



# **Remediation Progress Report Bentley Mall Fairbanks, Alaska**

Environmental Resource Group, Inc  
1038 Redwood Highway, Suite 1  
Mill Valley, CA 94941  
Phone: 415-381-6574

**REMEDIATION SYSTEM**  
**REMEDIATION PROGRESS REPORT**

**Bentley Mall**  
**Fairbanks, Alaska**

**April 2010**

Prepared for:  
Anne Farris  
Alaska Department of Environmental Conservation  
Northern Regional Office  
Contaminated Sites Program  
610 University Ave.  
Fairbanks, Alaska 99709-3643

Prepared by:  
Environmental Resource Group, Inc.  
1038 Redwood Hwy., Suite 1  
Mill Valley, CA 94941  
Telephone: (415) 381-6574



Benjamin Wells  
Project Manager

And

CEECON Testing Inc.  
434 North Canal St., Suite 6  
South San Francisco, CA 94080  
Telephone: (650) 827-7474



Michael Hodges  
Remediation Specialist

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## 1.0 INTRODUCTION

Environmental Resource Group, Inc. (ERG) and CEECON Testing, Inc. (CEECON) prepared this REMEDIATION PROGRESS REPORT for the REMEDIATION SYSTEM installed at the Bentley Mall located at 32 College Road in Fairbanks, Alaska 99701 (FIGURE 1, SITE LOCATION). This report evaluates the remediation progress of the air-sparge and vapor-extraction components of the Containerized Remediation Equipment (CRE), and documents the reduction in levels of chlorinated compounds in soil and groundwater beneath this site, as well as ambient air quality data in two buildings located above the area of concern. This report was prepared pursuant to a request by Alaska Department of Environmental Conservation (ADEC) for a status report on the site remediation activities.

## 2.0 BACKGROUND

### 2.1 Site Description

The Bentley Mall complex is situated on an approximate 12 acre site located north of College Road near the intersection of College Road and the Old Steese Highway (FIGURE 2, BENTLEY MALL AND VICINITY). The site as depicted in the U.S. Geological Survey (USGS) Fairbanks D-2 (SE) quadrangle is located in the southwest  $\frac{1}{4}$  of Section 2, Township 1 South, Range 1 West, Fairbanks Meridian. The Mall property includes several satellite buildings in addition to the main mall located in the Bentley Mall complex (Figure 2). The remaining portions of the site are paved. Nearby surface water bodies include Noyes Slough (0.1 miles to the south and west), and the Chena River (0.5 miles to the south).

### 2.2 History

The *Bentley Mall Site Characterization Report* dated April 2006, presented findings of contamination characteristics on Bentley Mall property and properties located hydraulically down-gradient from the site. The site investigation included evaluation of impacts to soil, groundwater, surface water, and evaluation of impacts affecting potential receptors such as water wells and buildings.

A contaminant plume consisting primarily of chlorinated volatile organic compounds tetrachlorethene (PCE), and the associated degradation product trichloroethene (TCE), was found to originate on Bentley Mall property in the vicinity of the East Satellite building with a trend to the west in the generalized direction of the groundwater flow. The on-going environmental investigation and treatment of impacted soil and groundwater at this site is referred to as the East Satellite Building Area, and is located in the southern portion of the *subject site*. The East Satellite Building case is under the oversight of the Alaska Department of Environmental Conservation (ADEC).



In January 2006, Alaska Resources & Environmental Services (ARES) submitted to ADEC a Corrective Action Plan (CAP: “*Corrective Action Plan, Bentley Mall, Fairbanks, Alaska*”) to begin remediation efforts at the East Satellite Building Area. This CAP documented the results of laboratory analysis of soil and groundwater samples, indoor air sampling, and soil-gas surveys completed in August 2003 and June 2004 in the south portion of the Bentley Mall. Three remedial alternatives were evaluated in the CAP and the most feasible and economic alternative selected was air-sparging and vapor extraction. ADEC issued a conditional approval of the CAP via a letter dated May 3, 2006, “*Approval of Site Characterization and Corrective Action Reports, Bentley Mall East Satellite Building, Fairbanks, Alaska.*” A workplan for the CAP implementation was subsequently issued to ADEC in June 2006, “*Remedial Action Workplan, Bentley Mall, Fairbanks, Alaska.*” Approval to proceed with the workplan was issued by ADEC in June 2006.

In accordance with the WORKPLAN submitted in June 2006, a Remediation System was installed in September 2006. The CRE consisted of a total of 16 air sparge wells, and nine vapor extraction wells along with associated underground piping and wiring (Appendix A-Figure 2). Operational characteristics of the remedial system were detailed in the *Air-Sparging and Vapor-Extraction System Installation and Start-Up Report* dated January 2007. A summary of other environmental investigations previously performed on this site is also included in the January 2007 Report.

### **3.0 CORRECTIVE ACTION**

The treatment area for the air-sparging system and vapor-extraction system encompasses the East Satellite and Wells Fargo Bank Buildings in the southern portion of the parking lot for the Bentley Mall, an area of approximately 120,000 square feet (FIGURE 3, BENTLEY MALL SVE SYSTEM LAYOUT 2010). The treatment area is underlain by soil and groundwater impacted by PCE and TCE.

Air sparging involves the injection of air, and possibly a mixture of ozone, air, or other constituents capable of enhancing the degradation of chlorinated solvents dissolved in groundwater beneath the subject site. The mixture is injected via sparging wells into the contaminated water-bearing zone. The injected air mixture traverses horizontally and vertically via interstitial channels through the soil column. The three (3) main mechanisms for contaminant removal during sparging are believed to be: 1) in-situ stripping of dissolved volatile organic compounds, 2) volatilization of dissolved and adsorbed contaminants below the water table and in the overlying soil, and 3) aerobic and anaerobic biodegradation of contaminants enhanced by the injection of the mixture. When this action creates an underground ‘air stripper’ that removes volatile contaminants in the saturated zone as well as in the overlying unsaturated zone, it makes the contaminants more readily available for extraction using the vapor-extraction portion of the remediation system.

Vapor extraction is used in conjunction with air sparging to mitigate soil vapor and treat the soils above the saturated zone. In vapor extraction, a vacuum is applied to the soil above the saturated zone along vertical extraction wells. The applied vacuum controls the subsurface flow of air and removes volatile contaminants. The extracted vapor is treated above-ground by an abatement unit prior to discharge to the atmosphere.

Between June and December 2006, 16 sparge wells, 9 vapor extraction wells, and 5 vapor monitoring wells were installed at this site. Containerized Remediation Equipment (CRE) was installed at this site for the purposes of Pilot Performance Testing. The CRE contained air-sparging and vapor-extraction equipment, and conveyance piping was installed to connect the recently installed wells to the CRE.

Pilot Performance Testing initial results and operational data for the CRE were described in the *Performance Evaluation Report* dated May 2008. A description of the remediation equipment installed on this site, including remediation system operation, was detailed in that report.

This *Remediation Progress Report* dated April 2010 was prepared to evaluate the performance of the air-sparge and vapor-extraction components of the Containerized Remediation Equipment (CRE), and to document the reduction in levels of chlorinated compounds in soil and groundwater beneath this site, as well as improvements in ambient air quality in two buildings located above the area of concern. Remediation had progressed well on this project in that reductions were seen chlorinated hydrocarbon concentrations in groundwater, in ambient air sampled in on-site buildings, and in vapor extracted from beneath the site. Subsequent to this report, an area of concern was identified near the College Road entryway where the addition of two vapor-extraction wells was proposed. The next section of this report documents the modifications to the on site remediation system.

## **4.0 SYSTEM MODIFICATIONS**

### **4.1 Vapor Extraction Well Installation**

Vapor-extraction well installation was completed by Homestead Drilling Company in September 2009 using an 8" hollow stem auger. Lyle Gresehover, Geologist for ARES was on-site throughout the installation. Soils were logged and classified and photo-ionization detector (PID) field screened from samples collected from a 2.5' stainless steel split-spoon sampler at 2.5' foot intervals from 0-15' bgs. Two vapor extraction wells were installed (VE-10 and VE-11) as shown in Figure 3.

Analytical samples were collected using a split spoon sampler at both 5' (VE10-5-0909, VE11-5-0909) and 10' below grade surface (bgs) interval (VE10-10-0909, VE11-10-0909) and analyzed for VOCs by EPA method 8260B. One blind field duplicate sample (Dup-0909) was collected for QA/QC purposes. Analytical results indicate that VOCs were non-

detect for all samples. Analytical results and ADEC Lab Quality Checklist are included in **Appendix A**.

#### **4.2 Vapor Well Installation Details**

After drilling to 15 feet bgs, Schedule 40, 2-inch diameter, polyvinyl chloride (PVC) well casing was installed in the hollow stem of the auger train. The bottom 5 feet of the well casing was screened casing (0.020 inch slots) with a threaded bottom cap. The rest of the well casing up to grade was solid casing. No. 3 sand was poured into the hollow stem of the auger train and the auger train was raised as the sand was added using a tremie tool. The sand pack was placed from the base of the well to 9 feet bgs followed above by 2 feet of bentonite chips. The rest of the annular space up to grade was backfilled with neat cement. A traffic-rated well box was set in grout around top of well casing.

#### **4.3 VES Line Modifications**

Subsurface vapor-extraction lines were installed to connect the two new vapor-extraction wells to the existing remediation system. Additionally, two sections of the VES plumbing were disconnected as the continued use in the eastern portion of the site was not anticipated see (Figure 3.)

Soils removed during trenching operations and installation of vapor-extraction wells were temporarily stockpiled on-site pending analytical results. Composite soil samples were collected from the stockpiled soil and laboratory analyzed for VOCs by EPA method 8260B to determine final disposition of soils.

Analytical results indicate soils were above ADEC cleanup levels for Tetrachloroethene (PCE). All other VOCs were non-detect. Sample BM-SSA detected PCE at 0.535 mg/kg and Sample BM-DUP1 (duplicate to Sample BM-SSA) recorded PCE at 0.0400 mg/kg. ADEC cleanup levels for PCE in soil (migration to groundwater) is 0.0240 mg/kg. Analytical results and ADEC Lab Quality Checklist are included in **Appendix B**.

In consulting with ADEC and the EPA, a determination was made that the soils could not be treated by thermal remediation as these soils are classified as an F-Waste since contamination was historically associated with a dry cleaners operation. Contaminated soils were temporarily stockpiled on-site in a secure location pending a decision on disposal/treatment options. Soils were placed on a berm liner, covered, and secured by a perimeter fence. Either a Corrective Action Work Plan will be submitted to ADEC if a viable treatment option is proposed for on-site treatment, or an ADEC Approval to Transport will be requested if the contaminated soils are to be transported off-site for remediation.

## 5.0 CHLORINATED COMPOUND LEVEL IN AMBIENT AIR

Alaska Resources & Environmental Services (ARES) has performed indoor air monitoring associated with the historical release of chlorinated solvents into the groundwater at this site. ARES has evaluated the East Satellite Building, and the Wells Fargo Bank; both of which are located on Bentley Mall property. Samples were collected to monitor vapor intrusion levels and consisted of 24-hour time integrated samples. A summary of indoor air sampling results is shown below.

Summary of PCE, TCE Constituents Detected in Indoor Air Samples (East Satellite Building & Wells Fargo Bank)							
Sample Location	Sample Date	PCE	TCE	Sample Location	Sample Date	PCE	TCE
		µg/m <sup>3</sup>	µg/m <sup>3</sup>			µg/m <sup>3</sup>	µg/m <sup>3</sup>
ES-1	07/15/05	15.0	1.4	WFB-2	07/15/05	5.6	0.87
	06/13/06	14	ND <0.83		06/13/06	15	0.15
	02/20/07	9.3	ND <0.93		02/20/07	7.2	0.096
	01/30/08	3.2	0.054		01/30/08	5.0	0.035
	07/08/08	13	ND <0.39		07/08/08	0.96	0.037
	02/05/09	5.7	ND <0.078		02/05/09	4.8	0.12
	07/21/09	26	ND <0.040		07/21/09	4.8	0.044
	02/09/10	0.74	ND <0.030		02/09/10	2.7	ND <0.038
ES-2	07/15/05	11	0.65	WFB-3	07/15/05	6.4	0.091
	06/13/06	14	ND <0.82		06/13/06	15	0.15
	02/20/07	9.2	ND <0.98		03/20/07	9.7	0.10
	01/30/08	3.2	0.051		01/30/08	4.3	0.046
	07/08/08	13.0	ND <0.37		07/08/08	1.3	0.041
	02/05/09	3.8	0.12		02/05/09	7.1	0.13
	07/21/09	36	ND <0.038		07/21/09	4.9	ND <0.041
	02/09/10	6.3	0.045		02/09/10	13	0.044
WFB-1	07/15/05	6.7	0.92				
	06/13/06	15	0.15				
	02/20/07	12.0	0.090				
	01/30/08	4.5	0.054				
	07/08/08	1.2	0.058				
	02/05/09	6.8	0.13				
	07/21/09	4.8	0.050				
	02/09/10	6.2	0.041				
Environmental Screening Levels				Environmental Screening Levels			
ADEC Cleanup Goals		8.1	0.22	ADEC Cleanup Goals		8.1	0.22
EPA draft guidance		8.1	0.22	EPA draft guidance		8.1	0.22

Sample results through January 2009 showed overall decreasing levels of both PCE and TCE compounds. In addition, all sample results indicate that PCE and TCE contaminant levels are near or below EPA target levels.

## 6.0 CHLORINATED COMPOUND LEVEL IN GROUNDWATER

Alaska Resources & Environmental Services (ARES) has performed groundwater monitoring associated with the historical release of chlorinated solvents into the groundwater at this site. The following table shows the historical groundwater concentrations of chlorinated compounds in groundwater at this site.

<b>Summary of PCE, TCE Constituents Detected in Groundwater MW Wells</b>							
<b>Well</b>	<b>Sample Date</b>	<b>PCE</b>	<b>TCE</b>	<b>Well</b>	<b>Sample Date</b>	<b>PCE</b>	<b>TCE</b>
		<b>µg/L</b>	<b>µg/L</b>			<b>µg/L</b>	<b>µg/L</b>
<b>MW-1</b>	09/20/05	<b>31</b>	ND <0.16	<b>MW-3</b>	09/22/05	<b>4.1</b>	ND <0.16
	05/15/06	<b>17</b>	ND <0.16		05/15/06	<b>9.0</b>	ND <0.16
	10/16/06	<b>45.6</b>	ND <0.200		10/16/06	<b>0.330</b>	<b>0.270</b>
	02/08/07	<b>10.2</b>	ND <1.00		02/08/07	ND <1.00	ND <1.00
	05/23/07	<b>6.37</b>	ND <1.00		05/23/07	ND <1.00	ND <1.00
	11/05/07	<b>3.53</b>	ND <1.00		11/05/07	ND <1.00	ND <1.00
	05/19/08	<b>2.40</b>	ND <1.00		05/19/08	<b>1.78</b>	ND <1.00
	10/06/08	<b>5.54</b>	ND <1.00		10/06/08	<b>1.32</b>	ND <1.00
	12/18/08	<b>4.51</b>	ND <1.00		12/18/08	<b>3.20</b>	ND <1.00
	05/12/09	<b>3.32</b>	ND <1.00		05/12/09	<b>9.52</b>	ND <1.00
	08/25/09	<b>4.80</b>	ND <1.00	Dup 1	05/12/09	<b>11.4</b>	ND <1.00
	11/30/09	<b>7.28</b>	ND <1.00		08/25/09	ND <1.00	ND <1.00
<b>MW-2</b>	09/22/05	<b>2,900</b>	<b>15</b>		11/30/09	ND <1.00	ND <1.00
	05/15/06	<b>3,100</b>	<b>13</b>	<b>MW-4</b>	09/24/05	<b>290</b>	<b>5.5</b>
	10/16/06	<b>2,620</b>	ND <20.0		05/15/06	<b>130</b>	<b>62</b>
	02/08/07	<b>3,040</b>	ND <20.0		10/16/06	<b>400</b>	<b>12.6</b>
Dup	02/08/07	<b>3,620</b>	ND <20.0		02/09/07	<b>281</b>	<b>15.1</b>
	05/23/07	<b>2,660</b>	ND <20.0		05/24/07	<b>113</b>	<b>68.0</b>
	11/05/07	<b>1,820</b>	<b>5.94</b>	Dup	05/26/07	<b>167</b>	<b>33.6</b>
Dup	11/08/07	<b>1,250</b>	<b>6.23</b>		11/06/07	<b>227</b>	<b>10.9</b>
	05/19/08	<b>638</b>	<b>4.65</b>		05/19/08	<b>63.4</b>	<b>71.5</b>
	10/06/08	<b>1,050</b>	<b>4.59</b>		10/06/08	<b>139</b>	<b>7.94</b>
	12/18/08	<b>814</b>	ND <1.00		12/18/08	<b>128</b>	<b>11.9</b>
	05/12/09	<b>860</b>	ND <20.0	Dup1	12/18/08	<b>135</b>	<b>15.1</b>
	08/25/09	<b>616</b>	ND <50.0		05/12/09	<b>66.2</b>	<b>98.1</b>
	11/30/09	<b>902</b>	ND <20.0		08/25/09	<b>109</b>	<b>56.4</b>
Dup 1	11/30/09	<b>873</b>	ND <20.0	Dup1	08/25/09	<b>109</b>	<b>54.7</b>
					11/30/09	<b>150</b>	<b>8.55</b>
ADEC Cleanup Levels		5.0	5.0	ADEC Cleanup Levels		5.0	5.0

