

Phase II Environmental Site Characterization

Legend Auto Sales

Vacant Lot

1720 River Road

Puyallup, WA 98371

HydroCon Project Number: 10149-001.00

Prepared for:

Legend Auto Sales

1632 River Road

Puyallup, WA 98371

July 20, 2023

Prepared by:



HydroCon, LLC

314 W 15th Street, Suite 300 Vancouver, Washington 98660

p: (360) 703-6079 f: (360) 703-6086

www.hydroconllc.net



Table of Contents

1.0 INTRODUCTION	1
2.0 PERMITTING AND HEALTH AND SAFETY	1
2.1 Permits	1
2.2 Health and Safety Plan	1
2.3 Underground Utility Locates	1
3.0 SOIL BORING AND SAMPLING ACTIVITIES	1
3.1 Temporary Soil Borings	1
3.2 Field Screening	2
3.3 Soil and Groundwater Sampling	2
3.4 Laboratory Analysis	3
4.0 INVESTIGATION RESULTS	3
4.1 Subsurface Conditions	3
4.2 Field Screening Results	3
4.3 Soil Sampling Results	3
4.4 Groundwater Sampling Results	4
5.0 DISCUSSION	4
5.1 Discussion	4
6.0 QUALIFICATIONS	4

List of Figures

Figure 1 – Site Location

Figure 2 – Site Features

List of Tables

Table 1 – Summary of Soil Analytical Results

Table 2 – Summary of Groundwater Analytical Results

Appendices

Appendix A – Boring Logs

Appendix B – Laboratory Report and Chain-of-Custody Documentation

1.0 INTRODUCTION

HydroCon was retained by Legend Auto Sales to complete a Phase II Site Characterization to provide a baseline on the environmental health of a vacant lot prior to repurposing as auto sales parking. The proposed parking site is located at 1720 River Road in Puyallup, Washington (Figure 1).

The scope of work included advancing six temporary soil borings distributed across the property; observation and field screening of soil; collection of soil samples; collection of one groundwater sample; laboratory analysis of the soil and groundwater samples for total petroleum hydrocarbons (TPH) using Northwest Method NWTPH-HCID; and a discussion of laboratory analytical results.

2.0 PERMITTING AND HEALTH AND SAFETY

2.1 *Permits*

No permits were necessary to complete the scope of work.

2.2 *Health and Safety Plan*

HydroCon prepared a site-specific health and safety plan (HASP) to govern health and safety protocols used during this investigation. Work was performed using Occupational Safety and Health Administration (OSHA) Level D work attire consisting of hard hats, safety glasses, protective gloves, and protective boots.

2.3 *Underground Utility Locates*

Prior to the commencement of any subsurface activities public utility notification was requested through the Washington One Call Service (ticket number 23243455). In addition, HydroCon contracted with LineScope Inc. to perform private utility locates for the site.

3.0 SOIL BORING AND SAMPLING ACTIVITIES

This section provides a discussion of the fieldwork procedures used to complete the Phase II Site Characterization.

3.1 *Temporary Soil Borings*

Anderson Environmental Contracting, LLC (AEC) was subcontracted to perform the drilling services. A total of six (6) borings (HC01 through HC06). On June 26th, HC01 through HC05 were advanced to a maximum depth of 15 feet bgs and HC06 was advanced to a depth of 20 feet bgs to evaluate current

soil and groundwater conditions at the site. The soil borings were advanced using direct-push drilling techniques. Borings were placed around the property to attain the most site coverage as shown on Figure 2.

Each boring was advanced in five-foot intervals to its maximum depth of 15 to 20 feet bgs. Continuous soil samples were collected using a five-foot long “macro” core tube sampler equipped with new, clear polyethylene liners. All soil cores were inspected for lithologic composition, presence of water, and field screened for the presence of petroleum hydrocarbons (explained in further detail in Section 3.2). Boring logs detailing the lithology, field screening results, and sample depths are included in Appendix A.

All dedicated drilling and sampling tools were decontaminated between boring locations using a hot water pressure washer. All investigation derived waste (IDW) was contained in a labeled 55-gallon drum which is temporarily being stored at the site pending disposal to a licensed disposal facility.

3.2 Field Screening

Field screening methods were used to evaluate the potential presence of hydrocarbons in soil and for the selection of sampling locations for laboratory analysis. Field screening consisted of volatile organic vapor measurements using a photoionization detector (PID), sheen testing, visual observations (staining, etc.), and olfactory observations. The PID was calibrated before use at the site to a test gas standard consisting of 100 ppm isobutylene. A portion of each soil sample was placed in a sealable plastic baggie. The tip of the PID was inserted into the plastic bag in the airspace above the soil sample and the PID measurement was recorded on the field notes. Sheen testing consisted of placing a small portion of soil in clear water and observing the water for the presence of hydrocarbon sheen. Because several factors can affect PID readings (e.g. moisture, temperature, and background conditions), HydroCon determined that a value of 2 ppm or greater may indicate the presence of organic vapors originating from contaminants at the site.

