		0-0.5'		0-0.5'		0-0.5'		0-0.5'		0-0.5'	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Sample Date	Resid.	Indust.	2/6/2008		2/25/2008		2/6/2008		6/17/2008		6/17/2008		6/17/2008	
Phenol	18,000	180,000	U	0.2	U	0.2								
2-Chlorophenol	390	5,100	U	0.2	U	0.2								
2,4-Dichlorophenol	180	1,800	U	0.2	U	0.2								
2,4,5-Trichlorophenol	6,100	62,000	U	0.2	U	0.2								
2,4,6-Trichlorophenol	44.0	160.0	U	0.2	U	0.2								
Pentachlorophenol	3.0	9.0	U	1.0	U	1.0								
2-Nitrophenol	None	None	U	0.2	U	0.2								
4-Nitrophenol	None	None	U	0.2	U	0.2								
2,4-Dinitrophenol	120	1,200	U	1.0	U	1.0								
2-Methylphenol (m-Cresol)	3,100	31,000	U	0.2	U	0.2								
3/4-Methylphenol (o,p-Cresol	310	3,100	U	0.2		0.4								
2,4-Dimethylphenol	1,200	12,000	U	0.2	U	0.2								
4-Chloro-3-methylphenol	None	None	U	0.2	U	0.2								
4,6-Dinitro-2-methylphenol	None	None	U	1.0	U	1.0								
Benzoic Acid	240,000	2,500,000	U	1.0	U	1.0								
N-Nitrosodimethylamine	0.0023*	0.034	U	0.2	U	0.2								
N-Nitroso-di-n-propylamine	0.069*	0.25	U	0.2	U	0.2								
N-nitrosodiphenylamine	99	350	U	0.2	U	0.2								
bis (2-Chloroethyl) Ether	0.21	1.00	U	0.2	U	0.2								
bis (2-chloroisopropyl)ether	None	None	U	0.2	U	0.2								
bis (2-Chloroethoxy) methane	180	1,800	U	0.2	U	0.2								
1,3-Dichlorobenzene	None	None	U	0.2	U	0.2								
1,4-Dichlorobenzene	2.4	12.0	U	0.2	U	0.2								
1,2-Dichlorobenzene	1,900	9,800	U	0.2	U	0.2								
1,2,4-Trichlorobenzene	22	99	U	0.2	U	0.2								
2-Chloronaphthalene	6,300	82,000	U	0.2	U	0.2								
4-Chlorophenyl-phenylether	None	None	U	0.2	U	0.2								
4-Bromophenyl-phenylether	None	None	U	0.2	U	0.2								
Hexachloroethane	35	120	U	0.2	U	0.2								
Hexachlorobutadiene	6.2	22.0	U	0.2	U	0.2								
Hexachlorocyclopentadiene	370	3,700	U	1.0	U	1.0								
Hexachlorobenzene	0.3	1.1	U	0.2	U	0.2								
4-Chloroaniline	2.4	8.6	U	0.2	U	0.2								
2-Nitroaniline	610	6,000	U	0.2	U	0.2								
3-Nitroaniline	None	None	U	0.2	U	0.2								

Notes:
U = Not detected above reporting limit shown.
NA = Not Analyzed.
Bold = Exceeds Residential PRG.
Black cell = Exceeds Industrial PRG.
RPD = Relative percent difference
K:\1-1470-13\CAP\052610 tables for CAP Fonda Data.xlsx 4 SVOCs- soil

Table 4. Analytical Results: Soil- SVOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	Federal/VT		Storage Shed		CB-1		B Drain		PAH-1		PAH-2		PAH-3	
Sample Depth	RSLs		0.5-1'		0-0.5'		0-0.5'		0-0.5'		0-0.5'		0-0.5'	
Units	(mg/kg)	(mg/kg)	(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)	
Sample Date	Resid.	Indust.	2/6/2008		2/25/2008		2/6/2008		6/17/2008		6/17/2008		6/17/2008	
4-Nitroaniline	24	86	U	0.2	U	0.2								
Benzyl Alcohol	6,100	61,000	U	0.2	U	0.2								
Nitrobenzene	4.8	24	U	0.2	U	0.2								
Isophorone	510	1,800	U	0.2	U	0.2								
2,4-Dinitrotoluene	1.6	5.5	U	0.2	U	0.2								
2,6-Dinitrotoluene	61	620	U	0.2	U	0.2								
Benzidine	0.0005*	0.0075*	U	0.4	U	0.4								
3,3'-Dichlorobenzidene	1.1	3.8	U	0.2	U	0.2								
Pyridine	78	1,000	U	0.2	U	0.2								
Azobenzene	5.1	23	U	0.2	U	0.2								
Carbazole	None	None	U	0.2	U	0.2								
Dimethylphthalate	None	None	U	0.2	U	0.2								
Diethylphthalate	49,000	490,000	U	0.2	U	0.2								
Di-n-butylphthalate (Dibutyl p	6,100	62,000	U	0.5	U	0.5								
Butylbenzylphthalate	260	910	U	0.2		0.4								
bis(2-Ethylhexyl)phthalate	35	120	U	1.0	U	1.0								
Di-n-octylphthalate	None	None	U	0.2	U	0.2								
Dibenzofuran	78	1,000	U	0.2	U	0.2								
Naphthalene	3.6	18	U	0.2	U	0.2	U	1.0	U	0.2	U	0.2	U	0.2
2-Methylnaphthalene	None	None	U	0.2	U	0.2	U	1.0	U	0.2	U	0.2	U	0.2
Acenaphthylene	None	None	U	0.2	U	0.2	U	1.0	U	0.2	U	0.2	U	0.2
Acenaphthene	3,400	33,000	U	0.2	U	0.2	U	1.0	U	0.2	U	0.2	U	0.2
Fluorene	2,300	22,000	U	0.2	U	0.2	U	1.0	U	0.2	U	0.2	U	0.2
Phenanthrene	None	None	U	0.2	U	0.2		4.0		0.2	U	0.2	U	0.2
Anthracene	17,000	170,000	U	0.2	U	0.2	U	1.0	U	0.2	U	0.2	U	0.2
Fluoranthene	2,300	22,000	U	0.2	U	0.2		5.0		0.4	U	0.2	U	0.2
Pyrene	1,700	17,000	U	0.2	U	0.2		5.0		0.3	U	0.2	U	0.2
Benzo(a)anthracene	0.15	2.10		0.07		0.11		**2.00**		0.14		0.07		0.05
Chrysene	15	210		0.07		0.06		4.00		0.17		0.08		0.04
Benzo(b)fluoranthene	0.15	2.10		0.08		0.12		**2.00**		**0.30**		**0.17**		0.12
Benzo(k)fluoranthene	1.5	21.0		0.06		0.06		**2.00**		0.08		0.04		0.03
Benzo(a)pyrene	0.015	0.210		**0.07**		**0.08**		**5.00**		**0.16**		**0.07**		**0.04**
Indeno(1,2,3-cd)pyrene	0.15	2.10		0.05		0.05		**1.00**		0.09		**0.50**		0.02
Dibenz(a,h)anthracene	0.015	0.210		**0.02**	U	**0.02**	U	**1.00**	U	**0.02**	U	**0.02**	U	**0.02**
Benzo(g,h,i)perylene	None	None		0.05		0.06		2.00		0.10		0.05		0.03

Notes:
U = Not detected above reporting limit shown.
NA = Not Analyzed.
Bold = Exceeds Residential PRG.
Black cell = Exceeds Industrial PRG.
RPD = Relative percent difference
K:\1-1470-13\CAP\052610 tables for CAP Fonda Data.xlsx 4 SVOCs- soil

Table 5. Analytical Results: Aqueous- PCBs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13
(All results in ug/L)

Sample ID	***VGES- Total PCBs (ug/L)***	**Pit-W**		**MW-10**	
Sample Date		**2/25/2008**		**6/18/2008**	
PCB-1016	*0.5*	U	0.5	U	0.5
PCB-1221	*0.5*	U	0.5	U	0.5
PCB-1232	*0.5*	U	0.5	U	0.5
PCB-1242	*0.5*	U	0.5	U	0.5
PCB-1248	*0.5*	U	0.5	U	0.5
PCB-1254	*0.5*	U	0.5	U	0.5
PCB-1260	*0.5*	U	0.5	U	0.5
PCB-1262	*0.5*	Not analyzed by lab			
PCB-1268	*0.5*	Not analyzed by lab			

