July 30, 2013
Project 101.00989.00003

Mr. Frank Stauff
Director of Construction & Development
PMF Investments, LLC
15015 Main Street, Suite 203
Bellevue, Washington 98007

**Re: Additional Subsurface Investigation Report**
**Former 395 Cleaners Facility – Kennewick Plaza Shopping Center**
**128 South Ely Street**
**Kennewick, Washington**

Dear Mr. Stauff,

SLR International Corporation (SLR) has prepared this report for PMF Investments, LLC (PMF) to present the results of additional subsurface investigation activities that were performed at the former 395 Cleaners facility located in the southeast portion of the Kennewick Plaza Shopping Center (subject property) at 128 South Ely Street in Kennewick, Washington (see Figures 1 and 2). The objective of the additional investigation was to assess the current chlorinated volatile organic compound (CVOC) concentrations in soil beneath the former dry cleaning facility.

## BACKGROUND

The subject property consists of Benton County Tax Parcels 103891012524001, 1038911110000001, 103891012524003, 103891012524002, and 103891110000003 which comprise approximately 13.07 acres. The subject property was developed in 1979 as the Kennewick Plaza Shopping Center. Prior to 1979, the subject property was primarily used for farming. The former 395 Cleaners operated in the southeast portion of the subject property from 1983 through at least 2000. The tenant space formerly occupied by 395 Cleaners is currently operated as a nail salon.

ATC Associates, Inc. (ATC) prepared a *Phase I Environmental Site Assessment, Kennewick Plaza* (Phase I ESA), dated December 13, 1999. The findings of the Phase I ESA identified that 395 Cleaners & Laundromat, located in the southeastern portion of the subject property, operated only as a "drop-off" dry cleaner and laundromat. However, additional information was obtained after the Phase I ESA was issued indicating that a dry cleaning machine had previously operated in the tenant space.

ATC conducted a preliminary assessment of the subsurface conditions in the area of 395 Cleaners at the subject property in December 1999 and January 2000. Soil samples collected

from hand auger borings HA-1 and HA-2 contained tetrachloroethene (PCE) at concentrations of 0.14 milligrams per kilogram (mg/kg) to 0.16 mg/kg, respectively, which did not exceed the Washington State Department of Ecology's (Ecology) Model Toxics Control Act (MTCA) Method A cleanup level of 0.5 mg/kg in 2000. However, the PCE concentrations exceeded the current Method A soil cleanup level of 0.05 mg/kg. The results of the assessment were presented in ATC's *Subsurface Investigation* report, dated February 2, 2000.

ATC conducted supplemental subsurface investigation activities at the subject property during March 2000, as documented in the *Report of Subsurface Investigation*, dated May 5, 2000. The supplemental investigation included the collection of soil vapor and soil samples from soil borings advanced in the area of the 395 Cleaners tenant space. A total of 14 soil vapor samples [VP-1(12), VP-2(4), VP-3(12), VP-4(4), VP-4(8), VP-4(12), VP-5(4), VP-5(8), VP-6(12), VP-7(9), VP-8(3), VP-10(2.5), VP-11(3), and VP-12(2.5)] contained one or more VOCs at concentrations that exceeded current applicable MTCA Method B soil gas screening levels. One soil sample contained a PCE concentration of 0.07 mg/kg [boring SP-4 at 8-feet below ground surface (bgs)], and one soil sample contained a trichloroethene (TCE) concentration of 0.09 mg/kg (boring VP-11-5 at 1-foot bgs) that did not exceed MTCA Method A cleanup levels (0.5 mg/kg for both) at the time. However, those PCE and TCE concentrations exceeded the current Method A soil cleanup levels for PCE and TCE (0.05 mg/kg and 0.03 mg/kg, respectively). The locations of the soil vapor probes and soil borings are shown on Figure 3.

From June 25 through June 27, 2013, SLR conducted subsurface investigation activities that included the drilling and sampling of two soil borings and the collection of soil vapor, ambient air, and indoor air samples in the area of 395 Cleaners at the subject property to assess current VOC concentrations in soil and soil vapor beneath and near the former dry cleaning facility, and to assess groundwater conditions, if possible.

Soil borings DSB-1 and DSB-2 were advanced to depths of approximately 51.5-feet bgs and 21.0-feet bgs, respectively. Groundwater was not encountered in either boring advanced at the subject property. Two additional borings were intended to be located inside the tenant space near locations of previously elevated soil and soil vapor concentrations. However, refusal was encountered immediately beneath the concrete slab of the tenant space, and attempts to drill the interior borings were terminated. The locations of DSB-1 and DSB-2 are shown on Figure 3.