3.3 Soil and Groundwater Sampling

HydroCon selected two soil samples per boring for laboratory analysis based on field screening results. The sample with the highest PID reading was selected from each boring. Soil samples collected from near surface soils and soils at the groundwater interface were submitted from the borings where no field indication of contamination was present.

The selected soil samples were removed from the polyethylene tubing using a new pair of disposable gloves and placed directly into labeled laboratory prepared jars and sealed with Teflon-lined lids. Soil samples were placed into laboratory supplied containers and immediately placed in an ice filled cooler along with chain-of-custody documentation for delivery to Friedman and Bruya in Seattle, Washington.

After the completion of soil sampling, one soil boring (HC06) were fitted with temporary wells constructed with 1-inch diameter PVC well materials including a 10-foot length of slotted well screen and blank PVC casing.

A minimum of 1 liter of water was purged from the temporary well prior to sample collection. The groundwater samples were collected from the temporary well using a peristaltic pump and new, low-density polyethylene (LDPE) tubing. Groundwater samples were placed in laboratory supplied containers and then placed in an iced cooler for delivery to Friedman and Bruya in Seattle, Washington.

3.4 Laboratory Analysis

The soil and groundwater samples submitted to the laboratory were analyzed for TPH using Northwest Method NWTPH-HCID.

4.0 INVESTIGATION RESULTS

This section documents the results of the field investigation.

4.1 Subsurface Conditions

The soil underlying the site is composed of unconsolidated sediments (sand, silt, and gravels) that extend to the maximum depth investigated 20 feet bgs. The uppermost soil, surface to 9 feet bgs consists of light brown fine sandy loam with trace non-plastic fines. This is underlain by a medium brown fine to medium sand with trace non-plastic fines to a depth of 18 feet bgs. Below this material is a black medium grained clean sand. Perched groundwater was encountered at a depth of 9 feet bgs in each boring. This perched zone appeared in a 6-to-8-inch lens, groundwater was encountered at a depth of 18 feet bgs with in the black sand zone and was very productive. The inferred groundwater direction at this Site is to the north toward the nearby Puyallup River.

4.2 Field Screening Results

Results of field screening did not indicate any evidence of petroleum impacted soil. PID readings recorded at all borings were 0.0 parts per million (ppm) and sheen testing of the soil did not product a sheen. No hydrocarbon odor or staining was observed in any of the sample cores.

4.3 Soil Sampling Results

Soil analytical results are reported as milligrams per kilogram (mg/kg) which is equal to ppm. The results are summarized on Table 1. The laboratory analytical reports are included in Appendix B.

No analytes were detected above the laboratory method reporting limit (MRL).

4.4 Groundwater Sampling Results

Groundwater analytical results are reported as micrograms per liter ($\mu\text{g/L}$) which is equal to parts per billion (ppb). The groundwater sampling results are summarized on Table 2.

No analytes were detected above the laboratory method reporting limit (MRL).

5.0 DISCUSSION

The following section provides a discussion of the results of the investigation.

5.1 Discussion

Based on the field observations and analytical results of the six borings (HC01 through HC06) advanced across the Site, there is no indication of petroleum hydrocarbon contamination above the MRL in soil or groundwater at the site.

6.0 QUALIFICATIONS

HydroCon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. HydroCon makes no warranties, either expressed or implied, regarding the findings, conclusions or recommendations. Please note that HydroCon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report.

Findings and conclusions resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this monitoring. Subsurface conditions may vary from those encountered at specific sampling locations or during other surveys, tests, assessments, investigations, or exploratory services; the data, interpretations and findings are based solely upon data obtained at the time and within the scope of these services.

This report is intended for the sole use of **Legend Auto Sales**. This report may not be used or relied upon by any other party without the written consent of HydroCon. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

The conclusions presented in this report are, in part, based upon subsurface sampling performed at selected locations and depths. There may be conditions between borings or samples that differ significantly from those presented in this report and which cannot be predicted by this study.

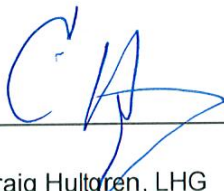
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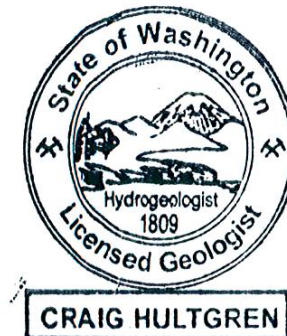
Report Prepared By:

