EES ENVIRONMENTAL CONSULTING, INC. 240 N. Broadway, Suite 203, Portland OR 97227 (503) 847-2740 www.ees-environmental.com

# **Technical Memorandum**

To:	John Rapp, Washington Dept. of Ecology, SW Region VCP
Copy:	Mark McCuddy, MC Marine, LLC
From:	Paul Ecker, LHG and Chris Rhea, LG
Date:	November 4, 2015
Subject:	Request for Written Opinion Letter R.J. Frank Site 5 Mill Street Ridgefield, Washington Ecology VCP File SW1331 EES Project 2001-01

As we recently discussed, MC Marine (MCM) requests a written Opinion from the Washington Department of Ecology (Ecology) regarding the status of environmental investigation and cleanup efforts conducted by MCM at its property located at 5 Mill Street in Ridgefield, Washington (Property, Figure 1).

The purpose of this memorandum is to provide sufficient information and background information to support Ecology's development of an Opinion Letter regarding site status and future data needs as necessary to work towards a No Further Action Determination.

### BACKGROUND

On behalf of MCM, since 2012 EES Environmental Consulting, Inc. (EES) has coordinated with Ecology to review available file information and to conduct appropriate environmental characterization, groundwater monitoring, and interim action cleanup tasks at the subject site. In September 2015, EES issued a status report to document investigation and cleanup findings, and to recommend next steps intended to enable an Ecology No Further Action determination for the Site. Figures 2 through 4 illustrate the Property layout and soil characterization/removal areas.

Numerous environmental assessment, investigation, and cleanup activities have been conducted at the subject Property since the early 1990s, and are detailed under separate cover (EES 2014). Supplemental investigation work conducted by EES in 2014-2015 found localized and relatively low concentrations of diesel- and oil-range hydrocarbons in soil and/or groundwater (EES 2015a, 2015b). Where identified at two portions of the Site, these impacts appear to be near or below standard cleanup levels established

under Washington's Model Toxics Control Act (MTCA). For reference, groundwater monitoring results are summarized on Figures 5 and 6.

The identified impacts are not indicative of an obvious Property-related source or other specific contaminant release, although investigation findings support a Conceptual Site Model attributing identified hydrocarbon impacts generally to historical Property operations, naturally-occurring organic matter common to overbank deposits, and possible river pilings or related historical fill and debris typical for the Site setting.

## **REQUEST FOR ECOLOGY OPINION**

MCM requests Ecology's Opinion regarding the following investigation study areas and cleanup action.

#### SOIL REMOVAL INTERIM ACTION AND SOIL COMPLIANCE

Shallow soil removal and restoration activities were conducted in June 2015 to mitigate previously identified oil and PAH impacts limited to a portion of the subject Property surrounding boring EES-14A (EES 2015a). Approximately 70 tons of contaminated soil was removed from the former oil-storage area and disposed under permit at the Cowiltz County Landfill. Confirmation soil testing results collected from the excavation margins demonstrate that contaminants of interest (hydrocarbons and PAHs) were successfully removed and the soil point of compliance has been adequately demonstrated for this Site.

Based on these findings and as supported by prior characterization data, we believe no further investigation or cleanup action is necessary with regard to Site soils. We request Ecology provide an Opinion on this matter.

#### **GROUNDWATER COMPLIANCE AT FORMER OIL STORAGE AREA**

Between 2013 and 2015 (including quarterly monitoring during the past year at wells MW-1, MW-3, and MW-6), numerous groundwater samples have been collected from the former bulk petroleum storage area and evaluated for contaminants of interest (fuel and oil hydrocarbons and PAHs). Oil-range hydrocarbons are uniformly not detected among the groundwater samples. Although low-concentration diesel-range detections ranging between approximately 500 and 1,000 micrograms per liter (ug/L) by NWTPH-Dx are periodically reported for wells MW-1 and MW-6, these results are flagged by the laboratory as not representative of typical diesel fuel, as supported by supplemental analyses summarized below.

Anticipating these groundwater conditions based on prior Site data, MCM and EES agreed on an analytical approach with Ecology in 2014 to implement a quarterly monitoring program consisting of diesel-range analysis using the standard NWTPH-Dx method, along with silica-gel cleanup and PAH testing (see 10/17/2014 communication with Ecology, attached as Attachment A). Based on this approach and as regularly documented and communicated with Ecology since October 2014, EES believes the groundwater point of compliance has been met for this portion of the Property, and no further investigation or cleanup action in this area appears warranted. The following lines of evidence support this determination:

- Where detected at two (MW-1 and MW-6) of the Site's five well locations, diesel-range detections in groundwater are not representative of typical hydrocarbon contaminants, and are not accompanied by PAH compounds which would otherwise be expected for a fuel or oil source.
- Where diesel-range hydrocarbons have been detected using Method NWTPH-Dx, groundwater samples collected in this area were additionally analyzed using silica-gel cleanup methodology as discussed with and agreed upon with Ecology during work plan development in October 2014. Silica gel results and examination of laboratory chromatograms consistently indicate the diesel-range detections are unlike diesel fuel standards.
- The diesel-range (Dx) detections and chromatographic patterns for groundwater samples collected at MW-1 and MW-6 are unlike diesel fuel standards but are consistent with degraded wood debris and organic-rich overbank fill deposits, which are known to be present in the Site's shallow subsurface and along Lake River. Site boring logs which document observed subsurface conditions are attached for reference as requested by Ecology (Attachment B).

As discussed with Ecology on October 17, 2015, MCM and EES have agreed to collect confirmatory groundwater samples at the MW-1 and MW-6 locations during a planned November 2015 monitoring event. Analysis of these two samples will be limited to diesel-range hydrocarbons by NWTPH-Dx and (if detected) silica-gel cleanup as described below.

Assuming the November 2015 results at MW-1 and MW-6 are consistent with prior findings, EES will conclude that the groundwater point of compliance in this area of the Property has been achieved and no further investigation or cleanup action is necessary with regard to Site groundwater at this location. We request Ecology provide an Opinion on this matter.

#### **GROUNDWATER CHARACTERIZATION AT NORTH LOT/FORMER POND AREA**

Low PAH concentrations are consistently identified at well MW-4 and occasionally well MW-5, both located in the unpaved north parking lot area near Lake River. Although PAH concentrations observed at well MW-4 (and sometimes at MW-5) slightly exceeded published MTCA groundwater cleanup levels, no fuel or oil-range hydrocarbons have been identified at either well location during the monitoring period to date. This area may have been used historically as a pond or for dredged materials dewatering, but no specific contaminant source other than random fill and possible buried river piling debris has been identified in this area.

During the most recent (August 2015) monitoring event, PAHs decreased to trace concentrations and did not exceed published MTCA groundwater cleanup levels at either well. Continued groundwater monitoring is necessary to evaluate long-term PAH trends at wells MW-4 and MW-5.

### **PLANNED FUTURE TASKS**

As discussed with Ecology on October 17, 2015, planned next steps for the Site investigation include several elements as summarized below. EES will conduct a quarterly monitoring event at the Site in November 2015, with a continued monitoring schedule to follow based on the November results.

EES will continue to provide written documentation and status reports to keep Ecology informed of the investigation progress.

We request confirmation from Ecology that this plan adequately addresses known investigation data gaps as previously discussed.

#### FORMER OIL STORAGE AREA

A confirmatory monitoring event in November 2015 is planned for wells MW-1 and MW-6.

- Measure depth to water and determine water table elevations across the Site's six-well network.
- Conduct groundwater sampling and confirmatory testing for contaminants of interest at wells MW-1 and MW-6, focusing on diesel-range hydrocarbons (NWTPH-Dx). If Dx detections are observed, supplemental evaluation by silica-gel cleanup will be conducted. Laboratory chromatograms will be provided for evaluation.
  - PAHs have been eliminated from future consideration in this area based on monitoring to date, and will no longer be evaluated as contaminants of interest for this portion of the Site.
  - No further sampling at well MW-3 is necessary based on monitoring to date.

Provided that Dx trends remain consistent with prior findings for this area as outlined above, the groundwater point of compliance will have been adequately demonstrated and no future monitoring or other sampling will be necessary for this portion of the Site.

#### NORTH LOT/FORMER POND AREA

In August 2015, PAH concentrations at wells MW-4 and MW-5 were below MTCA Method B groundwater cleanup levels. EES will conduct continued quarterly compliance monitoring for PAHs at these two monitoring wells in November 2015, and February and May 2016. If during any of the three remaining compliance monitoring events PAHs are identified at concentrations exceeding Method B cleanup levels, then a semi-annual monitoring schedule will be triggered until PAH concentrations decrease to below the MTCA cleanup levels, at which time a quarterly compliance monitoring schedule will be re-initiated. MCM understands that the groundwater point of compliance for this portion of the Site will require four consecutive quarterly events demonstrating PAH concentrations remaining below Method B cleanup levels at both wells MW-4 and MW-5.