To assess potential indoor air risks in the existing building that are due to chlorinated VOC-impacted soil vapors associated with the former 395 Cleaner operations, SLR collected sub-slab soil vapor samples from two locations inside the building (designated as SSSV-1 and SSSV-2), one indoor air sample (designated as INDOOR), and an ambient air sample (designated as AMBIENT). In addition, a soil vapor sample was collected at a depth of approximately 10 feet bgs from boring DSB-2 (designated DSB-2). The locations where the soil vapor, ambient air, and indoor air samples were collected are shown on Figure 3.

Soil sample analytical results showed that none of the samples contained VOC concentrations above the laboratory's method reporting limits (MRLs). The sub-slab soil vapor samples contained concentrations of several VOCs at concentrations that exceeded applicable MTCA Method B soil gas screening levels. The indoor air sample contained several VOCs at concentrations that exceeded applicable MTCA Method B indoor air screening levels; however, the indoor air sample only had exceedances of VOCs that are likely attributable to chemicals and products used at the nail salon that currently operates in the tenant space. The results of the assessment were presented in SLR's *Subsurface Investigation Report*, dated July 22, 2013.

## SUBSURFACE INVESTIGATION ACTIVITIES

On July 25, 2013, the additional subsurface investigation activities included the advancement and sampling of two soil borings inside the former 395 Cleaners tenant space to assess the current CVOC concentrations in soil beneath the former dry cleaning facility. Soil borings designated as SLR-1 and SLR-2 were advanced at locations inside the tenant space at locations of previously elevated soil concentrations (borings HA-1 and HA-2). The locations of SLR-1 and SLR-2 are shown on Figure 3.

Prior to drilling, the locations of the underground utilities in the vicinity of the proposed borings were identified by using both the public one-call locating service and by Utilities Plus, LLC of Yakima, Washington, a private utility locating company. Pro-Cut Concrete Cutting & Breaking, Inc. (Pro-Cut) of Kennewick, Washington, advanced two 8-inch diameter cores through the concrete slab to allow for the collection of soil samples. Soil borings SLR-1 and SLR-2 were advanced to approximately 2.0-feet bgs by an SL R geologist using a spade, rock-bar, and trowel. Upon completion, each boring was backfilled with concrete to match the existing surface concrete slab inside the tenant space.

During the advancement of each boring, soil was logged in accordance with the Unified Soils Classification System (USCS). SLR screened the soil from each boring for the potential presence of CVOCs by using visual appearance, odors, and photoionization detector (PID) readings.

Soil samples were collected at depths of 0.5-feet and 1.0-feet bgs in borings SLR-1 and SLR-2, respectively, which correspond with depths of soil samples collected from previous borings HA-1 and HA-2 where elevated concentrations of PCE were previously identified by ATC. The soil samples were submitted to Friedman & Bruya, Inc. (F&B) in Seattle, Washington for analysis of CVOCs by EPA Method 8260C.

## RESULTS

The subsurface investigation results are summarized below:

- The soil encountered during advancement of the borings generally consisted of cobbles with trace to few amounts of gravel and sand to the maximum depth explored of

approximately 2-feet bgs. Copies of the soil boring logs for SLR-1 and SLR-2 are attached.

- The results of field screening did not indicate that any staining or odors were present in the soil borings, and PID readings did not exceed 0.0 parts per million (ppm) total volatile organic compounds (tvocs).
- Soil sample analytical results showed that none of the samples contained CVOC concentrations above the laboratory's method reporting limits (MRLs).

The soil sample analytical results are summarized in Table 1. Copies of the laboratory report are attached.

**CONLCUSION**

In July 2013, SLR conducted additional subsurface investigation activities at the former 395 Cleaner tenant space to assess the current CVOC concentrations in the soil beneath the facility. The investigation results indicated that CVOCs were not detected in the soil samples collected from beneath the former 395 Cleaner tenant space.

Based on the soil sample analytical results, PCE and associated breakdown products do not appear to be present in the shallow soil beneath the former 395 Cleaner tenant space at concentrations of regulatory concern.

If you have any questions or comments about this report, please contact Greg Lish at (425) 402-8800.