Table 6. Analytical Results: Groundwater- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	*VGES (ug/L)*	Pit-W		MW-1		MW-1 Duplicate		MW-2		MW-3		MW-3		MW-4		MW-4		MW-4		MW-5		MW-6	
Sampling Date		2/25/2008		2/12/2008		2/12/2008		2/12/2008		2/12/2008		8/18/2008		2/12/2008		8/18/2008		4/10/2009		2/12/2008		2/12/2008	
Dichlorodifluoromethane	*1,000*	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Chloromethane	*3*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Vinyl Chloride	*2*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Bromomethane	*10*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	NA		U	2	U	2
Chloroethane	*None*	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Trichlorofluoromethane	*2,100*	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Diethyl Ether	*None*	U	5	U	5	U	5	U	5	U	5		NA	U	5		NA	NA		U	5	U	5
Acetone	*700*	U	10	U	10	U	10	U	10	U	10		NA		50		NA	NA		U	10	U	10
1,1-Dichloroethene	*7*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Methylene chloride	*5*	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Carbon Disulfide	*None*	U	5	U	5	U	5		5	U	5		NA	U	5		NA	NA		U	5	U	5
Methyl-t-Butyl Ether (MTBE)	*40*	U	5	U	5	U	5	U	5	U	5		NA	U	5		NA	NA		U	5	U	5
trans-1,2-Dichloroethene	*100*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1-Dichloroethane	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
2,2-Dichloropropane	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
cis-1,2-Dichloroethene	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	2		6		3	U	2	U	2
2-Butanone (MEK)	*4,200*	U	10	U	10	U	10	U	10	U	10		NA	U	10		NA	NA		U	10	U	10
Bromochloromethane	*90*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Tetrahydrofuran (THF)	*None*	U	10	U	10	U	10	U	10	U	10		NA	U	10		NA	NA		U	10	U	10
Chloroform	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1,1-Trichloroethane	*200*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Carbon Tetrachloride	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1-Dichloropropene	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Benzene	*5*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
1,2-Dichloroethane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Trichloroethene	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2		**7**		5	U	2	U	2
1,2-Dichloropropane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Dibromomethane	*None*	U	2	U	2	U	2	U	2	U	2		NA	U	2		NA	NA		U	2	U	2
Bromodichloromethane	*90*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
4-Methyl-2-pentanone (MIBK)	*560*	U	10	U	10	U	10	U	10	U	10		NA	U	10		NA	NA		U	10	U	10
cis-1,3-Dichloropropene	*None*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Toluene	*1,000*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
trans-1,3-Dichloropropene	*None*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,1,2-Trichloroethane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
2-Hexanone	*None*	U	10	U	10	U	10	U	10	U	10		NA	U	10		NA	NA		U	10	U	10
Tetrachloroethene	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,3-Dichloropropane	*1*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Dibromochloromethane	*60*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,2-Dibromoethane (EDB)	*0.05*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
Chlorobenzene	*100*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1,1,2-Tetrachloroethane	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Ethylbenzene	*700*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1

H = Hold time exceeded at lab
NA = Not analyzed

Table 6. Analytical Results: Groundwater- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	*VGES (ug/L)*	Pit-W		MW-1		MW-1 Duplicate		MW-2		MW-3		MW-3		MW-4		MW-4		MW-4		MW-5		MW-6	
Sampling Date		2/25/2008		2/12/2008		2/12/2008		2/12/2008		2/12/2008		8/18/2008		2/12/2008		8/18/2008		4/10/2009		2/12/2008		2/12/2008	
Xylene (m,p)	*None*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
Xylene (o)	*None*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
Xylenes (total)	*10,000*	*U*	*2*	*U*	*2*	*U*	*2*	*U*	*2*	*U*	*2*		*NA*	*U*	*2*		*NA*	NA		*U*	*2*	*U*	*2*
Styrene	*100*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
Bromoform	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	NA		U	2	U	2
Isopropylbenzene (Cumene)	*None*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
Bromobenzene	*None*	U	2	U	2	U	2	U	2	U	2		NA	U	2		NA	NA		U	2	U	2
1,1,2,2-Tetrachloroethane	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,2,3-Trichloropropane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
n-Propylbenzene	*None*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
2-Chlorotoluene	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
4-Chlorotoluene	*100*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,3,5-Trimethylbenzene	*None*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
1,2,4-Trimethylbenzene	*None*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
1,3,5 + 1,2,4- TMB	*350*	*U*	*2*	*U*	*2*	*U*	*2*	*U*	*2*	*U*	*2*		*NA*	*U*	*2*		*NA*	NA		*U*	*2*	*U*	*2*
tert-Butylbenzene	*None*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
sec-Butylbenzene	*None*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
1,3-Dichlorobenzene	*600*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
4-Isopropyltoluene	*None*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
1,4-Dichlorobenzene	*75*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	U	1	U	1	U	1
1,2-Dichlorobenzene	*600*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	U	1	U	1	U	1
n-Butylbenzene	*None*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	NA		U	1	U	1
1,2-Dibromo-3-Chloropropane (Dibromochloropropane)	*0.2*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,2,4-Trichlorobenzene	*70*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Hexachlorobutadiene	*1*	U	1	U	1	U	1	U	1	U	1		NA	U	1		NA	U	1	U	1	U	1
Naphthalene	*20*	U	5	U	5	U	5	U	5	U	5		NA	U	5		NA	NA		U	5	U	5
1,2,3-Trichlorobenzene	*None*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1

H = Hold time exceeded at lab
NA = Not analyzed

Table 6. Analytical Results: Groundwater- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	*VGES (ug/L)*	MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-12 Duplicate			MW-12		MW-12	
Sampling Date		8/18/2008		2/12/2008		2/12/2008		2/12/2008		2/12/2008		2/25/2008		8/18/2008		8/18/2008		*RPD*	4/10/2009		7/14/2009	
Dichlorodifluoromethane	*1,000*	U	5	U	5	U	5	U	5	U	5	U	5	U	50	U	50	*0%*	U	5	U	5
Chloromethane	*3*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	U	2	U	2
Vinyl Chloride	*2*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	U	2	U	2
Bromomethane	*10*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	NA		NA	
Chloroethane	*None*	U	5	U	5	U	5	U	5	U	5	U	5	U	50	U	50	*0%*	U	5	U	5
Trichlorofluoromethane	*2,100*	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	*0%*	U	5	U	5
Diethyl Ether	*None*		NA	U	5	U	5	U	5	U	5	U	5		NA		NA		NA		NA	
Acetone	*700*		NA	U	10	U	10	U	10		110	U	10		NA		NA		NA		NA	
1,1-Dichloroethene	*7*	U	1	U	1	U	1	U	1	U	1	U	1	U	10	U	10	*0%*		5		**10**
Methylene chloride	*5*	U	5	U	5	U	5	U	5	U	5	U	5	U	50	U	50	*0%*	U	5	U	5
Carbon Disulfide	*None*		NA	U	5	U	5	U	5	U	5	U	5		NA		NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	*40*		NA	U	5	U	5	U	5	U	5	U	5		NA		NA		NA		NA	
trans-1,2-Dichloroethene	*100*	U	2	U	2	U	2	U	2	U	2	U	2		10		10	*0%*		29	U	2
1,1-Dichloroethane	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	10	U	10	*0%*	U	2	U	2
2,2-Dichloropropane	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	10	U	10	*0%*	U	2	U	2
cis-1,2-Dichloroethene	*70*	U	2	U	2	U	2	U	2	U	2	U	2		**2100**		**2200**	*5%*	**H**	**1700**		**2400**
2-Butanone (MEK)	*4,200*		NA	U	10	U	10	U	10		10	U	10		NA		NA		NA		NA	
Bromochloromethane	*90*	U	2	U	2	U	2	U	2	U	2	U	2	U	10	U	10	*0%*	U	2	U	2
Tetrahydrofuran (THF)	*None*		NA	U	10	U	10	U	10	U	10	U	10		NA		NA		NA		NA	
Chloroform	*None*		4		7	U	2	U	2	U	2	U	2	U	10	U	10	*0%*	U	2	U	2
1,1,1-Trichloroethane	*200*	U	2	U	2	U	2	U	2	U	2	U	2	U	10	U	10	*0%*	U	2	U	2
Carbon Tetrachloride	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	10	U	10	*0%*	U	2	U	2
1,1-Dichloropropene	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	10	U	10	*0%*	U	2	U	2
Benzene	*5*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
1,2-Dichloroethane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	10	U	10	*0%*	U	2	U	2
Trichloroethene	*5*	U	2	U	2	U	2	U	2	U	2	U	2		**190**		**280**	*38%*	**H**	**840**		**1700**
1,2-Dichloropropane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	10	U	10	*0%*	U	2	U	2
Dibromomethane	*None*		NA	U	2	U	2	U	2	U	2	U	2		NA		NA		NA		NA	
Bromodichloromethane	*90*	U	1	U	1	U	1	U	1	U	1	U	1	U	10	U	10	*0%*	U	1	U	1
4-Methyl-2-pentanone (MIBK)	*560*		NA	U	10	U	10	U	10		10	U	10		NA		NA		NA		NA	
cis-1,3-Dichloropropene	*None*	U	1	U	1	U	1	U	1	U	1	U	1	U	10	U	10	*0%*	U	1	U	1
Toluene	*1,000*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
trans-1,3-Dichloropropene	*None*	U	1	U	1	U	1	U	1	U	1	U	1	U	10	U	10	*0%*	U	1	U	1
1,1,2-Trichloroethane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	U	2	U	2
2-Hexanone	*None*		NA	U	10	U	10	U	10	U	10	U	10		NA		NA		NA		NA	
Tetrachloroethene	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	U	2	U	2
1,3-Dichloropropane	*1*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	U	2	U	2
Dibromochloromethane	*60*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	U	2	U	2
1,2-Dibromoethane (EDB)	*0.05*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
Chlorobenzene	*100*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	U	2	U	2
1,1,1,2-Tetrachloroethane	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	U	2	U	2
Ethylbenzene	*700*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	