Note that diesel-range hydrocarbons have been eliminated from future consideration in this area based on monitoring to date, and will no longer be evaluated as contaminants of interest for this portion of the Site.

### **ATTACHMENTS**

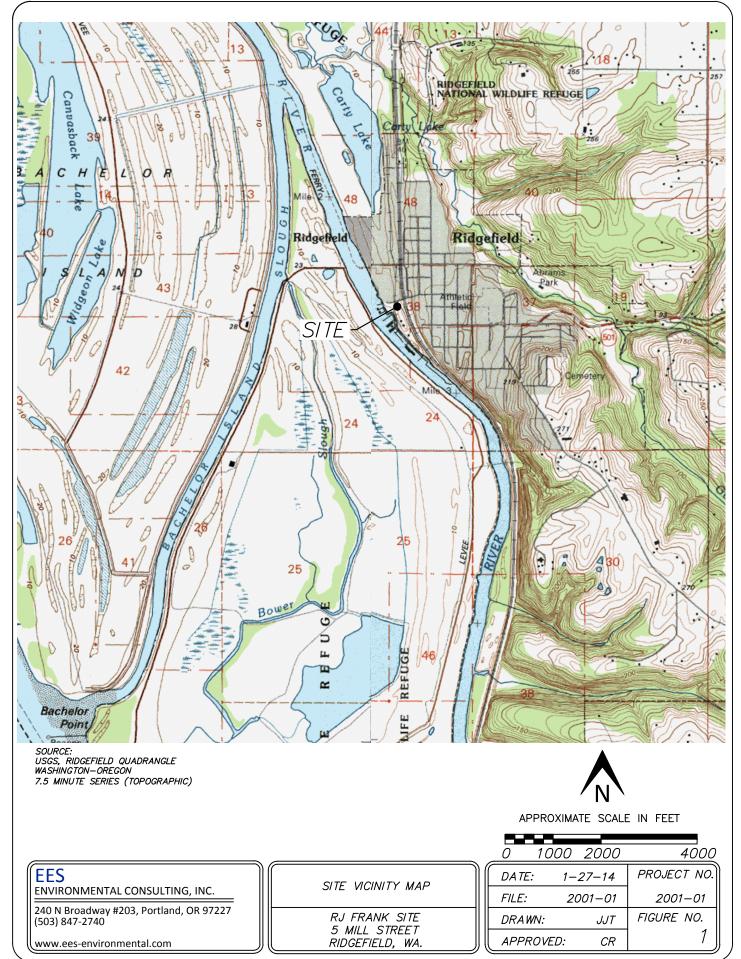
Figures

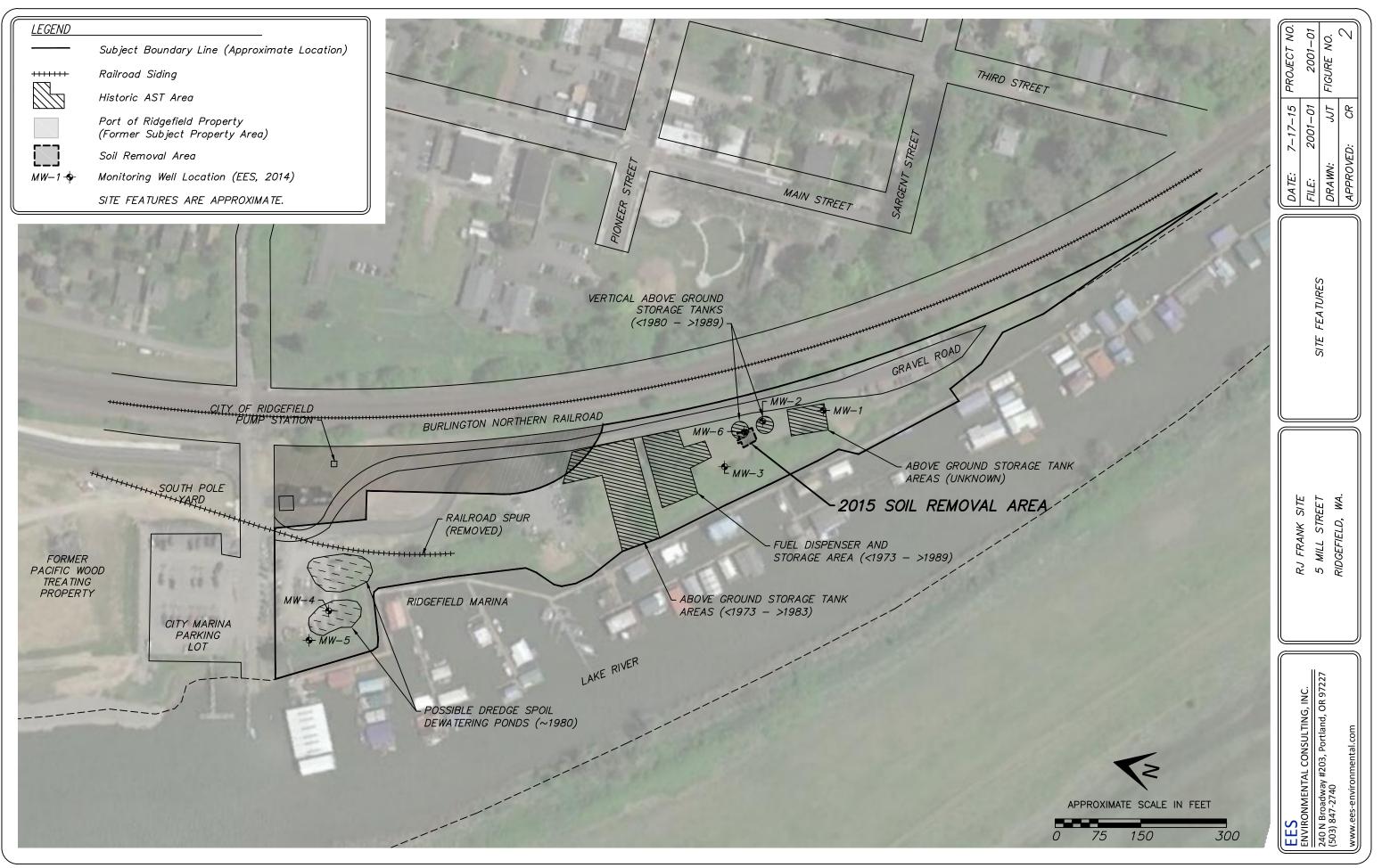
- Figure 1: Site Vicinity Map
- Figure 2: Site Features
- Figure 3: Petroleum Hydrocarbon Concentrations in Soil (2014)
- Figure 4: Soil Removal Area (2015)
- Figure 5: Diesel and Oil Concentrations in Groundwater (8/26/15)
- Figure 6: PAH Concentrations in Groundwater (8/26/15)
- Attachments Attachment A: Email Correspondence with Ecology (10/17/14) Attachment B: Site Boring Logs