Summary of PCE, TCE Constituents Detected in Groundwater MW Wells							
Well	Sample Date	PCE	TCE	Well	Sample Date	PCE	TCE
		µg/L	µg/L			µg/L	µg/L
<b>MW-5</b>	09/24/05	<b>210</b>	<b>31</b>	<b>MW-6</b>	08/26/09	<b>9.10</b>	ND <1.00
	05/15/06	<b>210</b>	<b>52</b>		12/01/09	<b>12.10</b>	ND <1.00
Dup	05/15/06	<b>280</b>	<b>34</b>	<b>MW-7</b>	10/27/05	<b>7.3</b>	<b>3.6</b>
	10/16/06	<b>146</b>	<b>18.6</b>		05/16/06	<b>18.0</b>	<b>10</b>
	02/09/07	<b>39.4</b>	<b>3.87</b>		10/17/06	<b>8.65</b>	<b>4.89</b>
	05/23/07	<b>29.6</b>	<b>2.47</b>		02/09/07	<b>8.67</b>	<b>5.05</b>
	11/06/07	<b>20.3</b>	<b>1.54</b>		05/24/07	<b>8.35</b>	<b>5.91</b>
	05/20/08	<b>6.21</b>	ND <1.00		11/06/07	<b>5.60</b>	<b>4.61</b>
	10/07/08	<b>5.57</b>	ND <1.00		05/20/08	<b>4.97</b>	<b>4.33</b>
	12/19/08	<b>3.89</b>	ND <1.00		10/07/08	<b>3.81</b>	<b>2.71</b>
Dup2	12/19/08	<b>3.82</b>	ND <1.00		12/19/08	<b>4.20</b>	<b>3.22</b>
	05/12/09	<b>6.04</b>	ND <1.00		05/13/09	<b>6.16</b>	<b>6.39</b>
	08/25/09	<b>77.1</b>	<b>11.8</b>		08/26/09	<b>3.27</b>	<b>3.96</b>
Dup2	08/25/09	<b>74.9</b>	<b>11.5</b>		12/01/09	<b>3.49</b>	<b>3.06</b>
	11/30/09	<b>153.0</b>	<b>23.3</b>	<b>MW-8</b>	10/27/05	<b>1.9</b>	ND <0.16
Dup2	11/30/09	<b>156.0</b>	<b>23.4</b>		05/16/06	ND <0.28	ND <0.16
<b>MW-6</b>	09/24/05	<b>64</b>	<b>5.6</b>		10/17/06	<b>2.39</b>	ND <0.200
Dup1	09/24/05	<b>57</b>	<b>5.3</b>		02/12/07	<b>3.45</b>	ND <1.00
	05/16/06	<b>54</b>	<b>4.1</b>		05/25/07	<b>3.66</b>	ND <1.00
	10/16/06	<b>66.1</b>	<b>4.73</b>		11/07/07	<b>2.14</b>	ND <1.00
(1)	02/09/07				05/20/08	<b>3.46</b>	ND <1.00
(1)	05/23/07				10/07/08	<b>1.54</b>	ND <1.00
(1)	11/06/07				12/19/08	<b>1.59</b>	ND <1.00
	05/20/08	<b>11.3</b>	ND <1.00		05/13/09	<b>2.46</b>	ND <1.00
	10/07/08	<b>3.22</b>	ND <1.00		08/26/09	<b>2.23</b>	ND <1.00
(1)	12/19/08				12/01/09	<b>2.47</b>	ND <1.00
	05/13/09	<b>10.1</b>	ND <1.00				
Dup 2	05/13/09	<b>6.30</b>	ND <1.00				
ADEC Cleanup Levels		5.0	5.0	ADEC Cleanup Levels		5.0	5.0

(1) Analytical sample not collected due to lack of groundwater in well casing

Summary of PCE, TCE Constituents Detected in Groundwater MW Wells							
Well	Sample Date	PCE	TCE	Well	Sample Date	PCE	TCE
		µg/L	µg/L			µg/L	µg/L
MW-9	10/27/05	8.3	4.3	MW-11	10/17/06	3.09	0.360
	05/16/06	60.0	16		02/13/07	4.41	ND <1.00
	10/17/06	13.7	6.57		05/26/07	5.06	ND <1.00
	02/13/07	15.7	13.2		11/08/07	5.37	1.18
	05/25/07	17.1	12.9		05/21/08	7.73	1.73
	11/07/07	23.0	12.0		10/08/08	15.5	2.74
	05/21/08	72.4	16.0		12/20/08	3.43	ND <1.00
	10/08/08	12.4	2.99		05/14/09	13.3	3.34
DUP1	10/08/08	10.8	2.74		08/27/09	7.51	2.19
	12/19/08	15.6	7.12		12/01/09	10.3	2.68
	05/14/09	62.2	14.8	MW-12	10/29/05	430	30
	08/26/09	26.5	9.6	DUP2	10/29/05	400	27
	12/01/09	17.9	6.56		05/17/06	820	54
MW-10	10/27/05	80	43		10/18/06	138	4.08
	05/16/06	150	19	DUP	10/18/06	119	18.9
	10/17/06	128	20.4		02/12/07	192	6.6
	02/13/07	147	22.9		05/26/07	688	32.4
	05/25/07	128	21.0		11/08/07	492	33.4
	11/07/07	114	19.4		05/21/08	851	60.7
	05/21/08	94.0	15.5	DUP1	05/21/08	870	61.1
DUP2	05/21/08	98.2	15.7		10/08/08	308	26.9
	10/08/08	96.2	16.8		12/20/08	252	22.7
	12/20/08	100	16.4		05/14/09	638	63.8
	05/14/09	121	19.3		08/27/09	353	27.6
	08/27/09	106	19.4		12/01/09	254	20.2
	12/01/09	112	19.0	MW-13	10/29/05	120	0.40 J
MW-11	10/29/05	1.8 J	0.24 J		05/17/06	79	ND <0.16
	05/17/06	3.4	ND <0.16				
ADEC Cleanup Levels		5.0	5.0	ADEC Cleanup Levels		5.0	5.0



<b>Summary of PCE, TCE Constituents Detected in Groundwater MW/SW Wells</b>							
<b>Well</b>	<b>Sample Date</b>	<b>PCE</b>	<b>TCE</b>	<b>Well</b>	<b>Sample Date</b>	<b>PCE</b>	<b>TCE</b>
		<b>µg/L</b>	<b>µg/L</b>			<b>µg/L</b>	<b>µg/L</b>
<b>MW-13</b>	10/18/06	<b>138</b>	<b>ND &lt;2.00</b>	<b>SW-4</b>	06/09/08	<b>8.26</b>	ND <1.00
DUP	10/18/06	<b>141</b>	<b>0.300</b>		07/13/09	<b>44.2</b>	ND <1.00
	02/12/07	<b>102</b>	ND <1.00	Dup1	07/13/09	<b>41.3</b>	ND <1.00
	05/26/07	<b>56.1</b>	ND <1.00	<b>SW-5</b>	10/13/06	<b>2,460</b>	<b>1.94</b>
	11/08/07	<b>118</b>	ND <1.00	Dup	10/13/06	<b>4,670</b>	ND <200
	05/21/08	<b>24.3</b>	ND <1.00		8/22/2007 (1)	<b>1,650</b>	<b>2.87</b>
	10/08/08	<b>52.1</b>	ND <1.00		06/09/08	<b>1,330</b>	<b>1.56</b>
DUP2	10/08/08	<b>53.4</b>	ND <1.00		07/13/09	<b>934</b>	ND <50.0
	12/20/08	<b>61.5</b>	ND <1.00	<b>SW-6</b>	10/13/06	<b>414</b>	<b>1.21</b>
	05/14/09	<b>45.1</b>	ND <1.00		10/13/06	<b>411</b>	ND <2.00
	08/27/09	<b>47.8</b>	ND <2.00		6/18/2007 (1)	<b>203</b>	ND <2.00
	12/01/09	<b>56.2</b>	ND <1.00		06/09/08	<b>159</b>	ND <1.00
<b>SW-1</b>	10/13/06	<b>0.630</b>	ND <0.200		07/14/09	<b>182</b>	ND <10.0
	06/16/07	ND <1.00	ND <1.00	<b>SW-7</b>	10/13/06	<b>150</b>	<b>193</b>
	06/09/08	<b>7.52</b>	ND <1.00		10/13/06	<b>141</b>	<b>181</b>
	07/13/09	<b>2.58</b>	ND <1.00		6/18/2007	<b>147</b>	<b>24.4</b>
<b>SW-2</b>	10/13/06	<b>0.690</b>	ND <0.200	Dup 2	6/20/2007	<b>151</b>	<b>21.0</b>
	06/16/07	ND <1.00	ND <1.00		06/09/08	<b>41.5</b>	<b>41.4</b>
	06/09/08	<b>1.48</b>	ND <1.00		07/14/09	<b>27.5</b>	<b>38.7</b>
	07/13/09	<b>1.79</b>	ND <1.00	<b>SW-8</b>	10/13/06	<b>15.3</b>	<b>1.75</b>
<b>SW-3</b>	10/13/06	<b>5.83</b>	ND <0.200		6/19/2007 (1)	<b>12.1</b>	ND <1.00
	06/16/07	<b>1.04</b>	ND <1.00		06/09/08	<b>21.8</b>	<b>1.73</b>
	06/09/08	<b>4.46</b>	ND <1.00	DUP2	06/11/08 *	<b>22.8</b>	<b>1.43</b>
DUP	6/11/2008 *	<b>6.16</b>	ND <1.00		07/14/09	<b>6.0</b>	ND <1.00
	07/13/09	<b>2.55</b>	ND <1.00	<b>SW-9</b>	10/14/06	<b>0.850</b>	<b>0.370</b>
Dup2	07/13/09	<b>2.99</b>	ND <1.00		6/18/2007 (1)	<b>1.41</b>	ND <1.00
<b>SW-4</b>	10/13/06	<b>86.6</b>	<b>0.500</b>		06/10/08	<b>10.5</b>	ND <1.00
	06/18/07	<b>7.91</b>	ND <5.00		07/14/09	<b>3.52</b>	ND <1.00
ADEC Cleanup Levels		5.0	5.0	ADEC Cleanup Levels		5.0	5.0

<b>Summary of PCE, TCE Constituents Detected in Groundwater SW Wells</b>							
<b>Well</b>	<b>Sample Date</b>	<b>PCE</b>	<b>TCE</b>	<b>Well</b>	<b>Sample Date</b>	<b>PCE</b>	<b>TCE</b>
		<b>µg/L</b>	<b>µg/L</b>			<b>µg/L</b>	<b>µg/L</b>
<b>SW-10</b>	10/14/06	<b>2.10</b>	<b>0.330</b>	<b>SW-13</b>	06/10/08	<b>9.62</b>	ND <1.00
	6/19/2007	<b>4.15</b>	ND <1.00		07/14/09	<b>4.58</b>	ND <1.00
	06/10/08	<b>3.59</b>	ND <1.00	<b>SW-14</b>	10/14/06	<b>1.16</b>	<b>0.300</b>
	07/14/09	<b>1.94</b>	ND <1.00		6/20/2007	<b>1.45</b>	ND <1.00
<b>SW-11</b>	10/14/06	<b>5.85</b>	<b>0.450</b>	Dup 1	6/20/2007 (1)	<b>1.44</b>	ND <1.00
	8/22/2007	<b>2.33</b>	ND <1.00		06/11/08	<b>12.6</b>	ND <1.00
Dup	8/22/2007	<b>3.26</b>	<b>1.22</b>		07/15/09	ND <1.00	ND <1.00
	06/10/08	<b>20.9</b>	ND <1.00	<b>SW-15</b>	10/14/06	<b>0.530</b>	<b>0.510</b>
(2)	07/14/09				6/20/2007	ND <1.00	ND <1.00
<b>SW-12</b>	10/14/06	<b>1.88</b>	<b>0.490</b>		06/11/08	<b>1.18</b>	ND <1.00
	6/19/2007	<b>9.82</b>	ND <1.00		07/15/09	<b>1.03</b>	ND <1.00
	06/10/08	<b>24.4</b>	ND <1.00	<b>SW-16</b>	10/14/06	<b>0.570</b>	<b>0.510</b>
	07/14/09	<b>3.60</b>	ND <1.00		6/20/2007	<b>3.04</b>	ND <1.00
<b>SW-13</b>	10/14/06	<b>6.81</b>	<b>0.680</b>		06/11/08	<b>11.3</b>	ND <1.00
	06/19/07	<b>6.35</b>	ND <1.00		07/15/09	ND <1.00	ND <1.00
ADEC Cleanup Levels		5.0	5.0	ADEC Cleanup Levels		5.0	5.0

(2) Sample not collected due to well obstruction

Groundwater sample results for 2009 in general, showed an overall continued decrease in levels of both PCE and TCE.

## **7.0 SUMMARY**

The Remediation System installed in September 2006 was designed to remove the source of chlorinated solvents in soil in the target East Satellite Building area, to decrease the level of chlorinated compounds dissolved in groundwater beneath the site, and to improve the air quality in two buildings located above the area of concern. For groundwater in the immediate vicinity of the area of concern, groundwater sample results through January of 2010, in general, showed an overall decrease in levels of both PCE and TCE.

A separate report is being prepared to document the levels of chlorinated compounds in extracted vapor. Continued operation of the vapor-extraction portion of the remediation system should continue to reduce the source of chlorinated compounds in soil, to capture volatilized chlorinated compounds generated from air sparging, and to enhance the volatilization of dissolved chlorinated compounds from groundwater.

The combined remediation system can continue to operate continuously focused on the remaining areas of concern, until a final determination is made to terminate remediation operations at this site as diminishing returns are seen and asymptotic levels of chlorinated compounds are observed in groundwater beneath this site. Another round of sampling of groundwater monitoring and air sparging wells in the Spring of 2010, as well as vapor screening of individual vapor-extraction wells, can be used to assist in that determination. In the mean time, operation and maintenance of the remediation system will continue, including site inspections and periodic cleaning of filters when needed.

## 7.0 REFERENCES

Alaska Department of Environmental Conservation (ADEC, May 3, 2006): “*Approval of Site Characterization and Corrective Action Reports, Bentley Mall East Satellite Building, Fairbanks, Alaska,*” letter to Bentley Mall LLC.

Alaska Department of Environmental Conservation (ADEC, April 2006): “*Bentley Mall East Satellite Building Site Characterization Report Tax Lot 217 Section 2, Township 1 South, Range 1 West, Fairbanks, Alaska.*”

Alaska Department of Environmental Conservation (ADEC, May 26, 2004): “*18 AAC 75, Oil and Other Hazardous Substances Pollution Control,*” amended through May 26, 2004.

Alaska Department of Environmental Conservation (ADEC, June 26, 2003): “*Water Quality Standards 18 AAC 70,*” amended through June 26, 2003.

Alaska Department of Environmental Conservation (ADEC, January 2000): “*The Selection of Natural Attenuation as a Cleanup Alternative for the Restoration of Soil and Ground Water at Contaminated Sites.*”

Alaska Resources and Environmental Services, LLC (ARES, June 2006): “*Remedial Action Workplan, Bentley Mall Site, Fairbanks, Alaska.*”

Alaska Resources and Environmental Services, LLC (ARES, April 2006): “*Bentley Mall Site Characterization Report, Tax Lot 217, Section 2, Township 2 South, Range 1 West, Fairbanks Meridian, Fairbanks, Alaska.*”

Alaska Resources and Environmental Services, LLC (ARES, January 2006): “*Corrective Action Plan, Bentley Mall, Fairbanks Meridian, Fairbanks, Alaska.*”

Alaska Resources and Environmental Services, LLC (ARES, October 2005): “*Bentley Mall Project Summary, Tax Lot 217, Section 2, Township 1 South, Range 1 West, Fairbanks Meridian, Fairbanks, Alaska.*”

Alaska Resources and Environmental Services, LLC (ARES, February 2005): “*Bentley Mall Groundwater Sample Results Summary, Tax Lot 217, Section 2, Township 1 South, Range 1 West Fairbanks Meridian, Fairbanks, Alaska.*”

Alaska Resources and Environmental Services, LLC (ARES, November 2004): “*Bentley Mall Soil Sample Results Summary Tax Lot 217, Section 2, Township 1 South, Range 1 West Fairbanks Meridian Fairbanks, Alaska.*”

Alaska Resources and Environmental Services, LLC (ARES, April 2004): *“Bentley Mall Site Characterization Work Plan, Tax Lot 217, Section 2, Township 1 South, Range 1 West Fairbanks Meridian, Fairbanks, Alaska.”*

Alaska Resources and Environmental Services, LLC (ARES, November 2003): *“Phase II Addendum I, Environmental Site Assessment Report, Bentley Mall Complex, Fairbanks, Alaska.”*

Alaska Resources and Environmental Services, LLC (ARES, March 2003): *“Phase II Environmental Site Assessment Report, Bentley Mall Complex, Fairbanks, Alaska.”*

Department of Toxic Substances Control, California Environmental Protection Agency (DTSC, February 7, 2005): *“Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air, Interim Final,”* December 15, 2004, revised February 7, 2005.