Sincerely,
**SLR International Corporation**

Gregory B. Lish, LG
Associate Geologist

for Michael D. Staton, LG
Principal Geologist

Enc Limitations
Table 1
Figures 1 through 3
Boring Logs
Laboratory Analytical Reports

# 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.

# Table 1
# Soil Sample Analytical Results - CVOCs
# Former 395 Cleaners - Kennewick Plaza
# Kennewick, Washington

| Soil Boring Number | Sample ID | Approx. Sample Depth (feet) | Date Collected | CVOCs[a] | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Tetrachloroethene | Trichloroethene | cis-1,2-Dichloroethene | trans-1,2-dichloroethene | Vinyl Chloride |
| **MTCA Cleanup Levels[b]** | | | | **0.05** [b] | **0.03** [b] | **160** [c] | **1,600** [c] | **240** [c] |
| SLR-1 | SLR-1-0.5 | 0.5 | 7/25/2013 | <0.025 | <0.03 | <0.05 | <0.05 | <0.05 |
| SLR-2 | SLR-2-1.0 | 1.0 | 7/25/2013 | <0.025 | <0.03 | <0.05 | <0.05 | <0.05 |

**Notes:**

All values in milligrams per kilogram (mg/kg).

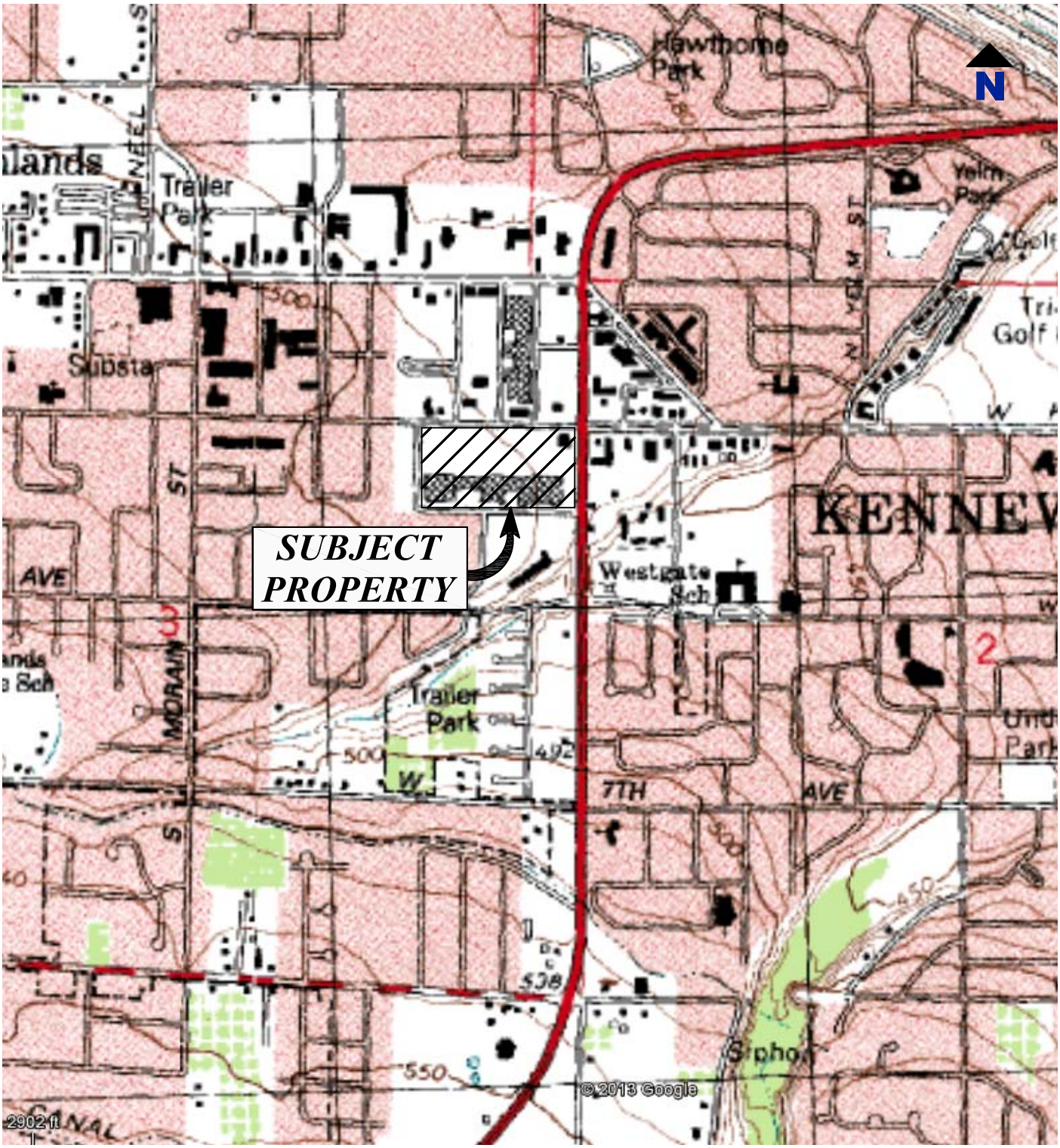
Values in bold represent concentrations above MTCA Cleanup Levels.