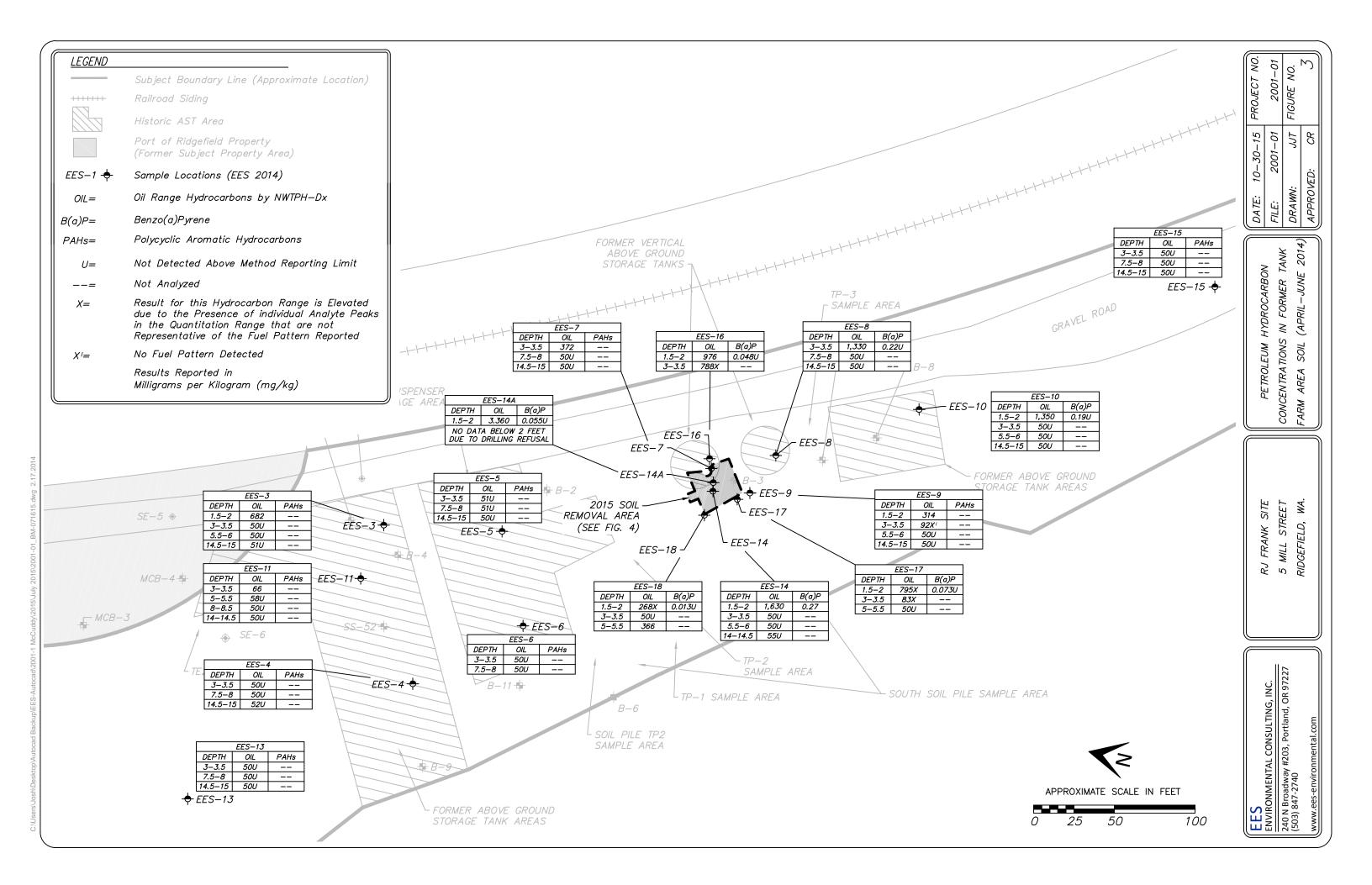
### REFERENCES

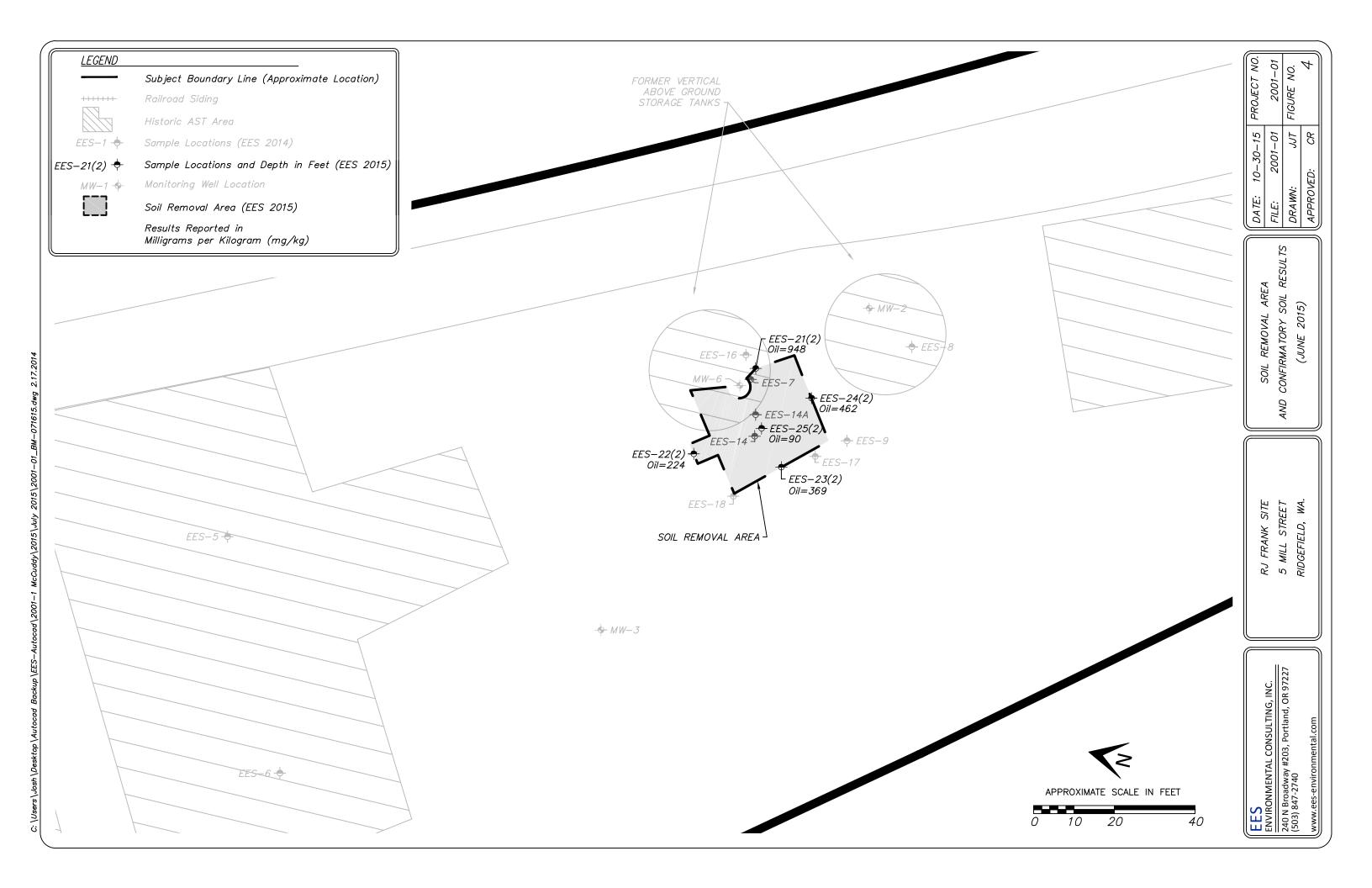
EES Environmental Consulting, Inc. 2014. Site Investigation Report - RJ Frank Site. August 25, 2014.
EES Environmental Consulting, Inc. 2015a. Completion Report – Limited Soil Removal. July 22, 2015.
EES Environmental Consulting, Inc. 2015b. Quarterly Groundwater Monitoring Results (August 2015).
September 29, 2015.