**Robert A.
Honsberger**

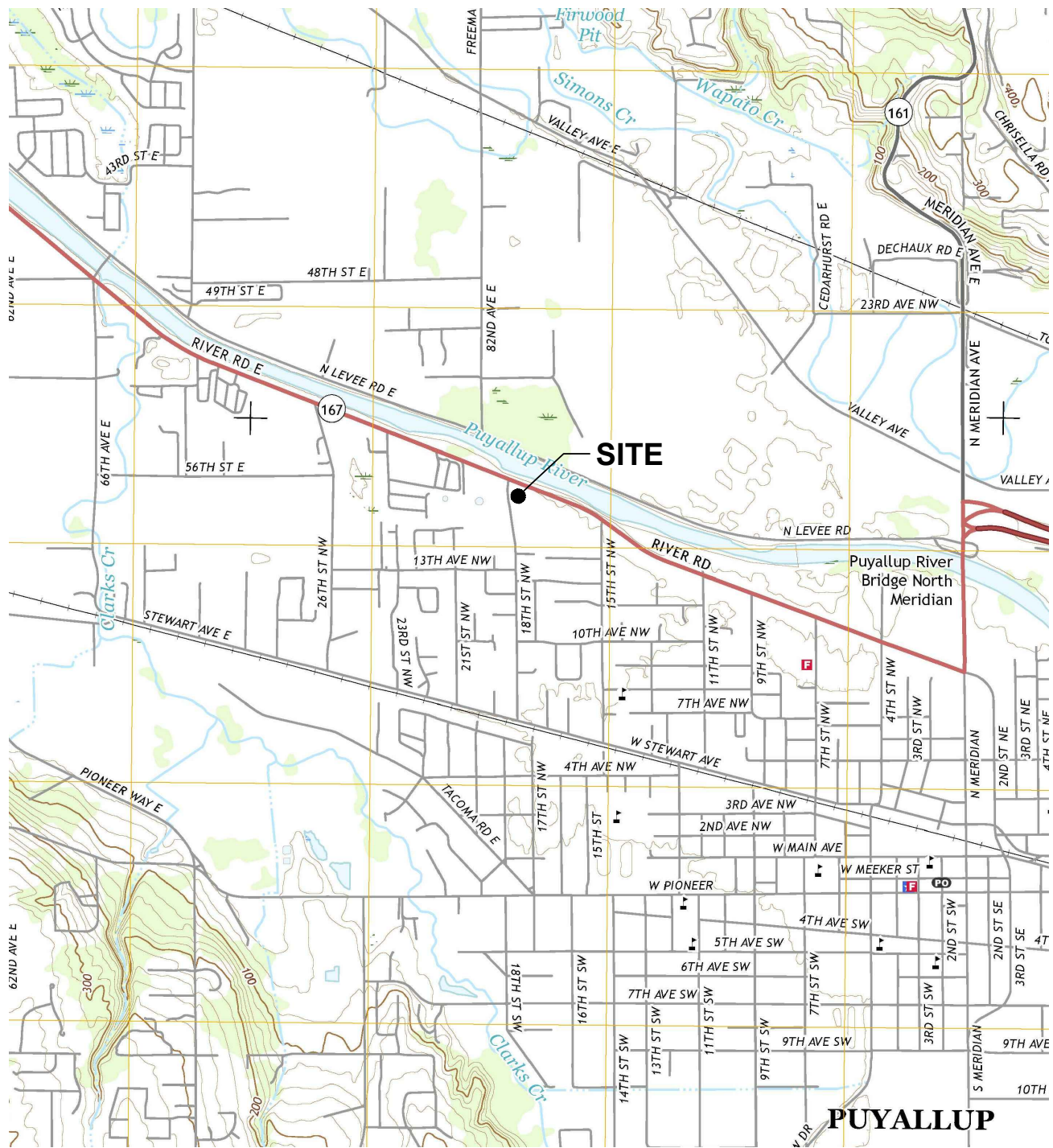
Digitally signed by Robert A.
Honsberger
DN: cn=Robert A. Honsberger,
o=HydroCon, ou,
email=roberth@hydroconllc.net,
c=US
Date: 2023.07.20 09:24:31 -0700

Robert A. Honsberger
Project Geologist

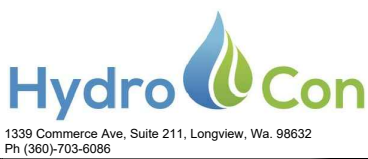
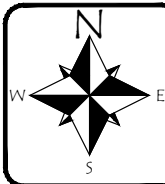
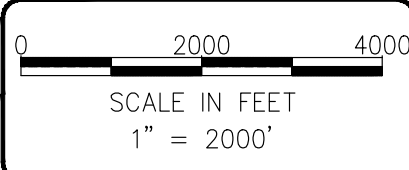

Craig Hultgren, LHG
Principal Geologist



I:\Autocad Files\Hydrocon-Autocad\10149-001.00 River Rd Shell\Hydrocon-Autocad\10149-001.00_BM-071023.dwg



NOTE(S):
USGS, PUYALLUP QUADRANGLE
WASHINGTON-PIERCE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



DATE: 7-10-23
DWN: JJT
CHK: RH
APPROVED: RH
PRJ. MGR: CH
PROJECT NO:
10149-001.00

FIGURE 1
SITE LOCATION MAP

RIVER ROAD SHELL
1720 RIVER ROAD
PUYALLUP, WA.