CVOCs = chloronated volatile organic compounds

[a] Analyzed by EPA Method 8260C.

[b] Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Table 740-1, Method A Soil Cleanup Levels for Unrestriced Land Uses.

[c] Method B cleanup level used because Method A level is not established. Standard formula values, direct contact Method B soil cleanup levels as published on Ecology's Cleanup Level and Risk Calculations (CLARC) on-line database (June 2013).




REFERENCED FROM: USGS 7.5 MINUTE QUADRANGLE
KENNEWICK, WA

0 1,000 2,000 3,000'

THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

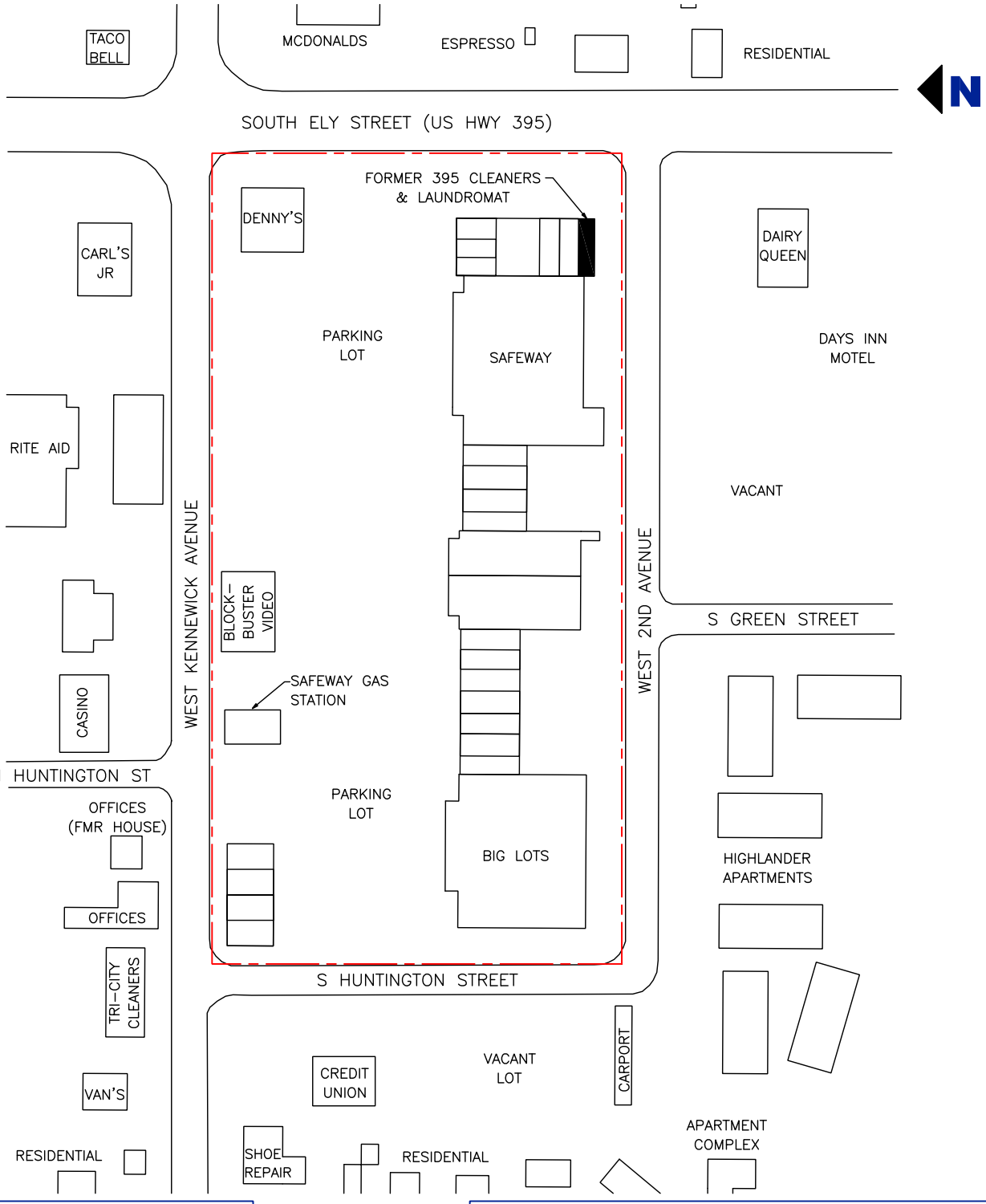
SLR