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Table 6. Analytical Results: Groundwater- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	*VGES (ug/L)*	MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-12 Duplicate			MW-12		MW-12	
Sampling Date		8/18/2008		2/12/2008		2/12/2008		2/12/2008		2/12/2008		2/25/2008		8/18/2008		8/18/2008		*RPD*	4/10/2009		7/14/2009	
Xylene (m,p)	*None*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
Xylene (o)	*None*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
Xylenes (total)	*10,000*		*NA*	*U*	*2*	*U*	*2*	*U*	*2*	*U*	*2*	*U*	*2*		*NA*		*NA*		NA		NA	
Styrene	*100*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
Bromoform	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	NA		NA	
Isopropylbenzene (Cumene)	*None*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
Bromobenzene	*None*		NA	U	2	U	2	U	2	U	2	U	2		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	U	2	U	2
1,2,3-Trichloropropane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	U	2	U	2
n-Propylbenzene	*None*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
2-Chlorotoluene	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	U	2	U	2
4-Chlorotoluene	*100*	U	2	U	2	U	2	U	2	U	2	U	2	U	20	U	20	*0%*	U	2	U	2
1,3,5-Trimethylbenzene	*None*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
1,2,4-Trimethylbenzene	*None*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
1,3,5 + 1,2,4- TMB	*350*		*NA*	*U*	*2*	*U*	*2*	*U*	*2*	*U*	*2*	*U*	*2*		*NA*		*NA*		NA		NA	
tert-Butylbenzene	*None*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
sec-Butylbenzene	*None*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
1,3-Dichlorobenzene	*600*	U	1	U	1	U	1	U	1	U	1	U	1	U	10	U	10	*0%*	U	1	U	1
4-Isopropyltoluene	*None*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
1,4-Dichlorobenzene	*75*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		U	1	U	1
1,2-Dichlorobenzene	*600*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		U	1	U	1
n-Butylbenzene	*None*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		NA		NA	
1,2-Dibromo-3-Chloropropane (Dibromochloropropane)	*0.2*	U	1	U	1	U	1	U	1	U	1	U	1	U	10	U	10	*0%*	U	1	U	1
1,2,4-Trichlorobenzene	*70*	U	1	U	1	U	1	U	1	U	1	U	1	U	10	U	10	*0%*	U	1	U	1
Hexachlorobutadiene	*1*		NA	U	1	U	1	U	1	U	1	U	1		NA		NA		U	1	U	1
Naphthalene	*20*		NA	U	5	U	5	U	5	U	5	U	5		NA		NA		NA		NA	
1,2,3-Trichlorobenzene	*None*	U	1	U	1	U	1	U	1	U	1	U	1	U	10	U	10	*0%*	U	1	U	1

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Table 6. Analytical Results: Groundwater- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	*VGES (ug/L)*	MW-13S		MW-13S		MW-13D		MW-14S		MW-14S		MW-15S		MW-15S		MW-15S		MW-15D	
Sampling Date		4/10/2009		7/14/2009		4/10/2009		4/10/2009		7/14/2009		4/10/2009		7/9/2009		7/14/2009		4/10/2009	
Dichlorodifluoromethane	*1,000*	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Chloromethane	*3*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Vinyl Chloride	*2*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Bromomethane	*10*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chloroethane	*None*	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Trichlorofluoromethane	*2,100*	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Diethyl Ether	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Acetone	*700*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Dichloroethene	*7*		5	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Methylene chloride	*5*	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Carbon Disulfide	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Methyl-t-Butyl Ether (MTBE)	*40*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,2-Dichloroethene	*100*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1-Dichloroethane	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
2,2-Dichloropropane	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
cis-1,2-Dichloroethene	*70*	U	2	U	2	U	2	U	2	U	2		**140**		**250**		**260**		4
2-Butanone (MEK)	*4,200*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Bromochloromethane	*90*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Tetrahydrofuran (THF)	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chloroform	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1,1-Trichloroethane	*200*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Carbon Tetrachloride	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1-Dichloropropene	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Benzene	*5*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dichloroethane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Trichloroethene	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,2-Dichloropropane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Dibromomethane	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Bromodichloromethane	*90*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
4-Methyl-2-pentanone (MIBK)	*560*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
cis-1,3-Dichloropropene	*None*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Toluene	*1,000*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
trans-1,3-Dichloropropene	*None*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,1,2-Trichloroethane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
2-Hexanone	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,3-Dichloropropane	*1*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Dibromochloromethane	*60*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,2-Dibromoethane (EDB)	*0.05*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chlorobenzene	*100*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1,1,2-Tetrachloroethane	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Ethylbenzene	*700*	NA		NA		NA		NA		NA		NA		NA		NA		NA	

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Table 6. Analytical Results: Groundwater- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	*VGES (ug/L)*	MW-13S		MW-13S		MW-13D		MW-14S		MW-14S		MW-15S		MW-15S		MW-15S		MW-15D	
Sampling Date		4/10/2009		7/14/2009		4/10/2009		4/10/2009		7/14/2009		4/10/2009		7/9/2009		7/14/2009		4/10/2009	
Xylene (m,p)	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Xylene (o)	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Xylenes (total)	*10,000*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Styrene	*100*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Bromoform	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Isopropylbenzene (Cumene)	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Bromobenzene	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,2,3-Trichloropropane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
n-Propylbenzene	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
2-Chlorotoluene	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
4-Chlorotoluene	*100*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,3,5-Trimethylbenzene	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,2,4-Trimethylbenzene	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,3,5 + 1,2,4- TMB	*350*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
tert-Butylbenzene	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
sec-Butylbenzene	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,3-Dichlorobenzene	*600*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
4-Isopropyltoluene	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dichlorobenzene	*75*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,2-Dichlorobenzene	*600*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
n-Butylbenzene	*None*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,2-Dibromo-3-Chloropropane (Dibromochloropropane)	*0.2*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,2,4-Trichlorobenzene	*70*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Hexachlorobutadiene	*1*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Naphthalene	*20*	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,2,3-Trichlorobenzene	*None*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1

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Table 6. Analytical Results: Groundwater- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	*VGES (ug/L)*	MW-16		MW-17		P-1		P-10		Trip Blank 1		Trip Blank 2		Trip Blank 3		Trip Blank 4		Trip Blank 5	
Sampling Date		7/14/2009		7/14/2009		7/9/2009		7/9/2009		1/25/2008		2/21/2008		8/12/2008		4/10/2009		7/9/2009	
Dichlorodifluoromethane	*1,000*	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Chloromethane	*3*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Vinyl Chloride	*2*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Bromomethane	*10*	NA		NA		NA		NA		U	2	U	2	U	2	NA		NA	
Chloroethane	*None*	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Trichlorofluoromethane	*2,100*	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Diethyl Ether	*None*	NA		NA		NA		NA		U	5	U	5		NA	NA		NA	
Acetone	*700*	NA		NA		NA		NA		U	10	U	10		NA	NA		NA	
1,1-Dichloroethene	*7*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Methylene chloride	*5*	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Carbon Disulfide	*None*	NA		NA		NA		NA		U	5	U	5		NA	NA		NA	
Methyl-t-Butyl Ether (MTBE)	*40*	NA		NA		NA		NA		U	5	U	5		NA	NA		NA	
trans-1,2-Dichloroethene	*100*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1-Dichloroethane	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
2,2-Dichloropropane	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
cis-1,2-Dichloroethene	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
2-Butanone (MEK)	*4,200*	NA		NA		NA		NA		U	10	U	10		NA	NA		NA	
Bromochloromethane	*90*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Tetrahydrofuran (THF)	*None*	NA		NA		NA		NA		U	10	U	10		NA	NA		NA	
Chloroform	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1,1-Trichloroethane	*200*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Carbon Tetrachloride	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1-Dichloropropene	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Benzene	*5*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
1,2-Dichloroethane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Trichloroethene	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,2-Dichloropropane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Dibromomethane	*None*	NA		NA		NA		NA		U	2	U	2		NA	NA		NA	
Bromodichloromethane	*90*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
4-Methyl-2-pentanone (MIBK)	*560*	NA		NA		NA		NA		U	10	U	10		NA	NA		NA	
cis-1,3-Dichloropropene	*None*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Toluene	*1,000*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
trans-1,3-Dichloropropene	*None*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,1,2-Trichloroethane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
2-Hexanone	*None*	NA		NA		NA		NA		U	10	U	10		NA	NA		NA	
Tetrachloroethene	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,3-Dichloropropane	*1*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Dibromochloromethane	*60*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,2-Dibromoethane (EDB)	*0.05*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
Chlorobenzene	*100*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1,1,2-Tetrachloroethane	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Ethylbenzene	*700*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	