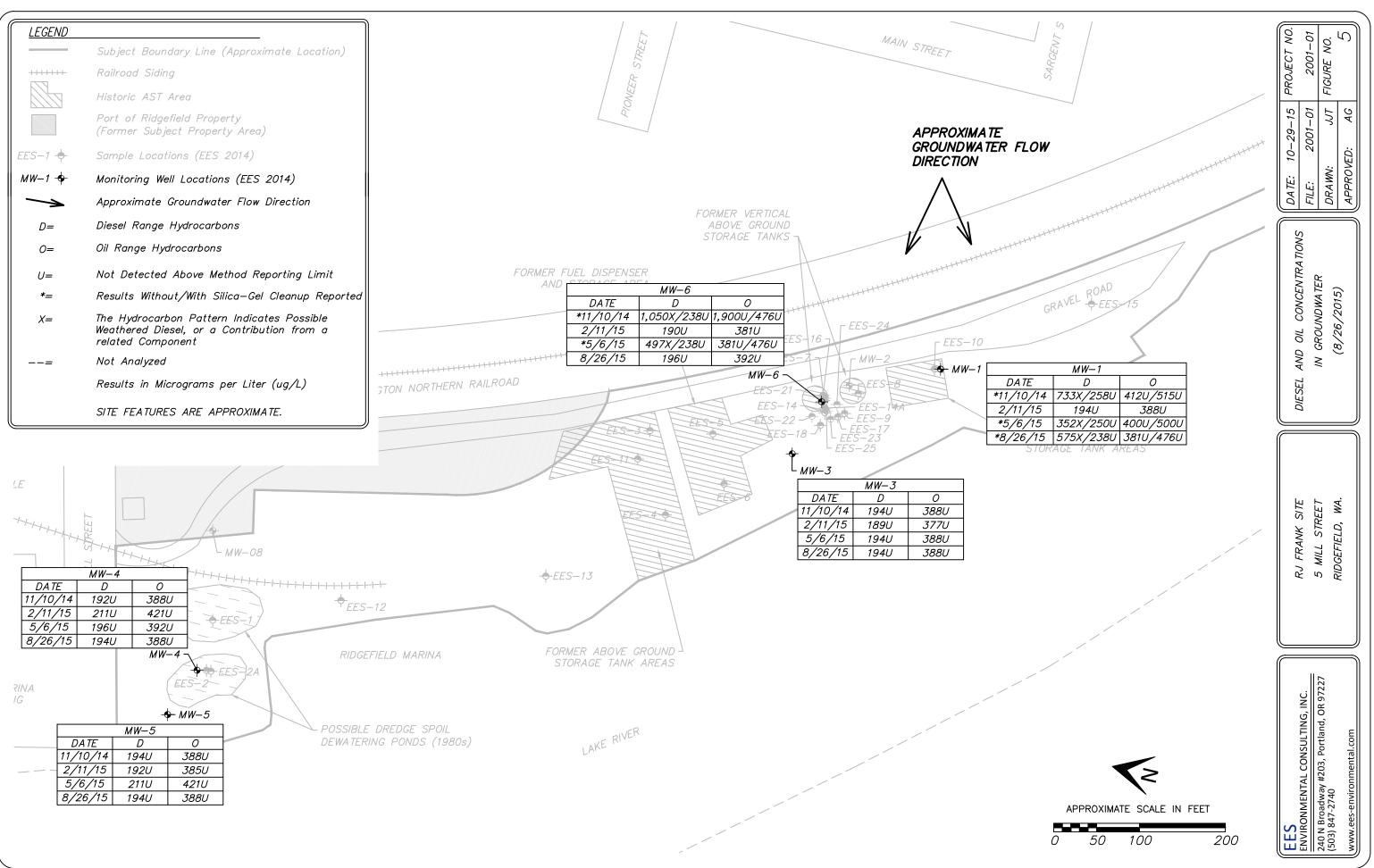
# **Figures**

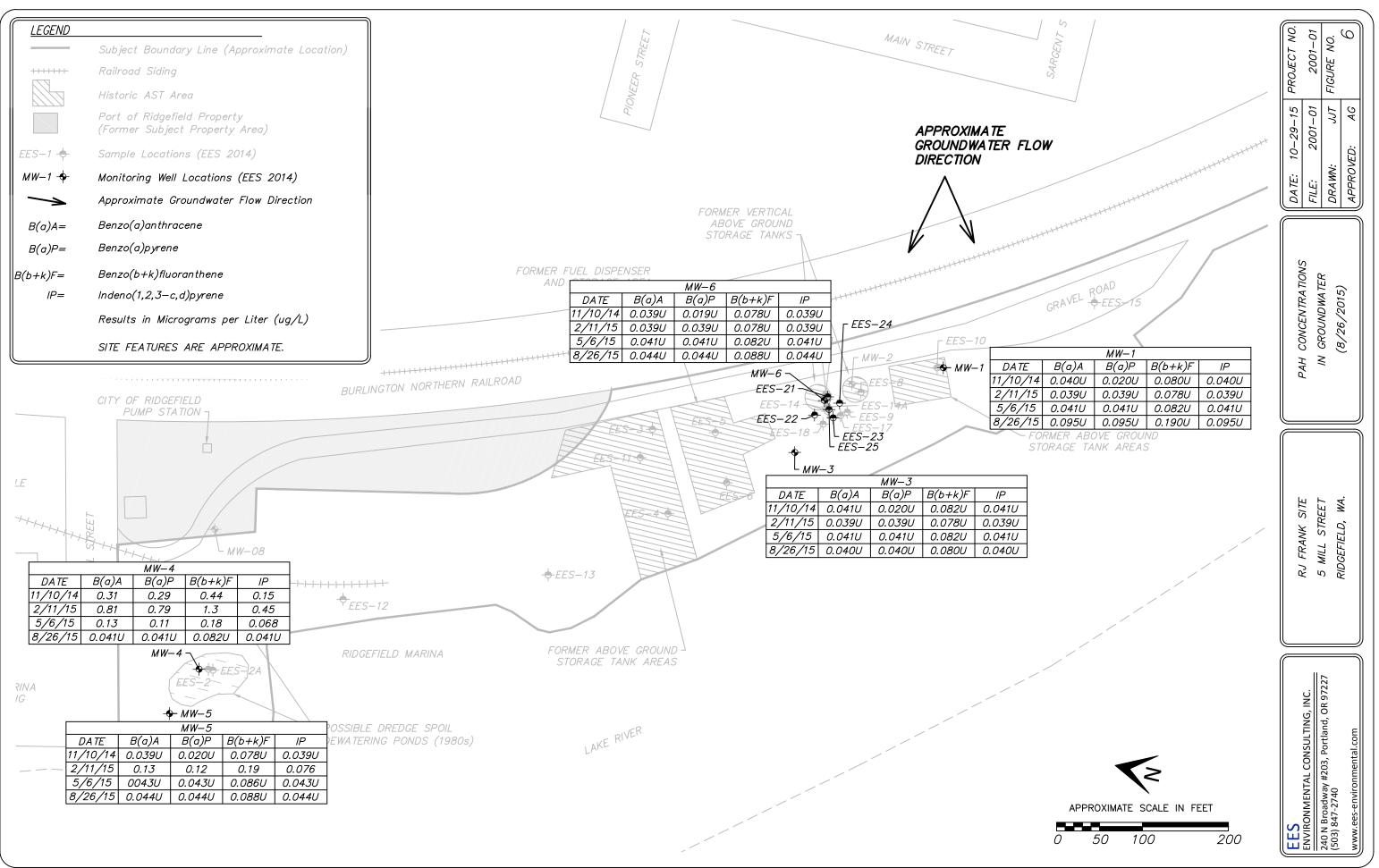












# Attachment A

#### **Paul Ecker**

From: Sent:	Qiu, Hans (ECY) <hqiu461@ecy.wa.gov> Friday, October 17, 2014 11:03 AM</hqiu461@ecy.wa.gov>
То:	Paul Ecker; Rose, Scott (ECY)
Cc:	markmccuddy@gmail.com
Subject:	RE: VCP #SW1331: MCM/Former RJ Frank Property, Ridgefield - RI/IRAM next steps

Paul,

Ecology concurs with your summary of our meeting discussion and looks forward to further working with you on this Site.

Thank you,

Hans

From: Paul Ecker [mailto:paul@ees-environmental.com]
Sent: Wednesday, October 15, 2014 12:21 PM
To: Qiu, Hans (ECY); Rose, Scott (ECY)
Cc: markmccuddy@gmail.com
Subject: VCP #SW1331: MCM/Former RJ Frank Property, Ridgefield - RI/IRAM next steps

Hans and Scott, thanks very much for your time on the phone yesterday regarding RI status at the RJ Frank site. The purpose of this email is to summarize our understanding of key issues and action items as discussed, and to request confirmation that this summary is consistent with your review comments.

Discussion focused on the EES Site Investigation Report dated 8/25/2014. Subject to your approval, we plan to initiate planned work activities beginning next week.

- Groundwater monitoring is necessary to evaluate apparent non-gasoline hydrocarbon impacts at two areas of concern (the former bulk oil storage area represented by borings EES-7 and EES-10, and the former pond area represented by borings EES-1 and EES-2). Contaminants of interest include non-gasoline hydrocarbons (NWTPH-Dx) and PAHs. A total of five monitoring wells are planned to address this issue as detailed in the investigation report. We agreed with Ecology on the following monitoring approach:
  - At a minimum, monitoring events will be conducted at seasonal low- and high-water periods. If analytical testing results indicate COIs are uniformly below analytical method reporting limits during both events, we would conclude that the groundwater point of compliance has been adequately addressed. We intend to install and develop the well array next week if possible, and conduct the initial seasonal low-water monitoring event in late October 2014, followed by a high-water event in April 2015.
  - If COIs are detected, quarterly groundwater monitoring would be triggered for a minimum of four consecutive events. The groundwater point of compliance would be adequately addressed if monitoring demonstrates COI concentrations remain below applicable MTCA cleanup levels for four consecutive quarterly monitoring events.
- For the limited soil excavation area, we propose a removal depth of two feet minimum, to be followed by confirmatory sampling/testing before backfilling (COIs are NWTPH-Dx and PAHs). The excavation area will remain open and unfilled until we have confirmatory data from the lab. Provided the confirmation data achieve applicable MTCA soil cleanup levels, we would conclude that the soil point of compliance has been adequately addressed.
- All soil and groundwater samples will be analyzed for non-gasoline fraction hydrocarbons using method NWTPH-Dx (as well as PAHs). Acknowledging that naturally-occurring organics are likely to be present in the site

subsurface environment, we may also consider supplemental analysis using silica-gel cleanup. If silica-gel cleanup is used, EES will provide Ecology with laboratory chromatograms for samples and method standards.