KENNEWICK PLAZA - FORMER 395 CLEANER AND LAUNDROMAT 128 SOUTH ELY STREET KENNEWICK, WASHINGTON

Drawing
SITE LOCATION

| | | | |
|---|---|---|---|
| Date July 18, 2013 | | Scale AS SHOWN | Fig. No. 1 |
| File Name 0-1-1 | | Project No. 101.00000.00000 | |

Last Saved: July 18, 2013 4:16:46 PM by tweber Drawing path: N:\Bothell\1 PROJECTS\PMF Investments - 989\00003 Kennewick Plaza - Former Dry Cleaner\FIGURES\0-1.dwg




LEGEND

KENNEWICK PLAZA

0 200 400 600'

THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

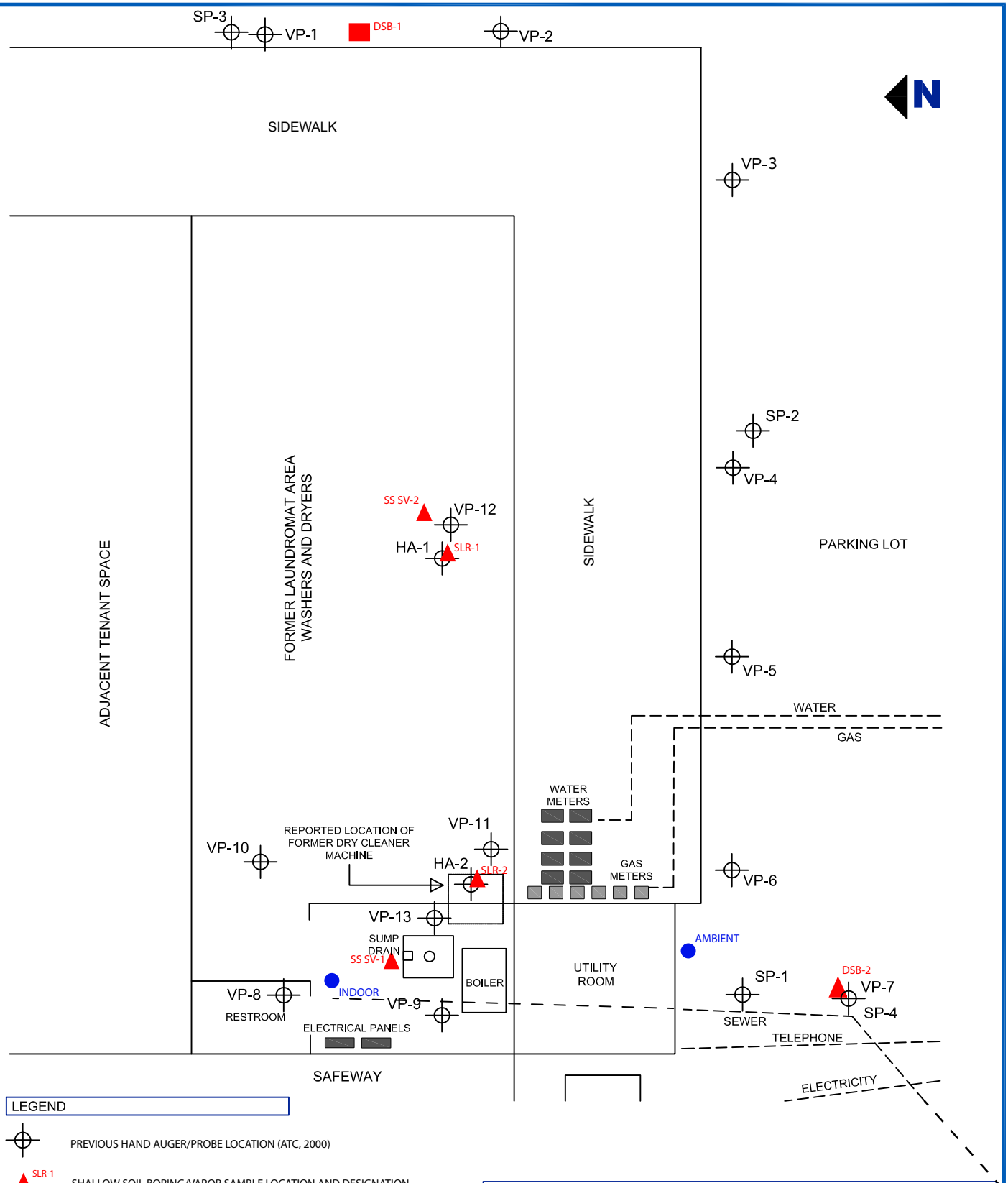
# FORMER 395 CLEANERS & LAUNDROMAT
# KENNEWICK PLAZA
# W KENNEWICK AVE AND S ELY ST
# KENNEWICK, WASHINGTON