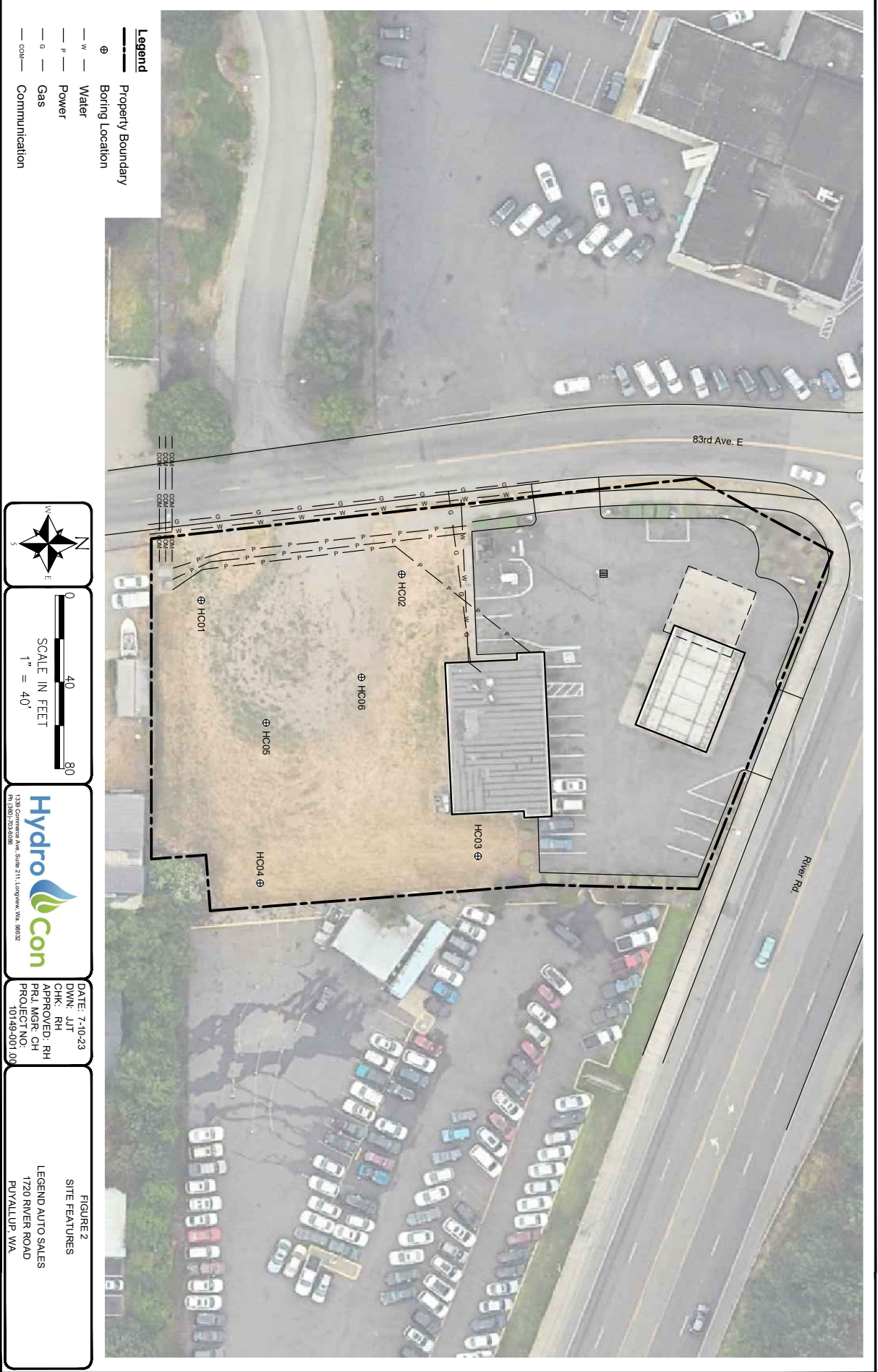




Table 1
Summary of Soil Analytical Results - Temporary Borings
Legend Auto Sales - 1720 River Road
Puyallup, Washington

		Fuels		
		GRPH	DRPH	ORPH
		mg/kg	mg/kg	mg/kg
MTCA Method A Cleanup Level Benzene (Non Detect) Benzene (Detect)		30/100	2,000	2,000
		100		
		30		
Temporary Borings				
Sample ID	Date			
HC01-02	6/26/2023	<20	<50	<250
HC01-09	6/26/2023	<20	<50	<250
HC02-02	6/26/2023	<20	<50	<250
HC02-09	6/26/2023	<20	<50	<250
HC03-02	6/26/2023	<20	<50	<250
HC03-09	6/26/2023	<20	<50	<250
HC04-02	6/26/2023	<20	<50	<250
HC04-09	6/26/2023	<20	<50	<250
HC05-02	6/26/2023	<20	<50	<250
HC05-09	6/26/2023	<20	<50	<250
HC06-02	6/26/2023	<20	<50	<250
HC06-09	6/26/2023	<20	<50	<250