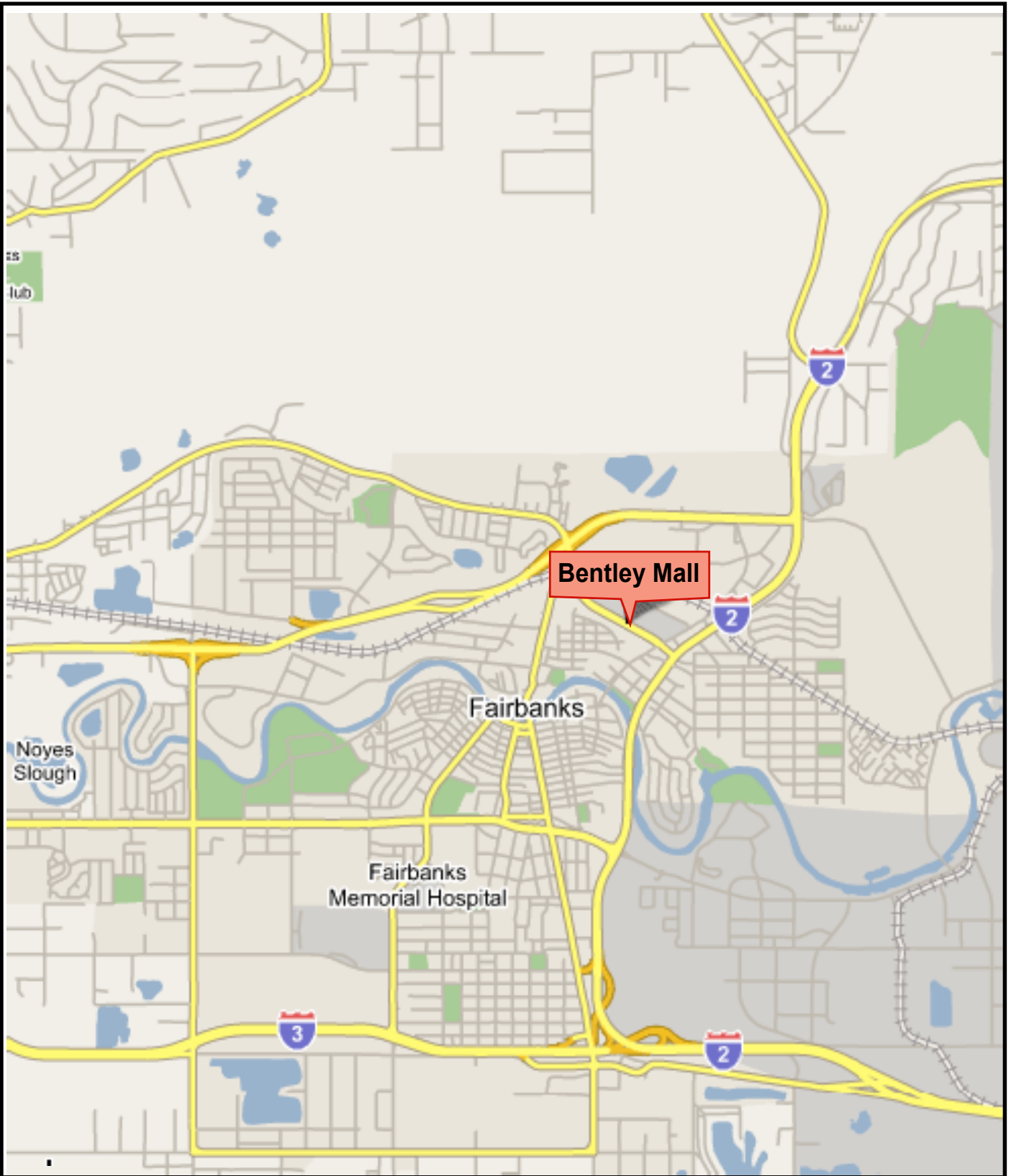
Environmental Protection Agency (EPA, November 29, 2002): *“Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance),”* Office of Solid Waste and Emergency Response.

Environmental Protection Agency (EPA, September 1998): *“Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water,”* EPA/600/R-98/12B, National Risk Management Research Laboratory, Office of Research and Development, USEPA, Cincinnati, Ohio.

Interstate Technology and Regulatory Council (ITRC, January 2005): *“Technical and Regulatory Guidance for In Situ Chemical Oxidation of Contaminated Soil and Groundwater,”* Second Edition, In Situ Chemical Oxidation Team, ITRC Technical / Regulatory Guideline. Available on the Internet at <http://www.itrcweb.org>.

United States Naval Facilities Engineering Service Center (NAVFAC, August 31, 2001): *“Final Air Sparging Guidance Document, Contract N47408-95-D-0730, Delivery Order No. 0090/0123,”* NFESC Technical Report TR-2193-ENV, prepared by Battelle for the United States Naval Facilities Engineering Service Center, Port Hueneme, California.

# PLATES



Approximate Scale in Miles:

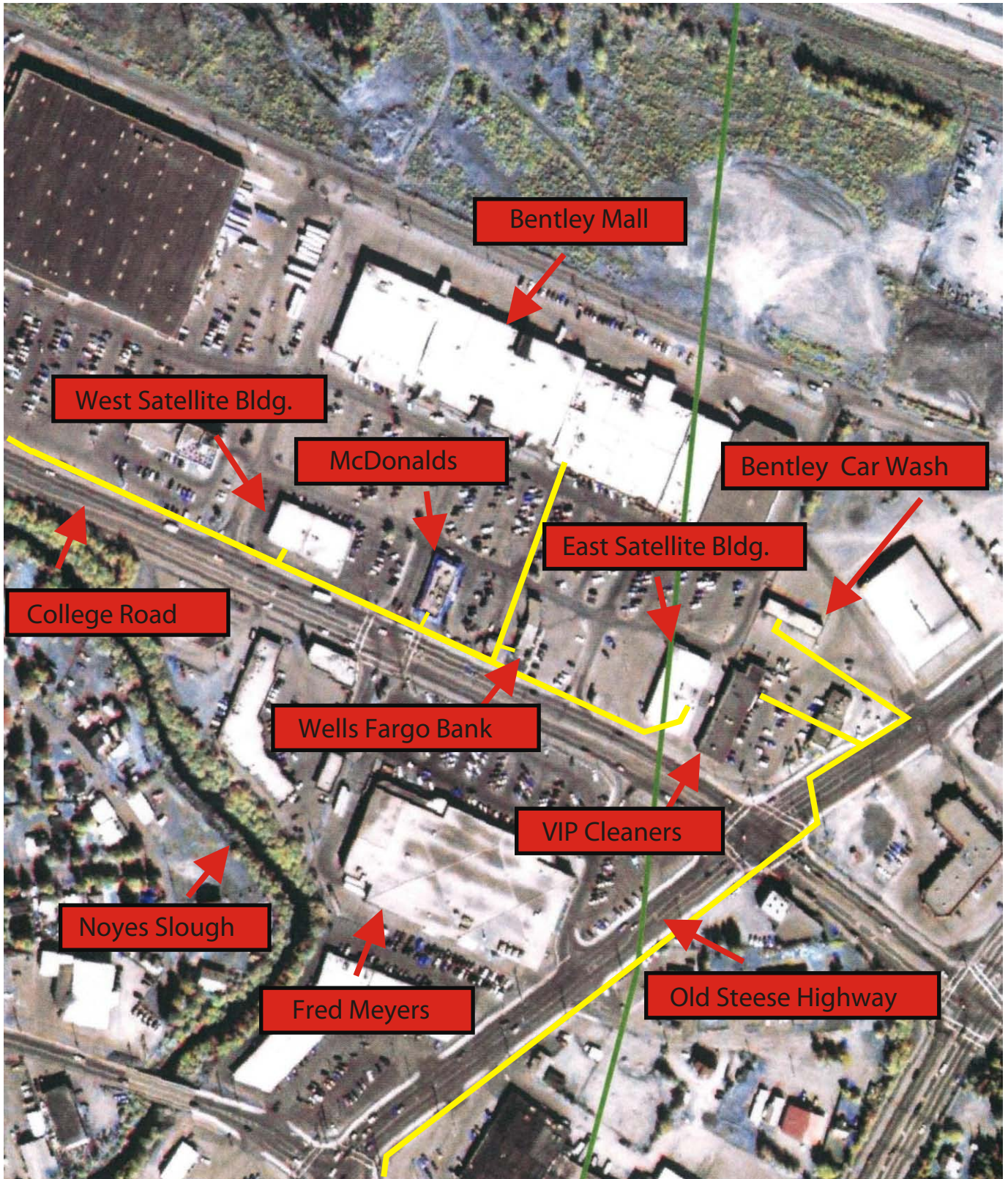


**ERG**  
Environmental Resource Group

**Bentley Mall Project  
Fairbanks, Alaska**

**Figure 1  
Site Location**

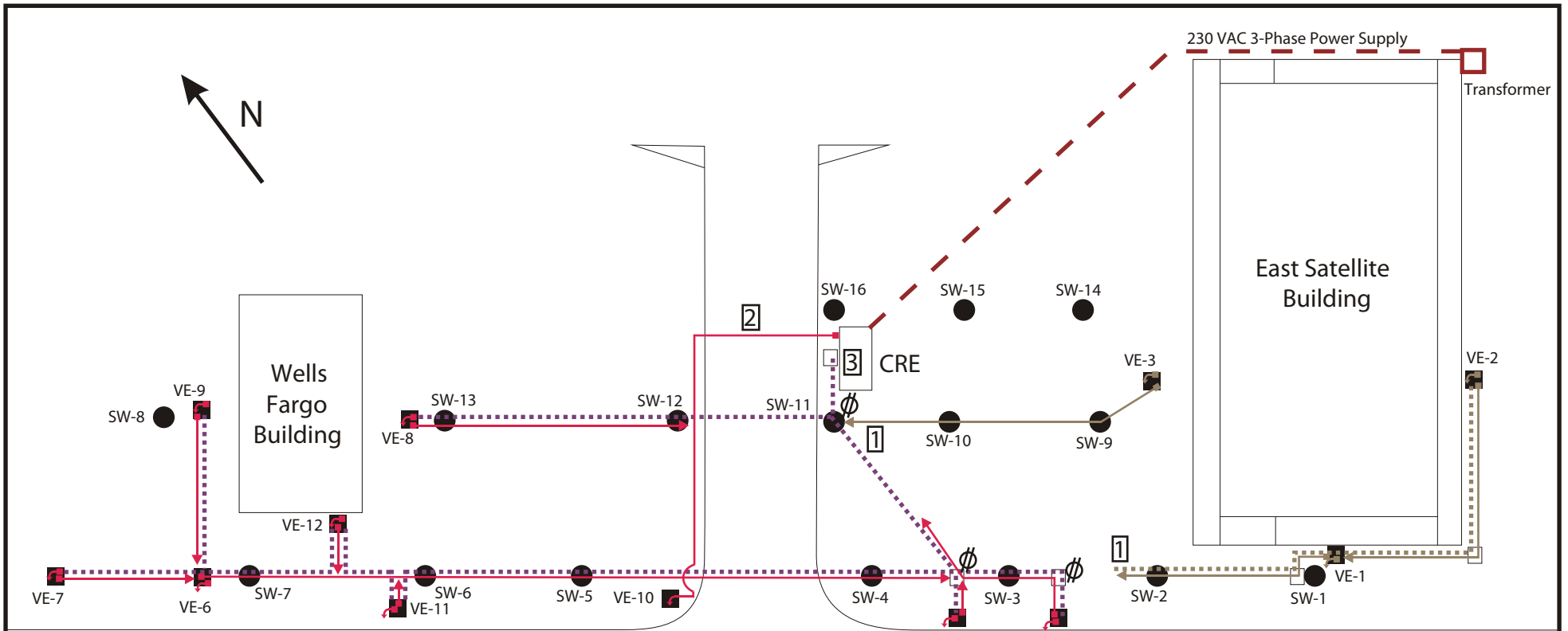




KEY  
 Wastewater line —  
 Note: Not to Scale

Bentley Mall  
 Fairbanks, Alaska  
 January 2007

FIGURE 2  
 Bentley Mall and Vicinity  
 Alaska Resources and  
 Environmental Services, LLC



Scale in Feet



College Road

**Notes:**

- 1 During work activities in September 2009 some non-required electrical and heat trace lines were disconnected and left non-powered in place. These locations are marked as listed in the legend.
- 2 This heat trace run is on electrical circuit number four. All other heat trace is on circuits 5 and 6.
- 3 A short heat trace run above ground behind CRE connex for the sparge lines to run from the connex into the ground. (Circuit # 5).

**Plate 3. Bentley Mall SVE System Layout 2010**

**Legend**

- ..... Branch Circuit Wiring
- ..... Non-powered Branch Circuit Wiring
- ⊕ Branch Circuit Wiring Junction
- ↑ Heat Trace Start
- ↓ Heat Trace End
- ↪ Heat Trace Well Run
- ← Non-powered Heat Trace

# APPENDIX A

September 24, 2009

Lyle Gresehover  
Alaska Resources & Environmental Services  
P.O. Box 83050  
Fairbanks, AK 99708

RE: Bentley Mall 9/3/09

Enclosed are the results of analyses for samples received by the laboratory on 09/09/09 16:05.  
The following list is a summary of the Work Orders contained in this report, generated on 09/24/09  
13:37.

If you have any questions concerning this report, please feel free to contact me.

---

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
ASI0042	Bentley Mall 9/3/09	[none]

---

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TestAmerica Anchorage

*Johanna Dreher*

Johanna L Dreher, Client Services Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



**Alaska Resources & Environmental Services**

P.O. Box 83050  
Fairbanks, AK 99708

Project Name: **Bentley Mall 9/3/09**

Project Number: [none]

Project Manager: Lyle Gresehover

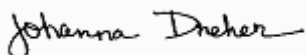
Report Created:

09/24/09 13:37

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VE10-5-0909	ASI0042-01	Soil	09/03/09 09:41	09/09/09 16:05
VE10-10-0909	ASI0042-02	Soil	09/03/09 10:52	09/09/09 16:05
VE11-5-0909	ASI0042-03	Soil	09/03/09 12:05	09/09/09 16:05
VE11-10-0909	ASI0042-04	Soil	09/03/09 13:17	09/09/09 16:05
DUP-0909	ASI0042-05	Soil	09/03/09 14:35	09/09/09 16:05
Trip Blank	ASI0042-06	Soil	09/03/09 00:00	09/09/09 16:05

TestAmerica Anchorage



Johanna L Dreher, Client Services Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0042-01 (VE10-5-0909)</b>		<b>Soil</b>									
		<b>Sampled: 09/03/09 09:41</b>									
Dichlorodifluoromethane	EPA 8260B	ND	----	0.0763	mg/kg dry	1x	9090111	09/16/09 14:18	09/16/09 16:27	Chr	
Chloromethane	"	ND	----	0.381	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.00687	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.381	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.0763	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0229	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0229	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.0763	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.0694	"	"	"	"	"	Chr	
Acetone	"	ND	----	0.763	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.229	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.0763	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.0763	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.153	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.0763	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.0763	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.0763	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0229	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.0763	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	0.763	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.0763	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0153	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0114	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0206	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.0763	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0130	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.0763	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0153	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.0763	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	0.763	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0153	"	"	"	"	"	Chr	
Tetrachloroethene	"	ND	----	0.0229	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0130	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.0763	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0153	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.0763	"	"	"	"	"	Chr	

TestAmerica Anchorage

*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0042-01 (VE10-5-0909)</b>		<b>Soil</b>			<b>Sampled: 09/03/09 09:41</b>						
2-Hexanone	EPA 8260B	ND	----	0.763	mg/kg dry	1x	9090111	09/16/09 14:18	09/16/09 16:27		Chr
Ethylbenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
Chlorobenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
1,1,1,2-Tetrachloroethane	"	ND	----	0.0763	"	"	"	"	"		Chr
m,p-Xylene	"	ND	----	0.305	"	"	"	"	"		Chr
o-Xylene	"	ND	----	0.153	"	"	"	"	"		Chr
Styrene	"	ND	----	0.0763	"	"	"	"	"		Chr
Bromoform	"	ND	----	0.0763	"	"	"	"	"		Chr
Isopropylbenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
n-Propylbenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
1,1,2,2-Tetrachloroethane	"	ND	----	0.0130	"	"	"	"	"		Chr
Bromobenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
1,3,5-Trimethylbenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
2-Chlorotoluene	"	ND	----	0.0763	"	"	"	"	"		Chr
1,2,3-Trichloropropane	"	ND	----	0.0763	"	"	"	"	"		Chr
4-Chlorotoluene	"	ND	----	0.0763	"	"	"	"	"		Chr
tert-Butylbenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
1,2,4-Trimethylbenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
sec-Butylbenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
p-Isopropyltoluene	"	ND	----	0.0763	"	"	"	"	"		Chr
1,3-Dichlorobenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
1,4-Dichlorobenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
n-Butylbenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
1,2-Dichlorobenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
1,2-Dibromo-3-chloropropane	"	ND	----	0.381	"	"	"	"	"		Chr
Hexachlorobutadiene	"	ND	----	0.0763	"	"	"	"	"		Chr
1,2,4-Trichlorobenzene	"	ND	----	0.0763	"	"	"	"	"		Chr
Naphthalene	"	ND	----	0.153	"	"	"	"	"		Chr
1,2,3-Trichlorobenzene	"	ND	----	0.0763	"	"	"	"	"		Chr

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>103%</i>	<i>42.7 - 151 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>111%</i>	<i>50.8 - 132 %</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>	<i>126%</i>	<i>51 - 136 %</i>	<i>"</i>	<i>"</i>

TestAmerica Anchorage

*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0042-02 (VE10-10-0909)</b>		<b>Soil</b>									
		<b>Sampled: 09/03/09 10:52</b>									
Dichlorodifluoromethane	EPA 8260B	ND	----	0.0669	mg/kg dry	1x	9090111	09/16/09 14:18	09/16/09 16:56	Chr	
Chloromethane	"	ND	----	0.334	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.00602	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.334	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.0669	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0201	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0201	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.0669	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.0609	"	"	"	"	"	Chr	
Acetone	"	ND	----	0.669	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.201	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.0669	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.0669	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.134	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.0669	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.0669	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.0669	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0201	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.0669	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	0.669	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.0669	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0134	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0100	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0181	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.0669	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0114	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.0669	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0134	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.0669	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	0.669	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0134	"	"	"	"	"	Chr	
Tetrachloroethene	"	ND	----	0.0201	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0114	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.0669	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0134	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.0669	"	"	"	"	"	Chr	

TestAmerica Anchorage

*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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**Alaska Resources & Environmental Services**

P.O. Box 83050  
 Fairbanks, AK 99708

Project Name: **Bentley Mall 9/3/09**

Project Number: [none]

Project Manager: Lyle Gresehover

Report Created:

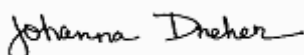
09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0042-02 (VE10-10-0909)</b>		<b>Soil</b>									
		<b>Sampled: 09/03/09 10:52</b>									
2-Hexanone	EPA 8260B	ND	----	0.669	mg/kg dry	1x	9090111	09/16/09 14:18	09/16/09 16:56	Chr	
Ethylbenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
Chlorobenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
1,1,1,2-Tetrachloroethane	"	ND	----	0.0669	"	"	"	"	"	Chr	
m,p-Xylene	"	ND	----	0.268	"	"	"	"	"	Chr	
o-Xylene	"	ND	----	0.134	"	"	"	"	"	Chr	
Styrene	"	ND	----	0.0669	"	"	"	"	"	Chr	
Bromoform	"	ND	----	0.0669	"	"	"	"	"	Chr	
Isopropylbenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
n-Propylbenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
1,1,2,2-Tetrachloroethane	"	ND	----	0.0114	"	"	"	"	"	Chr	
Bromobenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
1,3,5-Trimethylbenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
2-Chlorotoluene	"	ND	----	0.0669	"	"	"	"	"	Chr	
1,2,3-Trichloropropane	"	ND	----	0.0669	"	"	"	"	"	Chr	
4-Chlorotoluene	"	ND	----	0.0669	"	"	"	"	"	Chr	
tert-Butylbenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
1,2,4-Trimethylbenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
sec-Butylbenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
p-Isopropyltoluene	"	ND	----	0.0669	"	"	"	"	"	Chr	
1,3-Dichlorobenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
1,4-Dichlorobenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
n-Butylbenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
1,2-Dichlorobenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
1,2-Dibromo-3-chloropropane	"	ND	----	0.334	"	"	"	"	"	Chr	
Hexachlorobutadiene	"	ND	----	0.0669	"	"	"	"	"	Chr	
1,2,4-Trichlorobenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	
Naphthalene	"	ND	----	0.134	"	"	"	"	"	Chr	
1,2,3-Trichlorobenzene	"	ND	----	0.0669	"	"	"	"	"	Chr	