• We understand certain EES report maps indicate boring EES-11 appears to be 20-30 feet away from old sample location B-4 where PCBs were historically detected. In reality, we believe that EES-11 was drilled and sampled within approximately five to ten feet of the B-4 location, but it is important to acknowledge the uncertainties shown on the old site sampling maps (where available) from the early 1990s. We believe that reasonable lines of evidence have been presented in this assessment to demonstrate adequate characterization of PCBs, and we request that Ecology support our conclusion that PCBs should be eliminated as a COI.

Please let us know if you have questions or need additional information.

Subject to Ecology's approval, we plan to get this work scheduled and initiated beginning as soon as next week for well installation. Soil excavation will be planned around weather conditions as feasible, but we hope to complete the focused removal action before the end of October.

Thanks again for your assistance and good discussion. -Paul

Paul Ecker, RG, LHG EES ENVIRONMENTAL CONSULTING, INC. 240 N. Broadway, Suite 203 Portland, OR 97227 (503) 847-2740 paul@ees-enviro.com www.ees-enviro.com

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# Attachment B

## SOIL CLASSIFICATION CHART

М		IONS		BOLS	TYPICAL
			GRAPH	LETTER	DESCRIPTIONS
	GRAVEL AND	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
	GRAVELLY SOILS	(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
COARSE GRAINED SOILS	MORE THAN 50% OF COARSE	GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	FRACTION RETAINED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS	SAND AND	CLEAN SANDS		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
LARGER THAN NO. 200 SIEVE SIZE	SANDY SOILS	(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION	SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES
	PASSING ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		SC	CLAYEY SANDS, SAND - CLAY MIXTURES
				ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
UUILU				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE				МН	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
SIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		СН	INORGANIC CLAYS OF HIGH PLASTICITY
				ОН	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
	HIGHLY ORGANI	C SOILS		РТ	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

START	S 240 Port	epnone: 5	vay #203 97227	40	). .L ID <b></b>		BORING NO. PROJECT LOCATION PROJECT NO.	EES-1 RJ Frank Site Ridgefield, WA 2001-01		PAGE <b>1</b> O	F <b>1</b>
SURFA	CE ELEVA	TION		DAT	UM		LOGGED BY	RR			
DEPTH FEET	SAM LAB SAMPLE ID	SAMPLE	PID (ppmV)	TION SHEEN	RECOVERY %	STRATA	DES	SCRIPTION		CONSTRUCTION DETAIL/ COMMENTS	elevation Feet
			3.8	NS			∖moist. Dense, dark gray moist.	gray silty GRAVEL (GP); / silty fine SAND (SM);		New schedule 40	
· ·	EES-1 (3-3.5)	Grab	0.3	NS	100		moist, low plastic	ne sandy SILT (ML); city. / silty fine SAND (SM)		0.75-inch diameter PVC riser 0-5 feet.	
5-	-		4.1	NS			with subrounded organics; moist.	gravel and trace			
	EES-1 (7.5-8)	Grab	3.5	NS	100		Soft to stiff, brow debris; moist.	m SILT (ML) with wood	-		
10-	-		5.3	NS							
10-	-		6.0	NS	100		Dense gray silty occasional orgar	fine SAND (SM) with nics; moist to wet.		New schedule 40 0.75-inch diameter, 0.02-inch slot, temporary PVC well screen 5-20 feet.	
15-	_ EES-1 (14.5-15) -	Grab			100			encountered while drilling ore completed boring at			
20-							3.5-inch dual-tub conductor casing Set temporary w steel conductor of to well purge). Backfilled boreho	at 20 feet bgs using e macro-core with steel g. ell as indicated (retracted casing to 10 feet bgs prior ble with granular bentonite of sample activities.			
DRILLII	DRILLING CONTRACTOR       Pacific Soil and Water, In         DRILLING METHOD       Direct-Push Macro/Dual         DRILLING EQUIPMENT       GeoProbe 9500VTR						REMARKS N groundwater placed from	lo sheen observed on sample EES-1(W) fror 5-20 feet bgs.	purge n tem	water. Collected porary PVC well sc	creen
	NG START		16/14	ENDED	4/16/14	4	See key sheet fo	r symbols and abbreviations	s used a	above.	

EES 240 N. Broad Portland, OR Telephone: 5 START CARD EE05031 COORDINATES	03.847.2740 WEL	l ID <b></b>	BORING NO. PROJECT LOCATION PROJECT NO.	EES-2 RJ Frank Site Ridgefield, WA 2001-01	PAGE <b>1</b> OF <b>1</b>
SURFACE ELEVATION -		UM	LOGGED BY	RR	
SAMPLE IN DEPTH FEET ID SAMPLE TYPE	FORMATION PID (ppmV) SHEEN	RECOVERY %	DES	SCRIPTION	CONSTRUCTION NO LEAD DETAIL/ COMMENTS
EES-2 Grab (3-3.5) 5-	6.2 NS		Loose, dark brov (FILL); moist.	gray silty GRAVEL (GP); vn fine sandy wood debris y silty fine SAND (SM);	New schedule 40 0.75-inch diameter PVC riser 0-10 feet.
- - EES-2 Grab (7.5-8)	7.7 NS	100	With black wood feet.	debris between 7 and 9	
10-	10.5 NS		roots and organi	sandy SILT (ML) with c debris; moist. Possibly nk/riparian native surface.	New schedule 40
EES-2 Grab	7.9 MS 7.4 NS	100	with mild odor ot 12.5 feet.	AND (SM); wet. 12 feet. Organic sheen oserved between 12 and , silt decreasing with	0.75-inch diameter, 0.02-inch slot, temporary PVC well screen 10-15 feet.
			3.5-inch dual-tub conductor casing Set temporary w steel conductor of to well purge). Backfilled boreho	at 15 feet bgs using e macro-core with steel g. ell as indicated (retracted casing to 10 feet bgs prior ole with granular bentonite of sample activities.	
DRILLING CONTRACTOR DRILLING METHOD DRILLING EQUIPMENT	Pacific Soil and Direct-Push Ma GeoProbe 9500	acro/Dual	groundwater		on purge water. Collected m temporary well screen
DRILLING STARTED 4/	16/14 ENDED	4/16/14	See key sheet fo	or symbols and abbreviation	s used above.

EES Environm 240 N. Broadw Portland, OR Telephone: 50 START CARD EE05031 COORDINATES	nental Consulting Inc. vay #203 97227 03.847.2740 WELL I	ID	BORING NO. PROJECT LOCATION PROJECT NO.	EES-2A RJ Frank Site Ridgefield, WA 2001-01	PAGE <b>1</b> OF <b>1</b>
SURFACE ELEVATION	DATUM	и	LOGGED BY	RR	
SAMPLE INF	ORMATION	TA			
DEPTH FEET ID SAMPLE ID TYPE	PID (ppmV) SHEEN RE	ECOVERY %	DES	SCRIPTION	CONSTRUCTION OF LEASE OF CONSTRUCTION OF LEASE OF CONSTRUCTION OF CONSTRUCTUON OF CONSTRUCTUO OF CONSTRUCTUON
			No recovery from	n 0-5 feet.	
		0			
5		0	No recovery from destroying liner.	n 5-10 feet due to debris	¥
10- EES-2A (10-10.5) EES-2A (12-12.5) Grab	0.0 NS 0.9 NS	100	some organics a	fine SANDY SILT (ML); nd wood debris; moist. y fine SAND (SM); wet.	
	0.0 NS		Becomes brown		
DRILLING CONTRACTOR DRILLING METHOD DRILLING EQUIPMENT	Pacific Soil and V Direct-Push Macı GeoProbe 9500V	ro/Dual	REMARKS		
		4/18/14	See key sheet fo	r symbols and abbreviation	s used above.

START COORE	S 240 Port	ephone: 50 E05031	vay #203 97227 03.847.27	40 WEL	L ID <b></b> UM <b></b>		BORING NO. PROJECT LOCATION PROJECT NO. LOGGED BY	EES-3 RJ Frank Site Ridgefield, WA 2001-01 RR	PAGE <b>1</b> (	of <b>1</b>
DEPTH					STRATA	DES	SCRIPTION	CONSTRUCTION DETAIL/	ELEVATION FEET	
FEET	SAMPLE ID	TYPE	(ppmV)	SHEEN	%	s S S	Topsoil.		COMMENTS	
- - -	EES-3 (1.5-2) EES-3 (3-3.5)	Grab Grab	11.6 9.6	NS	100		Stiff, dark brown (ML) with gravel;	iff, brown with orange	New schedule 40	
5-	EES-3 (5.5-6)	Grab	10.9 8.7	NS	100				0.75-inch diameter PVC riser 0-10 feet.	
10-	- - - - EES-3	Grab	8.2	NS	100		Becomes brown	sh gray.	New schedule 40 0.75-inch diameter, 0.02-inch slot, temporary PVC well screen 10-15 feet.	
	<u>√(14.5-15</u> )/						3.5-inch dual-tub conductor casing Set temporary w steel conductor of to well purge). Backfilled boreho	at 15 feet bgs using the macro-core with steel g. ell as indicated (retracted casing to 10 feet bgs prior ole with granular bentonite of sample activities.		
			D. 17	0			REMARKS			
	DRILLING CONTRACTORPacific Soil and Water, Inc.DRILLING METHODDirect-Push Macro/DualDRILLING EQUIPMENTGeoProbe 9500VTR								purge water. Collected m temporary well screer	
2	NG START		16/14	ENDED	4/16/1	4	See key sheet fo	r symbols and abbreviation	is used above.	

