

**FINAL
ADDITIONAL MONITORING AND RISK EVALUATION
FORMER TRAILSIDE GENERAL STORE
HOMER, ALASKA**

PROJECT # 005.0065.05003

Prepared for

Alaska Department of Environmental Conservation
Spill Prevention and Response
Contracts and Grants Unit
555 Cordova Street
Anchorage, Alaska 99501

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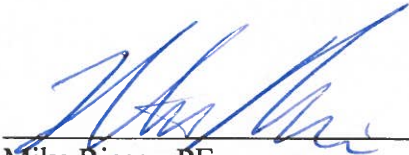
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HOMER, ALASKA**

This document has been prepared by SLR International Corp. The material and data in this report were prepared under the supervision and direction of the undersigned.



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ACRONYMS

AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
BTEX	benzene, toluene, ethylbenzene, and xylenes
GRO	gasoline range organics
LIO	Legislative Information Office
$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MRL	method reporting limit
ND	not detected
NIOSH	National Institute for Occupational Safety and Health
QA/QC	quality assurance/quality control
REL	recommended exposure limit
SLR	SLR Alaska
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
UST	underground storage tank
VOCs	volatile organic compounds

1 INTRODUCTION

SLR Alaska (SLR) was contracted by the Alaska Department of Environmental Conservation (ADEC) to conduct additional assessment at the former Trailside General Store site in Homer, Alaska. Site work, which included a site inspection and collecting air and ground water samples, was carried out in November 2005.

1.1 Objectives

The objectives of the additional assessment were to:

- Collect ground water samples from all remaining ground water monitoring wells at the site and collect a sample of water from the ground water interceptor and diversion system collector tank.
- Compare the analytical data from the ground water interceptor and diversion system tank sample to ADEC ground water cleanup levels, as contained in Alaska Administrative Code (AAC), Chapter 18, Section 75 (18 AAC 75), Table C, to allow ADEC to evaluate if water treatment is necessary prior to water re-injection.
- Evaluate the analytical data from the monitoring well ground water samples to determine if additional corrective action is required to prevent contaminant migration to adjacent down-gradient properties and structures.
- Inspect the Trailside General Store building for indoor sources of volatile aromatic hydrocarbons, hereafter termed volatile organic compounds (VOCs), from sources such as fuel storage tanks, heating oil tanks, or other materials at the site prior to collecting air samples.
- After potential indoor sources of VOCs are identified, remove the sources and then collect time weighted average samples of indoor and outdoor air.
- Use the results of the ground water and air analyses to prepare a qualitative evaluation of the risk to potential human and environmental receptors.
- Use the results of the sampling and qualitative risk evaluation to make recommendations regarding the need for additional soil, ground water, or air characterization or corrective action at this site.

2 BACKGROUND

The site history, regional setting, and applicable regulatory and human health risk criteria are detailed below.

2.1 Historical Overview

The Trailside site is the former location of a convenience store and retail gasoline station. The current use of the property includes a video rental shop, with offices present on the upper level of the building.

The former Trailside General Store is located adjacent to the Sterling Highway, which is the main corridor for traffic on the Kenai Peninsula. The properties surrounding the site are commercial properties adjacent to the Sterling highway, with commercial/residential properties located south of the property, away from the Sterling highway. A site map showing relevant site features is included as Figure 1.

The following description of the historical site use, site assessment, and remedial actions at the Trailside General Store is taken from Shannon and Wilson (2004).

The Trailside General Store operated a regulated underground storage tank (UST) system for approximately 15 years. The two 12,000-gallon gasoline USTs and associated dispensers were installed in 1984. In the spring of 1999, a gasoline release was observed between the UST systems and the Trailside General Store building. The two USTs and associated piping and dispensers were removed from the ground in May 1999. During the fuel system decommissioning process, approximately 125 cubic yards of petroleum hydrocarbon impacted soil were excavated and stockpiled on site. A release investigation was conducted by Alaska Lining and Retrofit to assess the extent of contamination. The release investigation included installing and sampling 14 ground water monitoring wells. Elevated petroleum hydrocarbon constituents were identified in five of the monitoring wells. Free phase product was also observed in at least two of the monitoring wells.

As a corrective action measure, approximately 5,000 cubic yards of impacted soil were excavated and removed off-site. It was estimated that 750 cubic yards of contaminated soil remained both to the north and west of the excavation, for a total of approximately 1,500 cubic yards remaining at the site. The impacted soil excavation was not backfilled by the contractor. Four of the 14 monitoring wells were decommissioned or damaged during the excavation activities. Based on ground water sampling results conducted in July 2000, up to 27 milligrams per liter (mg/L) benzene, 52.3 mg/L toluene, 3.15 mg/L ethylbenzene, 23.08 mg/L xylenes, and 227 mg/L gasoline range organics (GRO) were reported in the samples

collected from the 10 remaining on-site monitoring wells. Separate-phase product was observed in monitoring well MW-9, prior to purging.

In the fall of 2000, Shannon & Wilson was contracted by the ADEC to dewater the open excavation; remove the impacted soil left along the north and west sidewalls of original building; and backfill, compact, and grade the excavation. After the excavation pit was stabilized, approximately 1,600 cubic yards of additional gasoline contaminated soil was removed, mostly to the north and west of the stabilized pit. Analytical soil samples from the excavation sidewalls were used to characterize the soil remaining in-place. Seven of the eight project samples collected from along the north and west property boundaries contained at least one target analyte exceeding the applicable cleanup criteria. The higher contaminant concentrations were detected in soil samples collected from the north sidewall of excavation, with levels of up to 125 milligrams per kilogram (mg/kg) benzene, 607 mg/kg toluene, 104 mg/kg ethylbenzene, 544 mg/kg xylenes, and 3,970 mg/kg GRO.

In 2003, Shannon & Wilson advanced five hand borings, installed and sampled a replacement monitoring well, collected indoor air quality samples, collected a grain size sample of subsurface soil, and evaluated the soil near the building foundation for potential contamination (Shannon & Wilson, 2004). Ground water sampling results indicated that impacted ground water remained at the site. Petroleum-impacted soil, as evidenced by field screening, was encountered on the west side of the building in one of the hand auger borings (HB-5). Two of the eight indoor air quality samples contained detectable benzene concentrations, although it was unclear if the detected benzene levels were from the contents of paint and cleaning containers, or the petroleum hydrocarbon contamination documented in subsurface soil and ground water at the site. Both of the indoor air benzene concentrations were less than the National Institute for Occupational Safety and Health (NIOSH) recommended exposure limit (REL).

2.2 Regional Setting

The City of Homer is located on the Kenai Peninsula in South-central Alaska (Figure 1). The former Trailside General Store is located at the southeast corner of the intersection of the Sterling Highway and Bowers Street. The site is located in the southwest ¼ of Section 19, Township 6 South, Range 13 West, Alaska (USGS, 1987). A vicinity map showing the site location is included as Figure 1.

2.2.1 Regional and Local Geology

The subsurface materials at the site generally consist of brown to gray, sandy, silt to silty gravel (Shannon & Wilson, 2004). The surficial geology in the area consists of glacial-lacustrine deposits of proglacial lake-bottom and deltaic sediments, principally poorly sorted clay and silt with sand at the base of the deposit (Waller, Feulner, and Morris, 1968). Water yields for wells completed in these sediments ranges from 5 to 25 gallons per minute.

Shallow water at the site is encountered at approximately 3 to 6 feet below ground surface (Shannon & Wilson, 2004).

2.3 Regulatory Criteria

The applicable ground water and air regulatory criteria are discussed as follows:

2.3.1 Ground Water Regulatory Criteria

ADEC ground water cleanup levels, as specified in 18 AAC 75.345, Table C, are applicable to this site. The ground water cleanup levels for applicable compounds previously found to be present in ground water at the Trailside site are:

- Benzene, 0.005 mg/L
- Toluene, 1.0 mg/L
- Ethylbenzene, 0.7 mg/L
- Xylenes, 10.0 mg/L
- GRO, 1.3 mg/L

The screening criteria applicable to ground water at the Trailside Site for volatilization from ground water to indoor air are taken from the USEPA Vapor Intrusion Guidance (USEPA, 2002) for the volatile aromatic hydrocarbon compounds present at the Trailside General Store site:

- Benzene, 0.014 mg/L
- Toluene, 1.5 mg/L
- Ethylbenzene, 0.7 mg/L
- Xylenes, 22 mg/L (p-xylene value, lowest value of m-xylene, o-xylene, and p-xylene)

2.3.2 Air Criteria

The screening criteria applicable to indoor air at the Trailside Site are taken from the USEPA Vapor Intrusion Guidance (USEPA, 2002) for the volatile aromatic hydrocarbon compounds present at the Trailside General Store site:

- Benzene, 3.1 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)
- Toluene, 400 $\mu\text{g}/\text{m}^3$
- Ethylbenzene, 22 $\mu\text{g}/\text{m}^3$
- Xylenes, 7,000 $\mu\text{g}/\text{m}^3$

- Naphthalene, 3.0 $\mu\text{g}/\text{m}^3$

These criteria, which are based on residential land use, target the ADEC excess cancer risk of 1×10^{-5} and a hazard quotient of one for noncancer effects. Commercial-based criteria would be higher than these values, given their shorter exposure duration (25 years compared with 30 years for a resident) and lower exposure frequency (250 days/year compared with 350 days/year for a resident). These differences imply that occupationally-based criteria would be 68% higher than those for residential ($350/250 \times 30/25$). These occupationally-based criteria, adjusting for occupational exposure are as follows:

- Benzene, 5.2 $\mu\text{g}/\text{m}^3$
- Toluene, 670 $\mu\text{g}/\text{m}^3$
- Ethylbenzene, 37 $\mu\text{g}/\text{m}^3$
- Xylenes, 11,750 $\mu\text{g}/\text{m}^3$
- Naphthalene, 5.0 $\mu\text{g}/\text{m}^3$

3 ENVIRONMENTAL SITE ASSESSMENT AND SAMPLING ACTIVITIES

SLR personnel conducted a brief site assessment and subsequent ground water and air quality sampling at the site on November 4 and 5, 2005. Ground water and air samples were collected as described below.

3.1 Ground Water Sampling Methods

Prior to sampling, SLR personnel measured the depth to water, checked for the presence of free-phase hydrocarbons, and purged at least three well casing volumes from each well using a new, disposable polyethylene bailer. Field measurements of temperature, pH, and total dissolved solids were recorded on the Well Sampling Calculation and Record Sheet (Appendix A) during the removal of each casing volume of purge water. All SLR personnel performing sampling were ADEC qualified persons, as defined by 18 AAC 78.995 (118).

Ground water samples were collected from five monitoring wells (MW-1, MW-3, MW-4, MW-7, and MW-12) and one ground water interceptor and diversion system collector tank (Tank). A duplicate sample was collected at MW-4, which is the monitoring well that historically had the highest hydrocarbon concentrations. Ground water samples were collected starting with the well with the lowest historical ground water hydrocarbon concentrations (MW-1, MW-3, MW-7, and MW-12) and ending with the well with the highest historical concentration (MW-4). The ground water level and interface probe were decontaminated between wells with a Liquinox[®] wash and a deionized water rinse. New individually-packaged polyethylene bailers and disposable nitrile[®] gloves were used for sampling each monitoring well. The well caps and locks on wells were replaced after sampling was complete as the existing locks were found to be too corroded to open. All investigation-derived waste was disposed of in a solid waste receptacle at the site and purge water was containerized on-site pending receipt of ground water laboratory analytical results.

The locations of the monitoring wells are shown on Figure 2. The current elevations of the tops of the well casings are not known, so it was not possible to prepare a generalized ground water flow direction for the site.

Well Sampling Calculation and Record Sheets are presented as Appendix A, field notes are included as Appendix B, and a photographic log of sampling locations is presented as Appendix C.

3.2 Ground Water Analytical Methods

Ground water samples collected from the wells were sent to an ADEC-approved laboratory and analyzed by the following methods:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX) using USEPA Method 8021B
- GRO using Alaska Method 101

All method reporting limits were appropriate for ADEC ground water cleanup levels. Field duplicate samples were collected at a frequency of 10 percent of the total number of samples collected. Trip blanks for each of the ground water sampling parameters accompanied the shipment of containers to and from the site and were analyzed with the ground water samples. Laboratory analytical reports are included in Appendix D.

3.3 Air Quality Sampling Methods

The Trailside building was inspected for any indoor sources of VOCs. Most sources were not present in the building, though SLR personnel did request several containers of ordinary household cleaning supplies to be removed from the premise prior to any air sampling. The entire first floor was closely inspected to examine for cracks, separations, or construction features that would allow vapors from the soil beneath the floor to intrude into the building. Inspection by SLR personnel did not reveal any cracks, separations, or other openings in the ground level floor.