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>104%</i>	<i>42.7 - 151 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>114%</i>	<i>50.8 - 132 %</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>	<i>131%</i>	<i>51 - 136 %</i>	<i>"</i>	<i>"</i>

TestAmerica Anchorage



Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0042-03 (VE11-5-0909)</b>		<b>Soil</b>									
		<b>Sampled: 09/03/09 12:05</b>									
Dichlorodifluoromethane	EPA 8260B	ND	----	0.0769	mg/kg dry	1x	9090111	09/16/09 14:18	09/16/09 17:23	Chr	
Chloromethane	"	ND	----	0.384	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.00692	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.384	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.0769	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0231	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0231	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.0769	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.0700	"	"	"	"	"	Chr	
Acetone	"	ND	----	0.769	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.231	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.0769	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.0769	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.154	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.0769	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.0769	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.0769	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0231	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.0769	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	0.769	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.0769	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0154	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0115	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0208	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.0769	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0131	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.0769	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0154	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.0769	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	0.769	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0154	"	"	"	"	"	Chr	
Tetrachloroethene	"	ND	----	0.0231	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0131	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.0769	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0154	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.0769	"	"	"	"	"	Chr	

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Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0042-03 (VE11-5-0909)</b>		<b>Soil</b>			<b>Sampled: 09/03/09 12:05</b>						
2-Hexanone	EPA 8260B	ND	----	0.769	mg/kg dry	1x	9090111	09/16/09 14:18	09/16/09 17:23	Chr	
Ethylbenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
Chlorobenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
1,1,1,2-Tetrachloroethane	"	ND	----	0.0769	"	"	"	"	"	Chr	
m,p-Xylene	"	ND	----	0.308	"	"	"	"	"	Chr	
o-Xylene	"	ND	----	0.154	"	"	"	"	"	Chr	
Styrene	"	ND	----	0.0769	"	"	"	"	"	Chr	
Bromoform	"	ND	----	0.0769	"	"	"	"	"	Chr	
Isopropylbenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
n-Propylbenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
1,1,2,2-Tetrachloroethane	"	ND	----	0.0131	"	"	"	"	"	Chr	
Bromobenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
1,3,5-Trimethylbenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
2-Chlorotoluene	"	ND	----	0.0769	"	"	"	"	"	Chr	
1,2,3-Trichloropropane	"	ND	----	0.0769	"	"	"	"	"	Chr	
4-Chlorotoluene	"	ND	----	0.0769	"	"	"	"	"	Chr	
tert-Butylbenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
1,2,4-Trimethylbenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
sec-Butylbenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
p-Isopropyltoluene	"	ND	----	0.0769	"	"	"	"	"	Chr	
1,3-Dichlorobenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
1,4-Dichlorobenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
n-Butylbenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
1,2-Dichlorobenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
1,2-Dibromo-3-chloropropane	"	ND	----	0.384	"	"	"	"	"	Chr	
Hexachlorobutadiene	"	ND	----	0.0769	"	"	"	"	"	Chr	
1,2,4-Trichlorobenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	
Naphthalene	"	ND	----	0.154	"	"	"	"	"	Chr	
1,2,3-Trichlorobenzene	"	ND	----	0.0769	"	"	"	"	"	Chr	

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>109%</i>	<i>42.7 - 151 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>117%</i>	<i>50.8 - 132 %</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>	<i>132%</i>	<i>51 - 136 %</i>	<i>"</i>	<i>"</i>

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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**Alaska Resources & Environmental Services**

P.O. Box 83050  
 Fairbanks, AK 99708

Project Name: **Bentley Mall 9/3/09**

Project Number: [none]

Project Manager: Lyle Gresehover

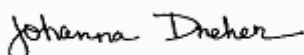
Report Created:

09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0042-04 (VE11-10-0909)</b>		<b>Soil</b>									
		<b>Sampled: 09/03/09 13:17</b>									
Dichlorodifluoromethane	EPA 8260B	ND	----	0.0706	mg/kg dry	1x	9090111	09/16/09 14:18	09/16/09 17:51	Chr	
Chloromethane	"	ND	----	0.353	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.00635	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.353	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.0706	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0212	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0212	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.0706	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.0642	"	"	"	"	"	Chr	
Acetone	"	ND	----	0.706	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.212	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.0706	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.0706	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.141	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.0706	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.0706	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.0706	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0212	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.0706	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	0.706	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.0706	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0141	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0106	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0191	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.0706	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0120	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.0706	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0141	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.0706	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	0.706	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0141	"	"	"	"	"	Chr	
<b>Tetrachloroethene</b>	"	<b>0.278</b>	----	0.0212	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0120	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.0706	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0141	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.0706	"	"	"	"	"	Chr	

TestAmerica Anchorage



Johanna L Dreher, Client Services Manager

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**Alaska Resources & Environmental Services**

P.O. Box 83050  
 Fairbanks, AK 99708

Project Name: **Bentley Mall 9/3/09**

Project Number: [none]

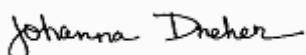
Project Manager: Lyle Gresehover

Report Created:  
 09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0042-04 (VE11-10-0909)</b>											
			<b>Soil</b>				<b>Sampled: 09/03/09 13:17</b>				
2-Hexanone	EPA 8260B	ND	----	0.706	mg/kg dry	1x	9090111	09/16/09 14:18	09/16/09 17:51	Chr	
Ethylbenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
Chlorobenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
1,1,1,2-Tetrachloroethane	"	ND	----	0.0706	"	"	"	"	"	Chr	
m,p-Xylene	"	ND	----	0.282	"	"	"	"	"	Chr	
o-Xylene	"	ND	----	0.141	"	"	"	"	"	Chr	
Styrene	"	ND	----	0.0706	"	"	"	"	"	Chr	
Bromoform	"	ND	----	0.0706	"	"	"	"	"	Chr	
Isopropylbenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
n-Propylbenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
1,1,2,2-Tetrachloroethane	"	ND	----	0.0120	"	"	"	"	"	Chr	
Bromobenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
1,3,5-Trimethylbenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
2-Chlorotoluene	"	ND	----	0.0706	"	"	"	"	"	Chr	
1,2,3-Trichloropropane	"	ND	----	0.0706	"	"	"	"	"	Chr	
4-Chlorotoluene	"	ND	----	0.0706	"	"	"	"	"	Chr	
tert-Butylbenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
1,2,4-Trimethylbenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
sec-Butylbenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
p-Isopropyltoluene	"	ND	----	0.0706	"	"	"	"	"	Chr	
1,3-Dichlorobenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
1,4-Dichlorobenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
n-Butylbenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
1,2-Dichlorobenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
1,2-Dibromo-3-chloropropane	"	ND	----	0.353	"	"	"	"	"	Chr	
Hexachlorobutadiene	"	ND	----	0.0706	"	"	"	"	"	Chr	
1,2,4-Trichlorobenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
Naphthalene	"	ND	----	0.141	"	"	"	"	"	Chr	
1,2,3-Trichlorobenzene	"	ND	----	0.0706	"	"	"	"	"	Chr	
Surrogate(s):	<i>Dibromofluoromethane</i>			99.6%		42.7 - 151 %	"			"	
	<i>Toluene-d8</i>			109%		50.8 - 132 %	"			"	
	<i>4-bromofluorobenzene</i>			119%		51 - 136 %	"			"	

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Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0042-05 (DUP-0909)</b>		<b>Soil</b>									
		<b>Sampled: 09/03/09 14:35</b>									
Dichlorodifluoromethane	EPA 8260B	ND	----	0.0598	mg/kg dry	1x	9090111	09/16/09 14:18	09/16/09 18:19	Chr	
Chloromethane	"	ND	----	0.299	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.00538	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.299	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.0598	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0179	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0179	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.0598	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.0544	"	"	"	"	"	Chr	
Acetone	"	ND	----	0.598	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.179	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.0598	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.0598	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.120	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.0598	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.0598	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.0598	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0179	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.0598	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	0.598	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.0598	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0120	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.00897	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0161	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.0598	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0102	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.0598	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0120	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.0598	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	0.598	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0120	"	"	"	"	"	Chr	
Tetrachloroethene	"	ND	----	0.0179	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0102	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.0598	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0120	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.0598	"	"	"	"	"	Chr	

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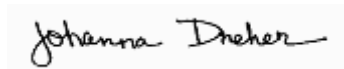
<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0042-05 (DUP-0909)</b>		<b>Soil</b>									
		<b>Sampled: 09/03/09 14:35</b>									
2-Hexanone	EPA 8260B	ND	----	0.598	mg/kg dry	1x	9090111	09/16/09 14:18	09/16/09 18:19	Chr	
Ethylbenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
Chlorobenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
1,1,1,2-Tetrachloroethane	"	ND	----	0.0598	"	"	"	"	"	Chr	
m,p-Xylene	"	ND	----	0.239	"	"	"	"	"	Chr	
o-Xylene	"	ND	----	0.120	"	"	"	"	"	Chr	
Styrene	"	ND	----	0.0598	"	"	"	"	"	Chr	
Bromoform	"	ND	----	0.0598	"	"	"	"	"	Chr	
Isopropylbenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
n-Propylbenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
1,1,2,2-Tetrachloroethane	"	ND	----	0.0102	"	"	"	"	"	Chr	
Bromobenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
1,3,5-Trimethylbenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
2-Chlorotoluene	"	ND	----	0.0598	"	"	"	"	"	Chr	
1,2,3-Trichloropropane	"	ND	----	0.0598	"	"	"	"	"	Chr	
4-Chlorotoluene	"	ND	----	0.0598	"	"	"	"	"	Chr	
tert-Butylbenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
1,2,4-Trimethylbenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
sec-Butylbenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
p-Isopropyltoluene	"	ND	----	0.0598	"	"	"	"	"	Chr	
1,3-Dichlorobenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
1,4-Dichlorobenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
n-Butylbenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
1,2-Dichlorobenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
1,2-Dibromo-3-chloropropane	"	ND	----	0.299	"	"	"	"	"	Chr	
Hexachlorobutadiene	"	ND	----	0.0598	"	"	"	"	"	Chr	
1,2,4-Trichlorobenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	
Naphthalene	"	ND	----	0.120	"	"	"	"	"	Chr	
1,2,3-Trichlorobenzene	"	ND	----	0.0598	"	"	"	"	"	Chr	

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>94.7%</i>	<i>42.7 - 151 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>105%</i>	<i>50.8 - 132 %</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>	<i>119%</i>	<i>51 - 136 %</i>	<i>"</i>	<i>"</i>

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Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0042-06 (Trip Blank)</b>		<b>Soil</b>									
		<b>Sampled: 09/03/09 00:00</b>									
Dichlorodifluoromethane	EPA 8260B	ND	----	0.100	mg/kg wet	1x	9090111	09/16/09 14:18	09/16/09 18:47	Chr	
Chloromethane	"	ND	----	0.500	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.00900	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.500	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.100	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0300	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0300	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.100	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.0910	"	"	"	"	"	Chr	
Acetone	"	ND	----	1.00	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.300	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.100	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.100	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.100	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.100	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.100	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0300	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.100	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	1.00	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.100	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0200	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0150	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0270	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.100	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0170	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.100	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0200	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.100	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	1.00	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0200	"	"	"	"	"	Chr	
Tetrachloroethene	"	ND	----	0.0300	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0170	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.100	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0200	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.100	"	"	"	"	"	Chr	

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0042-06 (Trip Blank)</b>		<b>Soil</b>									
		<b>Sampled: 09/03/09 00:00</b>									
2-Hexanone	EPA 8260B	ND	----	1.00	mg/kg wet	1x	9090111	09/16/09 14:18	09/16/09 18:47	Chr	
Ethylbenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
Chlorobenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
1,1,1,2-Tetrachloroethane	"	ND	----	0.100	"	"	"	"	"	Chr	
m,p-Xylene	"	ND	----	0.400	"	"	"	"	"	Chr	
o-Xylene	"	ND	----	0.200	"	"	"	"	"	Chr	
Styrene	"	ND	----	0.100	"	"	"	"	"	Chr	
Bromoform	"	ND	----	0.100	"	"	"	"	"	Chr	
Isopropylbenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
n-Propylbenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
1,1,2,2-Tetrachloroethane	"	ND	----	0.0170	"	"	"	"	"	Chr	
Bromobenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
1,3,5-Trimethylbenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
2-Chlorotoluene	"	ND	----	0.100	"	"	"	"	"	Chr	
1,2,3-Trichloropropane	"	ND	----	0.100	"	"	"	"	"	Chr	
4-Chlorotoluene	"	ND	----	0.100	"	"	"	"	"	Chr	
tert-Butylbenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
1,2,4-Trimethylbenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
sec-Butylbenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
p-Isopropyltoluene	"	ND	----	0.100	"	"	"	"	"	Chr	
1,3-Dichlorobenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
1,4-Dichlorobenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
n-Butylbenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
1,2-Dichlorobenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
1,2-Dibromo-3-chloropropane	"	ND	----	0.500	"	"	"	"	"	Chr	
Hexachlorobutadiene	"	ND	----	0.100	"	"	"	"	"	Chr	
1,2,4-Trichlorobenzene	"	ND	----	0.100	"	"	"	"	"	Chr	
Naphthalene	"	ND	----	0.200	"	"	"	"	"	Chr	
1,2,3-Trichlorobenzene	"	ND	----	0.100	"	"	"	"	"	Chr	

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>94.8%</i>	<i>42.7 - 151 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>106%</i>	<i>50.8 - 132 %</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>	<i>116%</i>	<i>51 - 136 %</i>	<i>"</i>	<i>"</i>

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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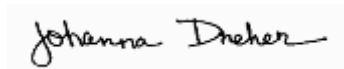


<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Conventional Chemistry Parameters by APHA/EPA Methods**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0042-01 (VE10-5-0909)</b>		<b>Soil</b>				<b>Sampled: 09/03/09 09:41</b>					
% Solids	TA SOP	<b>98.2</b>	----	0.0100	% by Weight	1x	9090103	09/15/09 14:15	09/16/09 07:30	HB	
<b>ASI0042-02 (VE10-10-0909)</b>		<b>Soil</b>				<b>Sampled: 09/03/09 10:52</b>					
% Solids	TA SOP	<b>97.3</b>	----	0.0100	% by Weight	1x	9090103	09/15/09 14:15	09/16/09 07:30	HB	
<b>ASI0042-03 (VE11-5-0909)</b>		<b>Soil</b>				<b>Sampled: 09/03/09 12:05</b>					
% Solids	TA SOP	<b>92.1</b>	----	0.0100	% by Weight	1x	9090103	09/15/09 14:15	09/16/09 07:30	HB	
<b>ASI0042-04 (VE11-10-0909)</b>		<b>Soil</b>				<b>Sampled: 09/03/09 13:17</b>					
% Solids	TA SOP	<b>97.5</b>	----	0.0100	% by Weight	1x	9090103	09/15/09 14:15	09/16/09 07:30	HB	
<b>ASI0042-05 (DUP-0909)</b>		<b>Soil</b>				<b>Sampled: 09/03/09 14:35</b>					
% Solids	TA SOP	<b>97.6</b>	----	0.0100	% by Weight	1x	9090103	09/15/09 14:15	09/16/09 07:30	HB	

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results**  
 TestAmerica Spokane

**QC Batch: 9090111**      **Soil Preparation Method: GC/MS Volatiles**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (9090111-BLK1)</b>													<b>Extracted: 09/16/09 14:18</b>	
Dichlorodifluoromethane	EPA 8260B	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	09/16/09 15:04	
Chloromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00900	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0910	"	"	--	--	--	--	--	--	"	
Acetone	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane (EDC)	"	ND	---	0.0150	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.0270	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.0170	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.0170	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	

TestAmerica Anchorage

*Johanna Dreher*

Johanna L Dreher, Client Services Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results**  
 TestAmerica Spokane

**QC Batch: 9090111**      **Soil Preparation Method: GC/MS Volatiles**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

**Blank (9090111-BLK1)**

Extracted: 09/16/09 14:18

1,1,1,2-Tetrachloroethane	EPA 8260B	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	09/16/09 15:04	
m,p-Xylene	"	ND	---	0.400	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.0170	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>Recovery:</i>	<i>94.0%</i>	<i>Limits:</i>	<i>42.7-151%</i>	<i>"</i>	<i>09/16/09 15:04</i>
	<i>Toluene-d8</i>		<i>102%</i>		<i>50.8-132%</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>		<i>109%</i>		<i>51-136%</i>	<i>"</i>	<i>"</i>

TestAmerica Anchorage

*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results**  
 TestAmerica Spokane

**QC Batch: 9090111**      **Soil Preparation Method: GC/MS Volatiles**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>LCS (9090111-BS1)</b>													<b>Extracted: 09/16/09 14:18</b>	
1,1-Dichloroethene	EPA 8260B	0.317	---	0.0300	mg/kg wet	1x	--	0.350	90.5%	(54.2-150)	--	--	09/16/09 15:32	
Benzene	"	0.333	---	0.0200	"	"	--	"	95.1%	(75.8-122)	--	--	"	
Trichloroethene	"	0.319	---	0.0270	"	"	--	"	91.1%	(78-122)	--	--	"	
Toluene	"	0.338	---	0.100	"	"	--	"	96.5%	(80-124)	--	--	"	
Chlorobenzene	"	0.310	---	0.100	"	"	--	"	88.5%	(80-120)	--	--	"	
<i>Surrogate(s): Dibromofluoromethane</i>		<i>Recovery:</i>	<i>82.7%</i>	<i>Limits:</i>	<i>42.7-151%</i>	<i>"</i>							<i>09/16/09 15:32</i>	
<i>Toluene-d8</i>			<i>89.6%</i>		<i>50.8-132%</i>	<i>"</i>							<i>"</i>	
<i>4-bromofluorobenzene</i>			<i>97.3%</i>		<i>51-136%</i>	<i>"</i>							<i>"</i>	