Drawing
## PLAN VIEW OF SUBJECT PROPERTY

| | | | |
|---|---|---|---|
| Date | July 16, 2013 | Scale | AS SHOWN |
| File Name | 101.00989.00003-1 | Project No. | 101.00989.00003 |

Fig. No. 2

SLR
22118 20th AVE SE
BLDG. G, SUITE 202
BOTHELL, WA 98021
T: 425-402-8800
F: 425-402-8488




LEGEND

- PREVIOUS HAND AUGER/PROBE LOCATION (ATC, 2000)
- SLR-1 — SHALLOW SOIL BORING/VAPOR SAMPLE LOCATION AND DESIGNATION
- DSB-1 — DEEP SOIL BORING LOCATION AND DESIGNATION
- INDOOR — AMBIENT/INDOOR AIR SAMPLE LOCATION AND DESIGNATION

0 10 20 30’

THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

SLR

# FORMER 395 CLEANERS & LAUNDROMAT - KENNEWICK PLAZA
# 128 SOUTH ELY STREET
# KENNEWICK, WA

Drawing
## SITE PLAN WITH INVESTIGATION LOCATIONS

| | | | |
|---|---|---|---|
| Date MAY 21, 2013 | Scale AS SHOWN | Fig. No. 3 |
| File Name F3-2_INVESTIGATION LOCATIONS | Project No. 101.000989.00003 | |

N:\Bothell\1 PROJECTS\PMF Investments - 989\00004 Kennewick Plaza - Former Dry Cleaner\FIGURES

# BORING NUMBER SLR-1



SLR International Corporation
22118 20th Ave SE, Suite G202
Bothell, WA 98021

**CLIENT** PMF Investments, LLC
**PROJECT NAME** Former 395 Cleaners
**PROJECT NUMBER** 101.00989.00003
**PROJECT LOCATION** Kennewick, WA
**DATE STARTED** 7/23/13 **COMPLETED** 7/23/13
**DRILLING METHOD** Hand Tools
**DRILLING CONTRACTOR** N/A
**GROUNDWATER ENCOUNTERED AT:** N/A
**LOGGED BY** C. Lee **CHECKED BY** G. Lish
**NOTES**

| DEPTH (ft) | SAMPLE TYPE NUMBER | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|
| 0 | | | | CONCRETE | 0 |
| 0.5 | | | | | |
| 1 | SLR-1 -0.5 | | | COBBLES, brown, 3" to 12" in diameter, few very fine-grained sand, trace fine to coarse gravel, damp, no odors or staining. | 0 |
| | | | | | 0 |
| | | | | | 0 |
| 2 | | | | | |
| 2.0 | | | | Bottom of boring at 2.0 feet. | |