Notes

Red denotes concentration in excess of MTCA Method Cleanup Level for Soil.
Black bold denotes concentration above the MRL but below the cleanup level
GRPH (gasoline range petroleum hydrocarbons) analyzed by Method NWTPH-HCID.
DRPH (diesel range petroleum hydrocarbons) and ORPH (oil range petroleum hydrocarbons) analyzed by Method NWTPH-HCID.
MTCA Method A Cleanup Levels, WAC 173-340-720 through 173-340-760, revised Nov., 2007
< = less than method reporting limit shown



Table 2
Summary of Groundwater Analytical Results - Temporary Borings
Legend Auto Sales - 1720 River Road
Puyallup, Washington

		Fuels		
		GRPH	DRPH	ORPH
MTCA Method A Groundwater Cleanup Levels		1,000/800	500	500
Sample ID	Date	ug/L	ug/L	ug/L
HC06-W	6/26/23	<200	<500	<500

Notes

- = Not measured/not analyzed

< = Not detected at a concentration exceeding the laboratory Method Reporting Limit (MRL)

ug/L = micrograms per liter

Bold denotes concentration detected above laboratory MRL but below the cleanup level

Red denotes concentration exceeds MTCA Method A cleanup level.

MTCA Method A Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340 of the Wa:

APPENDIX A BORING LOGS

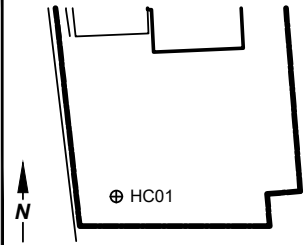


1339 Commerce Ave, Suite 211
Longview, WA 98632
Phone: 360-703-6079

WELL/BORING NUMBER **HC01**

PROJECT NAME: Legend Auto Sales
PROJECT NUMBER: 10149-001.00
PROJECT LOCATION: Puyallup, WA
LOGGED BY: R. Honsberger
REVIEWED BY: C. Hultgren
DATE: 7-11-23

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH
(FT.)

SYMBOL

WELL
DETAILS

SAMPLE
ID

PID

FIRST
WATER

BLOW
COUNTS

BOREHOLE/WELL
CONSTRUCTION DETAILS

Topsoil, grass, and gravel

Sand (SP), brown, 95% fine sand and 5% nonplastic silt, dry, no hydrocarbon odor.

Perched water at 9' bgs

Sand (SP), brown, 100% medium to fine, damp to moist, no hydrocarbon odor. Grain size change at 10' bgs.

BOTTOM OF BORING AT 15' B.G.S.

Boring backfilled with hydrated bentonite upon completion.

0

5

10

15

20

25

30

HC01-02

HC01-09

HC01-15

0

0

0

0

0

0

0

0

DRILLING CONTRACTOR: AEC
DRILLING METHOD: Direct Push LAR
BOREHOLE DIAMETER: 2-Inch
SAMPLING METHOD: Macro Core
WELL TAG ID: --

CASING ELEVATION: --
GROUND SURFACE ELEVATION: --
NORTHING: 23' N of SW corner of property
EASTING: 28.5' E of SW corner of property

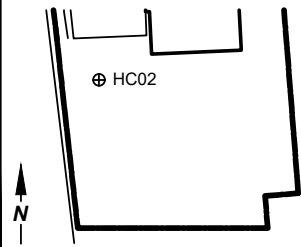


1339 Commerce Ave, Suite 211
Longview, WA 98632
Phone: 360-703-6079

WELL/BORING NUMBER **HC02**

PROJECT NAME: Legend Auto Sales
PROJECT NUMBER: 10149-001.00
PROJECT LOCATION: Puyallup, WA
LOGGED BY: R. Honsberger
REVIEWED BY: C. Hultgren
DATE: 7-11-23

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH
(FT.)

SYMBOL

WELL
DETAILS

SAMPLE
ID

PID

FIRST
WATER

BLOW
COUNTS

BOREHOLE/WELL
CONSTRUCTION DETAILS

Topsoil, grass, and gravel

Sand (SP), brown, 95% fine sand and 5% nonplastic silt, dry, no hydrocarbon odor.

Perched water at 9' bgs

Sand (SP), brown, 100% medium to fine, damp to moist, no hydrocarbon odor. Grain size change at 10' bgs.

BOTTOM OF BORING AT 15' B.G.S.

Boring backfilled with hydrated bentonite upon completion.