H = Hold time exceeded at lab
NA = Not analyzed

Table 6. Analytical Results: Groundwater- VOCs
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Sample ID	*VGES (ug/L)*	MW-16		MW-17		P-1		P-10		Trip Blank 1		Trip Blank 2		Trip Blank 3		Trip Blank 4		Trip Blank 5	
Sampling Date		7/14/2009		7/14/2009		7/9/2009		7/9/2009		1/25/2008		2/21/2008		8/12/2008		4/10/2009		7/9/2009	
Xylene (m,p)	*None*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
Xylene (o)	*None*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
Xylenes (total)	*10,000*	NA		NA		NA		NA		*U*	*2*	*U*	*2*		*NA*	NA		NA	
Styrene	*100*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
Bromoform	*None*	NA		NA		NA		NA		U	2	U	2	U	2	NA		NA	
Isopropylbenzene (Cumene)	*None*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
Bromobenzene	*None*	NA		NA		NA		NA		U	2	U	2		NA	NA		NA	
1,1,2,2-Tetrachloroethane	*70*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,2,3-Trichloropropane	*5*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
n-Propylbenzene	*None*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
2-Chlorotoluene	*None*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
4-Chlorotoluene	*100*	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,3,5-Trimethylbenzene	*None*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
1,2,4-Trimethylbenzene	*None*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
1,3,5 + 1,2,4- TMB	*350*	NA		NA		NA		NA		*U*	*2*	*U*	*2*		*NA*	NA		NA	
tert-Butylbenzene	*None*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
sec-Butylbenzene	*None*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
1,3-Dichlorobenzene	*600*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
4-Isopropyltoluene	*None*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
1,4-Dichlorobenzene	*75*	U	1	U	1	U	1	U	1	U	1	U	1		NA	U	1	U	1
1,2-Dichlorobenzene	*600*	U	1	U	1	U	1	U	1	U	1	U	1		NA	U	1	U	1
n-Butylbenzene	*None*	NA		NA		NA		NA		U	1	U	1		NA	NA		NA	
1,2-Dibromo-3-Chloropropane (Dibromochloropropane)	*0.2*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,2,4-Trichlorobenzene	*70*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Hexachlorobutadiene	*1*	U	1	U	1	U	1	U	1	U	1	U	1		NA	U	1	U	1
Naphthalene	*20*	NA		NA		NA		NA		U	5	U	5		NA	NA		NA	
1,2,3-Trichlorobenzene	*None*	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1

H = Hold time exceeded at lab
NA = Not analyzed

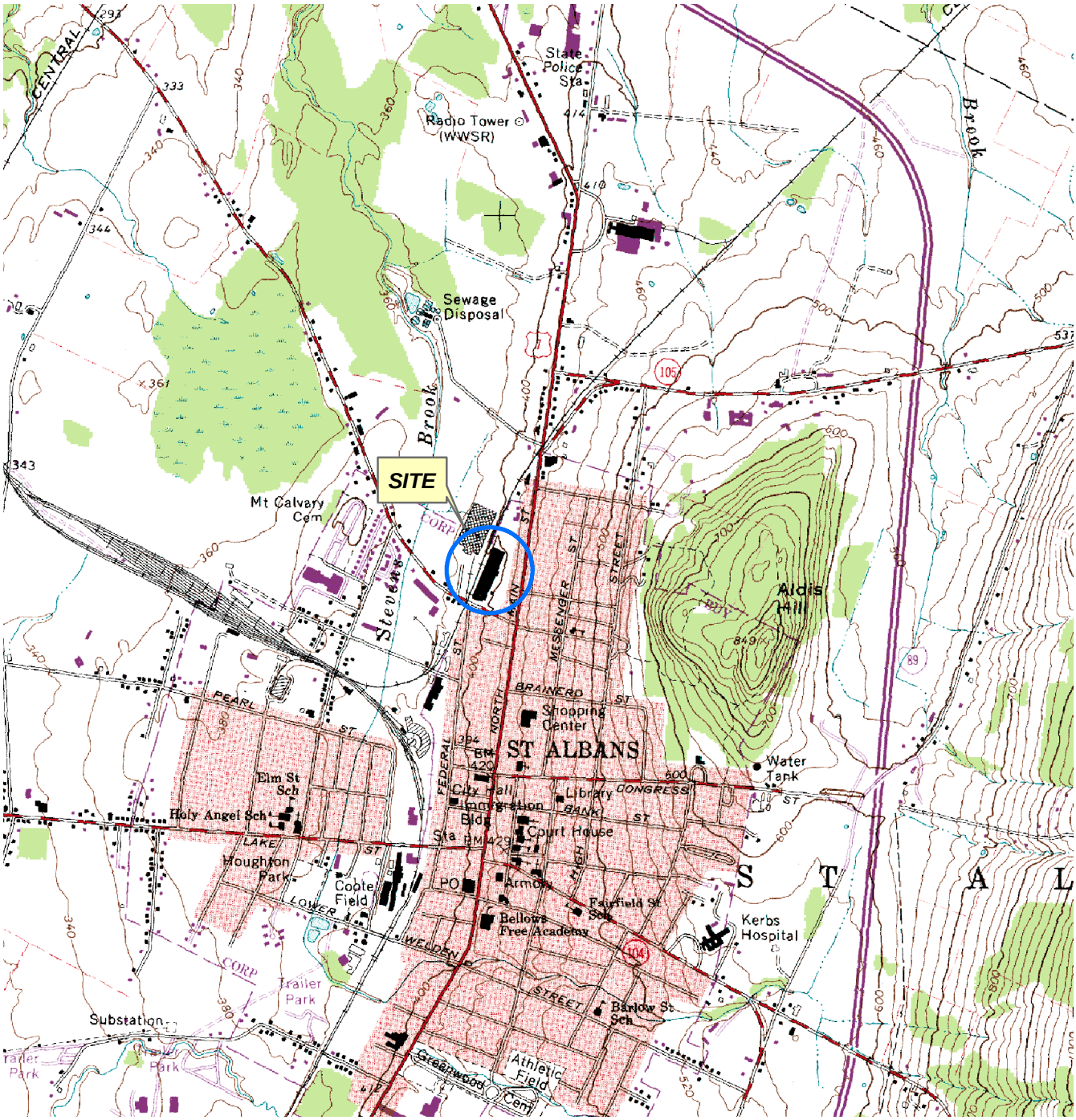
Table 7. Water Levels
Former Fonda Group Facility, St. Albans, VT
JCO Project #1-1470-13

Monitoring Well	X Coordinate (m, VT SPCS)	Y Coordinate (m, VT SPCS)	TOC Elevation* (ft)	Total Well Depth (ft bTOC)	Depth to Water - 02/25/08 (ft bTOC)	Water Table Elevation 02/25/08 (ft)	Depth to Water - 08/18/08 (ft bTOC)	Water Table Elevation 08/18/08 (ft)	Depth to Water - 09/14/09 (ft bTOC)	Water Table Elevation 09/14/09 (ft)
MW-1	453846.14	257912.25	97.12	20.80	6.07	91.05	5.63	91.49	5.20	91.92
MW-2	453866.80	257963.44	97.16	11.89	6.70	90.46	6.50	90.66	6.18	90.98
MW-3	453843.92	257959.56	97.12	16.15	7.48	89.64	7.15	89.97	7.07	90.05
MW-4	453883.36	257995.93	97.10	9.89	4.80	92.3	5.41	91.69	5.06	92.04
MW-5	453887.11	258034.15	97.03	10.97	7.33	89.7	7.32	89.71	7.24	89.79
MW-6	453869.02	258033.51	97.06	12.75	7.45	89.61	7.73	89.33	7.14	89.92
MW-7	453882.89	258081.32	97.07	10.12	5.25	91.82	5.48	91.59	5.19	91.88
MW-8	453809.95	257897.65	93.90	9.90	7.90	86	7.20	86.70	6.87	87.03
MW-9[1]	453833.66	257868.68	96.14	12.13	5.20	90.94	5.21	90.93	4.72	91.42
MW-10	453893.15	257976.41	93.77	9.12	3.81	93	0.72	93.05	0.81	92.96
MW-11	453891.49	258097.40	100.00	10.06	5.00	95	6.06	93.94	5.36	94.64
MW-12[2]	453849.94	258006.49	97.10	14.00	Not present	Not present	5.02	92.08	8.28	88.82
MW-13S	453819.44	258035.64	81.28	8.6	Not present	Not present	Not present	Not present	2.4	78.88
MW-13D	453820.51	258037.51	81.17	24.2	Not present	Not present	Not present	Not present	0.1	81.07
MW-14S	453815.92	258024.24	81.74	9.2	Not present	Not present	Not present	Not present	2.36	79.38
MW-15S	453809.75	258010.38	81.91	10.7	Not present	Not present	Not present	Not present	1.29	80.62
MW-15D	453810.47	258010.07	81.86	24	Not present	Not present	Not present	Not present	5.05	76.81
MW-16	453791.61	258002.13	82.28	8.8	Not present	Not present	Not present	Not present	2.84	79.44
MW-17	453725.02	257961.39	81.71	9.0	Not present	Not present	Not present	Not present	2.95	78.76

* = Arbitrary elevation of 100 ft amsl assigned to MW-11 TOC
[1] = 2.4 feet of riser pipe cut off on 02/25/08 to install road box
[2] = Not surveyed, TOC elevation estimated from MW-3 and MW-6
Original TOC elevation (96.81), 3.04 ft was cut off on 6/18/08 when road box was installed, therefore new TOC elev. = 93.77