## REMARKS

PID=PHOTOIONIZATION DETECTOR

# BORING NUMBER SLR-2



SLR International Corporation
22118 20th Ave SE, Suite G202
Bothell, WA 98021

**CLIENT** PMF Investments, LLC
**PROJECT NAME** Former 395 Cleaners
**PROJECT NUMBER** 101.00989.00003
**PROJECT LOCATION** Kennewick, WA
**DATE STARTED** 7/23/13 **COMPLETED** 7/23/13
**DRILLING METHOD** Hand Tools
**DRILLING CONTRACTOR** N/A
**GROUNDWATER ENCOUNTERED AT:** N/A
**LOGGED BY** C. Lee **CHECKED BY** G. Lish
**NOTES**

| DEPTH (ft) | SAMPLE TYPE NUMBER | U.S.C.S. | GRAPHIC LOG | MATERIAL DESCRIPTION | PID (ppm) |
|---|---|---|---|---|---|
| 0 | | | | CONCRETE | 0 |
| 0.5 | | | | COBBLES, brown, 3" to 8" in diameter, few very fine-grained sand, few fine to coarse gravel, damp, no odors or staining. | 0 |
| 1 | SLR-2 -1.0 | | | | 0 |
| | | | | | 0 |
| 2 | | | | | |
| 2.0 | | | | Bottom of boring at 2.0 feet. | |

## REMARKS

PID=PHOTOIONIZATION DETECTOR

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 30, 2013

Greg Lish
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Lish:

Included are the results from the testing of material submitted on July 26, 2013 from the Former 395 Dry Cleaners Kennewick WA 101.00989.00003, F&BI 307412 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz
Chemist

Enclosures
SLR0731R.DOC

## CASE NARRATIVE

This case narrative encompasses samples received on July 26, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Former 395 Dry Cleaners Kennewick WA 101.00989.00003, F&BI 307412 project. Samples were logged in under the laboratory ID's listed below.

| Laboratory ID | SLR International Corp. |
|---|---|
| 307412-01 | SLR-1-0.5' |
| 307412-02 | SLR-2-1.0' |

All quality control requirements were acceptable.

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | SLR-1-0.5' | Client: | SLR International Corp. |
| Date Received: | 07/26/13 | Project: | Fmr 395 Dry Cleaners Kennewick |
| Date Extracted: | 07/29/13 | Lab ID: | 307412-01 |
| Date Analyzed: | 07/29/13 | Data File: | 072908.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) | Operator: | JS |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | 62 | 142 |
| Toluene-d8 | 100 | 51 | 121 |
| 4-Bromofluorobenzene | 98 | 32 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|---|---|
| Vinyl chloride | <0.05 |
| Chloroethane | <0.5 |
| 1,1-Dichloroethene | <0.05 |
| Methylene chloride | <0.5 |
| trans-1,2-Dichloroethene | <0.05 |
| 1,1-Dichloroethane | <0.05 |
| cis-1,2-Dichloroethene | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 |
| 1,1,1-Trichloroethane | <0.05 |
| Trichloroethene | <0.03 |
| Tetrachloroethene | <0.025 |

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | SLR-2-1.0' | Client: | SLR International Corp. |
| Date Received: | 07/26/13 | Project: | Fmr 395 Dry Cleaners Kennewick |
| Date Extracted: | 07/29/13 | Lab ID: | 307412-02 |
| Date Analyzed: | 07/29/13 | Data File: | 072909.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) | Operator: | JS |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 62 | 142 |
| Toluene-d8 | 101 | 51 | 121 |
| 4-Bromofluorobenzene | 101 | 32 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|---|---|
| Vinyl chloride | <0.05 |
| Chloroethane | <0.5 |
| 1,1-Dichloroethene | <0.05 |
| Methylene chloride | <0.5 |
| trans-1,2-Dichloroethene | <0.05 |
| 1,1-Dichloroethane | <0.05 |
| cis-1,2-Dichloroethene | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 |
| 1,1,1-Trichloroethane | <0.05 |
| Trichloroethene | <0.03 |
| Tetrachloroethene | <0.025 |

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | Method Blank | Client: | SLR International Corp. |
| Date Received: | Not Applicable | Project: | Fmr 395 Dry Cleaners Kennewick |
| Date Extracted: | 07/29/13 | Lab ID: | 03-1465 mb |
| Date Analyzed: | 07/29/13 | Data File: | 072907.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) | Operator: | JS |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 62 | 142 |
| Toluene-d8 | 100 | 51 | 121 |
| 4-Bromofluorobenzene | 99 | 32 | 146 |

| Compounds: | Concentration mg/kg (ppm) |
|---|---|
| Vinyl chloride | <0.05 |
| Chloroethane | <0.5 |
| 1,1-Dichloroethene | <0.05 |
| Methylene chloride | <0.5 |
| trans-1,2-Dichloroethene | <0.05 |
| 1,1-Dichloroethane | <0.05 |
| cis-1,2-Dichloroethene | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 |
| 1,1,1-Trichloroethane | <0.05 |
| Trichloroethene | <0.03 |
| Tetrachloroethene | <0.025 |