0

5

10

15

20

25

30

HC02-02

HC02-09

HC02-15

0

0

0

0

0

0

0

0

DRILLING CONTRACTOR: AEC
DRILLING METHOD: Direct Push LAR
BOREHOLE DIAMETER: 2-Inch
SAMPLING METHOD: Macro Core
WELL TAG ID: --

CASING ELEVATION: --
GROUND SURFACE ELEVATION: --
NORTHING: 20' S of SW corner of building
EASTING: 41' W of SW corner of building

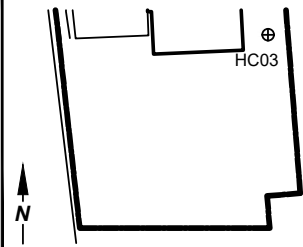


1339 Commerce Ave, Suite 211
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Phone: 360-703-6079

WELL/BORING NUMBER **HC03**

PROJECT NAME: Legend Auto Sales
PROJECT NUMBER: 10149-001.00
PROJECT LOCATION: Puyallup, WA
LOGGED BY: R. Honsberger
REVIEWED BY: C. Hultgren
DATE: 7-11-23

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH
(FT.)

SYMBOL

WELL
DETAILS

SAMPLE
ID

PID

FIRST
WATER

BLOW
COUNTS

BOREHOLE/WELL
CONSTRUCTION DETAILS

Topsoil, grass, and gravel

Sand (SP), brown, 95% fine sand and 5% nonplastic silt, dry, no hydrocarbon odor.

Perched water at 9' bgs

Sand (SP), brown, 100% medium to fine, damp to moist, no hydrocarbon odor. Grain size change at 10' bgs.

BOTTOM OF BORING AT 15' B.G.S.

Boring backfilled with hydrated bentonite upon completion.

0

5

10

15

20

25

30

HC03-02

HC03-09

HC03-15

0

0

0

0

0

0

0

0

DRILLING CONTRACTOR: AEC
DRILLING METHOD: Direct Push LAR
BOREHOLE DIAMETER: 2-Inch
SAMPLING METHOD: Macro Core
WELL TAG ID: --

CASING ELEVATION: --
GROUND SURFACE ELEVATION: --
NORTHING: 12' N of SE corner of building
EASTING: 19.3' E of SE corner of building

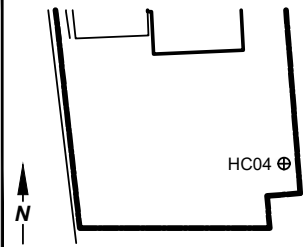


1339 Commerce Ave, Suite 211
Longview, WA 98632
Phone: 360-703-6079

WELL/BORING NUMBER **HC04**

PROJECT NAME: Legend Auto Sales
PROJECT NUMBER: 10149-001.00
PROJECT LOCATION: Puyallup, WA
LOGGED BY: R. Honsberger
REVIEWED BY: C. Hultgren
DATE: 7-11-23

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH
(FT.)

SYMBOL

WELL
DETAILS

SAMPLE
ID

PID

FIRST
WATER

BLOW
COUNTS

BOREHOLE/WELL
CONSTRUCTION DETAILS

Topsoil, grass, and gravel

Sand (SP), brown, 95% fine sand and 5% nonplastic silt, dry, no hydrocarbon odor.

Perched water at 9' bgs

Sand (SP), brown, 100% medium to fine, damp to moist, no hydrocarbon odor. Grain size change at 10' bgs.

BOTTOM OF BORING AT 15' B.G.S.

Boring backfilled with hydrated bentonite upon completion.

0

5

10

15

20

25

30

HC04-02

HC04-09

HC04-15

DRILLING CONTRACTOR: AEC
DRILLING METHOD: Direct Push LAR
BOREHOLE DIAMETER: 2-Inch
SAMPLING METHOD: Macro Core
WELL TAG ID: --

CASING ELEVATION: --
GROUND SURFACE ELEVATION: --
NORTHING: 23' N of SE corner of property
EASTING: 12.8' W of SE corner of property

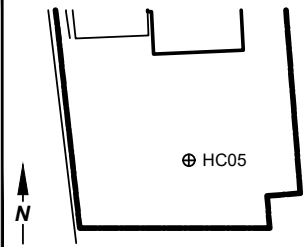


1339 Commerce Ave, Suite 211
Longview, WA 98632
Phone: 360-703-6079

WELL/BORING NUMBER **HC05**

PROJECT NAME: Legend Auto Sales
PROJECT NUMBER: 10149-001.00
PROJECT LOCATION: Puyallup, WA
LOGGED BY: R. Honsberger
REVIEWED BY: C. Hultgren
DATE: 7-11-23

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH
(FT.)

SYMBOL

WELL
DETAILS

SAMPLE
ID

PID

FIRST
WATER

BLOW
COUNTS

BOREHOLE/WELL
CONSTRUCTION DETAILS

Topsoil, grass, and gravel

Sand (SP), brown, 95% fine sand and 5% nonplastic silt, dry, no hydrocarbon odor.