FIGURES

1-1470-13/GIS/112807 Figure 1.mxd



N

1 0.5 0 1

MILES

1000 0 1000 2000 3000 4000 5000 6000 7000

FEET

CONTOUR INTERVAL = 20 FT

VT

MAP LOCATION

BASE MAP: USGS 7.5 Minute Topographic Quadrangle St. Albans, VT 1987

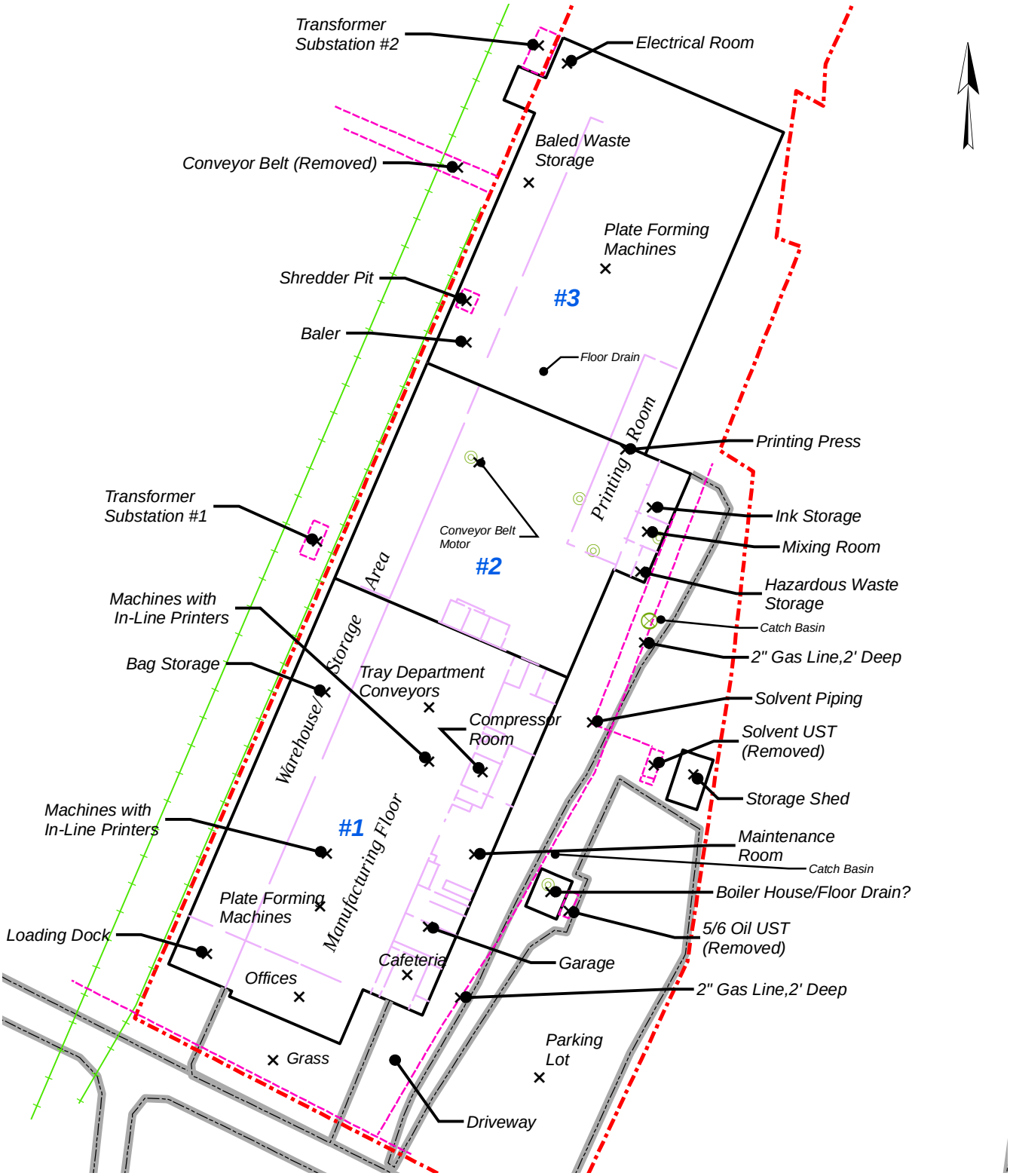
Figure 1. Site Location Map
Former Fonda Manufacturing
St. Albans, Vermont

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: RTK	Date: 04/03/08
Chk'd by: J_B	Date: 04/03/08
Scale: 1:24,000	Project: 1-1470-13

K:\1-1470-13\GIS\TSCA Notification Figures\051210 Figure 2 Site Layout.mxd



100 50 0 100 200

Feet

Sources: NAIP 2003 Orthophotograph St. Albans NW (4407316_nw) and "Facility Plan: The Fonda Group, Inc., by New England Air Quality Testing, 3/19/01.

Note: All lines are approximate.

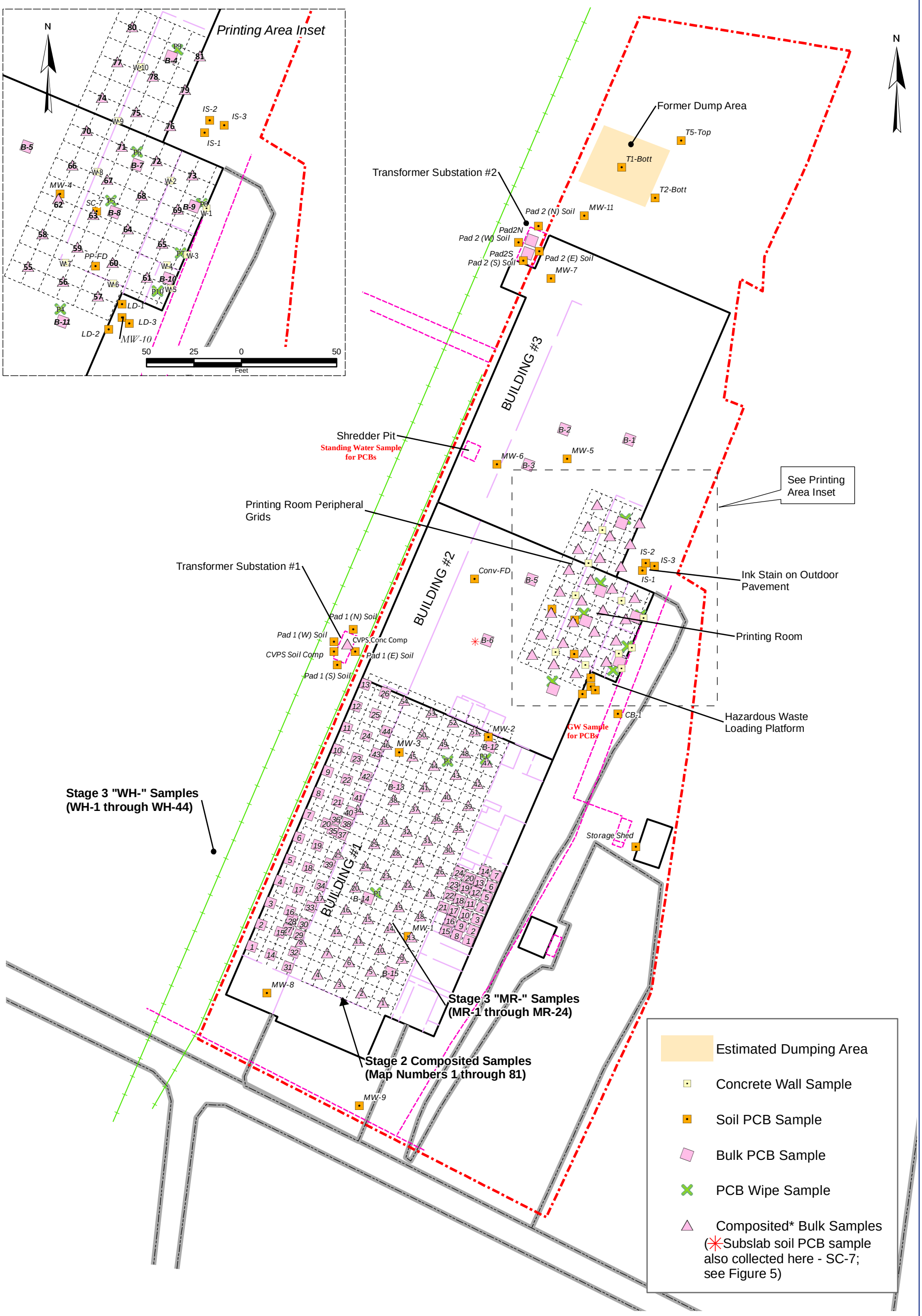
Figure 2. Site Layout
Former Fonda Manufacturing
St. Albans, Vermont

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: RTK Date: 05/12/10
Reviewed by: Date:
Scale: 1"=100' Project: 1-1470-13

K:\1-1470-13\GIS\TSCA Notification Figures\051310 Figure 3 All PCB Sample Locations.mxd



* Composited sample shown is composed of one sample from each of the surrounding grid squares.

Note: All lines are approximate.

Sources: NAIP 2003 Orthophotograph St. Albans NW (4407316_nw) and "Facility Plan: The Fonda Group, Inc., by New England Air Quality Testing, 3/19/01.