After evaluation for sources of VOCs in indoor air, air samples were collected using laboratory-prepared containers equipped with regulators to collect the samples over a 12-hour period in order to obtain time-weighted average concentrations. The samples from the building interior were placed at a height of approximately 3 feet above the floor level to evaluate the breathing zone. The building interior samples were collected from the ground floor only of the building. Field duplicate samples were collected at a frequency of ten percent (10%). The sample locations are described below:

- One sample was collected from the north room of the Legislative Information Office (LIO), with the canister placed directly in the middle of a carpeted conference room.
- One sample was collected from a currently un-rented office space, in the bathroom along the east end of the building.
- Two samples were collected (one was a duplicate sample) in the video rental space, near the business counter.
- One outdoor air sample was collected from approximately ten feet from the main door to the building, on the north side of the lot (facing the Sterling Highway).

The air sample locations are shown on Figure 3. The samples were collected during nighttime hours, between 10:00PM on Friday, November 4 and 10:00AM on Saturday, November 5.

An anomaly in sampling activities when compared with the procedures outlined in the sampling plan occurred during collection of the exterior air sample and the two air samples in the video store. All three of these air canisters had no vacuum remaining after the 12-hour collection period. Under normal operation, a residual vacuum of approximately 5 inches of mercury is expected. All three of these sample canisters had full vacuum at the time the air sampling started. SLR contacted Air Toxics Ltd., the contract laboratory for the air analyses, and asked that the calibration of the regulators for these three air samples be verified. Air Toxics Ltd. verified the three regulators were correctly calibrated, as recorded in the laboratory analytical report narrative (Appendix B). Given the proper operation of the regulators and the correct initial vacuum in the canisters, the most likely reason the vacuum in these canisters was depleted before the end of the 12-hour sampling period was the ambient temperature. The regulators are volume air flow regulators, and the low overnight ambient temperature at the exterior sample location, as well as the video store sample location which was near the doorway and adjacent to the exterior windows during night hours when the heating system was off (Figure 3 and Appendix D, Photo 10) would allow a greater mass of cool dense air to enter the canister than would be the case at normal indoor temperatures. When the air canisters were warmed later in the day, the relative pressure in the air canisters increased, reducing the vacuum with respect to atmospheric pressure.

Laboratory analytical reports are included in Appendix B, field notes are included as Appendix C, and a photographic log of sampling locations is presented as Appendix C.

3.4 Air Quality Analytical Methods

Samples were sent for laboratory analysis for the following compounds:

- BTEX plus naphthalene using a modified USEPA Method TO-15

All method reporting limits were appropriate for commercial indoor air quality. Field duplicate samples were collected at a frequency of 10 percent of the total number of samples collected. Laboratory analytical reports are included in Appendix D.

4 FINDINGS

The findings from the air and ground water sampling, as well as the potential risk posed by the concentrations found, are discussed as follows.

4.1 Indoor Air Quality

The indoor air concentrations of toluene, ethylbenzene, and xylenes found in the air samples collected from the ground floor of the Trailside building were well below both the residential and occupationally-derived health-based screening criteria for indoor air as established by USEPA (2002). Benzene concentrations were all below the occupational value of $5.2 \mu\text{g}/\text{m}^3$; two of the five samples slightly exceeded the residential-based target of $3.1 \mu\text{g}/\text{m}^3$. These two results ($3.7 \mu\text{g}/\text{m}^3$ and $3.8 \mu\text{g}/\text{m}^3$) were from the primary and duplicate samples collected from the video store. The soil below the video store corresponds to the part of the building that would be anticipated to be most impacted from the historical release based on regional topography and implied ground water flow direction with respect to the historical location of the USTs (Figures 1 and 2). The average indoor air benzene concentration across all samples was $2.4 \mu\text{g}/\text{m}^3$, which is below both screening criteria. Benzene was detected in the ambient outdoor sample at a concentration of $1.3 \mu\text{g}/\text{m}^3$. Therefore, it can be concluded that approximately half of the benzene in indoor air is due to ambient background (e.g., car exhaust). Naphthalene was not detected in any sample, with detection limits approximately equal to the residential screening level and below the occupational screening level.

The video store has four operational ceiling fans; all of which were off during the sampling period. Therefore, ventilation was lower than normal during the sampling event, which should provide a conservative estimate of typical indoor air concentrations during the store operating hours. The current building use is commercial, and no residences are located within the structure. Subtracting the ambient benzene concentration detected in outdoor air from the indoor results, the maximum benzene concentration was $2.5 \mu\text{g}/\text{m}^3$. This benzene result could be a result of contamination remaining in the soil beneath the building, but the concentration is below both commercial and residential screening criteria. As a result, indoor air concentrations of BTEX under current land use appear to be below levels of concern to human health.

4.2 Ground Water Quality

The results of the ground water sample analyses of the water samples collected from monitoring wells MW-1, MW-2, MW-4, MW-7, and MW-12, as well as the sample collected

from the ground water interceptor and diversion system tank, indicated that only ground water at MW-4 contained concentrations of petroleum hydrocarbon above ADEC ground water cleanup levels. Benzene was detected in the primary and duplicate sample collected from MW-4 at concentrations of 0.00847 mg/L and 0.00901 mg/L respectively, which exceed the ADEC ground water cleanup level of 0.005 mg/L. The only other ground water hydrocarbon compounds detected was xylenes, also in the samples collected from MW-4, at concentrations of 0.0031 mg/L and 0.004 mg/L in the primary and duplicate sample, respectively. Both of the xylenes detections were below the ADEC ground water cleanup level. As ground water is not used for a drinking water source in the immediate area, the benzene ground water cleanup level exceedance at MW-4 is not likely to pose a risk to human health.

The ground water hydrocarbon detections were also compared to the screening criteria for volatilization and intrusion to indoor air (USEPA, 2002). The residential screening criteria were used as the ground water may migrate to a residential receptor, and are included on Table 1. The ground water benzene and xylenes concentrations at MW-4 were below the screening criteria, although one historical benzene detection from a sample collected from MW-4 in June 2003 was above the screening criteria. The current ground water BTEX concentrations appear to be below levels of concern to human health from inhalation of hydrocarbons volatilized from ground water and migrating to indoor air.

Finally, the ground water analytical results were compared to the ADEC surface water quality standards (18 AAC 70). This comparison was done as the shallow ground water in the area may discharge to springs on the hillside. The most appropriate water quality criterion for a known gasoline discharge is total aromatic hydrocarbon (TAH). The ADEC TAH surface water quality standard is 0.010 mg/L. The TAH concentration in monitoring well MW-4 for the primary and duplicate sample, as estimated from the sum of the BTEX constituents, is 0.012 mg/L and 0.013 mg/L, respectively, slightly exceeding the surface water quality standard.

5 RECOMMENDATIONS

It is recommended that focused ground water monitoring continue at the site, particularly at monitoring well MW-4. The source of the ground water contamination at MW-4 may be contaminated soil known to remain below Bowers Street, and continued monitoring is recommended as an effort to ensure that the ground water BTEX concentrations are stable or decreasing.

It is also recommended that an elevation survey be conducted on the monitoring wells to be able to obtain ground water elevations, and from this to derive the ground water flow direction and gradient. This information could help to verify if monitoring well MW-4 is in fact in the true downgradient location from the remaining contaminated soil present below Bowers Street.

It is further recommended that a minimum of one additional ground water monitoring well be installed downgradient of MW-4 to determine if BTEX constituents in ground water are migrating to surface water or locations of potential future ground water pumping wells at concentrations above ADEC water quality standards or ground water cleanup levels. The actual location of this ground water monitoring well should be determined based on the apparent ground water flow direction derived from the elevation survey.

REFERENCES

- Shannon & Wilson, 2004. *Release Investigation and Site Risk Evaluation, Trailside General Store, Homer, Alaska*. Prepared for ADEC by Shannon & Wilson, Inc., Anchorage, Alaska. January.
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LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

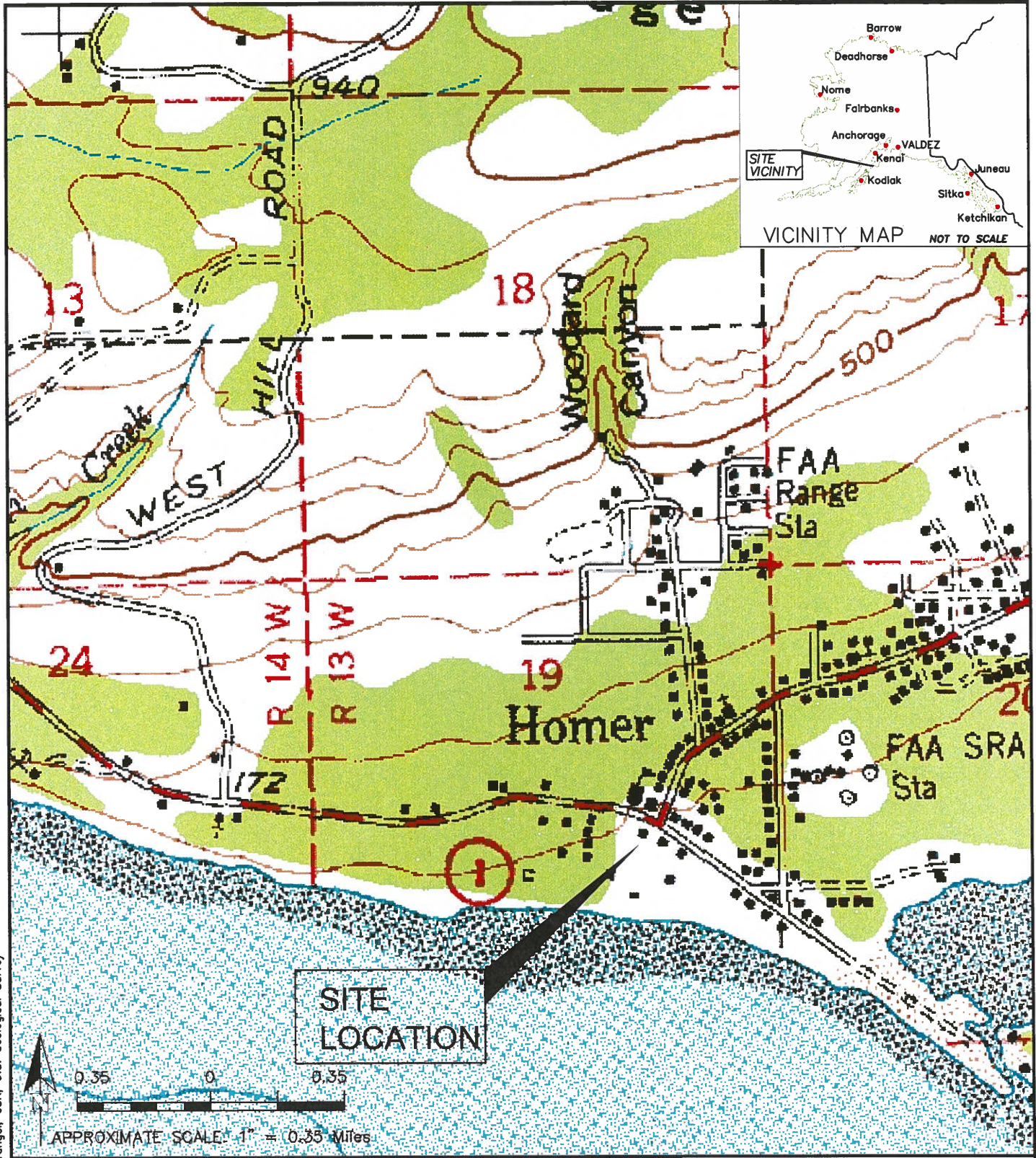
The purpose of an environmental assessment is to reasonably evaluate the potential for or actual impact of past practices on a given site area. In performing an environmental assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an exhaustive analysis of each conceivable issue of potential concern. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to exclude the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not therefore be construed as a guarantee of the absence of such materials on the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

Environmental conditions may exist at the site that cannot be identified by visual observation. Where subsurface work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

Except where there is express concern of our client, or where specific environmental contaminants have been previously reported by others, naturally occurring toxic substances, potential environmental contaminants inside buildings, or contaminant concentrations that are not of current environmental concern may not be reflected in this document.