START	EES Environmental Consulting Inc. 240 N. Broadway #203 Portland, OR 97227 Telephone: 503.847.2740 TART CARD <b>EE05031</b> WELL ID COORDINATES						BORING NO. PROJECT LOCATION PROJECT NO.	EES-4 RJ Frank Site Ridgefield, WA 2001-01	PAGE <b>1</b>	of <b>1</b>
	DINATES	TION		DAT	UM		LOGGED BY	RR		
	SAM	IPLE INF	ORMA <sup>-</sup>	TION		A			CONSTRUCTIO	DN S
DEPTH FEET	LAB SAMPLE ID	SAMPLE TYPE	PID (ppmV)	SHEEN	RECOVERY %	STRATA	DES	SCRIPTION	DETAIL/ COMMENTS	EVATI
-	_					$\frac{\sqrt{1_{j}}}{1_{j}} \frac{\sqrt{1_{j}}}{\sqrt{1_{j}}}$	Topsoil.			
5-	EES-4 (3-3.5)	Grab	10.2	NS	100		Stiff, dark brown (ML) with gravel; Becomes very st		New schedule 40 0.75-inch diamete PVC riser 0-10 fee	
	EES-4 (7.5-8)	Grab	13.8	NS	100					
10-	- - - EES-4	Grab	12.6	NS	100		Becomes wet.		New schedule 40 0.75-inch diamete 0.02-inch slot, temporary PVC w screen 10-15 feet	ell
	\ <u>(14.5-15)</u> /						3.5-inch dual-tub conductor casing Set temporary w steel conductor of to well purge). Backfilled boreho	at 15 feet bgs using e macro-core with steel ell as indicated (retracted casing to 10 feet bgs prior ble with granular bentonite of sample activities.		
DRILLII DRILLII	DRILLING CONTRACTORPacific Soil and Water, IIDRILLING METHODDirect-Push Macro/DualDRILLING EQUIPMENTGeoProbe 9500VTR						groundwater		n purge water. Collect om temporary well scre	
	NG START		16/14	ENDED	4/16/1	4	See key sheet fo	r symbols and abbreviation	ns used above.	

START COORI	CARD E	ephone: 50 EE05031	vay #203 97227 03.847.27	40 WEL	l ID		BORING NO. PROJECT LOCATION PROJECT NO.	EES-5 RJ Frank Site Ridgefield, WA 2001-01	PAGE <b>1</b> C	of <b>1</b>
SURFA	SURFACE ELEVATION DATUM						LOGGED BY	RR		
DEPTH FEET	LAR	SAMPLE	FORMA PID (ppmV)		RECOVERY %	STRATA	DES	SCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
5-	EES-5 (3-3.5) EES-5 (7.5-8)	Grab	0.0 0.7 0.3	NS	100		(ML) with gravel;	very fine sandy SILT moist. iff, brown, and moist to	New schedule 40 0.75-inch diameter PVC riser 0-10 feet.	
	EES-5	Grab	1.6	NS	100		Decimentation		New schedule 40 0.75-inch diameter, 0.02-inch slot, temporary PVC well screen 10-15 feet.	_
	<u>((14.5-15)</u> )						3.5-inch dual-tub conductor casing Set temporary w steel conductor of to well purge). Backfilled boreho	at 15 feet bgs using e macro-core with steel g. ell as indicated (retracted casing to 10 feet bgs prior ble with granular bentonite of sample activities.		
DRILLI	DRILLING CONTRACTOR Pacific Soil and Water, Ir DRILLING METHOD Direct-Push Macro/Dual DRILLING EQUIPMENT GeoProbe 9500VTR						groundwater		n purge water. Collected m temporary well screer	
DRILLI	NG START	'ED <b>4/</b> '	17/14	ENDED	4/17/14	4	See key sheet fo	r symbols and abbreviation	is used above.	

EES Environmental Consulting Inc.         240 N. Broadway #203         Portland, OR 97227         Telephone: 503.847.2740         START CARD EE05031       WELL ID         COORDINATES         SURFACE ELEVATION       DATUM         SAMPLE INFORMATION							BORING NO. PROJECT LOCATION PROJECT NO. LOGGED BY	EES-6 RJ Frank Site Ridgefield, WA 2001-01 RR	PAGE <b>1</b>	of <b>1</b>
	SAM	PLE INF	ORMAT	ION		∢			CONSTRUCTIO	N Z
DEPTH FEET	LAB SAMPLE ID	SAMPLE TYPE	PID (ppmV)	SHEEN	RECOVERY %	STRATA	DES	SCRIPTION	DETAIL/ COMMENTS	EVATI
			0.1	NS			Dense, brown ve with trace gravel moist.	ery fine sandy SILT (ML) and organic material;		
- 5	EES-6 (3-3.5)	Grab	0.3	NS	100		mottles.	vet, and with orange		
-	EES-6 \ (7.5-8) /	Grab	0.2	NS			Boring complete		_	
-										
DRILLIN DRILLIN DRILLIN	IG CONTR IG METHO IG EQUIPI IG START	D MENT	Direct-l		cro/Dua	I	auger. Borin collecting; di samples belo	g located in low-lying		was

EES 240 N. Broa Portland, OF Telephone: START CARD EE0503 COORDINATES	8 97227 503.847.2740 I WEI	_L ID <b></b>	BORING NO. PROJECT LOCATION PROJECT NO.		PAGE <b>1</b> OF <b>1</b>
SURFACE ELEVATION	- DAT	UM	LOGGED BY	RR	
SAMPLE IN	IFORMATION	₹	<u>c</u>		
DEPTH FEET ID LAB SAMPLE ID SAMPL	E PID (ppmV) SHEEN	RECOVERY %	DE	SCRIPTION	CONSTRUCTION OLIVIES
_					
- EES-7 (3.5-4) 5- -	0.1 NS	100	Wood debris.	ndy SILT (ML) with gravel; fine sandy SILT (ML);	New schedule 40 0.75-inch diameter PVC riser 0-10 feet.
EES-7 Grab (7.5-8)	0.2 NS	100			
- EES-7 Grab	0.1 NS 0.0 NS	100	Becomes brow No free water c	n. bserved while drilling.	New schedule 40 0.75-inch diameter, 0.02-inch slot, temporary PVC well screen 10-15 feet.
			3.5-inch dual-tu conductor casin Groundwater sl borehole.Temp to stabilize ove indicated (retra to 10 feet bgs p Backfilled borel		
DRILLING CONTRACTOR	Pacific Soil an Direct-Push M GeoProbe 950	acro/Dual	groundwate		purge water. Collected m temporary well screen
	/17/14 ENDED		See key sheet	for symbols and abbreviation	s used above.

EES Environi 240 N. Broad Portland, OR Telephone: 5 START CARD EE05031 COORDINATES SURFACE ELEVATION -	03.847.2740 WELL ID		BORING NO. PROJECT LOCATION PROJECT NO. LOGGED BY	EES-8 RJ Frank Site Ridgefield, WA 2001-01 RR	PAGE <b>1</b> OF <b>1</b>
LAB	FORMATION	ZTRATA	DES	CRIPTION	CONSTRUCTION DETAIL/
DEPTH FEET SAMPLE ID TYPE	(ppmV) SHEEN RECOVER				
- - EES-8 Grab (3-3.5) 5-	0.5 NS		Stiff, dark brown (ML) with gravel; Becomes without	: gravel. k organic material feet.	New schedule 40 0.75-inch diameter PVC riser 0-10 feet.
- EES-8 Grab (7.5-8)	0.1 NS 100				
EES-8 Grab 	0.5 NS		No free water obs	served while drilling.	New schedule 40 0.75-inch diameter, 0.02-inch slot, temporary PVC well screen 10-15 feet.
15 - ( <u>14.5-15)</u>	0.9 NS		3.5-inch dual-tube conductor casing Groundwater slov borehole.Tempor to stabilize overn indicated (retract to 10 feet bgs pri Backfilled boreho	w to enter ary well set and allowed ight (sampled 4/18), as ed steel conductor casing	
DRILLING CONTRACTOR DRILLING METHOD DRILLING EQUIPMENT	Pacific Soil and Water Direct-Push Macro/Du GeoProbe 9500VTR	•	groundwater		purge water. Collected n temporary well screen
DRILLING STARTED 4	17/14 ENDED 4/18/	14	See key sheet for	r symbols and abbreviations	s used above.