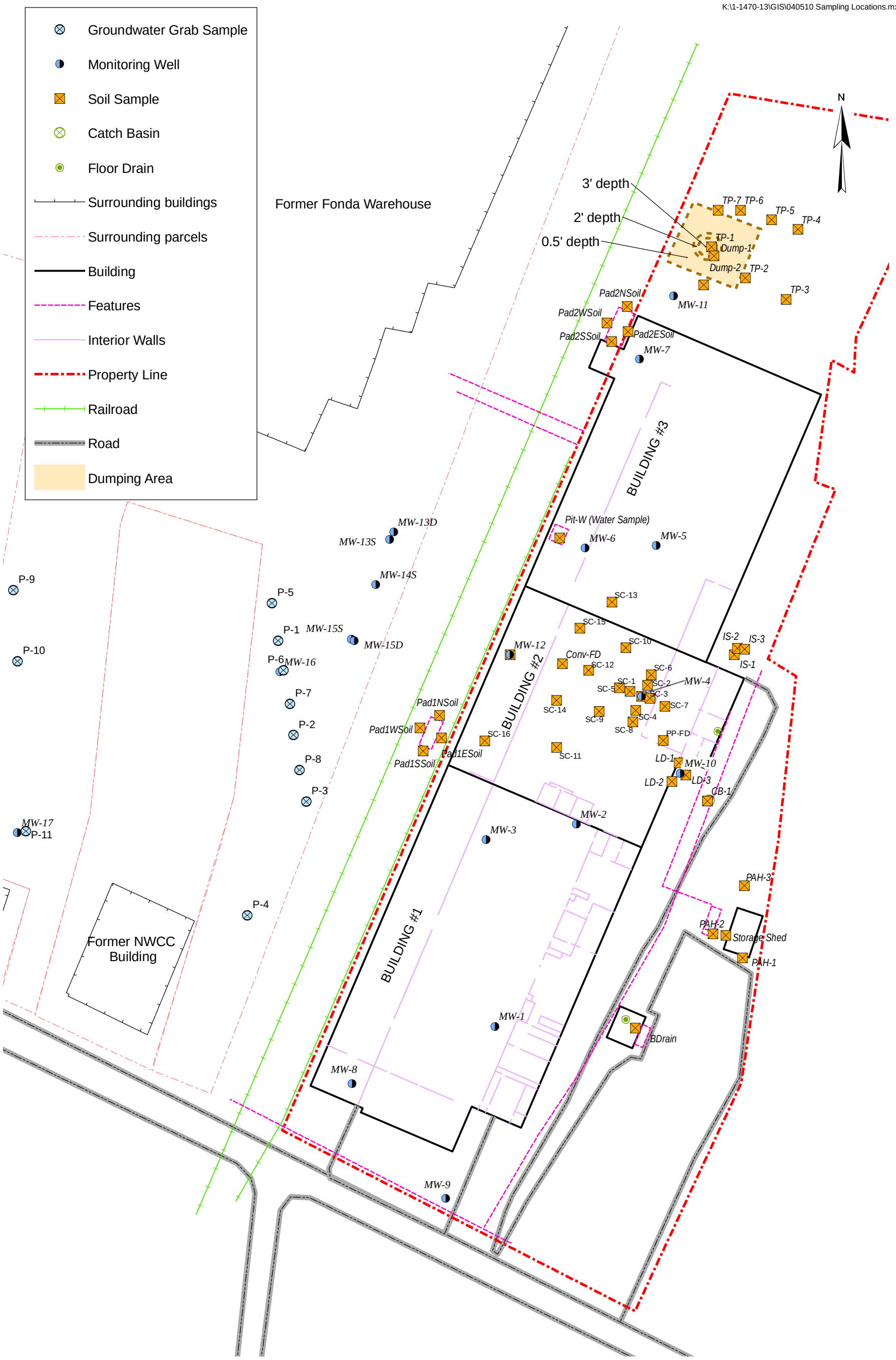
P:
TJKCAD
JCO
LOGO_N11X17-2.DWG

Figure 3. PCB Soil, Concrete, and Water Sampling Locations
Former Fonda Manufacturing
St. Albans, Vermont

The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602
(802) 229-4600

Drawn by:	RTK	Date:	05/13/10
Chk'd by:		Date:	
Scale: 1"=80'		Project: 1-1470-13	

K:\1-1470-13\GIS\040510 Sampling Locations.mxd



80 40 0 80 160 240
Feet

Note: All lines are approximate.

Sources: NAIP 2003 Orthophotograph St. Albans NW (4407316_nw) and "Facility Plan: The Fonda Group, Inc., by New England Air Quality Testing, 3/19/01.
Sample results are preliminary as of 02/05/08.

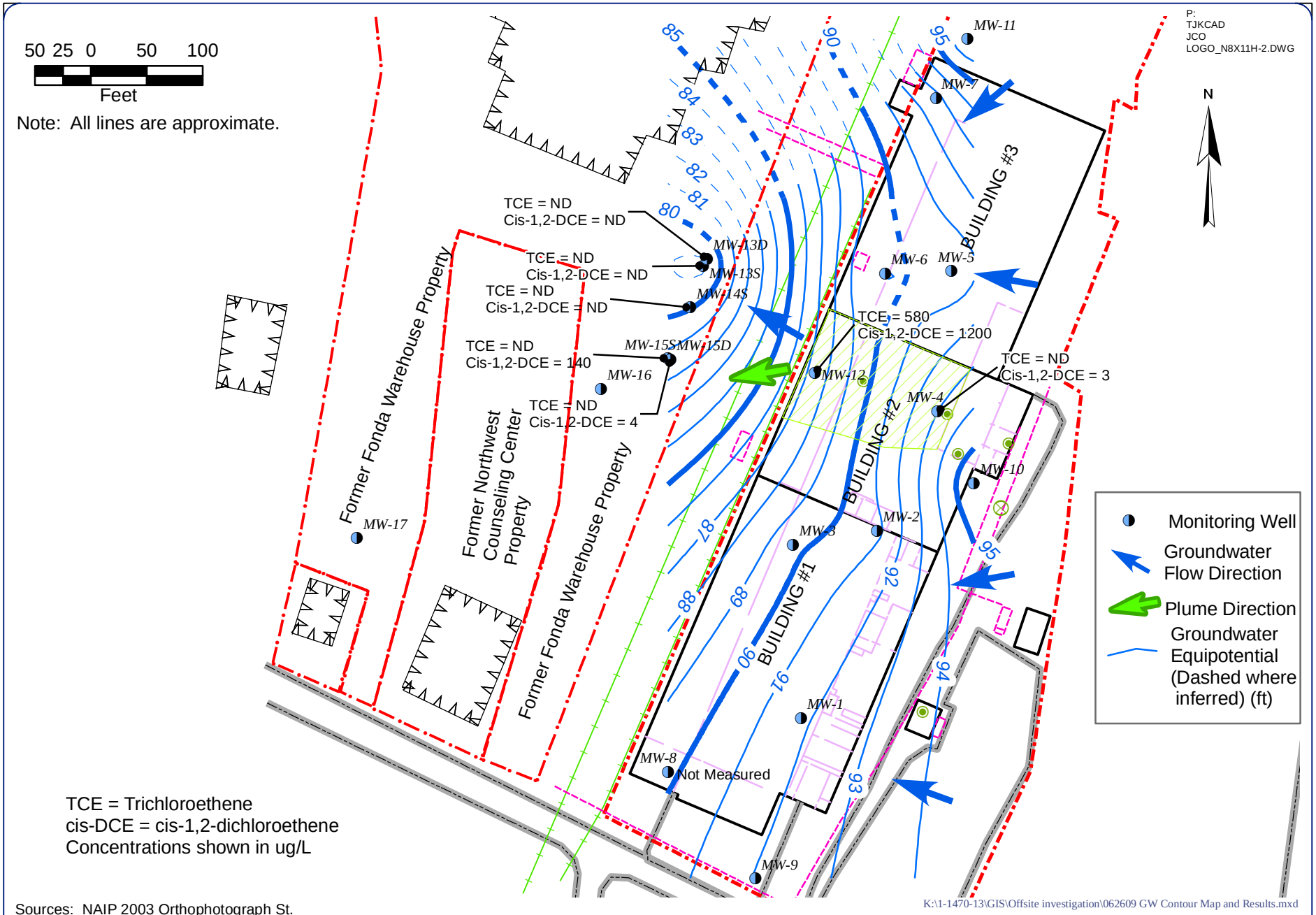
P:
TJKCAD
JCO
LOGO_N11X17-2.DWG

Figure 4. Sampling Locations (Except PCBs)
Former Fonda Manufacturing
St. Albans, Vermont

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602
(802) 229-4600

Drawn by: RTK Date: 04/05/10
Chk'd by: Date:
Scale: 1"=80' Project: 1-1470-13



Sources: NAIP 2003 Orthophotograph St. Albans NW (4407316_nw) and "Facility Plan: The Fonda Group, Inc., by New England Air Quality Testing, 3/19/01. Water elevations based on a level survey by The Johnson Company on 4/10/09.