Perched water at 9' bgs

Sand (SP), brown, 100% medium to fine, damp to moist, no hydrocarbon odor. Grain size change at 10' bgs.

BOTTOM OF BORING AT 15' B.G.S.

Boring backfilled with hydrated bentonite upon completion.

0

5

10

15

20

25

30

HC05-02

HC05-09

HC05-15

0

0

0

0

0

0

0

0

DRILLING CONTRACTOR: AEC
DRILLING METHOD: Direct Push LAR
BOREHOLE DIAMETER: 2-Inch
SAMPLING METHOD: Macro Core
WELL TAG ID: --

CASING ELEVATION: --
GROUND SURFACE ELEVATION: --
NORTHING: 53' N of SW corner of property
EASTING: 63' E of SE corner of property

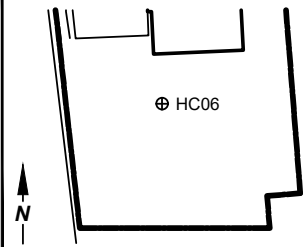


1339 Commerce Ave, Suite 211
Longview, WA 98632
Phone: 360-703-6079

WELL/BORING NUMBER **HC06**

PROJECT NAME: Legend Auto Sales
PROJECT NUMBER: 10149-001.00
PROJECT LOCATION: Puyallup, WA
LOGGED BY: R. Honsberger
REVIEWED BY: C. Hultgren
DATE: 7-11-23

LOCATION MAP



DESCRIPTION

(USCS Classification, Depth Interval, Color, Grain Size, Plasticity, Shapes, Mineral Composition, Density or Consistency, Moisture, Odor, Geological Interpretation)

DEPTH (FT.)	SYMBOL	WELL DETAILS	SAMPLE ID	PID	FIRST WATER	BLOW COUNTS	BOREHOLE/WELL CONSTRUCTION DETAILS
0							
			HC06-02	0			
5				0			
				0			
			HC06-09	0			
10				0			
				0			
15				0			
				0			
			HC06-18	0			
20				0			
25							
30							

Topsoil, grass, and gravel

Sand (SP), brown, 95% fine sand and 5% nonplastic silt, dry, no hydrocarbon odor.

Perched water at 9' bgs

Sand (SP), brown, 100% medium to fine, damp to moist, no hydrocarbon odor. Grain size change at 10' bgs.

Sand (SP), black, 100% medium sand, becomes wet at 18' bgs, no hydrocarbon odor.

BOTTOM OF BORING AT 20' B.G.S.

Collect groundwater sample HC06-W
Temporary screen set 5' to 20' bgs.

Boring backfilled with hydrated bentonite upon completion.

DRILLING CONTRACTOR: AEC
DRILLING METHOD: Direct Push LAR
BOREHOLE DIAMETER: 2-Inch
SAMPLING METHOD: Macro Core
WELL TAG ID: --

CASING ELEVATION: --
GROUND SURFACE ELEVATION: --
NORTHING: 97' N of SW corner of property
EASTING: 64' E of SW corner of property

APPENDIX B
LABORATORY REPORTS AND CHAIN-OF-CUSTODY
DOCUMENTATION

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 30, 2023

Rob Honsberger, Project Manager
HydroCon
1339 Commerce Ave, Suite 211
Longview, WA 98632

Dear Mr Honsberger:

Included are the results from the testing of material submitted on June 26, 2023 from the Legend Auto Sales 10149-001.00, F&BI 306400 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. 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.



Michael Erdahl
Project Manager

Enclosures
HDC0630R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 26, 2023 by Friedman & Bruya, Inc. from the HydroCon Legend Auto Sales 10149-001.00, F&BI 306400 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>HydroCon</u>
306400 -01	HC01-02
306400 -02	HC01-09
306400 -03	HC01-15
306400 -04	HC02-02
306400 -05	HC02-09
306400 -06	HC02-15
306400 -07	HC03-02
306400 -08	HC03-09
306400 -09	HC03-15
306400 -10	HC04-02
306400 -11	HC04-09
306400 -12	HC04-15
306400 -13	HC05-02
306400 -14	HC05-09
306400 -15	HC05-15
306400 -16	HC06-02
306400 -17	HC06-09
306400 -18	HC06-18
306400 -19	HC06-W

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/23

Date Received: 06/26/23

Project: Legend Auto Sales 10149-001.00, F&BI 306400

Date Extracted: 06/27/23

Date Analyzed: 06/27/23

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u> Laboratory ID	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
HC01-02 306400-01	ND	ND	ND	110
HC01-09 306400-02	ND	ND	ND	113
HC02-02 306400-04	ND	ND	ND	114
HC02-09 306400-05	ND	ND	ND	113
HC03-02 306400-07	ND	ND	ND	114
HC03-09 306400-08	ND	ND	ND	117
HC04-02 306400-10	ND	ND	ND	116
HC04-09 306400-11	ND	ND	ND	112
HC05-02 306400-13	ND	ND	ND	119
HC05-09 306400-14	ND	ND	ND	110
HC06-02 306400-16	ND	ND	ND	119