FIGURES



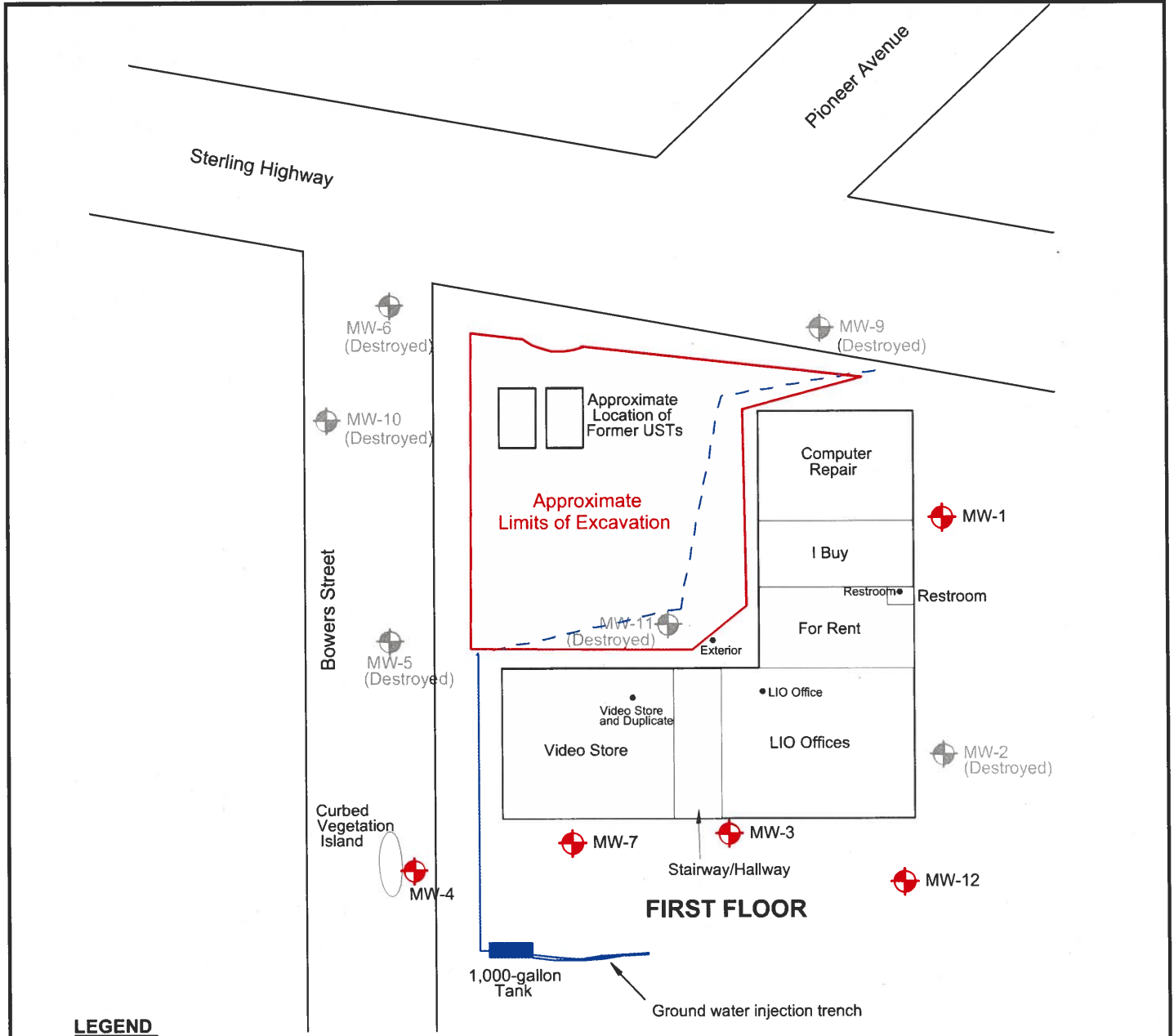
Reference: Seldovia (C-5) NE Quadrangle, 63K, U.S. Geological Survey

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2005 ADDITIONAL MONITORING AND RISK EVALUATION REPORT
 FORMER TRAILSIDE GENERAL STORE
 HOMER, ALASKA

CLIENT: Alaska Department of Environmental Conservation

SITE LOCATION MAP		APPROX. SCALE:	REVISION:	FIGURE:
PROJECT MANAGER: M. RIESER	APPROVED: M. RIESER	1" = .35 Miles	0	1
PROJECT NO.: 005.0065.05003	DRAWN: K. PAUK	DATE: DECEMBER 2005	FILE: s\proj.\adec\gen.store\fig	

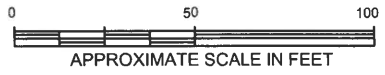


LEGEND

- MW-1 Approximate location of Monitoring Wells
- Restroom Air Sample Locations
- Perforated ground water interception drain
- Non-perforated conveyance piping

NOTE: Original drawing created in color. Some information may be lost if copied or printed in black and white.

SKETCH ONLY
NOT TO SCALE



Reference: Shannon & Wilson file no. 32-1-16710, May 2003



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2005 ADDITIONAL MONITORING AND RISK EVALUATION REPORT
 FORMER TRAILSIDE GENERAL STORE
 HOMER, ALASKA

SITE LAYOUT

CLIENT: Alaska Department of Environmental Conservation

PROJECT MANAGER: M. RIESER	APPROVED: M. RIESER	DESIGNED: M. RIESER	APPROX. SCALE: 1" = 50'	REVISION: 0	FIGURE: 2
PROJECT NO.: 005.0065.05003	DRAWN: K. PAUK	DATE: DECEMBER 2005	FILE: s\proj.\adec\gen.store\fig		

TABLES

Table 1
 Ground Water Sample Analytical Results
 Trailside General Store
 Homer, Alaska
 (all units in mg/L)

Sample Location	Sample Identification	Sample Date	GRO Alaska Method 101	USEPA Method 8021B			
				Benzene	Toluene	Ethylbenzene	Xylenes (total)
MW-1	MW-1	6/19/2003	ND (0.05)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0015)
	MW-1	11/4/2005	ND (0.05)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0015)
MW-3	MW-3	6/19/2003	ND (0.05)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0015)
	MW-3	11/4/2005	ND (0.05)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0015)
MW-4	MW-4	6/19/2003	ND (0.05)	0.0207	ND (0.0005)	ND (0.0005)	0.00647
	MW-4	11/4/2005	ND (0.05)	0.00847	ND (0.0005)	ND (0.0005)	0.0031
	MW-Dup	11/4/2005	ND (0.05)	0.00901	ND (0.0005)	ND (0.0005)	0.004
MW-7	MW-7	6/19/2003	ND (0.05)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0015)
	MW-7	11/4/2005	ND (0.05)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0015)
MW-12	MW-12	6/19/2003	ND (0.05)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0015)
	MW-12	11/4/2005	ND (0.05)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0015)
Tank	Tank	6/19/2003	ND (0.05)	ND (0.0005)	ND (0.0005)	ND (0.0005)	0.00202
	Tank	11/4/2005	ND (0.05)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0015)
Dup (see note 1)	Dup	6/19/2003	ND (0.05)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0015)
ADEC Ground Water Cleanup Level			1.3	0.005	1	0.7	10
USEPA Ground Water Inhalation Screening Level			NA	0.014	1.5	0.7	22*

Notes:

Bold numbers exceed ADEC ground water cleanup levels

Underlined numbers exceed USEPA Ground Water Vapor Intrusion Guidance Level (residential).

GRO - gasoline range organics

mg/L - milligrams per liter

ND - not detected

(1) - Parent sample from duplicate taken on 06/19/2003 not identified.

NA - not applicable

* - p-xylene value, lowest of m-xylene, o-xylene, and p-xylene values

Table 2
Air Sample Analytical Results
Former Trailside General Store
Homer, Alaska
(all units in ug/m³)

Sample Location	Sample Identification	Date Sampled	Modified USEPA Method TO-15				
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene
Bathroom	Bathroom	11/04/05 - 11/05/05	2.0	5.3	0.80	4.1	ND (4.4)
LIO Front	LIO Front	11/04/05 - 11/05/05	1.6	3.9	1.0	4.8	ND (4.4)
Video Store	Video Store	11/04/05 - 11/05/05	3.7	11	10	56	ND (3.4)
Exterior	Exterior	11/04/05 - 11/05/05	1.3	2.3	ND (0.52)	0.99	ND (3.2)
Video Store	Air Dup	11/04/05 - 11/05/05	3.8	15	12	64	ND (3.6)
USEPA Vapor Intrusion Guidance Levels (residential)			3.1	400	22	7000	3.0
USEPA Vapor Intrusion Guidance Levels (commercial)^a			5.2	670	37	11750	5.0

Notes:

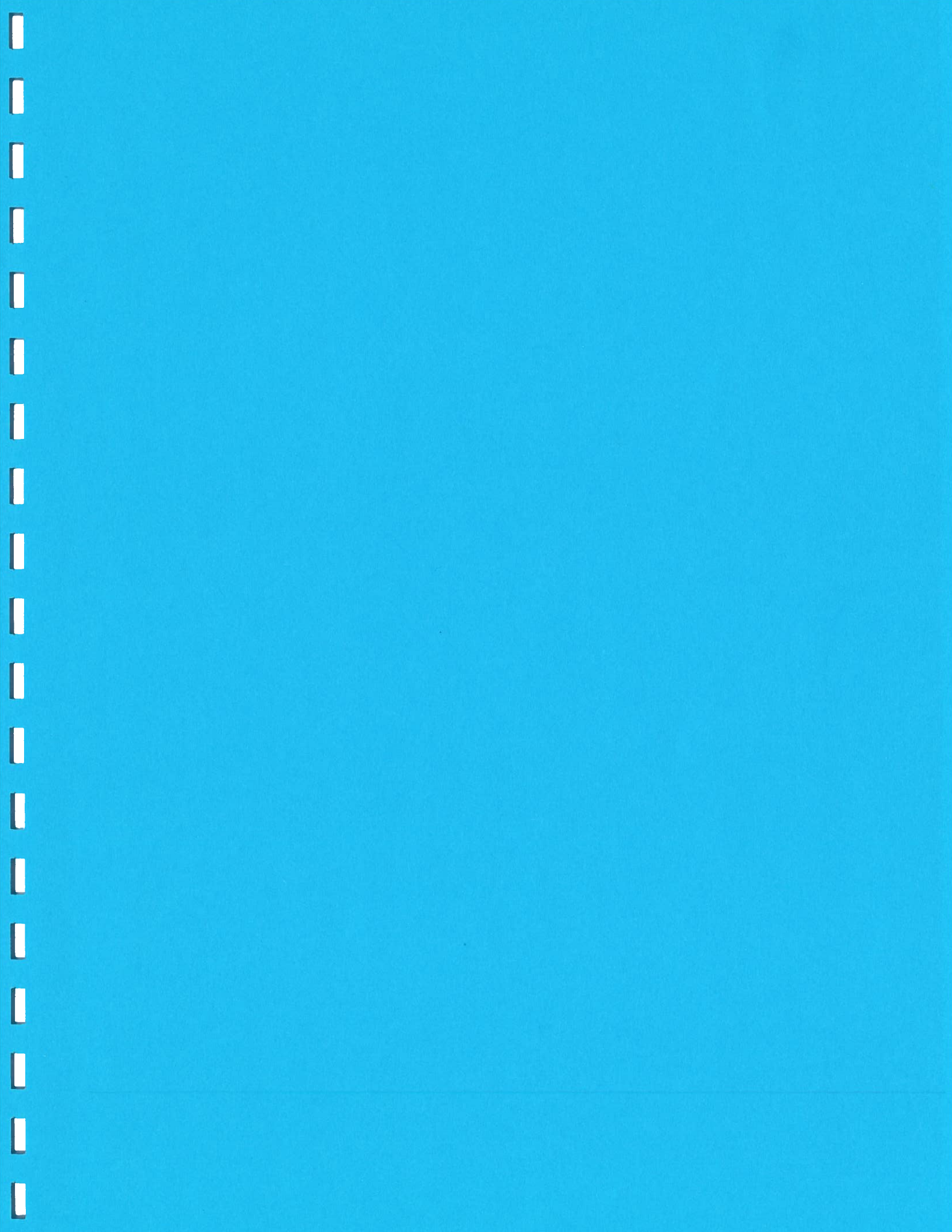
Bold numbers are samples with detected concentrations exceeding USEPA Vapor Intrusion Guidance Level (residential).

ug/m³ - micrograms per cubic meter

ND - not detected above method reporting limit

(0.52) - method reporting limit

^a - Extrapolated using relative exposure frequency and duration for a worker relative to a resident.