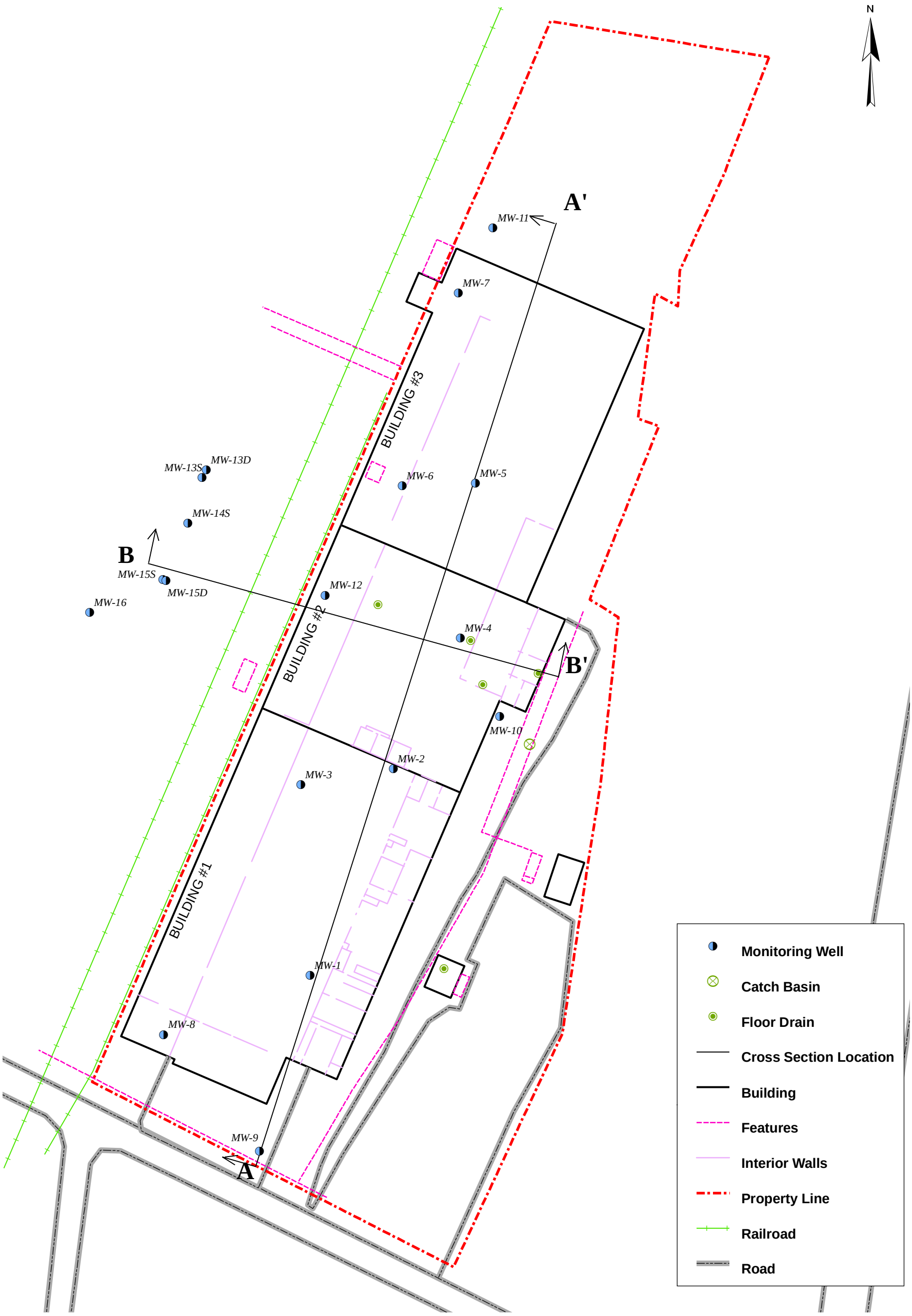
Figure 5. Results and Groundwater Directions- April 10, 2009
Former Fonda Manufacturing
St. Albans, Vermont

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602
(802) 229-4600

Drawn by:	TJK	Date:	04/28/09
Chk'd by:	RTK	Date:	06/26/09
Scale:	1"=120'	Project:	1-1470-13

K:\1-1470-13\GIS\Offsite investigation\040110 Figure 6a Cross Section Locations.mxd



40 20 0 40 80
Feet

Sources: NAIP 2003 Orthophotograph St. Albans NW (4407316_nw) and "Facility Plan: The Fonda Group, Inc., by New England Air Quality Testing, 3/19/01.
Water elevations based on a level survey by The Johnson Company on 02/12/08.

Note: All lines are approximate.

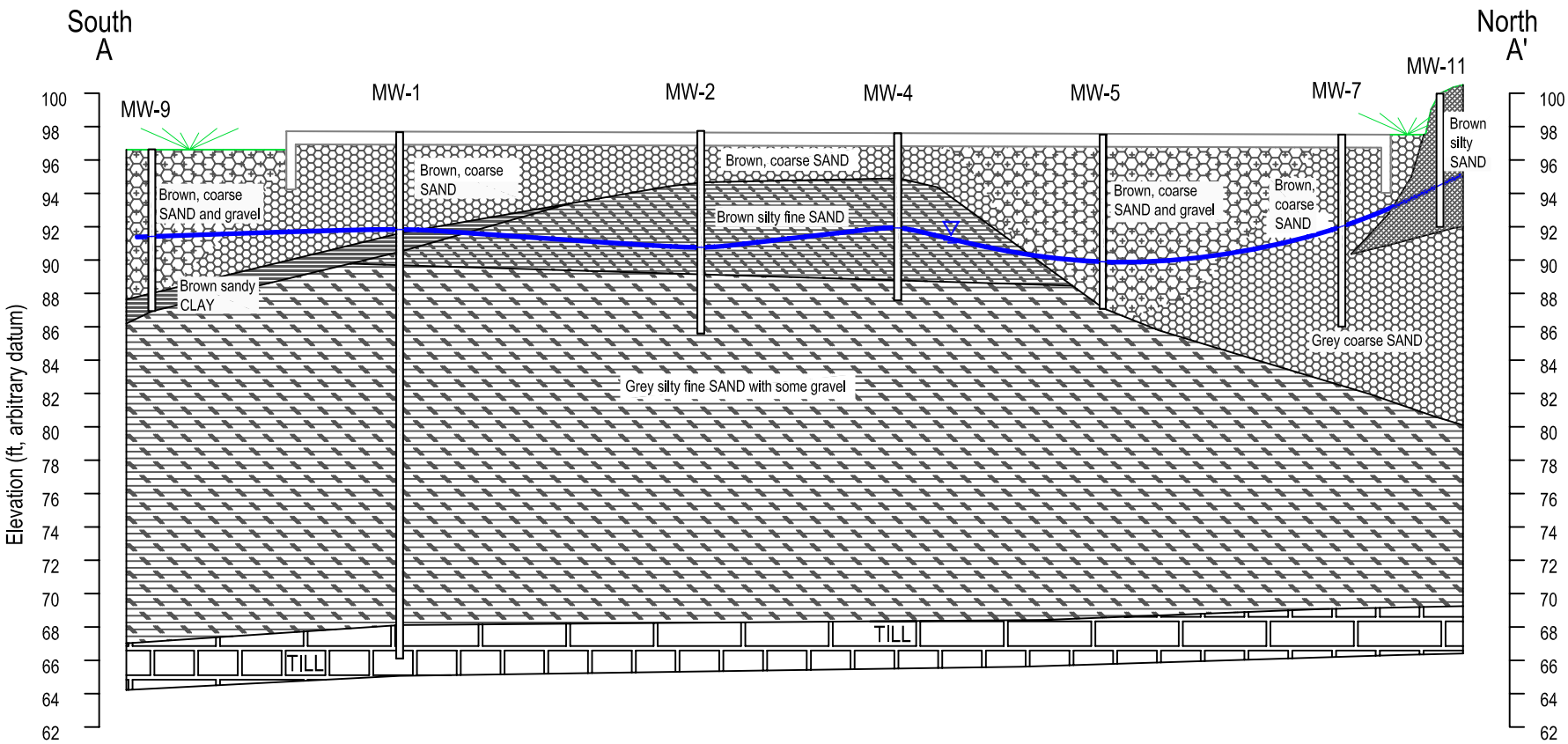
P:
TJKCAD
JCO
LOGO_N11X17-2.DWG

Figure 6a: Cross Section Locations
Former Fonda Manufacturing Facility
St. Albans, Vermont

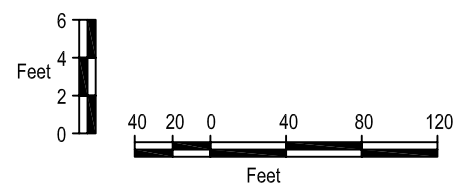
The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602
(802) 229-4600

Drawn by: JSG Date: 04/01/10
Chk'd by: RTK Date: 04/05/10
Scale: 1"=80' Project: 1-1470-13



Sample ID	VGES (ug/L)	MW-9		MW-1		MW-2		MW-4						MW-5		MW-7		MW-11	
Sampling Date		2/12/2008		2/12/2008		2/12/2008		2/12/2008		8/18/2008		4/10/2009		2/12/2008		2/12/2008		2/25/2008	
1,1-Dichloroethene	7	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
trans-1,2-Dichloroethene	100	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
cis-1,2-Dichloroethene	70	U	2	U	2	U	2	U	2		6		3	U	2	U	2	U	2
Trichloroethene	5	U	2	U	2	U	2	U	2		**7**		5	U	2	U	2	U	2
Tetrachloroethene	5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2



Notes:
U = Not detected above reporting limit shown
Vertical Exaggeration: 1H: 3.05V

Figure 6b. Cross-Section A-A'
Former Fonda Group Facility
St. Albans, VT

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: JSG Date: 04/01/10
Reviewed by: RTK Date: 04/05/10
Scale: As Shown Project: 1-1470-13