<b>LCS Dup (9090111-BSD1)</b>													<b>Extracted: 09/16/09 14:18</b>	
1,1-Dichloroethene	EPA 8260B	0.334	---	0.0300	mg/kg wet	1x	--	0.350	95.5%	(54.2-150)	5.37%	(25)	09/16/09 16:00	
Benzene	"	0.353	---	0.0200	"	"	--	"	101%	(75.8-122)	5.83%	"	"	
Trichloroethene	"	0.338	---	0.0270	"	"	--	"	96.4%	(78-122)	5.71%	"	"	
Toluene	"	0.359	---	0.100	"	"	--	"	102%	(80-124)	6.01%	"	"	
Chlorobenzene	"	0.329	---	0.100	"	"	--	"	94.1%	(80-120)	6.16%	"	"	
<i>Surrogate(s): Dibromofluoromethane</i>		<i>Recovery:</i>	<i>90.0%</i>	<i>Limits:</i>	<i>42.7-151%</i>	<i>"</i>							<i>09/16/09 16:00</i>	
<i>Toluene-d8</i>			<i>100%</i>		<i>50.8-132%</i>	<i>"</i>							<i>"</i>	
<i>4-bromofluorobenzene</i>			<i>110%</i>		<i>51-136%</i>	<i>"</i>							<i>"</i>	

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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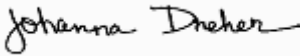
<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall 9/3/09</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/24/09 13:37

**Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results**  
 TestAmerica Spokane

**QC Batch: 9090103**      **Soil Preparation Method: Wet Chem**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Duplicate (9090103-DUP1)</b>			<b>QC Source: ASI0042-05</b>					<b>Extracted: 09/15/09 14:15</b>						
% Solids	TA SOP	97.5	---	0.0100	% by Weight	1x	97.6	--	--	--	0.103% (5)		09/16/09 07:30	

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Johanna L Dreher, Client Services Manager

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**Alaska Resources & Environmental Services**

P.O. Box 83050  
Fairbanks, AK 99708

Project Name: **Bentley Mall 9/3/09**

Project Number: [none]

Project Manager: Lyle Gresehover

Report Created:

09/24/09 13:37

## Notes and Definitions

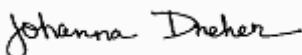
### Report Specific Notes:

None

### Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL\* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

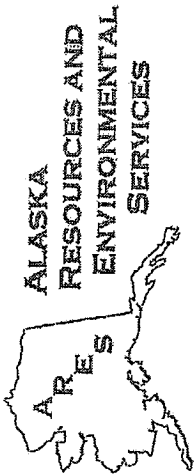
TestAmerica Anchorage



Johanna L Dreher, Client Services Manager

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**ALASKA  
RESOURCES AND  
ENVIRONMENTAL  
SERVICES**

Revised COC #1  
09/10/09

ARES  
P.O. Box 83050  
Fairbanks, Alaska 99708  
Phone: 907.374.3226  
Fax: 907.374.2319

**Chain of Custody Report**

AS10042

Client: Alaska Resources and Environmental Services Report To: Lyle Greshover Address: ARES P.O. Box 83050 Fairbanks, Alaska 99708 Email: lyle@ak-res.com Phone: (907) 374-3226 Project Name: Bentley Mail 9-3-09 Project Number: (907) 374-3219 Sampled By: Dustin Stahl		Invoice To: ARES P.O. Box 83050 Fairbanks, Alaska 99708 P.O. Number:		Laboratory Name: Test America Inc. Address: 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119	
Turnaround Request In Business Days Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses		Sparsity Other: Report Tier Levels: Tier II reporting requested (results + QC)		10 7 5 4 3 2 1 <1 5 4 3 2 1 <1	
Meth: None None		Preservative		# of Cont. Location/ Counting Lab ID	
Sample Identification Sampling Date/ Time 1. VE10-5-0909 9/3/09 0941 2. VE10-10-0909 9/3/09 1052 3. VE11-5-0909 9/3/09 1205 4. VE11-10-0909 9/3/09 1317 5. DUP-0909 9/3/09 1435 6. Trip Blank N/A N/A		Requested Analyses Dry Weight VOA EPA 826B X ✓ ✓ ✓ ✓ ✓		Matrix (W,S,O) S 2 01 S 2 02 S 2 03 S 2 04 S 2 05 S 1 06	
Released By: <i>[Signature]</i> Print Name: Jason Greshover Firm: ARES Date: 09-08-09 Time: 1300		Received By: <i>[Signature]</i> Print Name: Annette Samuila Firm: T.A. Inc. Date: 9/9/09 Time: 06:05		Temp: 1.3 Page 1 of 1	



**ALASKA  
RESOURCES AND  
ENVIRONMENTAL  
SERVICES**

ARES  
P.O. Box 83050  
Fairbanks, Alaska 99708  
Phone: 907.374.3226  
Fax: 907.374.2319

**Chain of Custody Report**

AS10042

<b>Client:</b> Alaska Resources and Environmental Services <b>Report To:</b> Lyle Greshover <b>Address:</b> ARES P.O. Box 83050 Fairbanks, Alaska 99708 <b>Email:</b> lyle@ak-res.com <b>Phone:</b> (907) 374-3226 <b>Fax:</b> (907) 374-3219		<b>Invoice To:</b> ARES P.O. Box 83050 Fairbanks, Alaska 99708 <b>P.O. Number:</b>		<b>Laboratory Name:</b> Test America Inc. <b>Address:</b> 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119	
<b>Project Name:</b> Bentley Mall 9-3-09 <b>Project Number:</b> Dustin Stahl <b>Sampled By:</b>		<b>Preservative</b> Requested Analyses		<b>Turnaround Request</b> In Business Days Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses	
<b>Meth</b> None		<b>Dry Weight</b> EPA 8260B VOCs		<b>Matrix (W,S,O)</b> S	
<b>Sample Identification</b>		<b>Sampling Date/Time</b>		<b># of Cont.</b>	
1. VE10-5-0909		9/3/09 0941		2	
2. VE10-10-0909		9/3/09 1052		2	
3. VE11-5-0909		9/3/09 1205		2	
4. VE11-10-0909		9/3/09 1317		2	
5. DUP-0909		9/3/09 1435		2	
6. Trip Blank		N/A		1	
7.					
8.					
9.					
10.					
<b>Released By:</b> <i>(Signature)</i> <b>Print Name:</b> Jason Greshover <b>Firm:</b> ARES		<b>Date:</b> 09-08-09 <b>Time:</b> 1300		<b>Received By:</b> <i>(Signature)</i> <b>Print Name:</b> Augustin Samuila <b>Firm:</b> TA Arc	
<b>Released By:</b> <i>(Signature)</i> <b>Print Name:</b>		<b>Date:</b> <b>Time:</b>		<b>Date:</b> 9/9/09 <b>Time:</b> 6:05	
<b>Additional Remarks:</b>		<b>Firm:</b>		<b>Date:</b> <b>Time:</b>	
<b>Temp:</b> 1.3		<b>Firm:</b>		<b>Page 1 of 1</b>	

# Test America Anchorage Cooler Receipt Form

(Army Corps. Compliant)

WORK ORDER # ASI0042 CLIENT: ARES PROJECT: Bentley Mall 9-3-09  
~~Belmont Residence~~

Date /Time Cooler Arrived 09 / 09 / 09 16 : 05 Cooler signed for by: Anastasia Gumulia  
(Print name)

## Preliminary Examination Phase:

Date cooler opened:  same as date received or \_\_\_ / \_\_\_ / \_\_\_

Cooler opened by (print) Anastasia Gumulia (sign) [Signature]

1. Delivered by  ALASKA AIRLINES  Fed-Ex  UPS  NAC  LYNDEN  CLIENT  Other: \_\_\_\_\_

Shipment Tracking # if applicable \_\_\_\_\_ (include copy of shipping papers in file)

2. Number of Custody Seals 1 Signed by see back Date 9 / 8 / 09

Were custody seals unbroken and intact on arrival?  Yes  No

3. Were custody papers sealed in a plastic bag?  Yes  No

4. Were custody papers filled out properly (ink, signed, etc.)?  Yes  No

5. Did you sign the custody papers in the appropriate place?  Yes  No

6. Was ice used?  Yes  No Type of ice:  blue ice  gel ice  real ice  dry ice Condition of Ice: melting

Temperature by Digi-Thermo Probe 1.3 °C Thermometer # Roc #5  
Acceptance Criteria: 0 - 6°C

7. Packing in Cooler:  bubble wrap  styrofoam  cardboard  Other: \_\_\_\_\_

8. Did samples arrive in plastic bags?  Yes  No

9. Did all bottles arrive unbroken, and with labels in good condition?  Yes  No

10. Are all bottle labels complete (ID, date, time, etc.)  Yes  No

11. Do bottle labels and Chain of Custody agree?  Yes  No

12. Are the containers and preservatives correct for the tests indicated?  Yes  No

13. Conoco Phillips, Alyeska, BP H2O samples only: pH < 2?  Yes  No  N/A

14. Is there adequate volume for the tests requested?  Yes  No

15. Were VOA vials free of bubbles?  N/A  Yes  No

If "NO" which containers contained "head space" or bubbles? \_\_\_\_\_

## Log-in Phase:

Date of sample log-in - 09 / 10 / 09

Samples logged in by (print) Anastasia Gumulia (sign) [Signature]

1. Was project identifiable from custody papers?  Yes  No

2. Do Turn Around Times and Due Dates agree?  Yes  No

3. Was the Project Manager notified of status?  Yes  No

4. Was the Lab notified of status?  Yes  No

5. Was the COC scanned and copied?  Yes  No

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING  
457000

Custody Seal

DATE 9/8/09  
SIGNATURE *[Signature]*

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING  
457000

ANC 192 ANC 2055

AS 261 9/9

027 FAI 7195 5995

Goldstreak

SHIPPER PHONE # 9073743226

CONSIGNEE PHONE # 9075639200

Date 08 SEP 09

Pieces 2

Total Weight 92

Piece Weight

Box Number 1

TEST AMERICA

Goldstreak

Goldstreak

www.testair.com

Alaska Air Cargo

# APPENDIX B

September 23, 2009

Lyle Gresehover  
Alaska Resources & Environmental Services  
P.O. Box 83050  
Fairbanks, AK 99708

RE: Bentley Mall

Enclosed are the results of analyses for samples received by the laboratory on 09/16/09 12:00.  
The following list is a summary of the Work Orders contained in this report, generated on 09/23/09  
15:54.

If you have any questions concerning this report, please feel free to contact me.

---

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
ASI0072	Bentley Mall	[none]

---

---

TestAmerica Anchorage

*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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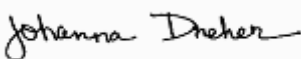


<b>Alaska Resources &amp; Environmental Services</b> P.O. Box 83050 Fairbanks, AK 99708	Project Name:	<b>Bentley Mall</b>	Report Created:
	Project Number:	[none]	09/23/09 15:54
	Project Manager:	Lyle Gresehover	

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BM-ENT 2.5	ASI0072-01	Soil	09/11/09 02:10	09/16/09 12:00
BM-ENT 5.0	ASI0072-02	Soil	09/11/09 02:20	09/16/09 12:00
BM-VE11-2.5	ASI0072-03	Soil	09/11/09 03:30	09/16/09 12:00
BM-VE11-5.0	ASI0072-04	Soil	09/11/09 03:40	09/16/09 12:00
BM-VMF-2.5	ASI0072-05	Soil	09/11/09 04:15	09/16/09 12:00
BM-VMF-5.0	ASI0072-06	Soil	09/11/09 04:25	09/16/09 12:00
BM-SSA	ASI0072-07	Soil	09/11/09 04:45	09/16/09 12:00
BM-DUP1	ASI0072-08	Soil	09/11/09 01:00	09/16/09 12:00
Trip Blank	ASI0072-09	Soil	09/11/09 00:00	09/16/09 12:00
BM-SSB	ASI0072-10	Soil	09/11/09 04:45	09/16/09 12:00

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Johanna L Dreher, Client Services Manager

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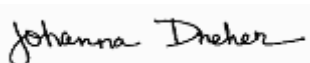


<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-01 (BM-ENT 2.5)</b>		<b>Soil</b>			<b>Sampled: 09/11/09 02:10</b>						
Dichlorodifluoromethane	EPA 8260B	ND	----	0.162	mg/kg dry	1x	9090138	09/21/09 08:23	09/21/09 14:18	Chr	
Chloromethane	"	ND	----	0.811	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.0146	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.811	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.162	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0487	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0487	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.162	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.148	"	"	"	"	"	Chr	
Acetone	"	ND	----	1.62	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.487	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.162	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.162	"	"	"	"	"	Chr	
<b>cis-1,2-Dichloroethene</b>	"	<b>0.398</b>	----	0.324	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.162	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.162	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.162	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0487	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.162	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	1.62	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.162	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0324	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0243	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0438	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.162	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0276	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.162	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0324	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.162	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	1.62	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0324	"	"	"	"	"	Chr	
<b>Tetrachloroethene</b>	"	<b>0.0816</b>	----	0.0487	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0276	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.162	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0324	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.162	"	"	"	"	"	Chr	

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Johanna L Dreher, Client Services Manager

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**Alaska Resources & Environmental Services**

P.O. Box 83050  
 Fairbanks, AK 99708

Project Name: **Bentley Mall**

Project Number: [none]

Project Manager: Lyle Gresehover

Report Created:

09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-01 (BM-ENT 2.5)</b>											
			<b>Soil</b>				<b>Sampled: 09/11/09 02:10</b>				
2-Hexanone	EPA 8260B	ND	----	1.62	mg/kg dry	1x	9090138	09/21/09 08:23	09/21/09 14:18		Chr
Ethylbenzene	"	ND	----	0.162	"	"	"	"	"		Chr
Chlorobenzene	"	ND	----	0.162	"	"	"	"	"		Chr
1,1,1,2-Tetrachloroethane	"	ND	----	0.162	"	"	"	"	"		Chr
m,p-Xylene	"	ND	----	0.649	"	"	"	"	"		Chr
o-Xylene	"	ND	----	0.324	"	"	"	"	"		Chr
Styrene	"	ND	----	0.162	"	"	"	"	"		Chr
Bromoform	"	ND	----	0.162	"	"	"	"	"		Chr
Isopropylbenzene	"	ND	----	0.162	"	"	"	"	"		Chr
n-Propylbenzene	"	ND	----	0.162	"	"	"	"	"		Chr
1,1,2,2-Tetrachloroethane	"	ND	----	0.0276	"	"	"	"	"		Chr
Bromobenzene	"	ND	----	0.162	"	"	"	"	"		Chr
1,3,5-Trimethylbenzene	"	ND	----	0.162	"	"	"	"	"		Chr
2-Chlorotoluene	"	ND	----	0.162	"	"	"	"	"		Chr
1,2,3-Trichloropropane	"	ND	----	0.162	"	"	"	"	"		Chr
4-Chlorotoluene	"	ND	----	0.162	"	"	"	"	"		Chr
tert-Butylbenzene	"	ND	----	0.162	"	"	"	"	"		Chr
1,2,4-Trimethylbenzene	"	ND	----	0.162	"	"	"	"	"		Chr
sec-Butylbenzene	"	ND	----	0.162	"	"	"	"	"		Chr
p-Isopropyltoluene	"	ND	----	0.162	"	"	"	"	"		Chr
1,3-Dichlorobenzene	"	ND	----	0.162	"	"	"	"	"		Chr
1,4-Dichlorobenzene	"	ND	----	0.162	"	"	"	"	"		Chr
n-Butylbenzene	"	ND	----	0.162	"	"	"	"	"		Chr
1,2-Dichlorobenzene	"	ND	----	0.162	"	"	"	"	"		Chr
1,2-Dibromo-3-chloropropane	"	ND	----	0.811	"	"	"	"	"		Chr
Hexachlorobutadiene	"	ND	----	0.162	"	"	"	"	"		Chr
1,2,4-Trichlorobenzene	"	ND	----	0.162	"	"	"	"	"		Chr
Naphthalene	"	ND	----	0.324	"	"	"	"	"		Chr
1,2,3-Trichlorobenzene	"	ND	----	0.162	"	"	"	"	"		Chr
<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>			<i>128%</i>			<i>42.7 - 151 %</i>	<i>"</i>			<i>"</i>
	<i>Toluene-d8</i>			<i>138%</i>			<i>50.8 - 132 %</i>	<i>"</i>			<i>ZI</i>
	<i>4-bromofluorobenzene</i>			<i>147%</i>			<i>51 - 136 %</i>	<i>"</i>			<i>ZI</i>

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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**Alaska Resources & Environmental Services**

P.O. Box 83050  
 Fairbanks, AK 99708

Project Name: **Bentley Mall**

Project Number: [none]

Project Manager: Lyle Gresehover

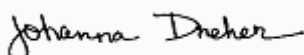
Report Created:

09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-02 (BM-ENT 5.0)</b>		<b>Soil</b>									
<b>Sampled: 09/11/09 02:20</b>											
Dichlorodifluoromethane	EPA 8260B	ND	----	0.125	mg/kg dry	1x	9090138	09/21/09 08:23	09/21/09 14:46	Chr	
Chloromethane	"	ND	----	0.627	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.0113	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.627	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.125	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0376	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0376	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.125	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.114	"	"	"	"	"	Chr	
Acetone	"	ND	----	1.25	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.376	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.125	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.125	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.251	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.125	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.125	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.125	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0376	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.125	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	1.25	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.125	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0251	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0188	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0338	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.125	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0213	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.125	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0251	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.125	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	1.25	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0251	"	"	"	"	"	Chr	
<b>Tetrachloroethene</b>	"	<b>0.179</b>	----	0.0376	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0213	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.125	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0251	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.125	"	"	"	"	"	Chr	