APPENDIX A

**WELL SAMPLING CALCULATION
AND RECORD SHEETS**



2525 Blueberry Road
 Suite 206
 Anchorage, Alaska 99503
 phone (907) 222-1112
 fax (907) 222-1113

Well Sampling Calculation and Record Sheet

Client: ADEC
 Site Name: Trailside
 SLR Employee: R. Mcghee

Well Number: MW-1
 SLR Project #: 005,0065.05003
 Date: 11/4/05

COLUMN OF WATER IN WELL

Well Casing Diameter (inches): 2" Filter Pack Diameter (if known [inches]) _____
 Sounding Depth of Well (from top of casing [feet]) 12.10
 Static Water Depth (from top of casing [feet]) 2.75
 Column of water in well (feet) 9.35
 Time Waterlevels Measured: 0840

VOLUME TO BE PURGED

(3 well casing volumes only, unless otherwise specified)

Gallons per foot of filter pack (on reverse) = _____
 Column of water in filter pack x _____
 Volume of water column in filter pack = _____
 Gallons per foot of casing (on reverse) x _____
 Column of water in well = 9.35
 Volume of water in casing = .163
 Total water volume (filter pack + casing) x 1.52
 Number of volumes to be evacuated = 3
 Total volume to be evacuated = 4.56

Purging Method: Polyethylene Beider

FIELD PARAMETERS

Time	Volume purged (gallons)	pH	Conductivity (uS)	TDS (ppm)	Temperature (F or C)	Turbidity (NTU)	Color	Odor	ORP (mV Units)
0851	0.50	6.4	125	95.2	5.6°	Mild	yellowish	None	
0854	1.5	6.2	135	113.6	6.4°	mild	yellow	none	
0859	3.5	6.2	135	108.1	6.0°	mild	yellow	none	
0903	4.7	6.2	135	92.3	6.2°	mod-mild	yellow	none	

Total volume purged: 5.2 gallons
 Sample Identification: MW-1
 Duplicate Collected? yes
 Signed Sampler: R. Mcghee
 Signed Reviewer: _____
 Withdrawal Rate: _____
 Sample Time/Date: 11/4/05; 0905
 Duplicate Identification: N/A
 Date: 11/4/05
 Date: _____

ADDITIONAL INFORMATION/COMMENTS: No hydrocarbon-like sheen or odor detected.



2525 Blueberry Road
 Suite 200
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 phone (907) 222-1112
 fax (907) 222-1113

Well Sampling Calculation and Record Sheet

Client: AIEC Well Number: MW-3
 Site Name: Trailside SLR Project #: 005.0065.05003
 SLR Employee: McInee Date: 11/4/05

COLUMN OF WATER IN WELL

Well Casing Diameter (inches): 2" Filter Pack Diameter (if known (inches)) _____
 Sounding Depth of Well (from top of casing (feet)) 11.8'
 Static Water Depth (from top of casing (feet)) 4.61
 Column of water in well (feet) 7.29
 Time Waterlevels Measured: 1027

VOLUME TO BE PURGED (3 well casing volumes only, unless otherwise specified)

Gallons per foot of filter pack (on reverse) = _____
 Column of water in filter pack x _____
 Volume of water column in filter pack = _____
 Gallons per foot of casing (on reverse) = _____
 Column of water in well x 7.29
 Volume of water in casing = 0.163
 Total water volume (filter pack + casing) x 1.18
 Number of volumes to be evacuated = 3
 Total volume to be evacuated = 3.54

Purging Method: Polychlorinated biphenyls bailer

FIELD PARAMETERS

Time	Volume purged (gallons)	pH	Conductivity (uS)	TDS (ppm)	Temperature (F or C)	Turbidity (NTU)	Color	Odor	ORP (mV Units)
1032	0.50	5.7	122	86	5.2°	muddy	brown	N/A	
1035	1.25	6.2	114	84	7.0°	muddy	brown	N/A	
1037	2.00	6.2	111	91	7.9°	muddy	brown	N/A	
1040	2.50	6.3	109	86	9.0°	muddy	brown	N/A	
1043	3.00	6.3	110	86	9.0°	muddy	brown	N/A	

Total volume purged: 3.75 gallons Withdrawal Rate: _____
 Sample Identification: _____ Sample Time/Date: 1047
 Duplicate Collected? yes no Duplicate Identification: N/A
 Signed Sampler: R. McInee Date: 11/4/05
 Signed Reviewer: _____ Date: _____

ADDITIONAL INFORMATION/COMMENTS: Muddy water with no indication of hydrocarbon-like smell or odor present.



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Anchorage, Alaska 99503
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fax (907) 222-1113

CC

Well Sampling Calculation and Record Sheet

Client: ADEC
Site Name: TRANSIDE
SLR Employee: McInnes

Well Number: MW-4
SLR Project #: 005.0065.05003
Date: 11/4/05

COLUMN OF WATER IN WELL

Well Casing Diameter (inches): 2" Filter Pack Diameter (if known (inches)) _____
Sounding Depth of Well (from top of casing (feet)) 12.00
Static Water Depth (from top of casing (feet)) 4.00
Column of water in well (feet) 8.00
Time Waterlevels Measured: 1606

VOLUME TO BE PURGED

(3 well casing volumes only, unless otherwise specified)

Gallons per foot of filter pack (on reverse) = _____
Column of water in filter pack x _____
Volume of water column in filter pack = _____
Gallons per foot of casing (on reverse) = _____
Column of water in well x 8.00
Volume of water in casing = 1.63
Total water volume (filter pack + casing) x 1.30
Number of volumes to be evacuated = 3
Total volume to be evacuated = 3.90

Purging Method: polyethylene bailer

FIELD PARAMETERS

Time	Volume purged (gallons)	pH	Conductivity (uS)	TDS (ppm)	Temperature (F or C)	Turbidity (NTU)	Color	Odor	ORP (mV Units)
1612	0.5	6.4	1040	796	6.6°	mod.	greenish clear	strong hydrocarbon-like odor	
1615	1.25	6.5	1053	842	6.7°	mod.	"	"	
1617	2.00	6.5	1125/116	881	7.3°	mod.	"	"	
1620	2.75	6.5	1082	885	8.7°	mod	"	"	
1625	3.75	6.6	1194	947	5.4°	heavy	greenish black	"	
1629	4.25	6.6	1160	916	7.0°	heavy	greenish black	"	

Total volume purged: 4.5 gallons
Sample Identification: MW-4
Duplicate Collected? yes no
Signed Sampler: _____
Signed Reviewer: R McInnes
Withdrawal Rate: _____
Sample Time/Date: 1632
Duplicate Identification: MW-DWD (0100)
Date: 11/4/05
Date: _____

ADDITIONAL INFORMATION/COMMENTS: Strong hydrocarbon-like odor observed. Turbidity & color increased as water was purged. Heavy sediments observed in sample pit since the ports were closed. No hydrocarbon-like sheen apparent in pit or the.



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Well Sampling Calculation and Record Sheet

Client: ADEC
 Site Name: TRANSIDE
 SLR Employee: McGhee

Well Number: MW-7 *sm 11/4/05*
 SLR Project #: 005.12850005.05003
 Date: 11/4/05

COLUMN OF WATER IN WELL

Well Casing Diameter (inches): 2" Filter Pack Diameter (if known (inches)) _____
 Sounding Depth of Well (from top of casing (feet)) 12.90
 Static Water Depth (from top of casing (feet)) 4.82
 Column of water in well (feet) 7.28
 Time Waterlevels Measured: 1120

VOLUME TO BE PURGED (3 well casing volumes only, unless otherwise specified)

Gallons per foot of filter pack (on reverse) = _____
 Column of water in filter pack x _____
 Volume of water column in filter pack = _____
 Gallons per foot of casing (on reverse) = _____
 Column of water in well x 7.28
 Volume of water in casing = 0.163
 Total water volume (filter pack + casing) x 1.18
 Number of volumes to be evacuated = 3
 Total volume to be evacuated = 3.54

Purging Method: Polyethylene bailer

FIELD PARAMETERS

Time	Volume purged (gallons)	pH	Conductivity (µS)	TDS (ppm)	Temperature (F or C)	Turbidity (NTU)	Color	Odor	ORP (mV Units)
1127	0.75	6.5	197	155	4.9°	mild	clear	some hydrocarbon-like	
1130	1.50	6.5	199	179	6.3°	mod.	greyish	"	
1132	2.25	6.4	205	168	7.6°	moderate	grey	"	
1134	3.00	6.4	202	162	8.6°	mod.	grey	"	
1135	3.5	6.4	216	163	7.8°	mod	grey	"	

Total volume purged: 3.75 gallons
 Sample Identification: MW-7
 Duplicate Collected? yes
 Signed Sampler: McGhee
 Signed Reviewer: _____

Withdrawal Rate: _____
 Sample Time/Date: 1138; 11/4/05
 Duplicate Identification: N/A
 Date: 11/4/05
 Date: _____

ADDITIONAL INFORMATION/COMMENTS:

Moderate, hydrocarbon-like odor was noticed from purge head.



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 fax (907) 222-1113

Well Sampling Calculation and Record Sheet

Client: ODEC Well Number: MW-12
 Site Name: Trailside SLR Project #: 005.0065.05003
 SLR Employee: R. McVee Date: 11/4/05

COLUMN OF WATER IN WELL

Well Casing Diameter (inches): 2" Filter Pack Diameter (if known (inches)) _____
 Sounding Depth of Well (from top of casing (feet)) 8.60
 Static Water Depth (from top of casing (feet)) 6.34
 Column of water in well (feet) 2.26
 Time Waterlevels Measured: 0934

VOLUME TO BE PURGED

(3 well casing volumes only, unless otherwise specified)

Gallons per foot of filter pack (on reverse) = _____
 Column of water in filter pack x _____
 Volume of water column in filter pack = _____
 Gallons per foot of casing (on reverse) = _____
 Column of water in well x 2.26
 Volume of water in casing = 0.163
 Total water volume (filter pack + casing) x 368
 Number of volumes to be evacuated = 3
 Total volume to be evacuated = 1.10

Purging Method: Plungerless bailer

FIELD PARAMETERS

Time	Volume purged (gallons)	pH	Conductivity (µS)	TDS (ppm)	Temperature (F or C)	Turbidity (NTU)	Color	Odor	ORP (mV Units)
0943	0.20	5.8	143	113	6.0°	High	brown muddy	N/A	
0945	0.50	6.1	154	123	6.7°	High	brown muddy	N/A	
0949	0.75	6.2	161	126	7.0°	High	brown muddy	N/A	
0952	1.20	6.2	152	126	7.6°	High	brown muddy	N/A	

Total volume purged: 1.30 gallons Withdrawal Rate: _____
 Sample Identification: _____ Sample Time/Date: 0956 / 11/4/05
 Duplicate Collected? yes Duplicate Identification: N/A
 Signed Sampler: R. McVee Date: 11/4/05
 Signed Reviewer: _____ Date: _____

ADDITIONAL INFORMATION/COMMENTS: Bailer appeared to have rust like specks in it. No hydrogen sulfide-like odor or sheen detected. Pump water was very muddy (and yellow/brown colored).



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Well Sampling Calculation and Record Sheet

Client: ADEL Well Number: TANK
 Site Name: Trailside SLR Project #: 005,0065.05003
 SLR Employee: McGhee Date: 11/4/05

COLUMN OF WATER IN WELL

Well Casing Diameter (inches): 4 1/4 Filter Pack Diameter (if known [inches]) _____
 Sounding Depth of Well (from top of casing [feet]) _____
 Static Water Depth (from top of casing [feet]) N/A
 Column of water in well (feet) _____
 Time Waterlevels Measured: _____

VOLUME TO BE PURGED

(3 well casing volumes only, unless otherwise specified)

Gallons per foot of filter pack (on reverse) = _____
 Column of water in filter pack x N/A
 Volume of water column in filter pack = _____
 Gallons per foot of casing (on reverse) = _____
 Column of water in well x _____
 Volume of water in casing = _____
 Total water volume (filter pack + casing) x _____
 Number of volumes to be evacuated = _____
 Total volume to be evacuated = _____

Purging Method:

No purging required (used a positive pressure bailer to sample)

FIELD PARAMETERS

Time	Volume purged (gallons)	pH	Conductivity (µS)	TDS (ppm)	Temperature (F or C)	Turbidity (NTU)	Color	Odor	ORP (mV Units)

Total volume purged

0 gallons

Withdrawal Rate:

Sample Identification:

TANK

Sample Time/Date: 11/21; 11/4/05

Duplicate Collected?

yes no

Duplicate Identification: N/A

Signed Sampler:

R. McGhee

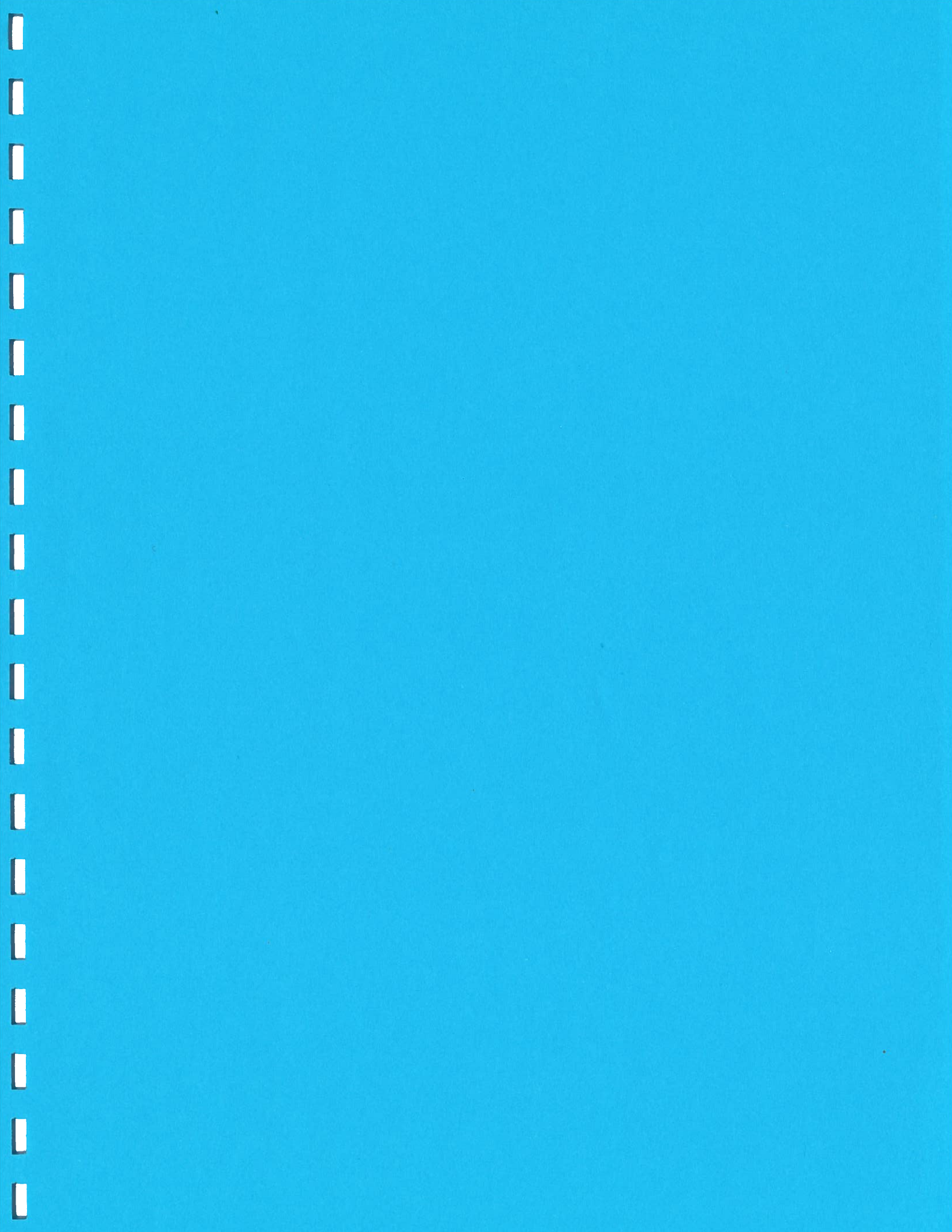
Date: 11/4/05

Signed Reviewer:

Date: _____

ADDITIONAL INFORMATION/COMMENTS:

Sampled from pipe identified by landowner. Several other pipes exist in area. Sampled from western pipe on south side of big rock.



APPENDIX B
FIELD NOTES

"Rite in the Rain"
ALL-WEATHER WRITING PAPER



FIELD

All-Weather Notebook
No. 351

Trailside General Store
SLR #005.0065.05003
November 2005
R. McInee

4 5/8" x 7" - 48 Numbered Pages

If found, please return
to SLR Alaska
2525 Blueberry Switzer
Anchorage, AK 99503
(907) 222-1112



Name SLR Alaska

Address 2525 Blueberry Suite 206
Anchorage, AK 99503
Phone (907) 222-1112

Project Trailside General Store
005.0065.05003
Homer, Alaska

CONTENTS

REFERENCE

Field Notebook for SLR
Project 005.0065.05003,
Trailside General
Store in Homer, Alaska.

The following pages
represent field notes
taken during all field
activities. Notes are
also supplemented
by photo graphs and
well sampling and
calculation record
sheets.

11/4/05 Clear, windy

0750 Depart hotel to site.

0800 Arrived on site. Conducted preliminary surveillance of exterior. Located 4 of the 5 monitoring wells. Landowner not on-site. Proceed to probe for sampling MW-1 on the east side of the building, closest to the Sterling Hwy. Left message for Mr. Fiumin on cell phone voice mail at 0803.

Took 2 photographs of MW-1

0830 Cut lock on well with both cutters per McKeser permission. Began well sampling & purge sheet.

McGhee

Trailside

11/4/05

0905 Collected 3 non samples at MW-1. To be analyzed for BTEX & PFO.

Note: When pulling IOTH from cooler to sample, noticed that IOTH jats did not have lab's sample identification labels on them. For field activities today, sample identification will be noted on I/O of each IOTH as well as on the mesorivative label. Will label more IOTHs before sending to lab.

0924 Begin trying to remove cap at MW-12. No luck on this well. Compression cap came off easily.

McGhee

Trailside

11/14/05 Clear, Windy Approx 21°F.
Collect 3 VOT samples
at MW-12 for BTEX &
GRO analysis.

1000 - Warm up & complete
1020 field notes in vehicle.

Took 2 photographs
of MW-12. Also took 1
photograph of abode
on adjacent property
to the east approximately
15 ft. tank appears
to have some staining
from a nozzle pipe
on top side.

1027 Begin taking cover off
MW-3. Compression cap
had a lock on it but
was able to lift up and
remove without cutting
lock. Start bailing well.
McGhee Trailside

11/14/05 Clear, Windy
1047 Collect 3 VOT samples
at MW-3 for BTEX &
GRO.

Could not get compression
cap pads on 2" PVC
piping. Cut lock with
bolt cutters, put cap
back on.

1105 Begin removing MW
lid on MW-7. Talked
with Mr. Flynn briefly.
He showed me the
1,000 gallon tank pipe,
but we could not
locate MW-4.

1138 Collect 3 VOT samples
at MW-7 for BTEX for
GRO. Took 2 pictures

1200 - Ate lunch, spoke with
1300 M. Reiser on phone.
McGhee Trailside

11/4/05 Clear, Sunny, Windy
respending MW-4. Will
continue to look for
well in weed patch
at southeast corner
of property.

1305 Met with Mr. Alex Flynn
to do walk through
building.

1st Floor -
LTD office, cleaning
supplies, air freshener,
carpeting. One
bathroom. - Mr. Flynn
will remove cleaning
supplies one bathroom
fan electric heater
vent near floor. Restroom
had laminate flooring.
LTD office completely
carpeted. No vent system
obvious in walls or
ceilings except in
McGhee

Trailside

11/4/05 Clear, Windy -
The bathroom.

1st floor under stairs,
cleaning, supply room
with several boxes
with cleaning supplies
closet completely
carpeted.

1st floor - must go outside
to get into the heat office
next to LTD. Carpeted.
Dangster uses for
housing restaurant ice cream
equipment popcorn freezers
Makers crafts.
One tiled bathroom
with some cleaning
equipment with
bathroom fan.
984 square feet room
500 area is for
rent.

McGhee

Trailside

11/4/05 Clear, Sunny
1st floor - I Bay - 333 sq. ft.
Shares a bathroom w/
next door computer
repair. Bathroom
has typical cleaning
supplies. Laminated
floor.

1st Floor - Computer repair
3100 sq. ft. Carpeted.
Uses vacuum or compressed
air for cleaning.
Does not use aerosols -
as little as possible.
No sign of vents or
ventilation system.

1st Floor - Point West Video;
Tiled floor 4 overhead
fans. Electric heater
box mounted from
ceiling. Old refrigeration
unit in video storage
area not in use.

McInnes

Trailside

11/4/05

Cooler freezer used
for storage. Bathroom
is tiled as well with
some cleaning supplies.
Sink area is separate
from bathroom. Identical
bathroom (his/hers) on
other side in video store.

2nd story - his/her bathroom
4 empty offices on
south side. 3 almost
empty on north side.
Willie's office is at
top of stairs, north side.

1335 Called SLR and talked
to Mike & Mark.

1 canister in the
video store. Probably
in front area.
Duplicate

McInnes

Trailside

11/4/05
14105
In front part of LJO
office.

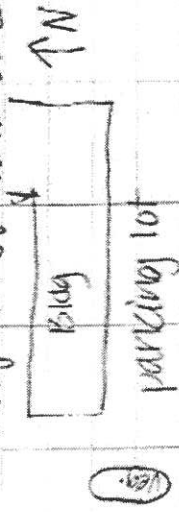
In bathroom of open
area.

Exterior- outside by
front doors. Chain to
pillar.

1412 Begin gathering
supplies to sample
TANK.

1421 Collect 3 LJO samples
from tank for BTEX
& GRCO.

Diagram of tank area:



samples from
ext

McGhee Trailside

Talked to Willie about
missing MW-4. Obtained
copy of as-built
showing MW-4 on east
side outside of vegetation
area. Also discussed
where the air
canisters will be
set up tonight and
schedule for air
sampling.

1445 Left site to go to hardware
store and pick up chain
and lock for exterior
canister and also
hand shovel to keep
looking for MW-4.

Purchased new padlocks
chain/lock and metal
shovel to dig through
tense vegetation and
gravel on asphalt.

McGhee Trailside

12

11/4/05
looking for MW-4.

Sketch of building layout:



11/4/05

1532

Still continuing to look for MW-4. Using H.S. built drawing provided by Mr. Higum. Digging through sediment + ice mixture with shovel and then screwdriver + hammer

1600 Located MW-4 by chipping through ice + sediment approx. 2 inch thick. Exam prep for sample. Will collect duplicate sample at this well.

1630 Collect 9 VOA samples at MW-1 for BTEX + GRO. (3 for MW-Dup 0100-time)

1655 Remove equipment and clean up. Went inside to speak with

McGhee

Trailside

11/14/05

Wille to reconfirm air sampling plan for this evening. Also let him know where I put the 8 5-gallon buckets with purge water placed south east edge of bldg on sidewalk. All buckets are clearly labeled on lid the well the contents came from, S.R. Alaska address and phone number, attn: Mike Reiser. Also labeled as purge water. Confirmed with Wille that I would be back on-site at 2130 to set up our canisters. He said he would be there.

0708

Left site, suspended activities until later tonight. Went to dinner.

McGhee

Trailside

11/14/05 Dark, clear skies

2130 Arrive back on site and park in front lot to help facilitate loading/unloading air canisters.

2135 Prepare for canister in "For Rent" bathroom location. Canister & regulator # match - 14121.

Initial vacuum is -26 Hg at 2138 for sample - bathroom - canister # 14121.

2145 - opened valve on #14121 (bathroom)

2149 Entered LTO office to read pressure. Canister # 34734.

2152 Pressure on 34734 was

McGhee

Trailside

- 11/4/05 Dark, clear Skies
- 27.5 Hg. Sample ID is LID Front.
RM 11/4/05
- 0954
- 2154 Open regulator on LID Front (#34734)
- 2201 Set up canisters (one sample and one duplicate) in video store.
- Canister # 20938 initial pressure was -28 Hg. Sample ID is Video Store
- Canister # 2387 initial pressure was -28 Hg. Sample ID is Air Dup.
- 2212 Open both regulators on Video Store & Air Dup.
- 2215 Set up canister # 34315 named Extensor
- McGhee Traulside

- 11/4/05 Dark, clear Skies
- Initial pressure reading on canister # 34315 was -28 Hg
- 2217 Open regulator on Extensor Sample. Placed on bench outside mound outside doors. Put bike lock on canister and around extensor pillar.
- 2218 Spoke with Willie Flynn and reconfirmed pick up time for tomorrow. Will be back to close canisters starting at 0945. Return to left site. Return to hotel. End Day
- RM 11/4/05
- McGhee Traulside

18 11/5/05 Clear, Sunny, Approx. 18°F

0900 Leave note for site and package pickup at airport.

0919 Pickup package at airport. Includes metal detector and compression caps.

0926 Arrived on site and proceeded to "for Kent" canister. Regulator on canister indicates 5th pressure warning until 0945 to shut off regulator/canister and check pressure again with gauge.

0941 Turn off regulator on 14121 (backroom) check pressure again.

McInee Trailside

11/5/05 Clear, Sunny

0945 Final pressure on backroom (#14121) was 6 kg.

0947 Proceeded into LIO office to close up canister #34734 (Sample ID LIO Front)

0950 Checked pressure on LIO Front. Removed regulator (closing canister valve first and installing gauge for pressure reading).

0953 Pressure (final) on LIO front (#34734) was 6 kg.

1000 Obtain access to video store to close both canisters (#20938 & #2387)

McInee Trailside

11/5/05

Clear, Sunny

Before taking off regulators, both in Video Store are indicating O₂ pressure. Video Store is at comfortable room temperature, not placed near drafts. Air overhead fans were off throughout the night.

1012 Final pressure on canister (Video Store) 2387 on Air Dup was O₂ 11/5/05) 2387

Final pressure on canister (Video Store) 20938 was

1014 Placed outside to close up exterior # 34315.

McNee Trailside

11/5/05

1015 Final pressure on #34315 was O₂.

Packed all canisters up, with regulators & put in warm cab of truck.