START COORI	S 240 Port	ephone: 50 E05031	vay #203 97227 03.847.27	40 WEL	). L ID <b></b> UM <b></b>		BORING NO. PROJECT LOCATION PROJECT NO. LOGGED BY	EES-9 RJ Frank Site Ridgefield, WA 2001-01 RR		PAGE <b>1</b> O	F <b>1</b>
DEPTH FEET	IAR	SAMPLE TYPE	PID (ppmV)		RECOVERY %	STRATA		SCRIPTION		CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
	-		0.2	NS		<u>112 112</u>	Topsoil.				
	EES-9 (1.5-2)	Grab	0.2	INS	100		Stiff, brown sand moist.	y SILT (ML) with gravel;			
	EES-9 (3-3.5)	Grab	0.4	NS	100		Wood debris with debris.	n some plastic sheet		New schedule 40	
5-	EES-9 (5.5-6)	Grab	1.1	NS			Stiff, gray very fi moist.	ne sandy SILT (ML);		0.75-inch diameter PVC riser 0-10 feet.	
	-				100						
10-	-		0.1	NS					¥.		
10-	-				100		Becomes brown.			New schedule 40 0.75-inch diameter, 0.02-inch slot, temporary PVC well screen 10-15 feet.	
	EES-9 (14.5-15)/	Grab	0.0	NS			Boring complete	at 15 feet bgs using			
							3.5-inch dual-tub conductor casing Set temporary w steel conductor of to well purge). Backfilled boreho	e macro-core with steel			
DRILLII DRILLII	NG CONTE	DD	Direct-		acro/Dua		groundwater	lo sheen observed on sample EES-9(W) froi I0-15 feet bgs.			
	NG EQUIP		17/14	ENDED	4/17/14	4	See key sheet fo	r symbols and abbreviation	s used a	bove.	

START COORI	S 240 Port	N. Broadv land, OR 9 phone: 50	vay #203 97227 03.847.27	WEL	). L ID <b></b> UM <b></b>		BORING NO. PROJECT LOCATION PROJECT NO. LOGGED BY	EES-10 RJ Frank Site Ridgefield, WA 2001-01 RR		PAGE <b>1</b> O	F <b>1</b>
						TA			(	CONSTRUCTION	T
DEPTH FEET	LAB SAMPLE ID	SAMPLE TYPE	PID (ppmV)	SHEEN	RECOVERY %	STRATA	DES	SCRIPTION		DETAIL/ COMMENTS	ELEVATION FEET
-	_		0.0	NS		<u>, 17, 11</u> 17, <u>17,</u> 17, <u>17,</u>	Topsoil.				
-	EES-10 (1.5-2) EES-10 (3-3.5)	Grab Grab	0.1	NS	100		Stiff, brown with very fine sandy S moist.	some orange mottling SILT (ML) with gravel;			
5-	EES-10	Grab	0.5	NS			Below 4 feet bec gravel.	omes gray, little or no		New schedule 40 0.75-inch diameter PVC riser 0-10 feet.	
-	(5.5-6)				100						
10-	-		0.1	NS						New schedule 40 0.75-inch diameter,	
-	-		0.1	NS	100				¥	0.02-inch slot, temporary PVC well screen 10-15 feet.	
15-	_ EES-10 \ <u>(14.5-15)</u> )	Grab					3.5-inch dual-tub conductor casing Set temporary w steel conductor of to well purge). Backfilled boreho	at 15 feet bgs using e macro-core with steel g. ell as indicated (retracted casing to 10 feet bgs prior ole with granular bentonite of sample activities.			
DRILLI	NG CONTF NG METHO	DD	Direct-		acro/Dua		groundwater	lo sheen observed on sample EES-10(W) fro 10-15 feet bgs.			n
	NG EQUIP		17/14	ENDED	4/17/14	4	See key sheet fo	r symbols and abbreviation	s used a	bove.	

START COORI	S 240 Port	ephone: 50 E05031	vay #203 97227 03.847.27	40 WEL	). L ID <b></b> UM <b></b>		BORING NO. PROJECT LOCATION PROJECT NO. LOGGED BY	EES-11 RJ Frank Site Ridgefield, WA 2001-01 RR	PAGE <b>1</b>	of <b>1</b>
SURFA					0101		LOGGED BT			7
DEPTH FEET	LAB SAMPLE ID	SAMPLE	PID (ppmV)		RECOVERY %	STRATA	DES	SCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
	EES-11 (3-3.5)	Grab	6.9	NS	100		Topsoil. Stiff, dark brown (ML) with gravel; Becomes very st			
5-	EES-11 (5-5.5)	Grab	8.0	NS			becomes very si	in and gray.	New schedule 40 0.75-inch diameter PVC riser 0-10 feet.	
	EES-11 (8-8.5)	Grab	7.7	NS	100				<b>⊻</b>	
10-	- - - EES-11 (14-14.5)	Grab	8.0	NS	100		Becomes wet. Becomes brown.		New schedule 40 0.75-inch diameter, 0.02-inch slot, temporary PVC well screen 10-15 feet.	
15-							3.5-inch dual-tub conductor casing Set temporary w steel conductor of to well purge). Backfilled boreho	at 15 feet bgs using e macro-core with steel l. ell as indicated (retracted easing to 10 feet bgs prior ble with granular bentonite of sample activities.		
DRILLI	NG CONTR NG METHO NG EQUIP	DD	Direct-		acro/Dua		groundwater		n purge water. Collected om temporary well scre	
	NG START	'ED <b>4/</b>	16/14	ENDED	4/16/14	4	See key sheet fo	r symbols and abbreviation	ns used above.	

EES 240 N Portla Telep START CARD EE COORDINATES	hone: 503.847. <b>505031</b>	3 2740 WEL	l ID <b></b>		BORING NO. PROJECT LOCATION PROJECT NO.	EES-12 RJ Frank Site Ridgefield, WA 2001-01	PAGE <b>1</b> OF	1
SURFACE ELEVAT			JM		LOGGED BY	RR		
DEPTH LAB	AMPLE PID	SHEEN	RECOVERY %	STRATA	DES	SCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
- - - - - - - - - - - - - - - - - - -	Grab 7.2 6.8 Grab 8.6	NS NS NS	100		gravel; moist. Brown wood chip	sandy SILT (ML) with o debris. ery fine sandy SILT (ML);	New schedule 40 0.75-inch diameter PVC riser 0-10 feet.	
10- - - - - EES-12	10.7 7.2 Grab 7.7	NS	100				New schedule 40 0.75-inch diameter, 0.02-inch slot, temporary PVC well screen 10-15 feet.	
					3.5-inch dual-tub conductor casing Set temporary w steel conductor of to well purge). Backfilled boreho	at 15 feet bgs using e macro-core with steel l ell as indicated (retracted casing to 10 feet bgs prior ble with granular bentonite of sample activities.		
DRILLING CONTRA DRILLING METHOL DRILLING EQUIPM DRILLING STARTE	D Direction Direction	ic Soil and t-Push Ma Probe 9500 ENDED	icro/Dua	ıl	groundwater placed from f		n purge water. Collected om temporary well screen	

START	S 240 Port	N. Broadv land, OR 9 phone: 50	vay #203 97227		). L ID <b></b>		BORING NO. PROJECT LOCATION PROJECT NO.	EES-13 RJ Frank Site Ridgefield, WA 2001-01		PAGE <b>1</b> O	F <b>1</b>
SURFA	CE ELEVA	TION		DAT	UM		LOGGED BY	RR			
	SAM	PLE INF		ΓΙΟΝ		A			CC	ONSTRUCTION	NO
DEPTH FEET	LAB SAMPLE ID	SAMPLE TYPE	PID (ppmV)	SHEEN	RECOVERY %	STRATA	DES	SCRIPTION		DETAIL/ COMMENTS	ELEVATION FEET
5-	EES-13 (3-3.5)	Grab	2.5	NS	100		(GP) with silt; mo Stiff, gray to dark SILT (ML); moist	k gray very fine sandy d chips encountered	0	lew schedule 40 175-inch diameter VC riser 0-10 feet.	
-	EES-13 (7.5-8)	Grab	9.0	NS	100						
	EES-13 (10-10.5)	Grab	46.2 11.6	NS	100					lew schedule 40 .75-inch diameter, .02-inch slot, emporary PVC well creen 10-15 feet.	
-	EES-13	Grab	10.4	NS							
15-	<u>(14.5-15)</u>						3.5-inch dual-tub conductor casing Set temporary w steel conductor of to well purge). Backfilled boreho	at 15 feet bgs using e macro-core with steel g. ell as indicated (retracted casing to 10 feet bgs prior ole with granular bentonite of sample activities.			
DRILLI	⊥ NG CONTF NG METHO NG EQUIP	DD	Direct-	Soil and Push Ma	acro/Dua		groundwater	lo sheen observed on sample EES-13(W) fro 10-15 feet bgs.			n
	NG START		16/14	ENDED	4/16/1	4	See key sheet fo	r symbols and abbreviation	s used abo	ve.	