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Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-02 (BM-ENT 5.0)</b>		<b>Soil</b>									
		<b>Sampled: 09/11/09 02:20</b>									
2-Hexanone	EPA 8260B	ND	----	1.25	mg/kg dry	1x	9090138	09/21/09 08:23	09/21/09 14:46		Chr
Ethylbenzene	"	ND	----	0.125	"	"	"	"	"		Chr
Chlorobenzene	"	ND	----	0.125	"	"	"	"	"		Chr
1,1,1,2-Tetrachloroethane	"	ND	----	0.125	"	"	"	"	"		Chr
m,p-Xylene	"	ND	----	0.501	"	"	"	"	"		Chr
o-Xylene	"	ND	----	0.251	"	"	"	"	"		Chr
Styrene	"	ND	----	0.125	"	"	"	"	"		Chr
Bromoform	"	ND	----	0.125	"	"	"	"	"		Chr
Isopropylbenzene	"	ND	----	0.125	"	"	"	"	"		Chr
n-Propylbenzene	"	ND	----	0.125	"	"	"	"	"		Chr
1,1,2,2-Tetrachloroethane	"	ND	----	0.0213	"	"	"	"	"		Chr
Bromobenzene	"	ND	----	0.125	"	"	"	"	"		Chr
1,3,5-Trimethylbenzene	"	ND	----	0.125	"	"	"	"	"		Chr
2-Chlorotoluene	"	ND	----	0.125	"	"	"	"	"		Chr
1,2,3-Trichloropropane	"	ND	----	0.125	"	"	"	"	"		Chr
4-Chlorotoluene	"	ND	----	0.125	"	"	"	"	"		Chr
tert-Butylbenzene	"	ND	----	0.125	"	"	"	"	"		Chr
1,2,4-Trimethylbenzene	"	ND	----	0.125	"	"	"	"	"		Chr
sec-Butylbenzene	"	ND	----	0.125	"	"	"	"	"		Chr
p-Isopropyltoluene	"	ND	----	0.125	"	"	"	"	"		Chr
1,3-Dichlorobenzene	"	ND	----	0.125	"	"	"	"	"		Chr
1,4-Dichlorobenzene	"	ND	----	0.125	"	"	"	"	"		Chr
n-Butylbenzene	"	ND	----	0.125	"	"	"	"	"		Chr
1,2-Dichlorobenzene	"	ND	----	0.125	"	"	"	"	"		Chr
1,2-Dibromo-3-chloropropane	"	ND	----	0.627	"	"	"	"	"		Chr
Hexachlorobutadiene	"	ND	----	0.125	"	"	"	"	"		Chr
1,2,4-Trichlorobenzene	"	ND	----	0.125	"	"	"	"	"		Chr
Naphthalene	"	ND	----	0.251	"	"	"	"	"		Chr
1,2,3-Trichlorobenzene	"	ND	----	0.125	"	"	"	"	"		Chr

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>92.2%</i>	<i>42.7 - 151 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>102%</i>	<i>50.8 - 132 %</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>	<i>108%</i>	<i>51 - 136 %</i>	<i>"</i>	<i>"</i>

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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**Alaska Resources & Environmental Services**

P.O. Box 83050  
 Fairbanks, AK 99708

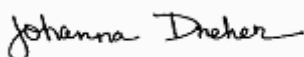
Project Name: **Bentley Mall**  
 Project Number: [none]  
 Project Manager: Lyle Gresehover

Report Created:  
 09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-03 (BM-VE11-2.5)</b>		<b>Soil</b>									
		<b>Sampled: 09/11/09 03:30</b>									
Dichlorodifluoromethane	EPA 8260B	ND	----	0.121	mg/kg dry	1x	9090138	09/21/09 08:23	09/21/09 15:14	Chr	
Chloromethane	"	ND	----	0.603	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.0109	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.603	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.121	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0362	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0362	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.121	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.110	"	"	"	"	"	Chr	
Acetone	"	ND	----	1.21	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.362	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.121	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.121	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.241	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.121	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.121	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.121	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0362	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.121	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	1.21	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.121	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0241	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0181	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0326	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.121	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0205	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.121	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0241	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.121	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	1.21	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0241	"	"	"	"	"	Chr	
<b>Tetrachloroethene</b>	"	<b>0.173</b>	----	0.0362	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0205	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.121	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0241	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.121	"	"	"	"	"	Chr	

TestAmerica Anchorage



Johanna L Dreher, Client Services Manager

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**Alaska Resources & Environmental Services**

P.O. Box 83050  
 Fairbanks, AK 99708

Project Name: **Bentley Mall**

Project Number: [none]

Project Manager: Lyle Gresehover

Report Created:

09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-03 (BM-VE11-2.5)</b>											
			<b>Soil</b>				<b>Sampled: 09/11/09 03:30</b>				
2-Hexanone	EPA 8260B	ND	----	1.21	mg/kg dry	1x	9090138	09/21/09 08:23	09/21/09 15:14		Chr
Ethylbenzene	"	ND	----	0.121	"	"	"	"	"		Chr
Chlorobenzene	"	ND	----	0.121	"	"	"	"	"		Chr
1,1,1,2-Tetrachloroethane	"	ND	----	0.121	"	"	"	"	"		Chr
m,p-Xylene	"	ND	----	0.483	"	"	"	"	"		Chr
o-Xylene	"	ND	----	0.241	"	"	"	"	"		Chr
Styrene	"	ND	----	0.121	"	"	"	"	"		Chr
Bromoform	"	ND	----	0.121	"	"	"	"	"		Chr
Isopropylbenzene	"	ND	----	0.121	"	"	"	"	"		Chr
n-Propylbenzene	"	ND	----	0.121	"	"	"	"	"		Chr
1,1,2,2-Tetrachloroethane	"	ND	----	0.0205	"	"	"	"	"		Chr
Bromobenzene	"	ND	----	0.121	"	"	"	"	"		Chr
1,3,5-Trimethylbenzene	"	ND	----	0.121	"	"	"	"	"		Chr
2-Chlorotoluene	"	ND	----	0.121	"	"	"	"	"		Chr
1,2,3-Trichloropropane	"	ND	----	0.121	"	"	"	"	"		Chr
4-Chlorotoluene	"	ND	----	0.121	"	"	"	"	"		Chr
tert-Butylbenzene	"	ND	----	0.121	"	"	"	"	"		Chr
1,2,4-Trimethylbenzene	"	ND	----	0.121	"	"	"	"	"		Chr
sec-Butylbenzene	"	ND	----	0.121	"	"	"	"	"		Chr
p-Isopropyltoluene	"	ND	----	0.121	"	"	"	"	"		Chr
1,3-Dichlorobenzene	"	ND	----	0.121	"	"	"	"	"		Chr
1,4-Dichlorobenzene	"	ND	----	0.121	"	"	"	"	"		Chr
n-Butylbenzene	"	ND	----	0.121	"	"	"	"	"		Chr
1,2-Dichlorobenzene	"	ND	----	0.121	"	"	"	"	"		Chr
1,2-Dibromo-3-chloropropane	"	ND	----	0.603	"	"	"	"	"		Chr
Hexachlorobutadiene	"	ND	----	0.121	"	"	"	"	"		Chr
1,2,4-Trichlorobenzene	"	ND	----	0.121	"	"	"	"	"		Chr
Naphthalene	"	ND	----	0.241	"	"	"	"	"		Chr
1,2,3-Trichlorobenzene	"	ND	----	0.121	"	"	"	"	"		Chr
Surrogate(s):	<i>Dibromofluoromethane</i>			106%		42.7 - 151 %	"				"
	<i>Toluene-d8</i>			111%		50.8 - 132 %	"				"
	<i>4-bromofluorobenzene</i>			119%		51 - 136 %	"				"

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-04 (BM-VE11-5.0)</b>		<b>Soil</b>									
		<b>Sampled: 09/11/09 03:40</b>									
Dichlorodifluoromethane	EPA 8260B	ND	----	0.130	mg/kg dry	1x	9090138	09/21/09 08:23	09/21/09 15:43	Chr	
Chloromethane	"	ND	----	0.650	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.0117	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.650	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.130	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0390	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0390	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.130	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.118	"	"	"	"	"	Chr	
Acetone	"	ND	----	1.30	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.390	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.130	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.130	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.260	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.130	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.130	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.130	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0390	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.130	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	1.30	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.130	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0260	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0195	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0351	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.130	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0221	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.130	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0260	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.130	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	1.30	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0260	"	"	"	"	"	Chr	
<b>Tetrachloroethene</b>	"	<b>0.847</b>	----	0.0390	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0221	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.130	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0260	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.130	"	"	"	"	"	Chr	

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Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-04 (BM-VE11-5.0)</b>		<b>Soil</b>									
		<b>Sampled: 09/11/09 03:40</b>									
2-Hexanone	EPA 8260B	ND	----	1.30	mg/kg dry	1x	9090138	09/21/09 08:23	09/21/09 15:43		Chr
Ethylbenzene	"	ND	----	0.130	"	"	"	"	"		Chr
Chlorobenzene	"	ND	----	0.130	"	"	"	"	"		Chr
1,1,1,2-Tetrachloroethane	"	ND	----	0.130	"	"	"	"	"		Chr
m,p-Xylene	"	ND	----	0.520	"	"	"	"	"		Chr
o-Xylene	"	ND	----	0.260	"	"	"	"	"		Chr
Styrene	"	ND	----	0.130	"	"	"	"	"		Chr
Bromoform	"	ND	----	0.130	"	"	"	"	"		Chr
Isopropylbenzene	"	ND	----	0.130	"	"	"	"	"		Chr
n-Propylbenzene	"	ND	----	0.130	"	"	"	"	"		Chr
1,1,2,2-Tetrachloroethane	"	ND	----	0.0221	"	"	"	"	"		Chr
Bromobenzene	"	ND	----	0.130	"	"	"	"	"		Chr
1,3,5-Trimethylbenzene	"	ND	----	0.130	"	"	"	"	"		Chr
2-Chlorotoluene	"	ND	----	0.130	"	"	"	"	"		Chr
1,2,3-Trichloropropane	"	ND	----	0.130	"	"	"	"	"		Chr
4-Chlorotoluene	"	ND	----	0.130	"	"	"	"	"		Chr
tert-Butylbenzene	"	ND	----	0.130	"	"	"	"	"		Chr
1,2,4-Trimethylbenzene	"	ND	----	0.130	"	"	"	"	"		Chr
sec-Butylbenzene	"	ND	----	0.130	"	"	"	"	"		Chr
p-Isopropyltoluene	"	ND	----	0.130	"	"	"	"	"		Chr
1,3-Dichlorobenzene	"	ND	----	0.130	"	"	"	"	"		Chr
1,4-Dichlorobenzene	"	ND	----	0.130	"	"	"	"	"		Chr
n-Butylbenzene	"	ND	----	0.130	"	"	"	"	"		Chr
1,2-Dichlorobenzene	"	ND	----	0.130	"	"	"	"	"		Chr
1,2-Dibromo-3-chloropropane	"	ND	----	0.650	"	"	"	"	"		Chr
Hexachlorobutadiene	"	ND	----	0.130	"	"	"	"	"		Chr
1,2,4-Trichlorobenzene	"	ND	----	0.130	"	"	"	"	"		Chr
Naphthalene	"	ND	----	0.260	"	"	"	"	"		Chr
1,2,3-Trichlorobenzene	"	ND	----	0.130	"	"	"	"	"		Chr

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>74.4%</i>	<i>42.7 - 151 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>76.8%</i>	<i>50.8 - 132 %</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>	<i>80.9%</i>	<i>51 - 136 %</i>	<i>"</i>	<i>"</i>

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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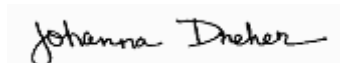


<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-05 (BM-VMF-2.5)</b>		<b>Soil</b>					<b>Sampled: 09/11/09 04:15</b>				
Dichlorodifluoromethane	EPA 8260B	ND	----	0.0859	mg/kg dry	1x	9090138	09/21/09 08:23	09/22/09 10:37	Chr	
Chloromethane	"	ND	----	0.429	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.00773	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.429	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.0859	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0258	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0258	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.0859	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.0781	"	"	"	"	"	Chr	
Acetone	"	ND	----	0.859	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.258	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.0859	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.0859	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.172	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.0859	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.0859	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.0859	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0258	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.0859	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	0.859	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.0859	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0172	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0129	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0232	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.0859	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0146	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.0859	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0172	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.0859	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	0.859	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0172	"	"	"	"	"	Chr	
<b>Tetrachloroethene</b>		<b>0.0507</b>	----	0.0258	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0146	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.0859	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0172	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.0859	"	"	"	"	"	Chr	

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Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-05 (BM-VMF-2.5)</b>		<b>Soil</b>									
		<b>Sampled: 09/11/09 04:15</b>									
2-Hexanone	EPA 8260B	ND	----	0.859	mg/kg dry	1x	9090138	09/21/09 08:23	09/22/09 10:37		Chr
Ethylbenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
Chlorobenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
1,1,1,2-Tetrachloroethane	"	ND	----	0.0859	"	"	"	"	"		Chr
m,p-Xylene	"	ND	----	0.344	"	"	"	"	"		Chr
o-Xylene	"	ND	----	0.172	"	"	"	"	"		Chr
Styrene	"	ND	----	0.0859	"	"	"	"	"		Chr
Bromoform	"	ND	----	0.0859	"	"	"	"	"		Chr
Isopropylbenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
n-Propylbenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
1,1,2,2-Tetrachloroethane	"	ND	----	0.0146	"	"	"	"	"		Chr
Bromobenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
1,3,5-Trimethylbenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
2-Chlorotoluene	"	ND	----	0.0859	"	"	"	"	"		Chr
1,2,3-Trichloropropane	"	ND	----	0.0859	"	"	"	"	"		Chr
4-Chlorotoluene	"	ND	----	0.0859	"	"	"	"	"		Chr
tert-Butylbenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
1,2,4-Trimethylbenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
sec-Butylbenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
p-Isopropyltoluene	"	ND	----	0.0859	"	"	"	"	"		Chr
1,3-Dichlorobenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
1,4-Dichlorobenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
n-Butylbenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
1,2-Dichlorobenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
1,2-Dibromo-3-chloropropane	"	ND	----	0.429	"	"	"	"	"		Chr
Hexachlorobutadiene	"	ND	----	0.0859	"	"	"	"	"		Chr
1,2,4-Trichlorobenzene	"	ND	----	0.0859	"	"	"	"	"		Chr
Naphthalene	"	ND	----	0.172	"	"	"	"	"		Chr
1,2,3-Trichlorobenzene	"	ND	----	0.0859	"	"	"	"	"		Chr

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>85.8%</i>	<i>42.7 - 151 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>96.0%</i>	<i>50.8 - 132 %</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>	<i>104%</i>	<i>51 - 136 %</i>	<i>"</i>	<i>"</i>

TestAmerica Anchorage

*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-06 (BM-VMF-5.0)</b>		<b>Soil</b>									
		<b>Sampled: 09/11/09 04:25</b>									
Dichlorodifluoromethane	EPA 8260B	ND	----	0.102	mg/kg dry	1x	9090138	09/21/09 08:23	09/22/09 11:06	Chr	
Chloromethane	"	ND	----	0.511	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.00920	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.511	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.102	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0307	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0307	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.102	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.0930	"	"	"	"	"	Chr	
Acetone	"	ND	----	1.02	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.307	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.102	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.102	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.204	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.102	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.102	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.102	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0307	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.102	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	1.02	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.102	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0204	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0153	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0276	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.102	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0174	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.102	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0204	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.102	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	1.02	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0204	"	"	"	"	"	Chr	
<b>Tetrachloroethene</b>	"	<b>0.412</b>	----	0.0307	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0174	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.102	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0204	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.102	"	"	"	"	"	Chr	

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Johanna L Dreher, Client Services Manager

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**Alaska Resources & Environmental Services**

P.O. Box 83050  
 Fairbanks, AK 99708

Project Name: **Bentley Mall**

Project Number: [none]

Project Manager: Lyle Gresehover

Report Created:

09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-06 (BM-VMF-5.0)</b>											
			<b>Soil</b>				<b>Sampled: 09/11/09 04:25</b>				
2-Hexanone	EPA 8260B	ND	----	1.02	mg/kg dry	1x	9090138	09/21/09 08:23	09/22/09 11:06	Chr	
Ethylbenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
Chlorobenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
1,1,1,2-Tetrachloroethane	"	ND	----	0.102	"	"	"	"	"	Chr	
m,p-Xylene	"	ND	----	0.409	"	"	"	"	"	Chr	
o-Xylene	"	ND	----	0.204	"	"	"	"	"	Chr	
Styrene	"	ND	----	0.102	"	"	"	"	"	Chr	
Bromoform	"	ND	----	0.102	"	"	"	"	"	Chr	
Isopropylbenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
n-Propylbenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
1,1,2,2-Tetrachloroethane	"	ND	----	0.0174	"	"	"	"	"	Chr	
Bromobenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
1,3,5-Trimethylbenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
2-Chlorotoluene	"	ND	----	0.102	"	"	"	"	"	Chr	
1,2,3-Trichloropropane	"	ND	----	0.102	"	"	"	"	"	Chr	
4-Chlorotoluene	"	ND	----	0.102	"	"	"	"	"	Chr	
tert-Butylbenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
1,2,4-Trimethylbenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
sec-Butylbenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
p-Isopropyltoluene	"	ND	----	0.102	"	"	"	"	"	Chr	
1,3-Dichlorobenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
1,4-Dichlorobenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
n-Butylbenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
1,2-Dichlorobenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
1,2-Dibromo-3-chloropropane	"	ND	----	0.511	"	"	"	"	"	Chr	
Hexachlorobutadiene	"	ND	----	0.102	"	"	"	"	"	Chr	
1,2,4-Trichlorobenzene	"	ND	----	0.102	"	"	"	"	"	Chr	
Naphthalene	"	ND	----	0.204	"	"	"	"	"	Chr	
1,2,3-Trichlorobenzene	"	ND	----	0.102	"	"	"	"	"	Chr	