Date of Report: 07/30/13
Date Received: 07/26/13
Project: Former 395 Dry Cleaners Kennewick WA 101.00989.00003, F&BI 307412

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 307412-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result (Wet wt) | Percent Recovery MS | Percent Recovery MSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|---|
| Vinyl chloride | mg/kg (ppm) | 2.5 | <0.05 | 42 | 43 | 10-138 | 2 |
| Chloroethane | mg/kg (ppm) | 2.5 | <0.5 | 56 | 56 | 10-176 | 0 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2.5 | <0.05 | 57 | 60 | 10-160 | 5 |
| Methylene chloride | mg/kg (ppm) | 2.5 | <0.5 | 42 | 42 | 10-156 | 0 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | <0.05 | 69 | 70 | 14-137 | 1 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2.5 | <0.05 | 73 | 75 | 19-140 | 3 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | <0.05 | 77 | 78 | 25-135 | 1 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2.5 | <0.05 | 80 | 80 | 12-160 | 0 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2.5 | <0.05 | 71 | 72 | 10-156 | 1 |
| Trichloroethene | mg/kg (ppm) | 2.5 | <0.03 | 78 | 77 | 21-139 | 1 |
| Tetrachloroethene | mg/kg (ppm) | 2.5 | <0.025 | 75 | 73 | 20-133 | 3 |

Date of Report: 07/30/13
Date Received: 07/26/13
Project: Former 395 Dry Cleaners Kennewick WA 101.00989.00003, F&BI 307412

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---|---|---|---|---|
| Vinyl chloride | mg/kg (ppm) | 2.5 | 58 | 22-139 |
| Chloroethane | mg/kg (ppm) | 2.5 | 67 | 10-163 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2.5 | 77 | 47-128 |
| Methylene chloride | mg/kg (ppm) | 2.5 | 54 | 42-132 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | 86 | 67-127 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2.5 | 87 | 68-115 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | 91 | 72-113 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2.5 | 91 | 56-135 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2.5 | 88 | 62-131 |
| Trichloroethene | mg/kg (ppm) | 2.5 | 90 | 64-117 |
| Tetrachloroethene | mg/kg (ppm) | 2.5 | 85 | 72-114 |

# Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

307412

# SAMPLE CHAIN OF CUSTODY

KJ 07/26/13 VSI

Page # 1 of 1

Send Report To GREG LISH

Company SLR INTERNATIONAL CORPORATION

Address 22118 20TH AVE SE, G-202

City, State, ZIP BOTHELL, WA 98021

Phone # (425) 402-8800 Fax # (425) 402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: FORMER 395 DRY CLEANERS KENNEWICK, WA 101.00989.00003

PO#: 101.00989.00003

REMARKS

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☒ RUSH 24-HRS

Rush charges authorized by CAL

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

| Sample ID | Lab ID | Date Sampled | Time Sampled | Sample Type | # of containers | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by8260 | SVOCs by 8270 | HFS | HVOCs by 8260 | | | | | | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | ANALYSES REQUESTED | | | | | | | | | | | | |
| SLR-1-0.5' | 01 A-H | 7/25/13 | 2120 | SOIL | 8 | | | | | | | X | | | | | | |
| SLR-2-1.0' | 02 A-H | ↓ | 2030 | ↓ | ↓ | | | | | | | ↓ | | | | | | |
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| | | | | | | | | | | | | | | | | | | Samples received at 4 °C |
| | | | | | | | | | | | | | | | | | | |

| SIGNATURE | PRINT NAME | COMPANY | DATE | TIME |
|---|---|---|---|---|
| Relinquished by: | CHRIS LEE | SLR | 7/25/13 | 12:45 |
| Received by: | ERIC HOWE | FEB | 7/26/13 | 13:05 |
| Relinquished by: | | | | |
| Received by: | | | | |

*Friedman & Bruya, Inc.*
*3012 16th Avenue West*
*Seattle, WA 98119-2029*
*Ph. (206) 285-8282*
*Fax (206) 283-5044*

FORMS\COC\COC.DOC