Replaced four compression caps on MW1, MW3, MW7, MW12. Put new pedlocks on as well.

Measurements for finding monitoring wells.

MW-1 - From first exterior door on east side of building (closest to Hwy) - wells 5, 3, 4 to the east.

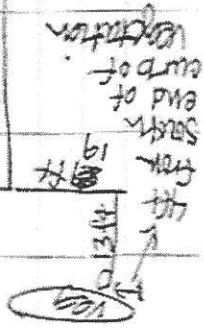
22
11/5/05

MW-12; From SE corner of bldg, due south approx 13' 8".

MW-3; from handicapped parking sign on south side of bldg, due south 1' 4" (to the right of double doors).

MW-7; from white sock door on south side, foot tape measure on floor hub side and angle em due west from MW-3 it is 44' 6".

MW-4; approx 1 1/2' from curb of way. pasteur.



McGhee

Trailside

11/5/05

MW-12 - no new cap, only new pack. All other wells have new caps & locks.

1045 - Said goodbye & thanks to Mr Flynn. Cleaned up & packed up truck. Depart site.

- Work Suspended -

2:00 - Repacked cooler completed COCS for both water and air samples.

~~Final Day 11/6/05~~

McGhee

Trailside

21 11/06/05

All day - kept water sample cooler closed and well chilled. Air samples remained tightly closed and packaged. Both stored in secure area, no access available other than McGehee.

McGehee

Trailside

11/07/05

1100
Dropped water samples off at NHTA. Temp blanks were recorded. Samples were kept cool and sufficient temp.

ALSO Dried air samples back to AIR TOXICS.

Rm 11/7/05

McGehee

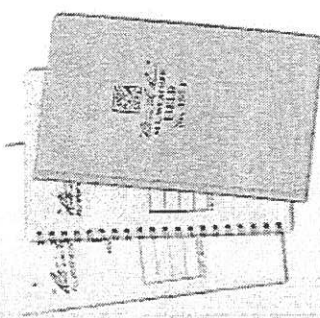
Trailside

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

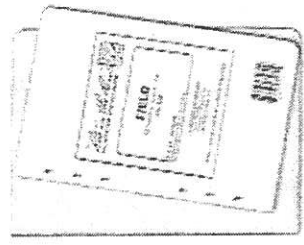


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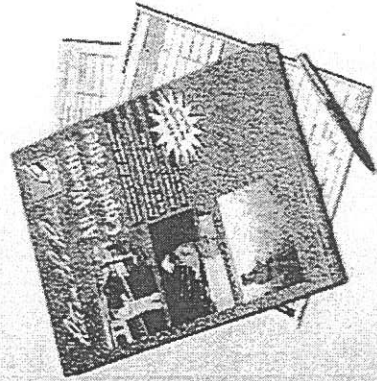
**"Outdoor writing products...
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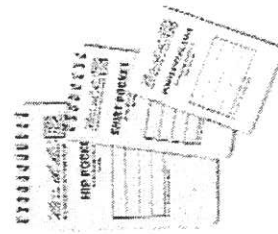
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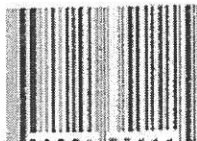
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APPENDIX C
PHOTOGRAPHIC LOG

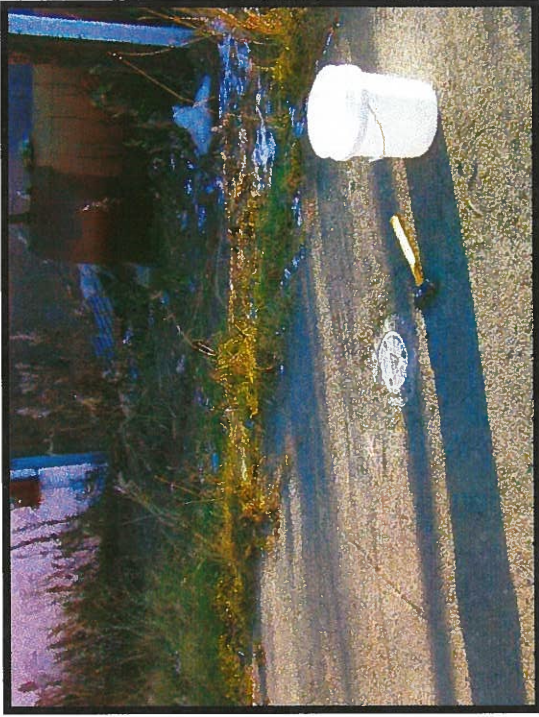


Photo #2: MW-12



Photo #4: MW-7



Photo #1: MW-1

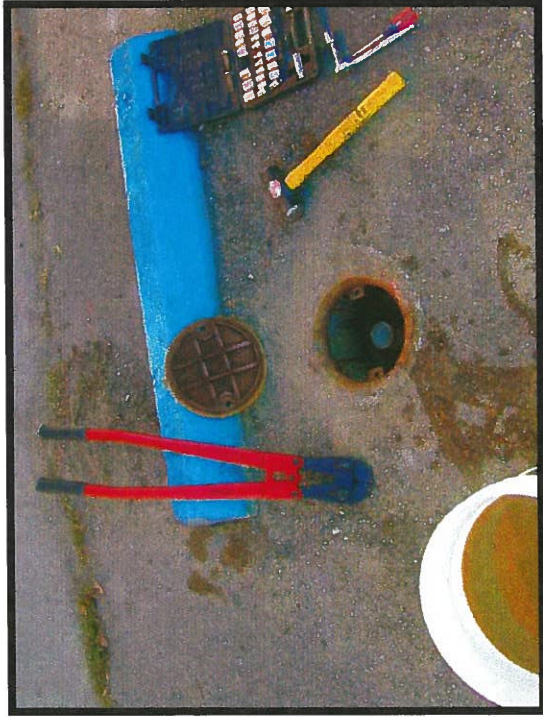


Photo #3: MW-3

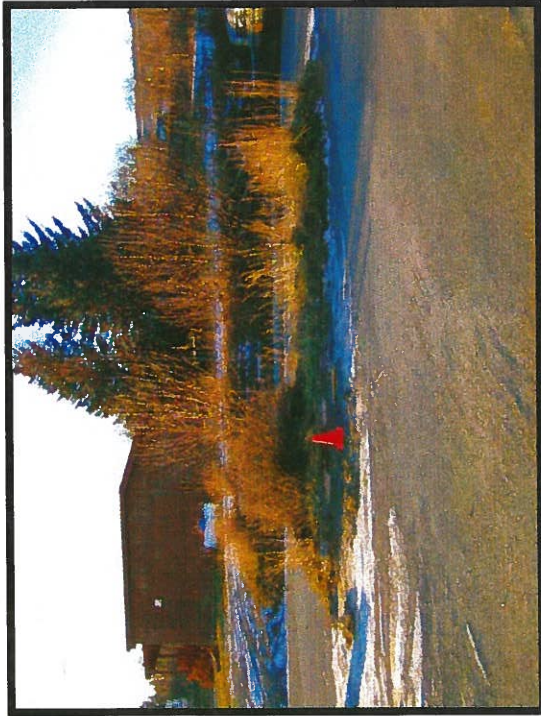


Photo #5: MW-4



Photo #6: MW-4 buried underneath sand/ice mixture

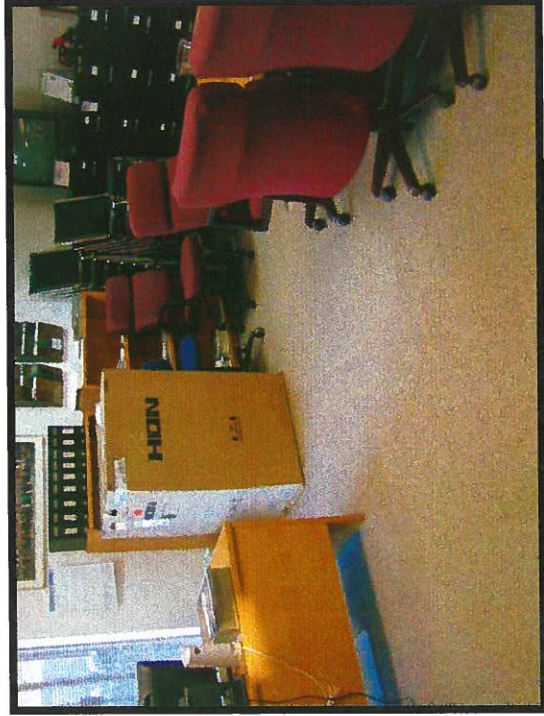


Photo #7: LIO Air Sample location

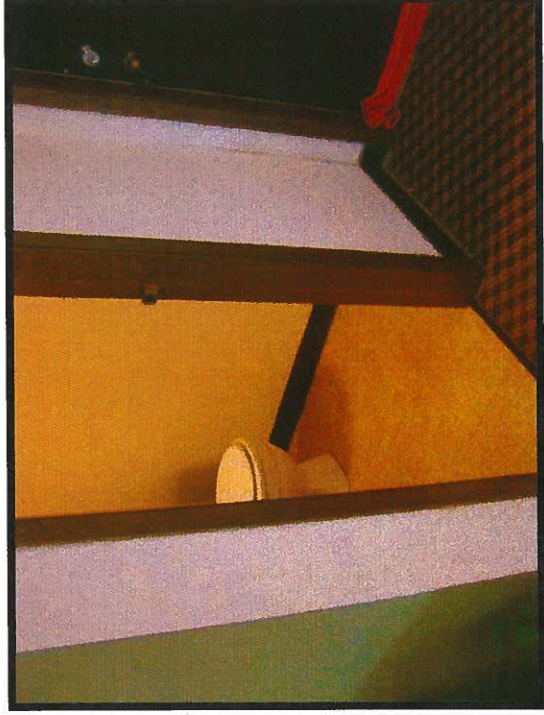


Photo #8: Bathroom Air Sample location

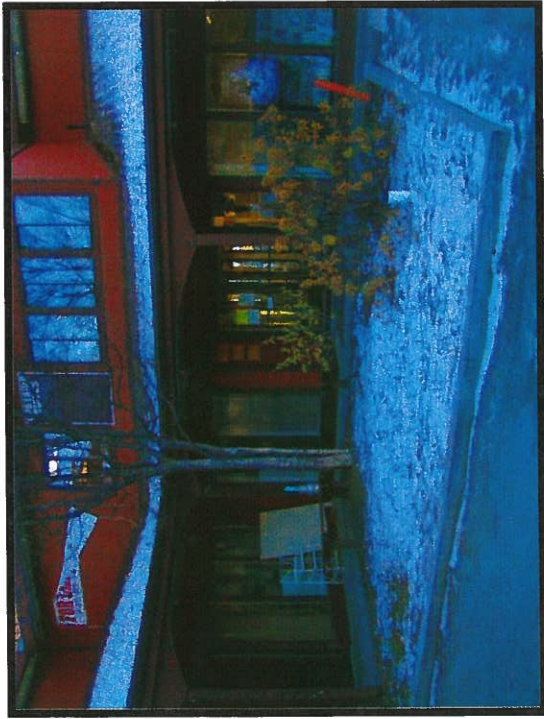
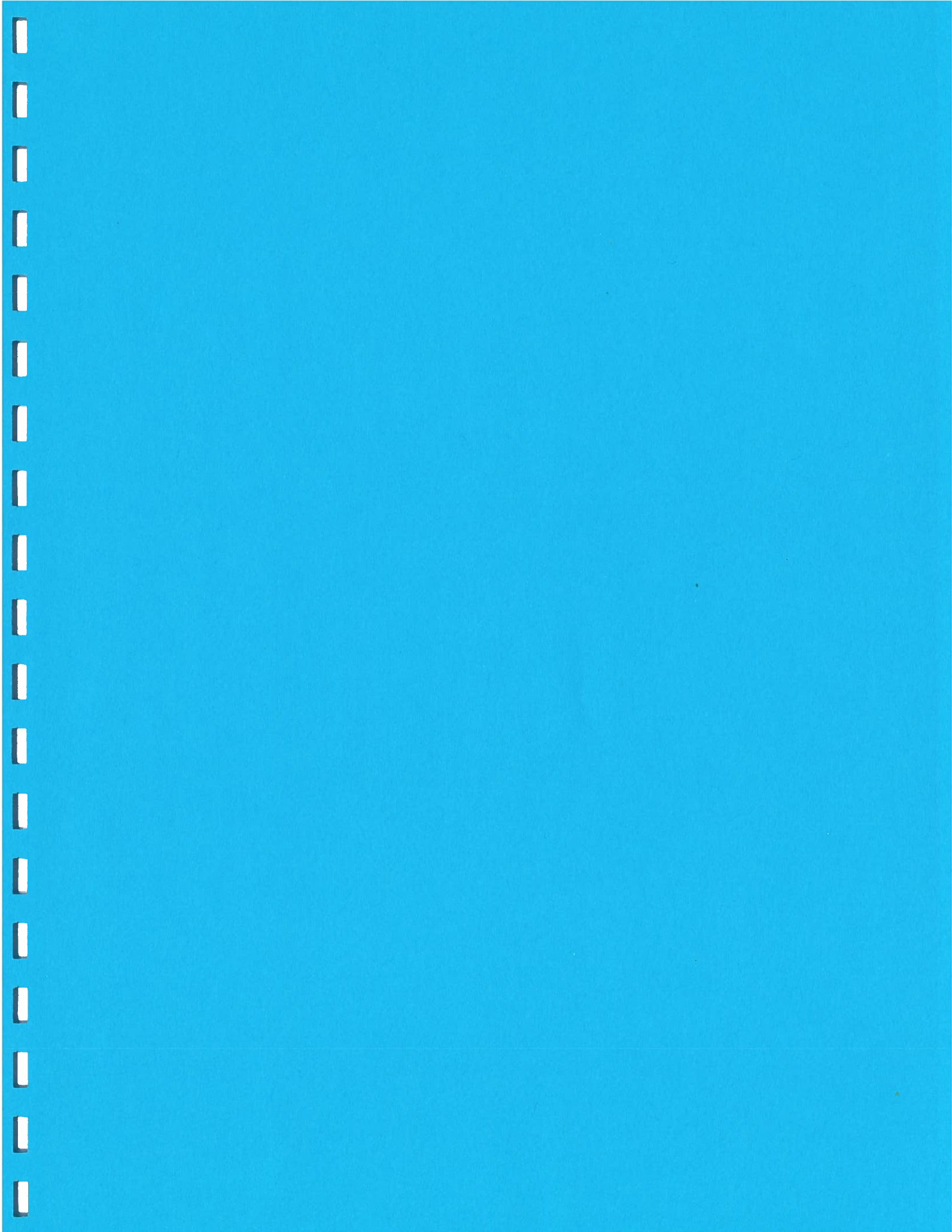