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>95.3%</i>	<i>42.7 - 151 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>103%</i>	<i>50.8 - 132 %</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>	<i>110%</i>	<i>51 - 136 %</i>	<i>"</i>	<i>"</i>

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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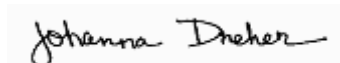


<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-07 (BM-SSA)</b>		<b>Soil</b>									
		<b>Sampled: 09/11/09 04:45</b>									
Dichlorodifluoromethane	EPA 8260B	ND	----	0.0609	mg/kg dry	1x	9090138	09/21/09 08:23	09/22/09 11:34	Chr	
Chloromethane	"	ND	----	0.304	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.00548	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.304	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.0609	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0183	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0183	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.0609	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.0554	"	"	"	"	"	Chr	
Acetone	"	ND	----	0.609	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.183	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.0609	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.0609	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.122	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.0609	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.0609	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.0609	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0183	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.0609	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	0.609	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.0609	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0122	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.00913	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0164	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.0609	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0104	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.0609	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0122	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.0609	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	0.609	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0122	"	"	"	"	"	Chr	
<b>Tetrachloroethene</b>		<b>0.0535</b>	----	0.0183	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0104	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.0609	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0122	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.0609	"	"	"	"	"	Chr	

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Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-07 (BM-SSA)</b>		<b>Soil</b>									
		<b>Sampled: 09/11/09 04:45</b>									
2-Hexanone	EPA 8260B	ND	----	0.609	mg/kg dry	1x	9090138	09/21/09 08:23	09/22/09 11:34	Chr	
Ethylbenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
Chlorobenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
1,1,1,2-Tetrachloroethane	"	ND	----	0.0609	"	"	"	"	"	Chr	
m,p-Xylene	"	ND	----	0.244	"	"	"	"	"	Chr	
o-Xylene	"	ND	----	0.122	"	"	"	"	"	Chr	
Styrene	"	ND	----	0.0609	"	"	"	"	"	Chr	
Bromoform	"	ND	----	0.0609	"	"	"	"	"	Chr	
Isopropylbenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
n-Propylbenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
1,1,2,2-Tetrachloroethane	"	ND	----	0.0104	"	"	"	"	"	Chr	
Bromobenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
1,3,5-Trimethylbenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
2-Chlorotoluene	"	ND	----	0.0609	"	"	"	"	"	Chr	
1,2,3-Trichloropropane	"	ND	----	0.0609	"	"	"	"	"	Chr	
4-Chlorotoluene	"	ND	----	0.0609	"	"	"	"	"	Chr	
tert-Butylbenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
1,2,4-Trimethylbenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
sec-Butylbenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
p-Isopropyltoluene	"	ND	----	0.0609	"	"	"	"	"	Chr	
1,3-Dichlorobenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
1,4-Dichlorobenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
n-Butylbenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
1,2-Dichlorobenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
1,2-Dibromo-3-chloropropane	"	ND	----	0.304	"	"	"	"	"	Chr	
Hexachlorobutadiene	"	ND	----	0.0609	"	"	"	"	"	Chr	
1,2,4-Trichlorobenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	
Naphthalene	"	ND	----	0.122	"	"	"	"	"	Chr	
1,2,3-Trichlorobenzene	"	ND	----	0.0609	"	"	"	"	"	Chr	

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>98.7%</i>	<i>42.7 - 151 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>105%</i>	<i>50.8 - 132 %</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>	<i>114%</i>	<i>51 - 136 %</i>	<i>"</i>	<i>"</i>

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-08 (BM-DUP1)</b>		<b>Soil</b>									
		<b>Sampled: 09/11/09 01:00</b>									
Dichlorodifluoromethane	EPA 8260B	ND	----	0.0771	mg/kg dry	1x	9090138	09/21/09 08:23	09/22/09 12:03	Chr	
Chloromethane	"	ND	----	0.385	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.00694	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.385	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.0771	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0231	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0231	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.0771	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.0701	"	"	"	"	"	Chr	
Acetone	"	ND	----	0.771	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.231	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.0771	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.0771	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.154	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.0771	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.0771	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.0771	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0231	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.0771	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	0.771	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.0771	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0154	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0116	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0208	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.0771	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0131	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.0771	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0154	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.0771	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	0.771	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0154	"	"	"	"	"	Chr	
<b>Tetrachloroethene</b>	"	<b>0.0400</b>	----	0.0231	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0131	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.0771	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0154	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.0771	"	"	"	"	"	Chr	

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-08 (BM-DUP1)</b>		<b>Soil</b>									
		<b>Sampled: 09/11/09 01:00</b>									
2-Hexanone	EPA 8260B	ND	----	0.771	mg/kg dry	1x	9090138	09/21/09 08:23	09/22/09 12:03	Chr	
Ethylbenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
Chlorobenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
1,1,1,2-Tetrachloroethane	"	ND	----	0.0771	"	"	"	"	"	Chr	
m,p-Xylene	"	ND	----	0.308	"	"	"	"	"	Chr	
o-Xylene	"	ND	----	0.154	"	"	"	"	"	Chr	
Styrene	"	ND	----	0.0771	"	"	"	"	"	Chr	
Bromoform	"	ND	----	0.0771	"	"	"	"	"	Chr	
Isopropylbenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
n-Propylbenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
1,1,2,2-Tetrachloroethane	"	ND	----	0.0131	"	"	"	"	"	Chr	
Bromobenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
1,3,5-Trimethylbenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
2-Chlorotoluene	"	ND	----	0.0771	"	"	"	"	"	Chr	
1,2,3-Trichloropropane	"	ND	----	0.0771	"	"	"	"	"	Chr	
4-Chlorotoluene	"	ND	----	0.0771	"	"	"	"	"	Chr	
tert-Butylbenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
1,2,4-Trimethylbenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
sec-Butylbenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
p-Isopropyltoluene	"	ND	----	0.0771	"	"	"	"	"	Chr	
1,3-Dichlorobenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
1,4-Dichlorobenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
n-Butylbenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
1,2-Dichlorobenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
1,2-Dibromo-3-chloropropane	"	ND	----	0.385	"	"	"	"	"	Chr	
Hexachlorobutadiene	"	ND	----	0.0771	"	"	"	"	"	Chr	
1,2,4-Trichlorobenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	
Naphthalene	"	ND	----	0.154	"	"	"	"	"	Chr	
1,2,3-Trichlorobenzene	"	ND	----	0.0771	"	"	"	"	"	Chr	

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>93.0%</i>	<i>42.7 - 151 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>95.3%</i>	<i>50.8 - 132 %</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>	<i>104%</i>	<i>51 - 136 %</i>	<i>"</i>	<i>"</i>

TestAmerica Anchorage

*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-09 (Trip Blank)</b>		<b>Soil</b>									
		<b>Sampled: 09/11/09 00:00</b>									
Dichlorodifluoromethane	EPA 8260B	ND	----	0.100	mg/kg wet	1x	9090138	09/21/09 08:23	09/22/09 13:28	Chr	
Chloromethane	"	ND	----	0.500	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.00900	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.500	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.100	"	"	"	"	"	Chr	
Trichlorofluoromethane	"	ND	----	0.0300	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0300	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.100	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.0910	"	"	"	"	"	Chr	
Acetone	"	ND	----	1.00	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.300	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.100	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.100	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.200	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.100	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.100	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.100	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0300	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.100	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	1.00	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.100	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0200	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0150	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0270	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.100	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0170	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.100	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0200	"	"	"	"	"	Chr	
<b>Toluene</b>	"	<b>1.21</b>	----	0.100	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	1.00	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0200	"	"	"	"	"	Chr	
Tetrachloroethene	"	ND	----	0.0300	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0170	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.100	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0200	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.100	"	"	"	"	"	Chr	

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Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-09 (Trip Blank)</b>		<b>Soil</b>									
		<b>Sampled: 09/11/09 00:00</b>									
2-Hexanone	EPA 8260B	ND	----	1.00	mg/kg wet	1x	9090138	09/21/09 08:23	09/22/09 13:28		Chr
Ethylbenzene	"	ND	----	0.100	"	"	"	"	"		Chr
Chlorobenzene	"	ND	----	0.100	"	"	"	"	"		Chr
1,1,1,2-Tetrachloroethane	"	ND	----	0.100	"	"	"	"	"		Chr
m,p-Xylene	"	ND	----	0.400	"	"	"	"	"		Chr
o-Xylene	"	ND	----	0.200	"	"	"	"	"		Chr
Styrene	"	ND	----	0.100	"	"	"	"	"		Chr
Bromoform	"	ND	----	0.100	"	"	"	"	"		Chr
Isopropylbenzene	"	ND	----	0.100	"	"	"	"	"		Chr
n-Propylbenzene	"	ND	----	0.100	"	"	"	"	"		Chr
1,1,2,2-Tetrachloroethane	"	ND	----	0.0170	"	"	"	"	"		Chr
Bromobenzene	"	ND	----	0.100	"	"	"	"	"		Chr
1,3,5-Trimethylbenzene	"	ND	----	0.100	"	"	"	"	"		Chr
2-Chlorotoluene	"	ND	----	0.100	"	"	"	"	"		Chr
1,2,3-Trichloropropane	"	ND	----	0.100	"	"	"	"	"		Chr
4-Chlorotoluene	"	ND	----	0.100	"	"	"	"	"		Chr
tert-Butylbenzene	"	ND	----	0.100	"	"	"	"	"		Chr
1,2,4-Trimethylbenzene	"	ND	----	0.100	"	"	"	"	"		Chr
sec-Butylbenzene	"	ND	----	0.100	"	"	"	"	"		Chr
p-Isopropyltoluene	"	ND	----	0.100	"	"	"	"	"		Chr
1,3-Dichlorobenzene	"	ND	----	0.100	"	"	"	"	"		Chr
1,4-Dichlorobenzene	"	ND	----	0.100	"	"	"	"	"		Chr
n-Butylbenzene	"	ND	----	0.100	"	"	"	"	"		Chr
1,2-Dichlorobenzene	"	ND	----	0.100	"	"	"	"	"		Chr
1,2-Dibromo-3-chloropropane	"	ND	----	0.500	"	"	"	"	"		Chr
Hexachlorobutadiene	"	ND	----	0.100	"	"	"	"	"		Chr
1,2,4-Trichlorobenzene	"	ND	----	0.100	"	"	"	"	"		Chr
Naphthalene	"	ND	----	0.200	"	"	"	"	"		Chr
1,2,3-Trichlorobenzene	"	ND	----	0.100	"	"	"	"	"		Chr

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>84.5%</i>	<i>42.7 - 151 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>93.1%</i>	<i>50.8 - 132 %</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>	<i>99.6%</i>	<i>51 - 136 %</i>	<i>"</i>	<i>"</i>

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-10 (BM-SSB)</b>											
		<b>Soil</b>									
		<b>Sampled: 09/11/09 04:45</b>									
Dichlorodifluoromethane	EPA 8260B	ND	----	0.0807	mg/kg dry	1x	9090138	09/21/09 08:23	09/22/09 14:53	Chr	
Chloromethane	"	ND	----	0.404	"	"	"	"	"	Chr	
Vinyl chloride	"	ND	----	0.00726	"	"	"	"	"	Chr	
Bromomethane	"	ND	----	0.404	"	"	"	"	"	Chr	
Chloroethane	"	ND	----	0.0807	"	"	"	"	"	Chr	
<b>Trichlorofluoromethane</b>	"	<b>0.0305</b>	----	0.0242	"	"	"	"	"	Chr	
1,1-Dichloroethene	"	ND	----	0.0242	"	"	"	"	"	Chr	
Carbon disulfide	"	ND	----	0.0807	"	"	"	"	"	Chr	
Methylene chloride	"	ND	----	0.0734	"	"	"	"	"	Chr	
<b>Acetone</b>	"	<b>2.16</b>	----	0.807	"	"	"	"	"	Chr	
trans-1,2-Dichloroethene	"	ND	----	0.242	"	"	"	"	"	Chr	
Methyl tert-butyl ether	"	ND	----	0.0807	"	"	"	"	"	Chr	
1,1-Dichloroethane	"	ND	----	0.0807	"	"	"	"	"	Chr	
cis-1,2-Dichloroethene	"	ND	----	0.161	"	"	"	"	"	Chr	
2,2-Dichloropropane	"	ND	----	0.0807	"	"	"	"	"	Chr	
Bromochloromethane	"	ND	----	0.0807	"	"	"	"	"	Chr	
Chloroform	"	ND	----	0.0807	"	"	"	"	"	Chr	
Carbon tetrachloride	"	ND	----	0.0242	"	"	"	"	"	Chr	
1,1,1-Trichloroethane	"	ND	----	0.0807	"	"	"	"	"	Chr	
2-Butanone	"	ND	----	0.807	"	"	"	"	"	Chr	
1,1-Dichloropropene	"	ND	----	0.0807	"	"	"	"	"	Chr	
Benzene	"	ND	----	0.0161	"	"	"	"	"	Chr	
1,2-Dichloroethane (EDC)	"	ND	----	0.0121	"	"	"	"	"	Chr	
Trichloroethene	"	ND	----	0.0218	"	"	"	"	"	Chr	
Dibromomethane	"	ND	----	0.0807	"	"	"	"	"	Chr	
1,2-Dichloropropane	"	ND	----	0.0137	"	"	"	"	"	Chr	
Bromodichloromethane	"	ND	----	0.0807	"	"	"	"	"	Chr	
cis-1,3-Dichloropropene	"	ND	----	0.0161	"	"	"	"	"	Chr	
Toluene	"	ND	----	0.0807	"	"	"	"	"	Chr	
4-Methyl-2-pentanone	"	ND	----	0.807	"	"	"	"	"	Chr	
trans-1,3-Dichloropropene	"	ND	----	0.0161	"	"	"	"	"	Chr	
Tetrachloroethene	"	ND	----	0.0242	"	"	"	"	"	Chr	
1,1,2-Trichloroethane	"	ND	----	0.0137	"	"	"	"	"	Chr	
Dibromochloromethane	"	ND	----	0.0807	"	"	"	"	"	Chr	
1,3-Dichloropropane	"	ND	----	0.0161	"	"	"	"	"	Chr	
1,2-Dibromoethane	"	ND	----	0.0807	"	"	"	"	"	Chr	

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Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-10 (BM-SSB)</b>		<b>Soil</b>									
		<b>Sampled: 09/11/09 04:45</b>									
2-Hexanone	EPA 8260B	ND	----	0.807	mg/kg dry	1x	9090138	09/21/09 08:23	09/22/09 14:53	Chr	
Ethylbenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
Chlorobenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
1,1,1,2-Tetrachloroethane	"	ND	----	0.0807	"	"	"	"	"	Chr	
m,p-Xylene	"	ND	----	0.323	"	"	"	"	"	Chr	
o-Xylene	"	ND	----	0.161	"	"	"	"	"	Chr	
Styrene	"	ND	----	0.0807	"	"	"	"	"	Chr	
Bromoform	"	ND	----	0.0807	"	"	"	"	"	Chr	
Isopropylbenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
n-Propylbenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
1,1,2,2-Tetrachloroethane	"	ND	----	0.0137	"	"	"	"	"	Chr	
Bromobenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
1,3,5-Trimethylbenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
2-Chlorotoluene	"	ND	----	0.0807	"	"	"	"	"	Chr	
1,2,3-Trichloropropane	"	ND	----	0.0807	"	"	"	"	"	Chr	
4-Chlorotoluene	"	ND	----	0.0807	"	"	"	"	"	Chr	
tert-Butylbenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
1,2,4-Trimethylbenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
sec-Butylbenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
p-Isopropyltoluene	"	ND	----	0.0807	"	"	"	"	"	Chr	
1,3-Dichlorobenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
1,4-Dichlorobenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
n-Butylbenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
1,2-Dichlorobenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
1,2-Dibromo-3-chloropropane	"	ND	----	0.404	"	"	"	"	"	Chr	
Hexachlorobutadiene	"	ND	----	0.0807	"	"	"	"	"	Chr	
1,2,4-Trichlorobenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	
Naphthalene	"	ND	----	0.161	"	"	"	"	"	Chr	
1,2,3-Trichlorobenzene	"	ND	----	0.0807	"	"	"	"	"	Chr	

<i>Surrogate(s):</i>	<i>Dibromofluoromethane</i>	<i>92.9%</i>	<i>42.7 - 151 %</i>	<i>"</i>	<i>"</i>
	<i>Toluene-d8</i>	<i>98.9%</i>	<i>50.8 - 132 %</i>	<i>"</i>	<i>"</i>
	<i>4-bromofluorobenzene</i>	<i>108%</i>	<i>51 - 136 %</i>	<i>"</i>	<i>"</i>

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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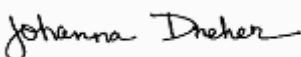


<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Conventional Chemistry Parameters by APHA/EPA Methods**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
<b>ASI0072-01 (BM-ENT 2.5)</b>		<b>Soil</b>			<b>Sampled: 09/11/09 02:10</b>						
% Solids	TA SOP	77.4	----	0.0100	% by Weight	1x	9090124	09/18/09 15:08	09/21/09 09:36	CH	
<b>ASI0072-02 (BM-ENT 5.0)</b>		<b>Soil</b>			<b>Sampled: 09/11/09 02:20</b>						
% Solids	TA SOP	92.7	----	0.0100	% by Weight	1x	9090124	09/18/09 15:08	09/21/09 09:36	CH	
<b>ASI0072-03 (BM-VE11-2.5)</b>		<b>Soil</b>			<b>Sampled: 09/11/09 03:30</b>						
% Solids	TA SOP	88.2	----	0.0100	% by Weight	1x	9090124	09/18/09 15:08	09/21/09 09:36	CH	
<b>ASI0072-04 (BM-VE11-5.0)</b>		<b>Soil</b>			<b>Sampled: 09/11/09 03:40</b>						
% Solids	TA SOP	86.2	----	0.0100	% by Weight	1x	9090124	09/18/09 15:08	09/21/09 09:36	CH	
<b>ASI0072-05 (BM-VMF-2.5)</b>		<b>Soil</b>			<b>Sampled: 09/11/09 04:15</b>						
% Solids	TA SOP	96.2	----	0.0100	% by Weight	1x	9090124	09/18/09 15:08	09/21/09 09:36	CH	
<b>ASI0072-06 (BM-VMF-5.0)</b>		<b>Soil</b>			<b>Sampled: 09/11/09 04:25</b>						
% Solids	TA SOP	90.3	----	0.0100	% by Weight	1x	9090124	09/18/09 15:08	09/21/09 09:36	CH	
<b>ASI0072-07 (BM-SSA)</b>		<b>Soil</b>			<b>Sampled: 09/11/09 04:45</b>						
% Solids	TA SOP	94.3	----	0.0100	% by Weight	1x	9090124	09/18/09 15:08	09/21/09 09:36	CH	
<b>ASI0072-08 (BM-DUP1)</b>		<b>Soil</b>			<b>Sampled: 09/11/09 01:00</b>						
% Solids	TA SOP	94.2	----	0.0100	% by Weight	1x	9090124	09/18/09 15:08	09/21/09 09:36	CH	
<b>ASI0072-10 (BM-SSB)</b>		<b>Soil</b>			<b>Sampled: 09/11/09 04:45</b>						
% Solids	TA SOP	96.8	----	0.0100	% by Weight	1x	9090124	09/18/09 15:08	09/21/09 09:36	CH	