K:\1-1470-13\GIS\X-Section A-A'.dwg

Sample ID	VGES (ug/L)	MW-15S						MW-15D		MW-12						MW-4						MW-10	
Sampling Date		4/10/2009		7/9/2009		7/14/2009		4/10/2009		8/18/2008		4/10/2009		7/14/2009		2/12/2008		8/18/2008		4/10/2009		2/12/2008	
1,1-Dichloroethene	7	U	1	U	1	U	1	U	1	U	10		5		10	U	1	U	1	U	1	U	1
trans-1,2-Dichloroethene	100	U	2	U	2	U	2	U	2		10		29	U	2	U	2	U	2	U	2	U	2
cis-1,2-Dichloroethene	70		140		250		260		4		2100	H	1700		2400	U	2		6		3	U	2
Trichloroethene	5	U	2	U	2	U	2	U	2		190	H	840		1700	U	2		7		5	U	2
Tetrachloroethene	5	U	2	U	2	U	2	U	2	U	20	U	2	U	2	U	2	U	2	U	2	U	2

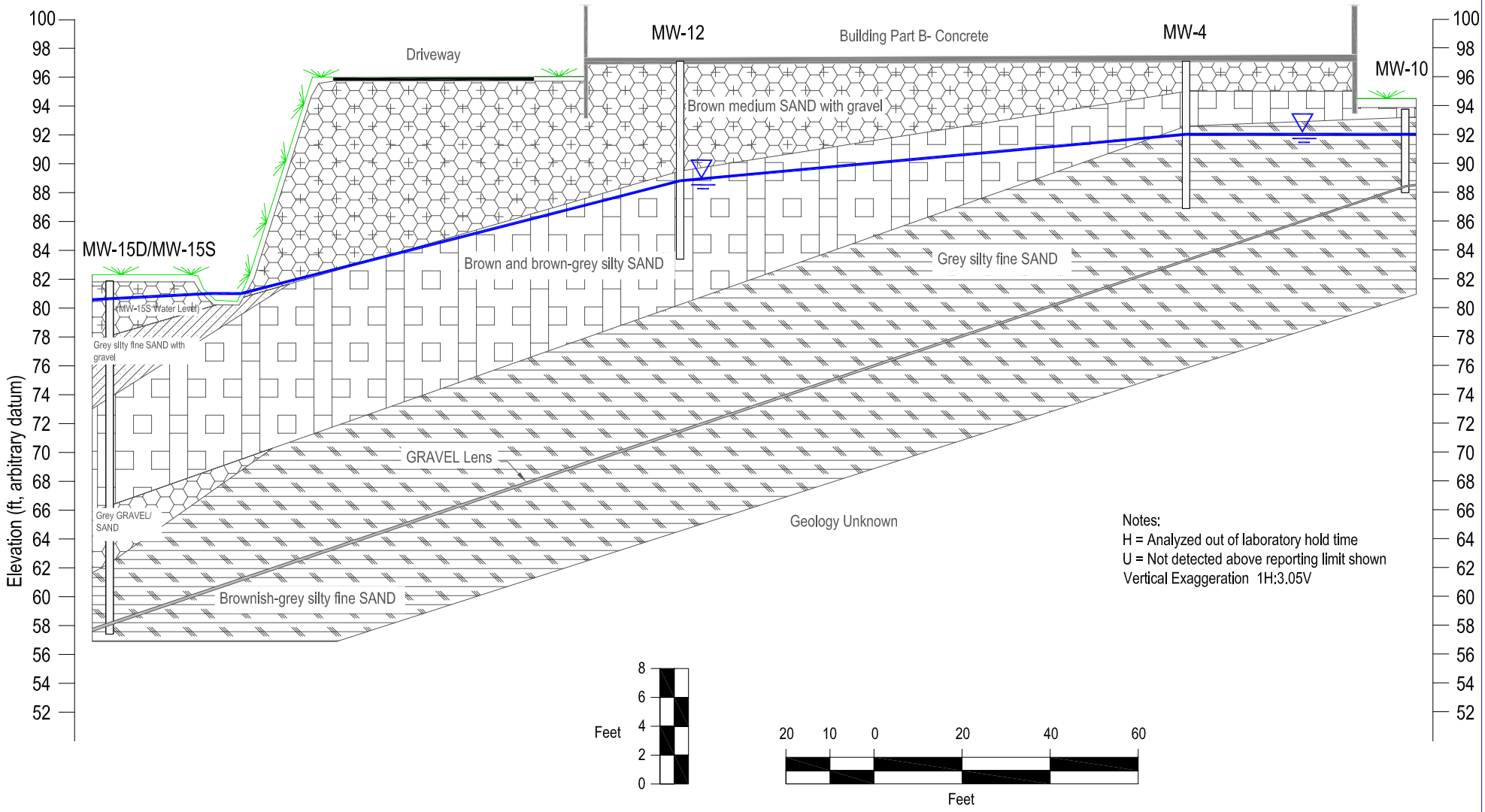


Figure 6c. Cross-Section B-B'
Former Fonda Group Facility
St. Albans, VT

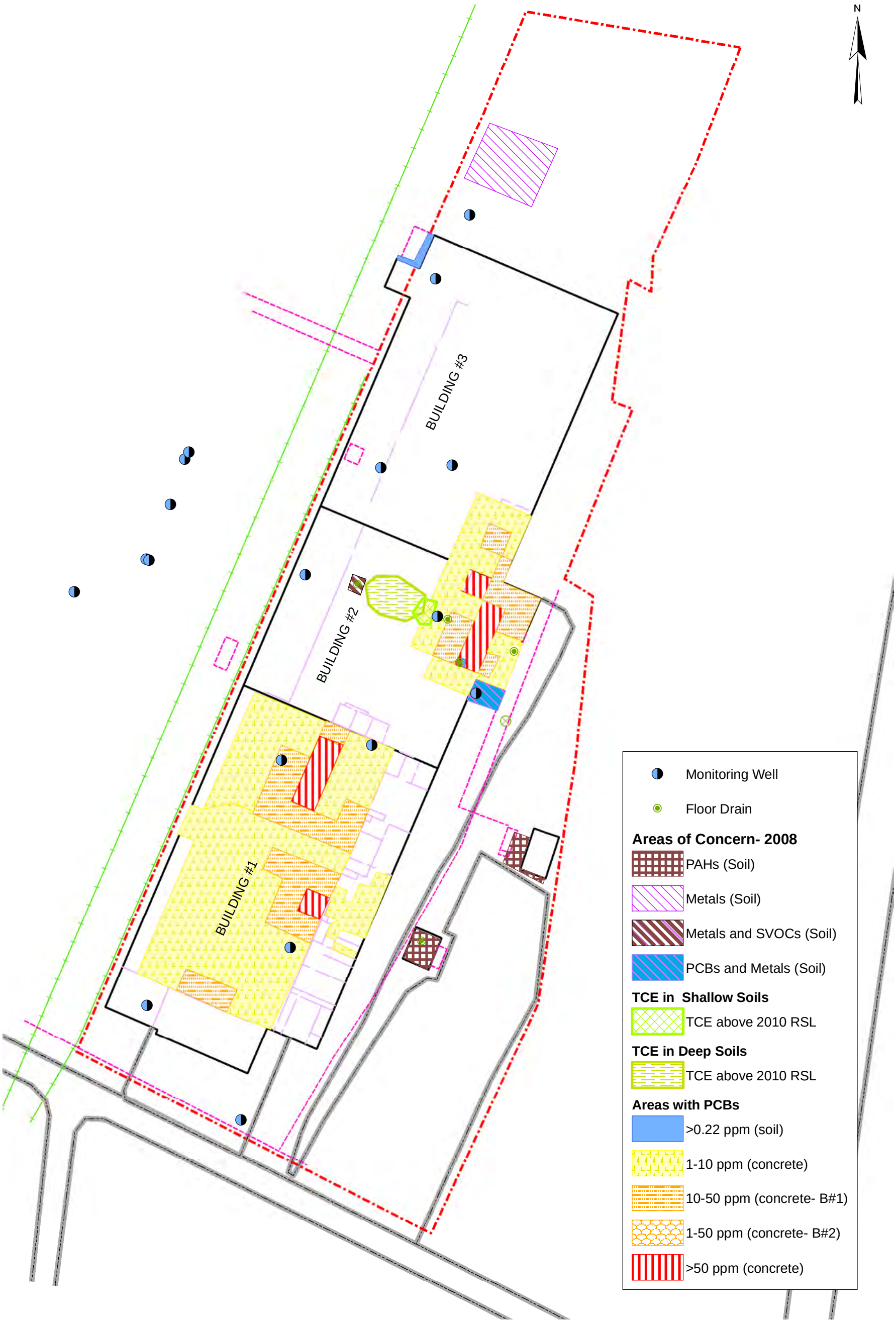
The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: JSG Date: 04/01/10
Reviewed by: RTK Date: 04/05/10
Scale: As Shown Project: 1-1470-13

K:\1-1470-13\GIS\X-Section B-B'.dwg

K:\1-1470-13\GIS\TSCA Notification Figures\060710 Figure 7 All AOCs.mxd



Note: All lines are approximate.

Sources: NAIP 2003 Orthophotograph St. Albans NW (4407316_nw) and "Facility Plan: The Fonda Group, Inc., by New England Air Quality Testing, 3/19/01.

P:
TJKCAD
JCO
LOGO_N11X17-2.DWG

Figure 7. All Areas of Concern- Summer 2008
Former Fonda Manufacturing
St. Albans, Vermont

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602
(802) 229-4600

Drawn by: RTK Date: 10/30/08
Chk'd by: Date:
Scale: 1"=80' Project: 1-1470-13