Photo #9: Exterior Air Sample location



Photo #10: Video Store and Duplicate Air Sample location



APPENDIX D
ANALYTICAL RESULTS



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November 14, 2005

Andrew Dimitriou, R.G.
SLR Alaska
2525 Blueberry Road, Suite 206
Anchorage, ALASKA/USA 99503

RE: Trailside General Store

Enclosed are the results of analyses for samples received by the laboratory on 11/07/05 11:07.
The following list is a summary of the NCA Work Orders contained in this report.
If you have any questions concerning this report, please feel free to contact me.

<u>Work</u>	<u>Project</u>	<u>ProjectNumber</u>
A5K0016	Trailside General Store	[none]

Thank You,

Stephen Wilson, Laboratory Manager

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SLR Alaska	Project Name: Trailside General Store	<u>Report Created:</u>
2525 Blueberry Road, Suite 206	Project Number: [none]	11/14/05 09:24
Anchorage, ALASKA/USA 99503	Project Manager: Andrew Dimitriou, R.G.	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A5K0016-01	Water	11/04/05 09:05	11/07/05 11:07
MW-12	A5K0016-02	Water	11/04/05 09:56	11/07/05 11:07
MW-3	A5K0016-03	Water	11/04/05 10:47	11/07/05 11:07
MW-7	A5K0016-04	Water	11/04/05 11:38	11/07/05 11:07
Tank	A5K0016-05	Water	11/04/05 14:21	11/07/05 11:07
MW-4	A5K0016-06	Water	11/04/05 16:32	11/07/05 11:07
MW-Dup	A5K0016-07	Water	11/04/05 13:00	11/07/05 11:07
Trip Blank	A5K0016-08	Water	11/04/05 00:00	11/07/05 11:07

North Creek Analytical - Alaska

Stephen Wilson, Laboratory Manager

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SLR Alaska	Project Name: Trailside General Store	<u>Report Created:</u> 11/14/05 09:24
2525 Blueberry Road, Suite 206	Project Number: [none]	
Anchorage, ALASKA/USA 99503	Project Manager: Andrew Dimitriou, R.G.	

Gasoline Range Organics (C6-C10) and BTEX per AK101

North Creek Analytical - Alaska

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
A5K0016-01	Water	MW-1	Sampled: 11/04/05 09:05							
Gasoline Range Organics	AK101	ND	----	50.0	ug/l	1x	5110031	11/09/05	11/09/05 16:10	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.50	"	"	"	"	"	
<i>Surrogate(s): a,a,a-TFT (FID)</i>		<i>Recovery: 98.8%</i>		<i>Limits: 50 - 150 %</i>		"		"		
<i>a,a,a-TFT (PID)</i>		<i>84.4%</i>		<i>72.5 - 131 %</i>		"		"		
A5K0016-02	Water	MW-12	Sampled: 11/04/05 09:56							
Gasoline Range Organics	AK101	ND	----	50.0	ug/l	1x	5110031	11/09/05	11/10/05 11:00	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.50	"	"	"	"	"	
<i>Surrogate(s): a,a,a-TFT (FID)</i>		<i>Recovery: 107%</i>		<i>Limits: 50 - 150 %</i>		"		"		
<i>a,a,a-TFT (PID)</i>		<i>95.6%</i>		<i>72.5 - 131 %</i>		"		"		
A5K0016-03	Water	MW-3	Sampled: 11/04/05 10:47							
Gasoline Range Organics	AK101	ND	----	50.0	ug/l	1x	5110031	11/09/05	11/09/05 17:16	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.50	"	"	"	"	"	
<i>Surrogate(s): a,a,a-TFT (FID)</i>		<i>Recovery: 120%</i>		<i>Limits: 50 - 150 %</i>		"		"		
<i>a,a,a-TFT (PID)</i>		<i>107%</i>		<i>72.5 - 131 %</i>		"		"		

North Creek Analytical - Alaska

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Stephen Wilson, Laboratory Manager

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SLR Alaska	Project Name: Trailside General Store	Report Created:
2525 Blueberry Road, Suite 206	Project Number: [none]	11/14/05 09:24
Anchorage, ALASKA/USA 99503	Project Manager: Andrew Dimitriou, R.G.	

Gasoline Range Organics (C6-C10) and BTEX per AK101

North Creek Analytical - Alaska

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
ASK0016-04	Water	MW-7	Sampled: 11/04/05 11:38							
Gasoline Range Organics	AK101	ND	----	50.0	ug/l	1x	5110031	11/09/05	11/09/05 17:48	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.50	"	"	"	"	"	
Surrogate(s):	a,a,a-TFT (FID)	Recovery: 95.0%		Limits: 50 - 150 %	"					"
	a,a,a-TFT (PID)	83.2%		72.5 - 131 %	"					"
ASK0016-05	Water	Tank	Sampled: 11/04/05 14:21							
Gasoline Range Organics	AK101	ND	----	50.0	ug/l	1x	5110031	11/09/05	11/09/05 18:21	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.50	"	"	"	"	"	
Surrogate(s):	a,a,a-TFT (FID)	Recovery: 98.1%		Limits: 50 - 150 %	"					"
	a,a,a-TFT (PID)	86.8%		72.5 - 131 %	"					"
ASK0016-06	Water	MW-4	Sampled: 11/04/05 16:32							
Gasoline Range Organics	AK101	ND	----	50.0	ug/l	1x	5110031	11/09/05	11/10/05 11:33	
Benzene	"	8.47	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	3.31	----	1.50	"	"	"	"	"	
Surrogate(s):	a,a,a-TFT (FID)	Recovery: 108%		Limits: 50 - 150 %	"					"
	a,a,a-TFT (PID)	98.8%		72.5 - 131 %	"					"

North Creek Analytical - Alaska

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SLR Alaska	Project Name: Trailside General Store	Report Created: 11/14/05 09:24
2525 Blueberry Road, Suite 206	Project Number: [none]	
Anchorage, ALASKA/USA 99503	Project Manager: Andrew Dimitriou, R.G.	

Gasoline Range Organics (C6-C10) and BTEX per AK101

North Creek Analytical - Alaska

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
A5K0016-07	Water	MW-Dup	Sampled: 11/04/05 13:00							
Gasoline Range Organics	AK101	ND	----	50.0	ug/l	1x	5110031	11/09/05	11/09/05 22:43	
Benzene	"	9.01	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	4.04	----	1.50	"	"	"	"	"	
Surrogate(s):	a,a,a-TFT (FID)	Recovery: 95.2%		Limits: 50 - 150 %	"	"				"
	a,a,a-TFT (PID)	87.1%		72.5 - 131 %	"	"				"
A5K0016-08	Water	Trip Blank	Sampled: 11/04/05 00:00							
Gasoline Range Organics	AK101	ND	----	50.0	ug/l	1x	5110031	11/09/05	11/09/05 21:05	
Benzene	"	ND	----	0.500	"	"	"	"	"	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.50	"	"	"	"	"	
Surrogate(s):	a,a,a-TFT (FID)	Recovery: 97.5%		Limits: 50 - 150 %	"	"				"
	a,a,a-TFT (PID)	87.3%		72.5 - 131 %	"	"				"

North Creek Analytical - Alaska

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SLR Alaska Project Name: **Trailside General Store**
 2525 Blueberry Road, Suite 206 Project Number: [none] Report Created: 11/14/05 09:24
 Anchorage, ALASKA/USA 99503 Project Manager: Andrew Dimitriou, R.G.

Gasoline Range Organics (C6-C10) and BTEX per AK101 - Laboratory Quality Control Results
 North Creek Analytical - Alaska

QC Batch: 5110031 Water Preparation Method: EPA 5030B

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

Extracted: 11/09/05 09:17

Blank (5110031-BLK1)														
Gasoline Range Organics	AK101 GRO/BTEX	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	11/10/05 03:36	
Benzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"	
Xylenes (total)	"	ND	---	1.50	"	"	--	--	--	--	--	--	"	
Surrogate(s): a,a,a-TFT (FID)		Recovery: 93.9%		Limits: 50-150%		"						11/10/05 03:36		
a,a,a-TFT (PID)		83.1%		72.5-131%		"						"		

Extracted: 11/09/05 09:17

LCS (5110031-BS1)														
Benzene	AK101 GRO/BTEX	18.8	---	0.500	ug/l	1x	--	20.0	94.0%	(77.3-136)	--	--	11/09/05 19:59	
Toluene	"	19.0	---	0.500	"	"	--	"	95.0%	(83.9-121)	--	--	"	
Ethylbenzene	"	18.7	---	0.500	"	"	--	"	93.5%	(77.7-125)	--	--	"	
Xylenes (total)	"	60.7	---	1.50	"	"	--	60.0	101%	(86-122)	--	--	"	
Surrogate(s): a,a,a-TFT (PID)		Recovery: 89.1%		Limits: 72.5-131%		"						11/09/05 19:59		

Extracted: 11/09/05 09:17

LCS (5110031-BS2)														
Gasoline Range Organics	AK101 GRO/BTEX	531	---	50.0	ug/l	1x	--	550	96.5%	(60-120)	--	--	11/09/05 20:32	
Surrogate(s): a,a,a-TFT (FID)		Recovery: 98.9%		Limits: 50-150%		"						11/09/05 20:32		

Extracted: 11/09/05 09:17

LCS Dup (5110031-BSD1)														
Benzene	AK101 GRO/BTEX	18.1	---	0.500	ug/l	1x	--	20.0	90.5%	(77.3-136)	3.79%	(16.9)	11/10/05 02:31	
Toluene	"	18.4	---	0.500	"	"	--	"	92.0%	(83.9-121)	3.21%	(12.5)	"	
Ethylbenzene	"	18.4	---	0.500	"	"	--	"	92.0%	(77.7-125)	1.62%	(11.8)	"	
Xylenes (total)	"	58.8	---	1.50	"	"	--	60.0	98.0%	(86-122)	3.18%	(10.6)	"	
Surrogate(s): a,a,a-TFT (PID)		Recovery: 88.3%		Limits: 72.5-131%		"						11/10/05 02:31		

Extracted: 11/09/05 09:17

LCS Dup (5110031-BSD2)														
Gasoline Range Organics	AK101 GRO/BTEX	492	---	50.0	ug/l	1x	--	550	89.5%	(60-120)	7.62%	(20)	11/10/05 03:04	
Surrogate(s): a,a,a-TFT (FID)		Recovery: 97.7%		Limits: 50-150%		"						11/10/05 03:04		

Extracted: 11/09/05 09:17

Duplicate (5110031-DUP1)														
Gasoline Range Organics	AK101 GRO/BTEX	68.4	---	50.0	ug/l	1x	71.7	--	--	--	4.71%	(50)	11/10/05 00:21	
Surrogate(s): a,a,a-TFT (FID)		Recovery: 96.9%		Limits: 50-150%		"						11/10/05 00:21		

North Creek Analytical - Alaska

Stephen Wilson, Laboratory Manager

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SLR Alaska	Project Name: Trailside General Store	Report Created: 11/14/05 09:24
2525 Blueberry Road, Suite 206	Project Number: [none]	
Anchorage, ALASKA/USA 99503	Project Manager: Andrew Dimitriou, R.G.	