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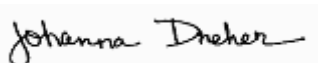
<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results**  
 TestAmerica Spokane

**QC Batch: 9090138**      **Soil Preparation Method: GC/MS Volatiles**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (9090138-BLK1)</b>													<b>Extracted: 09/21/09 08:23</b>	
Dichlorodifluoromethane	EPA 8260B	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	09/21/09 11:30	
Chloromethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Vinyl chloride	"	ND	---	0.00900	"	"	--	--	--	--	--	--	"	
Bromomethane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Chloroethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Trichlorofluoromethane	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethene	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
Carbon disulfide	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Methylene chloride	"	ND	---	0.0910	"	"	--	--	--	--	--	--	"	
Acetone	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,2-Dichloroethene	"	ND	---	0.300	"	"	--	--	--	--	--	--	"	
Methyl tert-butyl ether	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,1-Dichloroethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
cis-1,2-Dichloroethene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
2,2-Dichloropropane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Bromochloromethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chloroform	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Carbon tetrachloride	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
1,1,1-Trichloroethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
2-Butanone	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
1,1-Dichloropropene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
1,2-Dichloroethane (EDC)	"	ND	---	0.0150	"	"	--	--	--	--	--	--	"	
Trichloroethene	"	ND	---	0.0270	"	"	--	--	--	--	--	--	"	
Dibromomethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2-Dichloropropane	"	ND	---	0.0170	"	"	--	--	--	--	--	--	"	
Bromodichloromethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
cis-1,3-Dichloropropene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4-Methyl-2-pentanone	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
trans-1,3-Dichloropropene	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
Tetrachloroethene	"	ND	---	0.0300	"	"	--	--	--	--	--	--	"	
1,1,2-Trichloroethane	"	ND	---	0.0170	"	"	--	--	--	--	--	--	"	
Dibromochloromethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,3-Dichloropropane	"	ND	---	0.0200	"	"	--	--	--	--	--	--	"	
1,2-Dibromoethane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
2-Hexanone	"	ND	---	1.00	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	

TestAmerica Anchorage



Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results**  
 TestAmerica Spokane

**QC Batch: 9090138**      **Soil Preparation Method: GC/MS Volatiles**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (9090138-BLK1)</b>													<b>Extracted: 09/21/09 08:23</b>	
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	---	0.100	mg/kg wet	1x	--	--	--	--	--	--	09/21/09 11:30	
m,p-Xylene	"	ND	---	0.400	"	"	--	--	--	--	--	--	"	
o-Xylene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
Styrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Bromoform	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Isopropylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
n-Propylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,1,2,2-Tetrachloroethane	"	ND	---	0.0170	"	"	--	--	--	--	--	--	"	
Bromobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,3,5-Trimethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
2-Chlorotoluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2,3-Trichloropropane	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
4-Chlorotoluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
tert-Butylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2,4-Trimethylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
sec-Butylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
p-Isopropyltoluene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,3-Dichlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,4-Dichlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
n-Butylbenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2-Dichlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2-Dibromo-3-chloropropane	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Hexachlorobutadiene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
1,2,4-Trichlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.200	"	"	--	--	--	--	--	--	"	
1,2,3-Trichlorobenzene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): Dibromofluoromethane</i>		<i>Recovery:</i>	<i>92.5%</i>	<i>Limits:</i>	<i>42.7-151%</i>	<i>"</i>							<i>09/21/09 11:30</i>	
<i>Toluene-d8</i>			<i>98.8%</i>		<i>50.8-132%</i>	<i>"</i>							<i>"</i>	
<i>4-bromofluorobenzene</i>			<i>104%</i>		<i>51-136%</i>	<i>"</i>							<i>"</i>	

TestAmerica Anchorage

*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results**  
 TestAmerica Spokane

**QC Batch: 9090138**      **Soil Preparation Method: GC/MS Volatiles**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>LCS (9090138-BS1)</b>													<b>Extracted: 09/21/09 08:23</b>	
1,1-Dichloroethene	EPA 8260B	0.308	---	0.0300	mg/kg wet	1x	--	0.350	87.9%	(54.2-150)	--	--	09/21/09 11:58	
Benzene	"	0.322	---	0.0200	"	"	--	"	91.9%	(75.8-122)	--	--	"	
Trichloroethene	"	0.309	---	0.0270	"	"	--	"	88.3%	(78-122)	--	--	"	
Toluene	"	0.328	---	0.100	"	"	--	"	93.8%	(80-124)	--	--	"	
Chlorobenzene	"	0.297	---	0.100	"	"	--	"	84.7%	(80-120)	--	--	"	
<i>Surrogate(s): Dibromofluoromethane</i>		<i>Recovery:</i>	<i>104%</i>	<i>Limits: 42.7-151%</i>		<i>"</i>							<i>09/21/09 11:58</i>	
<i>Toluene-d8</i>		<i>115%</i>		<i>50.8-132%</i>		<i>"</i>							<i>"</i>	
<i>4-bromofluorobenzene</i>		<i>122%</i>		<i>51-136%</i>		<i>"</i>							<i>"</i>	

<b>Matrix Spike (9090138-MS1)</b>													<b>QC Source: SSI0066-05</b>		<b>Extracted: 09/21/09 08:23</b>	
1,1-Dichloroethene	EPA 8260B	0.300	---	0.0386	mg/kg dry	1x	ND	0.286	105%	(58.8-134)	--	--	09/21/09 12:54			
Benzene	"	0.313	---	0.0258	"	"	ND	"	109%	(72-120)	--	--	"			
Trichloroethene	"	0.296	---	0.0348	"	"	ND	"	104%	(71.1-121)	--	--	"			
Toluene	"	0.384	---	0.129	"	"	0.0605	"	113%	(75.6-120)	--	--	"			
Chlorobenzene	"	0.285	---	0.129	"	"	ND	"	99.8%	(75.7-120)	--	--	"			
<i>Surrogate(s): Dibromofluoromethane</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits: 42.7-151%</i>		<i>"</i>							<i>09/21/09 12:54</i>			
<i>Toluene-d8</i>		<i>109%</i>		<i>50.8-132%</i>		<i>"</i>							<i>"</i>			
<i>4-bromofluorobenzene</i>		<i>125%</i>		<i>51-136%</i>		<i>"</i>							<i>"</i>			

<b>Matrix Spike Dup (9090138-MSD1)</b>													<b>QC Source: SSI0066-05</b>		<b>Extracted: 09/21/09 08:23</b>	
1,1-Dichloroethene	EPA 8260B	0.295	---	0.0361	mg/kg dry	1x	ND	0.265	111%	(58.8-134)	1.84%	(26.4)	09/21/09 13:22			
Benzene	"	0.310	---	0.0241	"	"	ND	"	117%	(72-120)	1.05%	(29.5)	"			
Trichloroethene	"	0.295	---	0.0325	"	"	ND	"	111%	(71.1-121)	0.487%	(29.8)	"			
Toluene	"	0.345	---	0.120	"	"	0.0605	"	107%	(75.6-120)	10.6%	(27)	"			
Chlorobenzene	"	0.282	---	0.120	"	"	ND	"	107%	(75.7-120)	1.05%	(26.6)	"			
<i>Surrogate(s): Dibromofluoromethane</i>		<i>Recovery:</i>	<i>107%</i>	<i>Limits: 42.7-151%</i>		<i>"</i>							<i>09/21/09 13:22</i>			
<i>Toluene-d8</i>		<i>113%</i>		<i>50.8-132%</i>		<i>"</i>							<i>"</i>			
<i>4-bromofluorobenzene</i>		<i>125%</i>		<i>51-136%</i>		<i>"</i>							<i>"</i>			

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*Johanna Dreher*

Johanna L Dreher, Client Services Manager

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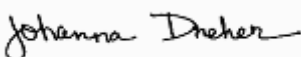
<b>Alaska Resources &amp; Environmental Services</b>	Project Name: <b>Bentley Mall</b>	
P.O. Box 83050	Project Number: [none]	Report Created:
Fairbanks, AK 99708	Project Manager: Lyle Gresehover	09/23/09 15:54

**Conventional Chemistry Parameters by APHA/EPA Methods - Laboratory Quality Control Results**  
 TestAmerica Spokane

**QC Batch: 9090124**      **Soil Preparation Method: Wet Chem**

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
<b>Duplicate (9090124-DUP1)</b>			<b>QC Source: ASI0072-05</b>					<b>Extracted: 09/18/09 15:08</b>							
% Solids	TA SOP	94.7	---	0.0100	% by Weight	1x	96.2	--	--	--	1.57%	(5)	09/21/09 09:36		

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Johanna L Dreher, Client Services Manager

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**Alaska Resources & Environmental Services**

P.O. Box 83050  
Fairbanks, AK 99708

Project Name: **Bentley Mall**  
Project Number: [none]  
Project Manager: Lyle Gresehover

Report Created:  
09/23/09 15:54

## Notes and Definitions

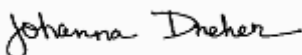
### Report Specific Notes:

Z1 - Surrogate recovery was above acceptance limits.

### Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL\* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Anchorage

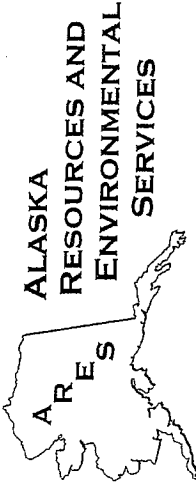


Johanna L Dreher, Client Services Manager

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09/17/09  
 COC Revision #1  
 John - Dub



**ALASKA  
 RESOURCES AND  
 ENVIRONMENTAL  
 SERVICES**

ARES  
 P.O. Box 83050  
 Fairbanks, Alaska 99708  
 Phone: 907.374.3226  
 Fax: 907.374.2319

**Chain of Custody Report**

Client: Alaska Resources and Environmental Services		Invoice To:		Laboratory Name:		Turnaround Request	
Report To: Lyle Greshover ARES P.O. Box 83050 lyle@ak-res.com Phone: (907) 374-3226 Fax: (907) 374-3219		Address: P.O. Box 83050 Fairbanks, Alaska 99708		Address: Test America Inc. 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119		In Business Days	
Project Name: Bentley Mail		Preservative		Organic & Inorganic Analyses		Petroleum Hydrocarbon Analyses	
Project Number: Mike Hodges		Requested Analyses		Specify Other:		Report Tier Levels: Tier II reporting requested (results + QC)	
Sampled By:		METH		N/A		N/A	
		AK 101		AK 102		AK 103	
		GR0/BTEX		EPA 821B		EPA 826B	
		VOC		X		X	
Sample Identification		Sampling Date/Time		Date		Time	
1. BM-ENT 2.5		09/11/2009 2:10		09/15/09		1400	
2. BM-ENT 5.0		09/11/2009 2:20		Date:		Time:	
3. BM-VE11-2.5		09/11/2009 3:30		Date:		Time:	
4. BM-VE11-5.0		09/11/2009 3:40		Date:		Time:	
5. BM-VMF-2.5		09/11/2009 4:15		Date:		Time:	
6. BM-VMF-5.0		09/11/2009 4:25		Date:		Time:	
7. BM-SSA <del>2.5</del>		09/11/2009 4:45		Date:		Time:	
8. BM-DUPI		09/11/2009 1:00		Date:		Time:	
9. BM-SSB		09/11/09 4:45		Date:		Time:	
10.				Date:		Time:	
Released By:		Firm: ARES		Received By:		Firm:	
Print Name: Dustin Stahl		Date: 09/15/09		Print Name: Kelsey Gerberatt		Date: 9/16/09	
Released By:		Time: 1400		Firm: TA Inc		Time: 12:00	
Print Name:		Date:		Received By:		Date:	
Additional Remarks:		Time:		Print Name:		Time:	
Standard TAT on all samples with exception of sample ID BM-SSA-B with 5-day TAT requested.		Firm:		Firm:		Temp: 3.7°C	
COC REV 09/20/08		Sample ID BM-SSB		09/17/09		Page 1 of 1	



**ALASKA  
RESOURCES AND  
ENVIRONMENTAL  
SERVICES**

ARES  
P.O. Box 83050  
Fairbanks, Alaska 99708  
Phone: 907.374.3226  
Fax: 907.374.2319

**Chain of Custody Report**

Client: Alaska Resources and Environmental Services		Invoice To:		Laboratory Name:		Turnaround Request	
Report To: Lyle Gresehover ARES P.O. Box 83050 lyle@ak-res.com Phone: (907) 374-3226 Fax: (907) 374-3219		P.O. Box 83050 Fairbanks, Alaska 99708 P.O. Number:		Address: Test America Inc. 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119		In Business Days Organic & Inorganic Analyses	
Project Name: Bentley Mall		METH		Preservative		Petroleum Hydrocarbon Analyses	
Project Number: Mike Hodges		N/A		N/A		5 4 3 2 1 <1	
Sampled By:		N/A		N/A		Specify Other: Report Tier Levels: Tier II reporting requested (results + QC)	
Sample Identification		AK 101 GR0/BTEX		AK 102 DR0		Matrix (W,S,O)	
Sampling Date/Time		AK 103 RRO		EPA 8021B BTEX		# of Cont.	
1. BM-ENT 2.5		09/11/2009 2:10		EPA 8260B VOC		Location / Comments	
2. BM-ENT 5.0		09/11/2009 2:20		X		Lab ID	
3. BM-VE11-2.5		09/11/2009 3:30		X			
4. BM-VE11-5.0		09/11/2009 3:40		X			
5. BM-VMF-2.5		09/11/2009 4:15		X			
6. BM-VMF-5.0		09/11/2009 4:25		X			
7. BM-SSA-B		09/11/2009 4:45		X			
8. BM-DUPI		09/11/2009 1:00		X			
9.							
10.							
Released By:		Date: 09/15/09		Received By:		Date: 9/16/09	
Print Name: Dustin Stahl		Firm: ARES		Time: 1400		Time: 12:00	
Print Name:		Firm:		Print Name: Kelsey Gresehover		Firm: T/A Inc	
Print Name:		Firm:		Print Name:		Firm:	
Additional Remarks:		Standard TAT on all samples with exception of sample ID BM-SSA-B with 5-day TAT requested.		Temp: 5.7°C		Page 1 of 1	

# Test America Anchorage Cooler Receipt Form

(Army Corps. Compliant)

WORK ORDER # AS10072 CLIENT: ARCS PROJECT: Bentley Mall

Date /Time Cooler Arrived 9 / 16 / 09 12 : 00 Cooler signed for by: Kelsey Gerbrandt  
(Print name)

## Preliminary Examination Phase:

Date cooler opened:  same as date received or      /      /     

Cooler opened by (print) Kelsey Gerbrandt (sign) [Signature]

1: Delivered by  ALASKA AIRLINES  Fed-Ex  UPS  NAC  LYNDEN  CLIENT  Other:     

Shipment Tracking # if applicable 027 FAI 7195 9355 (include copy of shipping papers in file)

2. Number of Custody Seals 1 Signed by See back Date 9 / 15 / 09

Were custody seals unbroken and intact on arrival?  Yes  No

3. Were custody papers sealed in a plastic bag?  Yes  No

4. Were custody papers filled out properly (ink, signed, etc.)?  Yes  No

5. Did you sign the custody papers in the appropriate place?  Yes  No

6. Was ice used?  Yes  No Type of ice:  blue ice  gel ice  real ice  dry ice Condition of Ice: Solid

Temperature by Digi-Thermo Probe 3.7 °C Thermometer # Rec 5

Acceptance Criteria: 0 - 6°C

7. Packing in Cooler:  bubble wrap  styrofoam  cardboard  Other:     

8. Did samples arrive in plastic bags?  Yes  No

9. Did all bottles arrive unbroken, and with labels in good condition?  Yes  No

10. Are all bottle labels complete (ID, date, time, etc.)  Yes  No

11. Do bottle labels and Chain of Custody agree?  Yes  No

\* Trip Blank not on CoC  
\* See Phone Record

12. Are the containers and preservatives correct for the tests indicated?  Yes  No

13. Conoco Phillips, Alyeska, BP H2O samples only: pH < 2?  Yes  No  N/A

14. Is there adequate volume for the tests requested?  Yes  No

15. Were VOA vials free of bubbles?  N/A  Yes  No

If "NO" which containers contained "head space" or bubbles?     

## Log-in Phase:

Date of sample log-in 9 / 17 / 09

Samples logged in by (print) Kelsey Gerbrandt (sign) [Signature]

1. Was project identifiable from custody papers?  Yes  No

2. Do Turn Around Times and Due Dates agree?  Yes  No

3. Was the Project Manager notified of status?  Yes  No

4. Was the Lab notified of status?  Yes  No

5. Was the COC scanned and copied?  Yes  No

AS10072

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING  
283388

# ANG

Goldstreak

027 FAI 7195 9355

AS	190	ANC	1700				



Goldstreak

Goldstreak

Date	15 SEP 09	SHIPPER	PHONE #
Pieces	1	CONSIGNEE	PHONE #
Total Weight	26		9075639200
Piece Weight			
Box Number	1		

**Custody Seal**

DATE 9/15/2009  
SIGNATURE [Signature]

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING  
283388