START	S 240 Port	phone: 50	vay #203 97227	40	2. L ID <b></b>		BORING NO. PROJECT LOCATION PROJECT NO.	EES-14 RJ Frank Site Ridgefield, WA 2001-01		PAGE <b>1</b> O	F <b>1</b>
SURFA	CE ELEVA	TION		DAT	UM		LOGGED BY	RR	1		
	SAM	IPLE INF	ORMA	ΓΙΟΝ		4				CONSTRUCTION	NO
DEPTH FEET	LAB SAMPLE ID	SAMPLE TYPE	PID (ppmV)	SHEEN	RECOVERY %	S.		CRIPTION		DETAIL/ COMMENTS	ELEVATION FEET
5-	EES-14 (1.5-2) EES-14 (3-3.5) EES-14 (5.5-6)	Grab Grab	0.1 0.2 0.6 0.8	NS NS NS	100			iff and gray.		New schedule 40 0.75-inch diameter PVC riser 0-10 feet. New schedule 40 0.75-inch diameter, 0.02-inch slot, temporary PVC well	
	EES-14 (14-14.5)	Grab	0.1	NS			Boring complete	at 15 feet bgs using		screen 10-15 feet.	
							3.5-inch dual-tub conductor casing Set temporary w steel conductor of to well purge). Backfilled boreho	e macro-core with steel			
DRILLI	NG CONTF NG METHO NG EQUIP	DD	Direct-		acro/Dua		groundwater	lo sheen observed on sample EES-14(W) fro 10-15 feet bgs.			n
	NG START	ED <b>4/1</b>	16/14	ENDED	4/16/14	4	See key sheet fo	r symbols and abbreviation	s used a	ibove.	

COORDI	S 240 Port Tele CARD N	S Environm N. Broadv land, OR S phone: 50	vay #203 97227 03.847.27	40 WEL	e. L ID <b></b> UM <b></b>		BORING NO. PROJECT LOCATION PROJECT NO. LOGGED BY	EES-14A RJ Frank Site Ridgefield, WA 2001-01 RR	PAGE <b>1</b> OF	· 1
	SAM	IPLE INF	ORMA	ΓΙΟΝ		4			CONSTRUCTION	N
DEPTH FEET	LAB SAMPLE ID	SAMPLE TYPE	PID (ppmV)	SHEEN	RECOVERY %	STRATA	DES	SCRIPTION	DETAIL/ COMMENTS	ELEVATION FEET
	EES-14A _(1.5-2) /	Grab	0.5	NS	100		Gravel is subrou Becomes with so Becomes with bl Boring complete subsurface obstr Groundwater no	ack woody debris. at 2 feet due to ruction. t encountered. ole with soil cuttings after		
	G METHO G EQUIP	MENT	Hand A	-	Sampler 6/19/14		REMARKS See key sheet fo	or symbols and abbreviations	s used above.	

-	S 240	N. Broadv land, OR 9 phone: 50	vay #203 97227		). L ID <b></b>		BORING NO. PROJECT LOCATION PROJECT NO.	EES-15 RJ Frank Site Ridgefield, WA 2001-01		PAGE <b>1</b> O	F <b>1</b>
SURF	ACE ELEVA	ATION		DAT	UM	1	LOGGED BY	RR	1		
	SAM	IPLE INF	ORMA	TION		ΓA				CONSTRUCTION	
DEPTH FEET	LAB SAMPLE ID	SAMPLE TYPE	PID (ppmV)	SHEEN	RECOVERY %	STRATA	DES	SCRIPTION		DETAIL/ COMMENTS	ELEVATION FEET
5	- - - - - - - - - - - - - - - - - - -	Grab	0.1	NS	100		moist. Brown medium S	gray silty GRAVEL (GP); SAND (SP); moist.	-	New schedule 40 0.75-inch diameter PVC riser 0-10 feet.	
	- _ _ EES-15 _ (7.5-8) _	Grab	0.2	NS	100		Stiff, brown with sandy SILT (ML)	orange mottles very fine ; moist.			
10-	- - - - - - -	Grab	0.0	NS	100					New schedule 40 0.75-inch diameter, 0.02-inch slot, temporary PVC well screen 10-15 feet.	
	<u>(14.5-15)</u>						3.5-inch dual-tub conductor casing Groundwater slo borehole.Tempo to stabilize overr indicated (retract to 10 feet bgs pr Backfilled boreho				
DRILL	NG CONTR	DD	Direct-	Soil and Push Ma obe 9500	acro/Dua		groundwater	lo sheen observed on sample EES-15(W) fro 10-15 feet bgs.			n
	NG START		17/14	ENDED	4/18/1	4	See key sheet fo	or symbols and abbreviation	s used a	above.	

EES 240	ephone: 50	vay #203 97227	40 WEL	c. L ID <b></b> UM <b></b>		BORING NO. PROJECT LOCATION PROJECT NO. LOGGED BY	EES-16 RJ Frank Site Ridgefield, WA 2001-01 RR	PAGE 1 OF 1		
SAM	IPLE INF	ORMA	ΓΙΟΝ		A					
DEPTH FEET ID	SAMPLE TYPE	PID (ppmV)	SHEEN	RECOVERY %	STRATA	DES	SCRIPTION	CONSTRUCTION DETAIL/ COMMENTS		
EES-16 (1.5-2) EES-16 (3-3.5)	Grab Grab	0.2 0.4	NS NS	100		moist. Gravel is coarse-grained. Brown to black s woody debris; m	ilty SAND (SM), some			
						subsurface obstr Groundwater not	ruction. t encountered. ole with soil cuttings after			
		EES Hand A	ugor			REMARKS				
DRILLING CONTI			-	Sample	r					
DRILLING START		9/14	ENDED	6/19/1		See key sheet fo	or symbols and abbreviation	s used above.		

START COORE	CARD N	S Environm N. Broadv Iland, OR S Phone: 50	vay #203 97227	40 WEL	c. LID UM		BORING NO. PROJECT LOCATION PROJECT NO. LOGGED BY	EES-17 RJ Frank Site Ridgefield, WA 2001-01 RR	PAGE <b>1</b> OF <b>1</b>
	SAM	IPLE INF	ORMA	TION		-			
DEPTH FEET	LAB SAMPLE ID	SAMPLE TYPE	PID (ppmV)	SHEEN	RECOVERY %	STRATA	DES	SCRIPTION	CONSTRUCTION OF LEASE DETAIL/ COMMENTS
- - - 5	EES-17 (1.5-2) EES-17 (3-3.5)	Grab Grab	0.1 0.0 0.0	NS NS NS	100		moist. Gravel is coarse-grained. Black plastic end Brownish gray si orange mottling;	countered. Ity SAND (SM), with	
	EES-17 (5-5.5)	Grab					Boring complete Groundwater no Backfilled boreh completion of sa	t encountered. ole with soil cuttings after	
DRILLIN		RACTOR	EES				REMARKS		
	NG METHO		Hand A 2.75-in	-	Samplei	•			
	NG START	ED <b>6/1</b>	19/14	ENDED	6/19/14		See key sheet fo	or symbols and abbreviation	s used above.

START COORE	CARD N	S Environm N. Broadv Iland, OR Sphone: 50 IA	vay #203 97227 03.847.27	40 WEL	c. _L ID <b></b> UM <b></b>		BORING NO. PROJECT LOCATION PROJECT NO. LOGGED BY	EES-18 RJ Frank Site Ridgefield, WA 2001-01 RR	PAGE <b>1</b> OF	- 1
	SAM	IPLE INF	FORMA	ΓΙΟΝ		A			CONSTRUCTION	NO
DEPTH FEET	LAB SAMPLE ID	SAMPLE TYPE	PID (ppmV)	SHEEN	RECOVERY %	STRATA	DES	SCRIPTION	DETAIL/ COMMENTS	ELEVATION FEET
-	EES-18 (1.5-2) EES-18 (3-3.5)	Grab Grab	0.1	NS NS	100		moist. Gravel is coarse-grained.	ilty SAND (SM), with		
5-	EES-18	Grab	0.0	NS			Boring complete Groundwater no	t encountered. ole with soil cuttings after		
DRILLI	NG CONTI		Hand A	-	Samplei		REMARKS			
	NG START		19/14		6/19/14		See key sheet fo	or symbols and abbreviation	s used above.	