Gasoline Range Organics (C6-C10) and BTEX per AK101 - Laboratory Quality Control Results

North Creek Analytical - Alaska

QC Batch: 5110031	Water Preparation Method: EPA 5030B
-------------------	-------------------------------------

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

Matrix Spike (5110031-MS1)

QC Source: A5K0016-01

Extracted: 11/09/05 09:17

Benzene	AK101	18.1	---	0.500	ug/l	1x	ND	20.0	90.5%	(62.1-143)	--	--	11/10/05 00:53	
	GRO/BTEX													
Toluene	"	18.6	---	0.500	"	"	ND	"	93.0%	(68.5-133)	--	--	"	
Ethylbenzene	"	18.2	---	0.500	"	"	ND	"	91.0%	(64.5-132)	--	--	"	
Xylenes (total)	"	58.9	---	1.50	"	"	0.874	60.0	96.7%	(70.2-133)	--	--	"	

Surrogate(s): a,a,a-TFT (PID)

Recovery: 84.8%

Limits: 72.5-131%

11/10/05 00:53

Matrix Spike (5110031-MS2)

QC Source: A5K0016-05

Extracted: 11/09/05 09:17

Benzene	AK101	18.0	---	0.500	ug/l	1x	ND	20.0	90.0%	(62.1-143)	--	--	11/10/05 01:26	
	GRO/BTEX													
Toluene	"	18.5	---	0.500	"	"	ND	"	92.5%	(68.5-133)	--	--	"	
Ethylbenzene	"	18.6	---	0.500	"	"	ND	"	93.0%	(64.5-132)	--	--	"	
Xylenes (total)	"	59.5	---	1.50	"	"	0.535	60.0	98.3%	(70.2-133)	--	--	"	

Surrogate(s): a,a,a-TFT (PID)

Recovery: 87.9%

Limits: 72.5-131%

11/10/05 01:26

North Creek Analytical - Alaska

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.

Stephen Wilson, Laboratory Manager

North Creek Analytical, Inc.
 Environmental Laboratory Network



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SLR Alaska 2525 Blueberry Road, Suite 206 Anchorage, ALASKA/USA 99503	Project Name: Trailside General Store Project Number: [none] Project Manager: Andrew Dimitriou, R.G.	Report Created: 11/14/05 09:24
--	---	--

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. Reporting Limits are corrected for %Solids when %Solids are <50%.
- wet - Sample results and reporting limits reported on a wet weight basis (as received).
- 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.

North Creek Analytical - Alaska

Stephen Wilson, Laboratory Manager

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180 BLUE RAVINE ROAD, SUITE B
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(916) 985-1000 FAX (916) 985-1020

CHAIN-OF-CUSTODY RECORD

Contact Person: Mike Riser
 Company: S&R Alaska Email: mriser@SIRACOM
 Address: 2525 Gateway City: Anchorage State: AK Zip: 99503
 Phone: (907) 227-1112 Fax: (907) 227-1113
 Collected by: (Signature) Robert Wheeler

Project Info:
 P.O. # 005.00065.05003
 Project # _____
 Project Name Trailside

Turn Around Time:
 Normal
 Rush
specify

Lab Use Only
 Pressurized by: BR
 Date: 11/10/05
 Pressurization Gas: N₂ He

Page 1 of 1

Lab I.D.	Field Sample I.D. (Location)	Date	Time	Analyses Requested	Canister Pressure/Vacuum		
					Initial	Final	Final (psi)
01A	Barkwood (canister #14121)	11-4-05	2145	Modified, low-level TO-15	-26	-6	10.0/15.0 psi
02A	LTO Front (#34734)	11-4-05	2154	Modified, low-level TO-15	-27.5	-6	10.0/15.0 psi
03A	Video Store (#20938)	11-4-05	2212	Modified, low-level TO-15	-28	0	0.2 psi
04A	EXTENSION (#34315)	11-4-05	2217	Modified, low-level TO-15	-28	0	1.0 psi
05A	Air Dup (#2387)	11-4-05	2212	Modified, low-level TO-15	-28	0	0.5 psi ✓

Relinquished by: (signature) RMS Date/Time 11/5/05 Received by: (signature) con.winter Date/Time 11/5/05 Notes: Returned qty. 5 regulators and qty. 1 gauge with canisters.

Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time _____

Relinquished by: (signature) _____ Date/Time _____ Received by: (signature) _____ Date/Time _____

Lab Use Only

Shipper Name: DAL Air Bill #: 8804127920 Temp. (C): _____ Condition: good Custody Seals Intact? Yes No (None) Work Order #: 0511182



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Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0511182R1

Work Order Summary

CLIENT: Mr. Mike Rieser
SLR Alaska
2525 Blueberry Street
Suite 206
Anchorage, AK 99502

BILL TO: Mr. Mike Rieser
SLR Alaska
2525 Blueberry Street
Suite 206
Anchorage, AK 99502

PHONE: 907-222-1112

P.O. # 005.0065.05003

FAX: 907-222-1113

PROJECT # Trailside

DATE RECEIVED: 11/08/2005

CONTACT: Nicole Danbacher

DATE COMPLETED: 11/20/2005

DATE REISSUED: 12/5/05

Table with 4 columns: FRACTION #, NAME, TEST, RECEIPT VAC./PRES. containing test results for various samples like Bathroom, LIO Front, Video Store, etc.

CERTIFIED BY: [Signature]

DATE: 12/05/05

Laboratory Director

Certification numbers: AR-DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 916638982

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/05, Expiration date: 06/30/06 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15
SLR Alaska
Workorder# 0511182R1

Five 6L iter Summa Canister (100% Certified) samples were received on November 08, 2005. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 1.0 liter of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Blank and standards	Zero air	Nitrogen
Dilutions for initial calibration	Dynamic dilutions or static using canisters.	Syringe dilutions may also be utilized.
BFB acceptance criteria	CLP protocol	SW-846 protocol
Daily Calibration	+/- 30% Difference	<= 30% Difference with four allowed out up to <=40%.; flag and narrate outliers
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

THE WORDING OF THE RECEIVING NOTES SECTION WAS CLARIFIED IN THIS REISSUE TO READ AS THE FOLLOWING:

Samples Video Store and Exterior arrived under pressure yet flow controllers were used for sample collection. The client requested confirmation of the flow controller operation. Verification of the flow controllers by the Support Services team at Air Toxics Ltd. showed they were functioning correctly. The client was notified of the discrepancy and the analysis proceeded.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

THE WORK ORDER WAS REISSUED ON 12/5/2005 TO REPORT NAPHTHALENE WITH A REPORTING LIMIT OF 0.5 PPBV. DUE TO LABORATORY ERROR, THE REPORT WAS ORIGINALLY ISSUED WITH A REPORTING LIMIT OF 2.0 PPBV FOR NAPHTHALENE. ALL

RESULTS REMAINED NOT DETECTED FOR THIS COMPOUND.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.
Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: Bathroom

Lab ID#: 0511182R1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.17	0.64	0.54	2.0
Toluene	0.17	1.4	0.63	5.3
Ethyl Benzene	0.17	0.18	0.73	0.80
m,p-Xylene	0.17	0.72	0.73	3.1
o-Xylene	0.17	0.24	0.73	1.0

Client Sample ID: LIO Front

Lab ID#: 0511182R1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.17	0.48	0.54	1.6
Toluene	0.17	1.0	0.63	3.9
Ethyl Benzene	0.17	0.24	0.73	1.0
m,p-Xylene	0.17	0.86	0.73	3.7
o-Xylene	0.17	0.26	0.73	1.1

Client Sample ID: LIO Front Duplicate

Lab ID#: 0511182R1-02AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.17	0.58	0.54	1.8
Toluene	0.17	1.0	0.63	3.9
Ethyl Benzene	0.17	0.25	0.73	1.1
m,p-Xylene	0.17	0.85	0.73	3.7
o-Xylene	0.17	0.23	0.73	1.0

Client Sample ID: Video Store

Lab ID#: 0511182R1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.13	1.2	0.42	3.7
Toluene	0.13	3.0	0.50	11
Ethyl Benzene	0.13	2.3	0.57	10
m,p-Xylene	0.13	10	0.57	44
o-Xylene	0.13	2.7	0.57	12

Client Sample ID: Exterior

Lab ID#: 0511182R1-04A

Client Sample ID: Exterior

Lab ID#: 0511182R1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.12	0.42	0.39	1.3
Toluene	0.12	0.61	0.46	2.3
m,p-Xylene	0.12	0.23	0.52	0.99

Client Sample ID: Air Dup

Lab ID#: 0511182R1-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.14	1.2	0.43	3.8
Toluene	0.14	4.0	0.51	15
Ethyl Benzene	0.14	2.8	0.59	12
m,p-Xylene	0.14	12	0.59	50
o-Xylene	0.14	3.2	0.59	14

AIR TOXICS LTD.

Client Sample ID: Bathroom

Lab ID#: 0511182R1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7111512	Date of Collection:	11/5/05
Dil. Factor:	1.68	Date of Analysis:	11/15/05 08:32 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.17	0.64	0.54	2.0
Toluene	0.17	1.4	0.63	5.3
Ethyl Benzene	0.17	0.18	0.73	0.80
m,p-Xylene	0.17	0.72	0.73	3.1
o-Xylene	0.17	0.24	0.73	1.0
Naphthalene	0.84	Not Detected	4.4	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

Client Sample ID: LIO Front

Lab ID#: 0511182R1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7111513	Date of Collection:	11/5/05
Dil. Factor:	1.68	Date of Analysis:	11/15/05 09:34 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.17	0.48	0.54	1.6
Toluene	0.17	1.0	0.63	3.9
Ethyl Benzene	0.17	0.24	0.73	1.0
m,p-Xylene	0.17	0.86	0.73	3.7
o-Xylene	0.17	0.26	0.73	1.1
Naphthalene	0.84	Not Detected	4.4	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

Client Sample ID: LIO Front Duplicate

Lab ID#: 0511182R1-02AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7111514	Date of Collection:	11/5/05
Dil. Factor:	1.68	Date of Analysis:	11/15/05 10:33 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.17	0.58	0.54	1.8
Toluene	0.17	1.0	0.63	3.9
Ethyl Benzene	0.17	0.25	0.73	1.1
m,p-Xylene	0.17	0.85	0.73	3.7
o-Xylene	0.17	0.23	0.73	1.0
Naphthalene	0.84	Not Detected	4.4	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

Client Sample ID: Video Store

Lab ID#: 0511182R1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7111515	Date of Collection:	11/5/05
Dil. Factor:	1.32	Date of Analysis:	11/16/05 12:46 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.13	1.2	0.42	3.7
Toluene	0.13	3.0	0.50	11
Ethyl Benzene	0.13	2.3	0.57	10
m,p-Xylene	0.13	10	0.57	44
o-Xylene	0.13	2.7	0.57	12
Naphthalene	0.66	Not Detected	3.4	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

Client Sample ID: Exterior

Lab ID#: 0511182R1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7111516	Date of Collection:	11/5/05
Dil. Factor:	1.21	Date of Analysis:	11/16/05 01:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.12	0.42	0.39	1.3
Toluene	0.12	0.61	0.46	2.3
Ethyl Benzene	0.12	Not Detected	0.52	Not Detected
m,p-Xylene	0.12	0.23	0.52	0.99
o-Xylene	0.12	Not Detected	0.52	Not Detected
Naphthalene	0.60	Not Detected	3.2	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

Client Sample ID: Air Dup

Lab ID#: 0511182R1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7111517	Date of Collection:	11/5/05
Dil. Factor:	1.36	Date of Analysis:	11/16/05 02:30 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.14	1.2	0.43	3.8
Toluene	0.14	4.0	0.51	15
Ethyl Benzene	0.14	2.8	0.59	12
m,p-Xylene	0.14	12	0.59	50
o-Xylene	0.14	3.2	0.59	14
Naphthalene	0.68	Not Detected	3.6	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

Client Sample ID: Lab Blank

Lab ID#: 0511182R1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7111507	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/15/05 03:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.10	Not Detected	0.32	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Naphthalene	0.50	Not Detected	2.6	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

Client Sample ID: CCV

Lab ID#: 0511182R1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7111503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/15/05 11:46 AM

Compound	%Recovery
Benzene	92
Toluene	100
Ethyl Benzene	102
m,p-Xylene	103
o-Xylene	103
Naphthalene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

Client Sample ID: LCS

Lab ID#: 0511182R1-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7111504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/15/05 12:38 PM

Compound	%Recovery
Benzene	88
Toluene	100
Ethyl Benzene	100
m,p-Xylene	106
o-Xylene	95
Naphthalene	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130