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/23

Date Received: 06/26/23

Project: Legend Auto Sales 10149-001.00, F&BI 306400

Date Extracted: 06/27/23

Date Analyzed: 06/27/23

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID**

Results Reported on a Dry Weight Basis

Results Reported as Not Detected (ND) or Detected (D)

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u>	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	Surrogate (% Recovery)
Laboratory ID				(Limit 50-150)
HC06-09	ND	ND	ND	116
306400-17				
Method Blank	ND	ND	ND	116
03-1514 MB2				

ND - Material not detected at or above 20 mg/kg gas, 50 mg/kg diesel and 250 mg/kg heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/30/23

Date Received: 06/26/23

Project: Legend Auto Sales 10149-001.00, F&BI 306400

Date Extracted: 06/27/23

Date Analyzed: 06/27/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR GASOLINE, DIESEL AND HEAVY OIL BY NWTPH-HCID
Results Reported as Not Detected (ND) or Detected (D)**

THE DATA PROVIDED BELOW WAS PERFORMED PER THE GUIDELINES ESTABLISHED BY THE
WASHINGTON DEPARTMENT OF ECOLOGY AND WERE NOT DESIGNED TO PROVIDE INFORMATION
WITH REGARDS TO THE ACTUAL IDENTIFICATION OF ANY MATERIAL PRESENT

<u>Sample ID</u>	<u>Gasoline</u>	<u>Diesel</u>	<u>Heavy Oil</u>	<u>Surrogate</u> <u>(% Recovery)</u>
Laboratory ID				(Limit 50-150)
HC06-W 306400-19	ND	ND	ND	116
Method Blank 03-1510 MB2	ND	ND	ND	115

ND - Material not detected at or above 0.2 mg/L gas, 0.5 mg/L diesel and 0.5 mg/L heavy oil.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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.

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 the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

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

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. 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 laboratory control sample(s) percent recovery and/or RPD were 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.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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.

306400

Report to ~~Hydrocarbon~~ Hydrocarbon

Company Hydrocarbon

Address _____

City, State, ZIP Vancouver WA

Phone _____ Email _____

SAMPLE CHAIN OF CUSTODY

06/26/23

VS-B4/VW1/12/143

SAMPLES (signature)

PROJECT NAME

10149-001.00

REMARKS

Project specific RLS? - Yes / No

PO #

INVOICE TO

TURNAROUND TIME

Standard turnaround

☒ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Archive samples

☐ Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes
HCO1-02	01 A-E	6-26-23	0930	Soil	5				X				
HCO1-09	02 ↓		0935		5				X				
HCO1-15	03		0940		1								Load
HCO2-02	04 A-E		0945		5				X				
HCO2-09	05 ↓		0950		5				X				
HCO2-15	06		0955		1								Load
HCO3-02	07 A-E		1000		5				X				
HCO3-09	08 ↓		1005		5				X				
HCO3-15	09		1010		1								Load
HCO4-02	10 A-E		1015		5				X				

OC

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: [Signature]

Robert A. Hunsberger

HCE

6-26-23

1323

Received by: [Signature]

ANHPHAN

F8D

06/26/23

13:23

Relinquished by:

Received by:

Friedman & Bruya, Inc.
Ph. (206) 285-8282

SAMPLE CHAIN OF CUSTODY

06/26/23 VS-B4/VW/1/12/13

306400

Report To Kel Hunsberger

Company Hydrex

Address _____

City, State, ZIP _____

Phone _____ Email _____

SAMPLES (signature)		PROJECT NAME <u>Lyne Apts 54-5</u>	PO #
REMARKS <u>10145-001-00</u>		INVOICE TO	
Project specific RLS? - Yes / No		TURNOURND TIME ☒ Standard turnaround ☐ RUSH Rush charges authorized by: _____ SAMPLE DISPOSAL ☐ Archive samples ☐ Other _____ Default: Dispose after 30 days	

ANALYSES REQUESTED														
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Notes	
HCO4-09	11 A-E	8/26/23	1020	Soil	5			X						
HCO5-15	12		1025		1								Hold	
HCO5-02	13 A-E		1030			5			X					
HCO5-09	14 ↓		1035			5			X					
HCO5-15	15		1040			1								Hold
HCO6-02	16 A-E		1045		5			X						
HCO6-09	17 ↓		1050		5			X						
HCO6-18	19		1100		1								Hold	
HCO6-20	19 A-D	1	1130	Water	4			X						
Samples received at <u>3</u> °C														

Friedman & Bruya, Inc.
Ph. (206) 285-8282

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>		Robert A. Hunsberger		HCE		06/26/23	1323
Received by: <u>[Signature]</u>		AN H PHAN		F8D		06/26/23	13:23
Relinquished by:							
Received by:							